



PRICE LIST

2013

South-East Europe

be
think
innovate

GRUNDFOS 

THERE IS A NEW SET OF RULES



From 1st January 2013 new rules apply for circulator pumps. The EuP legislation allows only the most energy efficient circulators to be placed on the market.

Only 30% of standalone circulators sold today will meet the new demands of 2013 – the Magna and Alpha 2 are more than ready and have been so for years.

The old label is out – great savings are in

From 1st January 2013 the old A-G energy label will be replaced by an Energy Efficiency Index (EEI). Only the best of today's A-labelled circulators will meet the new demands.

The EuP Directive's chief aim is to improve the energy efficiency of energy-using products (EuPs). It thus contributes towards reaching the European Union's targets for climate protection.

The EuP Directive is an abbreviation for the Energy Using Products Directive, also known as the Ecodesign Directive. The directive does not only cover products' energy use but also aims to reduce the discussed products' general negative environmental impact.

The most significant change is that the directive not only covers "energy using" products, but also the so-called "energy-related" products.

Some of the main points of the EuP Directive include:

EEI of 0,27 in 2013

From January 1st 2013, glandless standalone circulators, (except for those specifically designed for primary circuits of thermal solar systems and heat pumps) must have an energy efficiency index (EEI) of no more than 0.27.

Energy efficiency index is the difference between annual consumption of the product and the standard consumption of a typical similar model.

EEI of 0,23 in 2015

From August 1st 2015, glandless standalone circulators as well as glandless circulators which are integrated in products must have an EEI of no more than 0.23.

For circulators, the directive is based on these principles:

Annual electricity consumption in the EU (EU27) is 50 TWh per year (2009)

The estimated electricity consumption in the EU without legislation would be 55 TWh by 2020

The estimated electricity consumption in the EU with legislation would be 32 TWh by 2020



Alpha2

The improved new ALPHA2 small circulator offers unrivalled energy efficiency based on proven Grundfos technologies and is the perfect choice for heating, air-conditioning and cooling applications with pumped media temperatures down to +2°C.



Sololift2

SOLOLIFT2 is a unique range of compact lifting stations enabling a drain of any domestic sanitary appliance wherever needed, independent from the gravity drain system. The units collect and pump the wastewater through a thin pressure pipe (>23mm) to the next down pipe – up to 6m high or 100m distance.



Magna3

The MAGNA3/UBE pumps make up a broad range of small, medium and large circulator pumps fitted with communication equipment and motors with electronic speed control based on permanent magnet (PM) and compact stator motor technology.



Comfort PM AutoAdapt

A brand new, low noise permanent magnet motor allows the energy consumption of the COMFORT PM range to be reduced to as little as 5-8,5 W. Combined with the intelligent AUTOADAPT function this sets new standards for energy-efficient hot water recirculation in private homes.



Dedicated Control

A Grundfos Dedicated Controls system consists of either separate modules for local integration or modules installed and electrically connected in a complete control cabinet for easier integration. Grundfos Dedicated Controls can be used with standard functionality for normal needs, but it also supports more advanced functions for wastewater pits.



SEG AutoAdapt

The world's best sewage pumps have just got even better. Grundfos sewage pumping solutions are already capable of cutting through everything in their path, now this proven performance is optimised beyond belief with the addition of AUTOadapt.

AUTOadapt quite simply removes all external sensors, switches and cables from the pit, combining all sensors in a single pump that adapts automatically to conditions in the pit. This simplifies installation, commissioning and operation, and increases reliability.



SE-SL

The SE and SL ranges of wastewater pumps provide the highest total efficiency on the market. Innovative technologies from Grundfos bring together intelligence, motors, hydraulics and functionality to meet the challenges of modern wastewater, maximising the hydraulic, electrical and mechanical efficiency of your pumps.

1	Circulation pumps for heating	
	1.1 Variable speed circulation pumps	ALPHA2, MAGNA3, MAGNA3 / Accessories, MAGNA, Accessories. 6
	1.2 Standard Solar pumps	SOLAR, Accessories. 11
2	Circulation pumps for hot/drinking water	
	2.1 Variable speed circulation pumps	ALPHA2 N, MAGNA N 13
	2.2 Standard circulator pumps for hot/drinking water circulation	COMFORT PM AUTOADAPT/COMFORT (PM)/ UP/UPS, UPS series 200 13
3	In-line pumps fix-speed and controlled	
	3.1 TP / TPE	DN 25 to DN 65 – single phase, DN 80 to DN 100 – single phase, DN 25 to DN 40 – three phase, DN 25 to DN 40 – three phase, DN 25 to DN 40 – three phase, DN 50 to DN 65 – three phase, DN 80 – three phase, DN 100 – three phase, DN 125 to DN 150 – three phase, DN 200 to DN 400 – three phase, 16
	3.2 TPD / TPED	DN 32 to DN 50 – single phase, DN 65 to DN 100 – single phase, DN 32 to DN 50 – three phase, DN 65 to DN 80 – three phase, DN 100 to DN 150 – three phase, DN 25 to DN 100 – single phase, DN 25 to DN 100 – three phase. 32
	3.3 Accessories	Adapter for flanged pumps, Fitting kit for TPED with two sensors, Baseplates, consoles, Motor protector (only for standard motors without frequency converter), Modules for BUS Communication 41
4	End-suction pumps with coupling, mounted on baseplate	
	4.1 End-suction pumps with coupling, mounted on baseplate acc. EN 733, 2-pole	NK / NKE 44
	4.2 End-suction pumps with coupling, mounted on baseplate acc. EN 733, 4-pole	NK / NKE 47
	4.3 End-suction pumps with coupling, mounted on baseplate acc. EN 733	NK / NKE. 50
5	Close coupled end-suction pumps	
	5.1 2-pole close coupled end-suction pumps acc. DIN EN 733 Standard	NB / NBE 53
	5.2 4-pole close coupled end-suction pumps acc. DIN EN 733 Standard	NB / NBE 56
	5.3 6-pole close coupled end-suction pumps acc. DIN EN 733 Standard	NB / NBE 59
	5.4 Close coupled end-suction pumps acc. EN 733	NB / NBE 61
	5.5 Close coupled end-suction pumps acc. EN 733	NB / NBE 61
6	Control systems	
	6.1 Cascade controls	Control MPC-E, Control MPC-series 2000/-E, Control MPC-F, Custom solution 63
	6.2 Controls with external frequency converter	Accessories 67
	6.3 Sensors/Bus gateways for control systems	Accessories 68
	6.4 Sensors for control systems	

7

Multistage centrifugal pumps

7.1 Vertical multistage centrifugal pumps

CRE 1 / CRE 3 / CRE 5, CRE 10 / CRE 15 / CRE 20, CRE 32 / CRE 45 / CRE 64 / CRE 90, CRE 120 / CRE 150, CRNE 1 / CRNE 3 / CRNE 5, CRNE 10 / CRNE 15 / CRNE 20, CRNE 32 / CRNE 45 / CRNE 64 / CRNE 90, CRNE 120 / CRNE 150, CR 1s / CR 1, CR 3 / CR 5, CR 10 / CR 15 / CR 20, CR 32 / CR 45, CR 64 / CR 90 / CR 120 / CR 150, CRI 1s / CRN 1s, CRI 1 / CRN 1, CRI 3 / CRN 3, CRI 5 / CRN 5, CRI 10 / CRN 10, CRI 15 / CRN 15 / CRI 20 / CRN 20, CRN 32 / CRN 45, CRN 64 / CRN 90 / CRN 120 / CRN 150, CR high pressure pump systems, CRT 2 / 4 / 8 / 16, Options / certificates	70
CM-A 1, 3, 5, 10, 15, 25, CM-I 1, 3, 5, 10, 15, 25, CM-G 1, 3, 5, 10, 15, 25, CME-A 1, 3, 5, 10, 15, 25, CME-E 1, 3, 5, 10, 15, 25, CME-G 1, 3, 5, 10, 15, 25	106

7.2 Horizontal multistage centrifugal pumps

8

Coolant pumps

8.1 Pumps for coolant recirculation 8.2 Immersible coolant pumps

MTB	113
SPK 2 / SPK 4, SPK 8, MTH 2, MTH 4, MTR 1s / MTR 1, MTR 3 / MTR 5, MTR 10 / MTR 15 / MTR 20, MTR 32 / MTR 45 / MTR 64, MTRE 1(S) / MTRE 3 / MTRE 5 MTRE 10 / MTRE 15 / MTRE 20, MTRE 32 / MTRE 45 / MTRE 64, Options	113
MTS 20 / MTS 40 / MTS 80	120

8.3 Coolant pumps till 130 bar

9

Submersible pumps

9.1 Submersible pumps for water supply 9.2 Pumps for environmental use 9.3 Sampling pumps 9.4 Accessories

SP	122
SQE-NE, SP-NE	128
MP1	130
Cable accessories, Accessories for cable connection M 0 to M 6, Cable accessories, Cable termination kit KM, Accessories for cable termination kit K M, Pt 100 temperature sensor, Connection flange, Motor protector MP 204/MP 205, Current transformer for MP 204/MP 205	130

10

Pumps and boosters for domestic water supply

10.1 Submersible pumps 10.2 Pumps and boosters for groundwater 10.3 Rain water units and pumps 10.4 Multistage 5" submersible pumps

SQ/SQE, Accessories SQ/SQE	134
MQ/IP/Hydrojet	137
RMQ/SB	138
SPO	138

11	Pressure boosters	
	11.1 Pressure boosters	Hydro Multi-S booster unit with CM(I) pumps, Hydro Multi-S booster unit with CR pumps141
	11.2 Pressure boosters with one or more pumps	Hydro Multi E, Hydro MPC, Custom solution142
	11.3 Pressure boosters with one or more pumps	Accessories143
12	Dosing	
	12.1 Dosing pumps	DDE-B (0 – 15 l/h), DDE-P (0 – 15 l/h), DDE-PR (0 – 15 l/h), DDC-A (0 – 15 l/h), DDC-AR (0 – 15 l/h), DDA-AR (0 – 30 l/h), DDA-FC (0 – 30 l/h), DDA-FCM (0 – 30 l/h), DME, DDI 222 (0 – 150 l/h), Accessories154
13	Drainage pumps	
	13.1 Drainage pumps	UNILIFT CC, UNILIFT KP171
	13.2 Sewage and drainage pumps	UNILIFT AP, DP, EF, SL1, SLV172
	13.3 Contractor pumps	DW, DWK, DPK182
	13.4 Self-priming wastewater pumps	POMONA185
14	Sewage pumps	
	14.1 Sewage pumps with grinder system	SEG187
	14.2 Sewage pumps with vortex impeller	SLV188
	14.3 Sewage pumps with single channel impeller	SL1190
	14.4 Sewage pumps with vortex impeller	SEV192
	14.5 Sewage pumps with single channel impeller	SE1194
15	Compact lifting units	
	15.1 Compact lifting units	SOLOLIFT2197
	15.2 Condansate lifting units	CONLIFT198
	15.3 Prefabricated pits for drainage	LIFTAWAY C, LIFTAWAY B198
16	Lifting station for sewage	
	16.1 Lifting station for sewage	MULTILIFT200
17	Controls for sewage	
	17.1 Controls for sewage	LC, DC204
18	Service Solutions	
	18.1 Service Solutions	I. Commissioning, II. Maintenance, III. Flow measurement, IV. Machine status report, V. Service-trainings, VI. Grundfos Remote Management (GRM)207

Chapter 1

Circulation pumps for heating



1

Grundfos ALPHA2 (Product Group: DH)

Type	Installation Length [mm]	Standard Connection Size	EEI ¹⁾	Voltage [V]	Pieces per Pallet	Product-No.	EUR
ALPHA2 25-40 180	180	G 1 1/2	0,15	1 x 230 V	252	97 70 49 90	198,56
ALPHA2 25-50 180	180	G 1 1/2	0,16	1 x 230 V	252	97 99 32 00	211,07
ALPHA2 25-60 180	180	G 1 1/2	0,17	1 x 230 V	252	97 99 32 01	225,67
ALPHA2 32-40 180	180	G 2	0,15	1 x 230 V	252	97 99 32 03	223,82
ALPHA2 32-50 180	180	G 2	0,16	1 x 230 V	252	97 99 32 04	234,64
ALPHA2 32-60 180	180	G 2	0,17	1 x 230 V	252	97 99 32 05	245,47

Grundfos ALPHA2 stainless-steel pump housing (Product Group: DH)

Type	Installation Length [mm]	Standard Connection Size	EEI ¹⁾	Voltage [V]	Pieces per Pallet	Product-No.	EUR
ALPHA2 25-40 N 180	180	G 1 1/2	0,15	1 x 230 V	252	97 99 32 09	377,27
ALPHA2 25-50 N 180	180	G 1 1/2	0,16	1 x 230 V	252	97 99 32 10	401,02
ALPHA2 25-60 N 180	180	G 1 1/2	0,17	1 x 230 V	252	97 99 32 11	428,75
ALPHA2 32-40 N 180	180	G 2	0,15	1 x 230 V	252	97 99 32 12	425,26
ALPHA2 32-50 N 180	180	G 2	0,16	1 x 230 V	252	97 99 32 13	445,82
ALPHA2 32-60 N 180	180	G 2	0,17	1 x 230 V	252	97 99 32 14	466,40

Grundfos ALPHA2 L (Product Group: DH)

Type	Installation Length [mm]	Standard Connection Size	EEI ¹⁾	Voltage [V]	Pieces per Pallet	Product-No.	EUR
ALPHA2 L 25-40 180	180	G 1 1/2	0,18	1 x 230 V	252	95 04 75 62	148,93
ALPHA2 L 25-60 130	130	G 1 1/2	0,22	1 x 230 V	252	95 04 75 63	169,24
ALPHA2 L 25-60 180	180	G 1 1/2	0,22	1 x 230 V	252	95 04 75 64	169,24
ALPHA2 L 32-40 180	180	G 2	0,18	1 x 230 V	252	95 04 75 65	167,81
ALPHA2 L 32-60 180	180	G 2	0,22	1 x 230 V	252	95 04 75 66	184,11

Accessories ALPHA2 (Product Group: DH)

Type	Model for	Product-No.	EUR
Kit ALPHA plug, angled with 4 m connection cable	only for ALPHA2, ALPHA2 L and Comfort PM models	96 88 46 69	19,82
ALPHA plug kit, complete	ALPHA2, ALPHA2 L, MAGNA with plug connection and Comfort AutoAdapt contains the plug in original scope of supply.	59 55 62	16,21

Grundfos MAGNA3 single pumps PN 06, 10, 06/10 DN 32-100 (Product Group: CB)

Type	Installation Length [mm]	Standard Connection Size	EEI ¹⁾	Voltage [V]	Flange Model	Product-No.	EUR
MAGNA3 32-120 F	220	DN 32	0,18	1x230 V	PN6/10	97 92 42 59	948,58
MAGNA3 40-80 F	220	DN 40	0,19	1x230 V	PN6/10	97 92 42 68	939,72
MAGNA3 40-100 F	220	DN 40	0,19	1x230 V	PN6/10	97 92 42 69	1.037,23
MAGNA3 40-120 F	250	DN 40	0,18	1x230 V	PN6/10	97 92 42 70	1.152,48
MAGNA3 40-150 F	250	DN 40	0,18	1x230 V	PN6/10	97 92 42 71	1.409,57
MAGNA3 40-180 F	250	DN 40	0,18	1x230 V	PN6/10	97 92 42 72	1.622,34
MAGNA3 50-40 F	240	DN 50	0,20	1x230 V	PN6/10	97 92 42 80	1.037,23
MAGNA3 50-60 F	240	DN 50	0,19	1x230 V	PN6/10	97 92 42 81	1.223,40
MAGNA3 50-80 F	240	DN 50	0,18	1x230 V	PN6/10	97 92 42 82	1.347,52
MAGNA3 50-100 F	280	DN 50	0,18	1x230 V	PN6/10	97 92 42 83	1.427,30
MAGNA3 50-120 F	280	DN 50	0,18	1x230 V	PN6/10	97 92 42 84	1.507,09
MAGNA3 50-150 F	280	DN 50	0,17	1x230 V	PN6/10	97 92 42 85	1.737,59
MAGNA3 50-180 F	280	DN 50	0,17	1x230 V	PN6/10	97 92 42 86	2.039,01
MAGNA3 65-40 F	340	DN 65	0,18	1x230 V	PN6/10	97 92 42 94	1.303,19
MAGNA3 65-60 F	340	DN 65	0,18	1x230 V	PN6/10	97 92 42 95	1.489,36
MAGNA3 65-80 F	340	DN 65	0,17	1x230 V	PN6/10	97 92 42 96	1.622,34
MAGNA3 65-100 F	340	DN 65	0,17	1x230 V	PN6/10	97 92 42 97	1.710,99
MAGNA3 65-120 F	340	DN 65	0,17	1x230 V	PN6/10	97 92 42 98	1.835,11
MAGNA3 65-150 F	340	DN 65	0,17	1x230 V	PN6/10	97 92 42 99	2.118,79
MAGNA3 80-40 F	360	DN 80	0,17	1x230 V	PN10	97 92 42 99	2.118,79
MAGNA3 80-40 F	360	DN 80	0,17	1x230 V	PN6	97 92 43 06	1.560,28
MAGNA3 80-60 F	360	DN 80	0,17	1x230 V	PN10	97 92 43 17	1.805,85
MAGNA3 80-60 F	360	DN 80	0,17	1x230 V	PN6	97 92 43 07	1.719,86

Type	Installation Length [mm]	Standard Connection Size	EEI ¹⁾	Voltage [V]	Flange Model	Product-No.	EUR
MAGNA3 80-80 F	360	DN 80	0,17	1x230 V	PN10	97 92 43 18	1.945,48
MAGNA3 80-80 F	360	DN 80	0,17	1x230 V	PN6	97 92 43 08	1.852,84
MAGNA3 80-100 F	360	DN 80	0,17	1x230 V	PN10	97 92 43 19	2.122,34
MAGNA3 80-100 F	360	DN 80	0,17	1x230 V	PN6	97 92 43 09	2.021,28
MAGNA3 80-120 F	360	DN 80	0,17	1x230 V	PN10	97 92 43 20	2.382,98
MAGNA3 80-120 F	360	DN 80	0,17	1x230 V	PN6	97 92 43 10	2.269,50
MAGNA3 100-40 F	450	DN 100	0,17	1x230 V	PN10	97 92 43 21	1.926,86
MAGNA3 100-40 F	450	DN 100	0,17	1x230 V	PN6	97 92 43 11	1.835,11
MAGNA3 100-60 F	450	DN 100	0,17	1x230 V	PN10	97 92 43 22	2.103,72
MAGNA3 100-60 F	450	DN 100	0,17	1x230 V	PN6	97 92 43 12	2.003,55
MAGNA3 100-80 F	450	DN 100	0,17	1x230 V	PN10	97 92 43 23	2.280,59
MAGNA3 100-80 F	450	DN 100	0,17	1x230 V	PN6	97 92 43 13	2.171,99
MAGNA3 100-100 F	450	DN 100	0,17	1x230 V	PN10	97 92 43 24	2.485,37
MAGNA3 100-100 F	450	DN 100	0,17	1x230 V	PN6	97 92 43 14	2.367,02
MAGNA3 100-120 F	450	DN 100	0,17	1x230 V	PN10	97 92 43 25	2.820,48
MAGNA3 100-120 F	450	DN 100	0,17	1x230 V	PN6	97 92 43 15	2.686,17

¹⁾ Energy Efficiency Index, Best in Class ≤ 0.20

Grundfos MAGNA3 single pumps PN 16 DN 32-100 (Product Group: CB)

Type	Installation Length [mm]	Standard Connection Size	EEI ¹⁾	Voltage [V]	Flange Model	Product-No.	EUR
MAGNA3 32-120 F	220	DN 32	0,18	1x230 V	PN16	97 92 42 65	1.109,84
MAGNA3 40-80 F	220	DN 40	0,19	1x230 V	PN16	97 92 42 75	1.099,47
MAGNA3 40-100 F	220	DN 40	0,19	1x230 V	PN16	97 92 42 76	1.213,56
MAGNA3 40-120 F	250	DN 40	0,18	1x230 V	PN16	97 92 42 77	1.348,40
MAGNA3 40-150 F	250	DN 40	0,18	1x230 V	PN16	97 92 42 78	1.649,20
MAGNA3 40-180 F	250	DN 40	0,18	1x230 V	PN16	97 92 42 79	1.898,14
MAGNA3 50-40 F	240	DN 50	0,20	1x230 V	PN16	97 92 42 87	1.213,56
MAGNA3 50-60 F	240	DN 50	0,19	1x230 V	PN16	97 92 42 88	1.431,38
MAGNA3 50-80 F	240	DN 50	0,18	1x230 V	PN16	97 92 42 89	1.576,60
MAGNA3 50-100 F	280	DN 50	0,18	1x230 V	PN16	97 92 42 90	1.669,95
MAGNA3 50-120 F	280	DN 50	0,18	1x230 V	PN16	97 92 42 91	1.763,30
MAGNA3 50-150 F	280	DN 50	0,17	1x230 V	PN16	97 92 42 92	2.032,98
MAGNA3 50-180 F	280	DN 50	0,17	1x230 V	PN16	97 92 42 93	2.385,64
MAGNA3 65-40 F	340	DN 65	0,18	1x230 V	PN16	97 92 43 00	1.524,73
MAGNA3 65-60 F	340	DN 65	0,18	1x230 V	PN16	97 92 43 01	1.742,55
MAGNA3 65-80 F	340	DN 65	0,17	1x230 V	PN16	97 92 43 02	1.898,14
MAGNA3 65-100 F	340	DN 65	0,17	1x230 V	PN16	97 92 43 03	2.001,86
MAGNA3 65-120 F	340	DN 65	0,17	1x230 V	PN16	97 92 43 04	2.147,07
MAGNA3 65-150 F	340	DN 65	0,17	1x230 V	PN16	97 92 43 05	2.478,99
MAGNA3 80-40 F	360	DN 80	0,17	1x230 V	PN16	97 92 43 26	1.825,53
MAGNA3 80-60 F	360	DN 80	0,17	1x230 V	PN16	97 92 43 27	2.012,23
MAGNA3 80-100 F	360	DN 80	0,17	1x230 V	PN16	97 92 43 29	2.364,89
MAGNA3 80-120 F	360	DN 80	0,17	1x230 V	PN16	97 92 43 30	2.655,32
MAGNA3 100-40 F	450	DN 100	0,17	1x230 V	PN16	97 92 43 31	2.147,07
MAGNA3 100-60 F	450	DN 100	0,17	1x230 V	PN16	97 92 43 32	2.344,15
MAGNA3 100-80 F	450	DN 100	0,17	1x230 V	PN16	97 92 43 33	2.541,22
MAGNA3 100-100 F	450	DN 100	0,17	1x230 V	PN16	97 92 43 34	2.769,41
MAGNA3 100-120 F	450	DN 100	0,17	1x230 V	PN16	97 92 43 35	3.142,82

¹⁾ Energy Efficiency Index, Best in Class ≤ 0.20

Grundfos MAGNA3 D twin head pumps PN 06, 10, 06/10 DN 32-100 (Product Group: CB)

Type	Installation Length [mm]	Standard Connection Size	EEI ¹⁾	Voltage [V]	Flange Model	Product-No.	EUR
MAGNA3 D 32-120 F	220	DN 32	0,20	1x230 V	PN6/10	97 92 44 54	1.707,45
MAGNA3 D 40-80 F	220	DN 40	0,21	1x230 V	PN6/10	97 92 44 63	1.691,49
MAGNA3 D 40-100 F	220	DN 40	0,21	1x230 V	PN6/10	97 92 44 64	1.867,02
MAGNA3 D 40-120 F	250	DN 40	0,20	1x230 V	PN6/10	97 92 44 65	2.074,47
MAGNA3 D 40-150 F	250	DN 40	0,20	1x230 V	PN6/10	97 92 44 66	2.537,23
MAGNA3 D 40-180 F	250	DN 40	0,20	1x230 V	PN6/10	97 92 44 67	2.920,21
MAGNA3 D 50-40 F	240	DN 50	0,22	1x230 V	PN6/10	97 92 44 75	1.867,02

1

Type	Installation Length [mm]	Standard Connection Size	EEI ¹⁾	Voltage [V]	Flange Model	Product-No.	EUR
MAGNA3 D 50-60 F	240	DN 50	0,21	1x230 V	PN6/10	97 92 44 76	2.202,13
MAGNA3 D 50-80 F	240	DN 50	0,20	1x230 V	PN6/10	97 92 44 77	2.425,53
MAGNA3 D 50-100 F	280	DN 50	0,20	1x230 V	PN6/10	97 92 44 78	2.569,15
MAGNA3 D 50-120 F	280	DN 50	0,20	1x230 V	PN6/10	97 92 44 79	2.712,77
MAGNA3 D 50-150 F	280	DN 50	0,19	1x230 V	PN6/10	97 92 44 80	3.127,66
MAGNA3 D 50-180 F	280	DN 50	0,19	1x230 V	PN6/10	97 92 44 81	3.670,21
MAGNA3 D 65-40 F	340	DN 65	0,20	1x230 V	PN6/10	97 92 44 89	2.345,74
MAGNA3 D 65-60 F	340	DN 65	0,20	1x230 V	PN6/10	97 92 44 90	2.680,85
MAGNA3 D 65-80 F	340	DN 65	0,19	1x230 V	PN6/10	97 92 44 91	2.920,21
MAGNA3 D 65-100 F	340	DN 65	0,19	1x230 V	PN6/10	97 92 44 92	3.079,79
MAGNA3 D 65-120 F	340	DN 65	0,19	1x230 V	PN6/10	97 92 44 93	3.303,19
MAGNA3 D 65-150 F	340	DN 65	0,19	1x230 V	PN6/10	97 92 44 94	3.813,83
MAGNA3 D 80-100 F	360	DN 80	0,19	1x230 V	PN10	97 92 45 14	3.820,21
MAGNA3 D 80-100 F	360	DN 80	0,19	1x230 V	PN6	97 92 45 04	3.638,30
MAGNA3 D 80-40 F	360	DN 80	0,19	1x230 V	PN10	97 92 45 11	2.948,94
MAGNA3 D 80-40 F	360	DN 80	0,19	1x230 V	PN6	97 92 45 01	2.808,51
MAGNA3 D 80-60 F	360	DN 80	0,19	1x230 V	PN10	97 92 45 12	3.250,53
MAGNA3 D 80-60 F	360	DN 80	0,19	1x230 V	PN6	97 92 45 02	3.095,74
MAGNA3 D 80-80 F	360	DN 80	0,19	1x230 V	PN10	97 92 45 13	3.501,86
MAGNA3 D 80-80 F	360	DN 80	0,19	1x230 V	PN6	97 92 45 03	3.335,11
MAGNA3 D 80-120 F	360	DN 80	0,19	1x230 V	PN10	97 92 45 15	4.289,36
MAGNA3 D 100-40 F	450	DN 100	0,19	1x230 V	PN10	97 92 45 16	3.468,35
MAGNA3 D 100-40 F	450	DN 100	0,19	1x230 V	PN6	97 92 45 06	3.303,19
MAGNA3 D 100-60 F	450	DN 100	0,19	1x230 V	PN10	97 92 45 17	3.786,70
MAGNA3 D 100-60 F	450	DN 100	0,19	1x230 V	PN6	97 92 45 07	3.606,38
MAGNA3 D 100-80 F	450	DN 100	0,19	1x230 V	PN10	97 92 45 18	4.105,05
MAGNA3 D 100-80 F	450	DN 100	0,19	1x230 V	PN6	97 92 45 08	3.909,57
MAGNA3 D 100-100 F	450	DN 100	0,19	1x230 V	PN10	97 92 45 19	4.473,67
MAGNA3 D 100-100 F	450	DN 100	0,19	1x230 V	PN6	97 92 45 09	4.260,64
MAGNA3 D 100-120 F	450	DN 100	0,19	1x230 V	PN10	97 92 45 20	5.076,86
MAGNA3 D 100-120 F	450	DN 100	0,19	1x230 V	PN6	97 92 45 10	4.835,11

¹ Energy Efficiency Index, Best in Class ≤ 0.20 **Grundfos MAGNA3 D twin head pumps PN 16 DN 32-100** (Product Group: CB)

Type	Installation Length [mm]	Standard Connection Size	EEI ¹⁾	Voltage [V]	Flange Model	Product-No.	EUR
MAGNA3 D 32-120 F	220	DN 32	0,20	1x230 V	PN16	97 92 44 60	1.997,71
MAGNA3 D 40-80 F	220	DN 40	0,21	1x230 V	PN16	97 92 44 70	1.979,04
MAGNA3 D 40-100 F	220	DN 40	0,21	1x230 V	PN16	97 92 44 71	2.184,41
MAGNA3 D 40-120 F	250	DN 40	0,20	1x230 V	PN16	97 92 44 72	2.427,13
MAGNA3 D 40-150 F	250	DN 40	0,20	1x230 V	PN16	97 92 44 73	2.968,56
MAGNA3 D 40-180 F	250	DN 40	0,20	1x230 V	PN16	97 92 44 74	3.416,65
MAGNA3 D 50-40 F	240	DN 50	0,22	1x230 V	PN16	97 92 44 82	2.184,41
MAGNA3 D 50-60 F	240	DN 50	0,21	1x230 V	PN16	97 92 44 83	2.576,49
MAGNA3 D 50-80 F	240	DN 50	0,20	1x230 V	PN16	97 92 44 84	2.837,87
MAGNA3 D 50-100 F	280	DN 50	0,20	1x230 V	PN16	97 92 44 85	3.005,90
MAGNA3 D 50-120 F	280	DN 50	0,20	1x230 V	PN16	97 92 44 86	3.173,94
MAGNA3 D 50-150 F	280	DN 50	0,19	1x230 V	PN16	97 92 44 87	3.659,36
MAGNA3 D 50-180 F	280	DN 50	0,19	1x230 V	PN16	97 92 44 88	4.294,15
MAGNA3 D 65-40 F	340	DN 65	0,20	1x230 V	PN16	97 92 44 95	2.744,52
MAGNA3 D 65-60 F	340	DN 65	0,20	1x230 V	PN16	97 92 44 96	3.136,60
MAGNA3 D 65-80 F	340	DN 65	0,19	1x230 V	PN16	97 92 44 97	3.416,65
MAGNA3 D 65-100 F	340	DN 65	0,19	1x230 V	PN16	97 92 44 98	3.603,35
MAGNA3 D 65-120 F	340	DN 65	0,19	1x230 V	PN16	97 92 44 99	3.864,73
MAGNA3 D 65-150 F	340	DN 65	0,19	1x230 V	PN16	97 92 45 00	4.462,18
MAGNA3 D 80-40 F	360	DN 80	0,19	1x230 V	PN16	97 92 45 21	3.285,96
MAGNA3 D 80-60 F	360	DN 80	0,19	1x230 V	PN16	97 92 45 22	3.622,02
MAGNA3 D 80-80 F	360	DN 80	0,19	1x230 V	PN16	97 92 45 23	3.902,07
MAGNA3 D 80-100 F	360	DN 80	0,19	1x230 V	PN16	97 92 45 24	4.256,81
MAGNA3 D 80-120 F	360	DN 80	0,19	1x230 V	PN16	97 92 45 25	4.779,57
MAGNA3 D 100-40 F	450	DN 100	0,19	1x230 V	PN16	97 92 45 26	3.864,73

Type	Installation Length [mm]	Standard Connection Size	EEI ¹⁾	Voltage [V]	Flange Model	Product-No.	EUR
MAGNA3 D 100-60 F	450	DN 100	0,19	1x230 V	PN16	97 92 45 27	4.219,47
MAGNA3 D 100-80 F	450	DN 100	0,19	1x230 V	PN16	97 92 45 28	4.574,20
MAGNA3 D 100-100 F	450	DN 100	0,19	1x230 V	PN16	97 92 45 29	4.984,95
MAGNA3 D 100-120 F	450	DN 100	0,19	1x230 V	PN16	97 92 45 30	5.657,07

¹⁾ Energy Efficiency Index, Best in Class ≤ 0.20

Grundfos MAGNA3 F N single pumps stainless steel PN 06/10 (Product Group: CB)

Type	Standard Connection Size	EEI ¹⁾	Voltage [V]	Flange Model	Product-No.	EUR
MAGNA3 32-120 F N	DN 32	0,18	1x230 V	PN6/10	97 92 43 46	1.470,30
MAGNA3 40-80 F N	DN 40	0,19	1x230 V	PN6/10	97 92 43 49	1.456,56
MAGNA3 40-100 F N	DN 40	0,19	1x230 V	PN6/10	97 92 43 50	1.607,71
MAGNA3 40-120 F N	DN 40	0,18	1x230 V	PN6/10	97 92 43 51	1.786,35
MAGNA3 40-150 F N	DN 40	0,18	1x230 V	PN6/10	97 92 43 52	2.184,84
MAGNA3 40-180 F N	DN 40	0,18	1x230 V	PN6/10	97 92 43 53	2.514,63
MAGNA3 50-40 F N	DN 50	0,20	1x230 V	PN6/10	97 92 43 54	1.607,71
MAGNA3 50-60 F N	DN 50	0,19	1x230 V	PN6/10	97 92 43 55	1.896,28
MAGNA3 50-80 F N	DN 50	0,18	1x230 V	PN6/10	97 92 43 56	2.088,65
MAGNA3 50-100 F N	DN 50	0,18	1x230 V	PN6/10	97 92 43 57	2.212,32
MAGNA3 50-120 F N	DN 50	0,18	1x230 V	PN6/10	97 92 43 58	2.335,99
MAGNA3 50-150 F N	DN 50	0,17	1x230 V	PN6/10	97 92 43 59	2.693,26
MAGNA3 50-180 F N	DN 50	0,17	1x230 V	PN6/10	97 92 43 60	3.160,46
MAGNA3 65-40 F N	DN 65	0,18	1x230 V	PN6/10	97 92 43 61	2.019,95
MAGNA3 65-60 F N	DN 65	0,18	1x230 V	PN6/10	97 92 43 62	2.308,51
MAGNA3 65-80 F N	DN 65	0,17	1x230 V	PN6/10	97 92 43 63	2.514,63
MAGNA3 65-100 F N	DN 65	0,17	1x230 V	PN6/10	97 92 43 64	2.652,04
MAGNA3 65-120 F N	DN 65	0,17	1x230 V	PN6/10	97 92 43 65	2.844,41
MAGNA3 65-150 F N	DN 65	0,17	1x230 V	PN6/10	97 92 43 66	3.284,13

¹⁾ Energy Efficiency Index, Best in Class ≤ 0.20

Modules for BUS Communication (Product Group: CW)

Type	Model for	Product-No.	EUR
LONbus-Module CIM 100	Expansion module for MAGNA3 pumps and pumps for E 11-22 kW for connection to LonWorks data bus networks. Plugs into MAGNA3 D Double Pump 2 modules (1 per pump head) are required.	96 82 47 97	156,79
Profibus-DP-Module-CIM150	Expansion module for MAGNA3 pumps and pumps for E 11-22 kW for connection to Profibus-DP databus networks. Plugs into MAGNA3 D Double Pump 2 modules (1 per pumphead) are required.	96 82 47 93	156,79
MODbus-RTU-Module CIM 200	Expansion module for MAGNA3 pumps and pumps for E 11-22 kW for connection to MODbus RTU data bus networks. Plugs into MAGNA3 D Double Pump 2 modules (1 per pump head) are required.	96 82 47 96	156,79
BACnet MS/TP Module CIM 300	Expansion module for MAGNA3 pumps and pumps for E 11-22 kW for connection to BACnet MS / TP data bus networks. Plugs into MAGNA3 D Double Pump 2 modules (1 per pump head) are required.	96 89 37 70	156,79

Remote control Grundfos GO (Product Group: CW)

Type	Model for	Product-No.	EUR
MI 201	The MI 201 is a complete solution, consisting of an Apple iPod touch 4G and a Grundfos cover for infrared and radio communication with a Grundfos pump or system. With battery charger and QuickGuide.	98 14 06 38	487,59
MI 202	The MI 202 is an add-on module with infrared and radio communication. It can be used in conjunction with Apple iPod touch 4, iPhone 4G or later.	98 04 63 76	168,44
MI 301	The MI 301 is a module with built-in infrared and radio communication. It must be used in conjunction with an Android or iOS-based smartphone with Bluetooth connection. The MI 301 module has rechargeable Li-ion battery and must be charged separately.	98 04 64 08	265,96

Grundfos MAGNA single pumps (Product Group: DH)

Type	Installation Length [mm]	Standard Connection Size	EEI ¹⁾	Voltage [V]	Pieces per Pallet	PN6/10 Product-No.	EUR
MAGNA 25-40	180	G 1 1/2	0,22	1x230 V	45	96 81 79 29	439,62
MAGNA 25-60	180	G 1 1/2	0,22	1x230 V	45	96 28 10 22	556,84
MAGNA 25-80	180	G 1 1/2	0,23	1x230 V	45	97 69 12 65	599,09
MAGNA 25-100	180	G 1 1/2	0,21	1x230 V	45	96 28 10 15	592,94
MAGNA 32-40	180	G 2	0,21	1x230 V	45	96 81 79 52	495,47
MAGNA 32-60	180	G 2	0,22	1x230 V	45	96 28 10 23	589,45
MAGNA 32-80	180	G 2	0,22	1x230 V	45	97 69 12 70	633,29

1

Type	Installation Length [mm]	Standard Connection Size	EEI ¹⁾	Voltage [V]	Pieces per Pallet	PN6/10 Product-No.	EUR
MAGNA 32-80 F	180	DN 32	0,22	1x230 V	45	97 69 12 76	675,49
MAGNA 32-100	180	G 2	0,22	1x230 V	45	96 28 10 16	662,72
MAGNA 32-100 F	180	DN 32	0,22	1x230 V	45	96 28 10 18	707,63
MAGNA 40-60 F	220	DN 40	0,22	1x230 V	45	97 69 12 80	651,36
MAGNA 40-80 F	220	DN 40	0,22	1x230 V	45	97 71 16 52	699,61
MAGNA 40-100 F	220	DN 40	0,22	1x230 V	45	96 28 10 19	731,70
MAGNA 50-100 F	240	DN 50	0,22	1x230 V	45	96 28 10 20	887,36

Grundfos MAGNA single pump stainless-steel housing (Product Group: DH)

Type	Installation Length [mm]	Standard Connection Size	EEI ¹⁾	Voltage [V]	Pieces per Pallet	Flange Model	Product-No.	EUR
MAGNA 25-40 N	180	G 1 1/2	0,22	1x230 V	45	PN6/10	96 94 32 01	774,20
MAGNA 25-60 N	180	G 1 1/2	0,22	1x230 V	45	PN6/10	96 94 32 23	850,98
MAGNA 25-80 N	180	G 1 1/2	0,23	1x230 V	45	PN6/10	97 69 12 68	910,72
MAGNA 25-100 N	180	G 1 1/2	0,21	1x230 V	45	PN6/10	96 94 32 24	909,98
MAGNA 32-40 N	180	G 2	0,21	1x230 V	45	PN6/10	96 81 79 54	830,94
MAGNA 32-60 N	180	G 2	0,22	1x230 V	45	PN6/10	96 70 03 23	884,91
MAGNA 32-80 N	180	G 2	0,22	1x230 V	45	PN6/10	97 69 12 72	938,86
MAGNA 32-100 N	180	G 2	0,22	1x230 V	45	PN6/10	96 28 10 17	994,91

¹⁾ Energy Efficiency Index

Modules for BUS communication and control (Product Group: CW)

Type	Model for	Product-No.	EUR
CIU 100 LON Pump Module	External module for MAGNA with GENIbus module, TPE, NBE, NKE, Hydro Multi-E, Hydro MPC with GENIbus module to LONWorks-networks	96 75 37 35	322,82
CIU 150 Profibus-Module	External module for MAGNA with GENIbus module, TPE, NBE, NKE, Hydro Multi-E Hydro MPC with GENIbus module to Profibus-DP-networks	96 75 30 81	322,82
CIU 200 Modbus RTU-Module	External module for MAGNA with GENIbus module, , TPE, NBE, NKE, Hydro Multi-E Hydro MPC with GENIbus module to Modbus RTU-networks	96 75 30 82	322,82
CIU 300 BACnet MS/TP-Module	External module for MAGNA with GENIbus module, TPE, NBE, NKE, Hydro Multi-E, Hydro MPC with GENIbus module to BACnet MS/TP-networks	96 89 37 69	322,82
GENIbus and dual pump Module MB 40/60/80/100	MAGNA 25-40 (N); 25-60 (N); 25-80 (N); 25-100 (N); 32-40(N); 32-60 (N); 32-80 (F); 32-80 N; 32-100 (F); 32-100 N; MAGNA 40-80 F; MAGNA-(D) 40-100 F; MAGNA 50-100 F	96 23 63 35	99,43
Alarm Module MC 40/60/80/100	MAGNA 25-40 (N); 25-60 (N); 25-80 (N); 25-100 (N); 32-40 (N); 32-60 (N); 32-80 (F); 32-80 N; 32-100 (F); 32-100 N; MAGNA 40-80 F; MAGNA-(D) 40-100 F; MAGNA 50-100 F	96 23 63 36	79,33

Hint: MAGNA pumps require for CIU module connection also a GENIbus module.

For another controls, like cascade control (Control MPC), motor speed controls, bus communication modules and accessories see chapter „Controls“

Grundfos SOLAR

Single pumps Rp 1 (Product Group: DH)

Type	Installation Length [mm]	Standard Connection Size	Pieces per Pallet	1 x 230 V Product-No.	EUR
SOLAR 25- 40 180	180	Rp 1	192	59 54 41 83	137,97
SOLAR 25- 45 180	180	Rp 1	192	96 81 77 25	137,97
SOLAR 25- 60 180	180	Rp 1	192	59 54 66 39	169,85
SOLAR 25- 65 180	180	Rp 1	192	96 81 77 07	169,85
SOLAR 25-120 180	180	Rp 1	100	52 58 83 52	349,77

Single pumps with installation length 130 mm Rp ½ und 1 (Product Group: DH)

Type	Installation Length [mm]	Standard Connection Size	Pieces per Pallet	1 x 230 V Product-No.	EUR
SOLAR 15- 45 130	130	Rp ½	192	96 81 77 10	137,97
SOLAR 15- 60 130	130	Rp ½	192	96 70 58 19	169,85
SOLAR 15- 65 130	130	Rp ½	192	96 81 76 49	169,85
SOLAR 15- 80 130	130	Rp ½	192	59 50 85 00	185,75
SOLAR 25- 45 130	130	Rp 1	192	96 81 77 22	137,97
SOLAR 25- 65 130	130	Rp 1	192	96 81 76 52	169,85

Chapter 2

Circulation pumps for hot/drinking water



Comfort PM

Brass housing with thread connection, incl. insulation kit (Product Group: DH)

Type	Installation Length [mm]	Standard Connection Size	Pieces per Pallet	Model for	1 x 230 V Product-No.	EUR
UP 15-14 B PM	80	Rp 1/2	360	-	97 91 67 71	120,73
UP 15-14 BA PM	80	Rp 1/2	360	AutoAdapt	97 91 67 57	203,73
UP 20-14 BX PM	110	G 1 1/4	360	-	97 91 67 72	145,25
UP 20-14 BXA PM	110	G 1 1/4	360	AutoAdapt	97 91 67 49	230,14

Accessories for electrical connection (Product Group: DH)

Type	for	Product-No.	EUR
Kit ALPHA plug, angled with 4 m connection cable	UP.xx-14 B(X)A PM DE	96 88 46 69	19,82
ALPHA plug kit, complete	ALPHA2 ALPHA2 L, MAGNA with connector and COMFORT PM (AutoAdapt) is included with each pump.	59 55 62	16,21

UP/UPS series 100, R³/₄ - DN 40 stainless-steel pump housing (Product Group: DH)

Type	Installation Length [mm]	Standard Connection Size	Pieces per Pallet	1 x 230 V Product-No.	EUR	Standard Connection Size	Pieces per Pallet	3 x 400 V Product-No.	EUR
UP 20-07 N	150	Rp 3/4	198	59 64 05 06	166,62	-	-	-	-
UP 20-15 N	150	Rp 3/4	198	59 64 15 00	188,81	Rp 3/4	198	59 64 18 00	272,58
UP 20-30 N	150	Rp 3/4	198	59 64 35 00	237,57	Rp 3/4	198	59 64 38 00	272,58
UPS 25- 40 N	180	Rp 1	198	96 91 30 60	239,29	-	-	-	-
UPS 25- 60 N	180	Rp 1	198	96 91 30 85	323,12	Rp 1	198	96 91 30 58	317,61
UPS 25- 80 N	180	Rp 1	100	95 90 64 39	462,42	-	-	-	-
UPS 32- 80 N	180	Rp 1 1/4	80	95 90 64 48	557,40	-	-	-	-
UPS 32-100 N	180	Rp 1 1/4	45	95 90 64 89	721,80	-	-	-	-

Series 200, DN 32 – 100 Bronze housing (Product Group: CB)

with integrated thermal switch, retrofit relay module

Type	Connection	Pieces per Pallet	Flange Model	1 x 230 V Product-No.	EUR	Pieces per Pallet	Flange Model	3 x 400 V Product-No.	EUR
UPS 32- 30 FB	DN 32	30	PN 06/10	96 40 17 39	848,76	30	PN 06/10	96 40 17 41	808,78
UPS 32- 60 FB	DN 32	24	PN 06/10	96 40 17 97	910,09	24	PN 06/10	96 40 18 08	867,30
UPS 32-120 FB	DN 32	24	PN 06/10	96 40 18 44	1.144,02	24	PN 06/10	96 40 18 46	1.089,80
UPS 40- 30 FB	DN 40	30	PN 06/10	96 40 18 76	1.021,33	30	PN 06/10	96 40 18 78	972,84
UPS 40- 60/4 FB	DN 40	16	PN 06/10	96 40 19 00	1.255,32	16	PN 06/10	96 40 19 02	1.195,35
UPS 40- 60/2 FB	DN 40	24	PN 06/10	96 40 19 21	1.037,02	24	PN 06/10	96 40 19 23	987,11
UPS 40-120 FB	DN 40	24	PN 06/10	96 40 19 49	1.305,23	24	PN 06/10	96 40 19 51	1.242,45
UPS 40-180 FB	DN 40	16	PN 06/10	96 40 19 83	1.543,44	16	PN 06/10	96 40 19 85	1.469,26
UPS 50- 30 FB	DN 50	16	PN 06/10	96 40 20 10	1.273,83	16	PN 06/10	96 40 20 12	1.213,92
UPS 50- 60/4 FB	DN 50	16	PN 06/10	96 40 20 38	1.570,57	16	PN 06/10	96 40 20 40	1.496,40
UPS 50- 60/2 FB	DN 50	16	PN 06/10	96 40 20 64	1.305,23	16	PN 06/10	96 40 20 72	1.242,45
UPS 50-120 FB	DN 50	16	PN 06/10	96 40 21 08	1.604,80	16	PN 06/10	96 40 21 10	1.527,78
UPS 50-180 FB	DN 50	16	PN 06/10	96 40 21 40	1.808,79	16	PN 06/10	96 40 21 42	1.721,74
UPS 65- 30 FB	DN 65	10	PN 06/10	96 40 22 06	1.604,80	10	PN 06/10	96 40 22 08	1.527,78
UPS 65- 60/4 FB	DN 65	10	PN 06/10	96 40 22 33	1.918,58	10	PN 06/10	96 40 22 35	1.827,30
UPS 65- 60/2 FB	DN 65	10	PN 06/10	96 40 22 62	1.604,80	10	PN 06/10	96 40 22 64	1.527,78
UPS 65-120 FB	DN 65	16	PN 06/10	96 40 22 85	1.918,58	10	PN 06/10	96 40 22 87	1.827,30
UPS 65-180 FB	DN 65	-	-	-	-	10	PN 06/10	96 40 23 20	2.095,48
UPS 80- 30 FB	DN 80	-	-	-	-	10	PN 06	96 40 49 07	2.021,33
UPS 80- 30 FB	DN 80	-	-	-	-	10	PN 10	96 40 23 56	2.051,29
UPS 80- 60 FB	DN 80	-	-	-	-	10	PN 06	96 40 49 16	2.320,85
UPS 80- 60 FB	DN 80	-	-	-	-	10	PN 10	96 40 24 01	2.350,80
UPS 80-120 FB	DN 80	-	-	-	-	10	PN 06	96 40 49 24	2.395,02
UPS 80-120 FB	DN 80	-	-	-	-	10	PN 10	96 40 24 45	2.425,02
UPS 100- 30 FB	DN 100	-	-	-	-	8	PN 06	96 40 49 33	2.617,61
UPS 100- 30 FB	DN 100	-	-	-	-	8	PN 10	96 40 25 27	2.647,54

Dry pumps with bronze housing: see TP pumps

Modules for BUS communication and control (Product Group: CW)

Type	Model for	Product-No.	EUR
Alarm Module MC 40/60/80/100	MAGNA 25-40 (N); 25-60 (N); 25-80 (N); 25-100 (N); 32-40 (N); 32-60 (N); 32-80 (F); 32-80 N; 32-100 (F); 32-100 N; MAGNA 40-80 F; MAGNA-(D) 40-100 F; MAGNA 50-100 F	96 23 63 36	79,33
GENibus and dual pump Module MB 40/60/80/100	MAGNA 25-40 (N); 25-60 (N); 25-80 (N); 25-100 (N); 32-40(N); 32-60 (N); 32-80 (F); 32-80 N; 32-100 (F); 32-100 N; MAGNA 40-80 F; MAGNA-(D) 40-100 F; MAGNA 50-100 F	96 23 63 35	99,43
CIU 100 LON Pump Module	External module for MAGNA with GENibus module, TPE, NBE, NKE, Hydro Multi-E, Hydro MPC with GENibus module to LONWorks-networks	96 75 37 35	322,82
CIU 150 Profibus DP-Module	External module for MAGNA with GENibus module, TPE, NBE, NKE, Hydro Multi-E Hydro MPC with GENibus module to Profibus-DP-networks	96 75 30 81	322,82
CIU 200 Modbus RTU-Module	External module for MAGNA with GENibus module, , TPE, NBE, NKE, Hydro Multi-E Hydro MPC with GENibus module to Modbus RTU-networks	96 75 30 82	322,82
CIU 300 BACnet MS/TP-Module	External module for MAGNA with GENibus module, TPE, NBE, NKE, Hydro Multi-E, Hydro MPC with GENibus module to BACnet MS/TP-networks	96 89 37 69	322,82

Hint: MAGNA pumps require for CIU module connection also a GENibus module.

Alarm module for terminal box (Product Group: CW)

Type	Model for	Product-No.	EUR
Alarm Module MA 100	for UPS 25-55 N, UPS 25-80 N, UPS 32-80 N, UPS 32-100 N, UPS 40-50 N	95 90 62 54	89,54

Chapter 3

In-line pumps fix-speed and controlled



DN 25 to DN 65 – single phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with cast iron housing and cathoretic coating

Housing made of cast iron EN-GJL 250, with single mechanical seal, motor form V18, IP55

TP with motor 1 x 220 – 230 V D / 240 V Y in 50 Hz, motor protection with integrated thermal switch

TPE series 1000 with IEC-motor 1 x 200 – 240 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **without sensor**

TPE series 2000 with IEC-motor 1 x 200 – 240 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **with sensor**

3

Pump Data				TP Standard			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
25-50/2	100	0,12	10	96 40 84 59	347,41	96 46 53 82	381,81
25-90/2	100	0,25	10	96 40 84 60	453,87	96 46 53 83	488,27
32-30/4	200	0,12	6/10	96 40 17 42	462,99	96 43 88 15	483,62
32-40/4	200	0,25	6/10	96 46 38 64	602,64	96 46 38 68	623,28
32-50/2	100	0,12	6/10	96 40 84 61	414,14	96 46 53 84	448,54
32-60/2	200	0,25	6/10	96 40 18 14	542,62	-	-
32-60/4	200	0,25	6/10	96 46 38 76	614,85	96 46 38 80	635,49
32-80/4	300	0,25	6/10	96 38 41 98	902,24	96 38 42 00	947,85
32-90/2	100	0,25	6/10	96 40 84 62	509,77	96 46 53 85	544,16
32-100/4	300	0,37	6/10	96 38 42 04	917,89	96 38 42 06	963,50
32-120/2	200	0,37	6/10	96 40 18 48	655,78	96 43 88 17	676,42
32-120/4	300	0,55	6/10	96 38 42 10	945,58	-	-
32-150/2	200	0,37	6/10	96 46 36 43	655,78	96 46 36 65	676,42
32-180/2	200	0,55	6/10	96 46 37 01	730,42	96 46 37 07	751,06
32-200/2	300	1,10	6/10	96 38 42 16	943,51	-	-
32-230/2	200	0,75	6/10	96 46 37 19	813,15	96 46 37 26	833,79
32-250/2	300	1,50	6/10	96 38 42 22	1.040,17	96 38 42 24	1.085,78
40-100/4	300	0,55	6/10	96 38 42 28	1.020,74	-	-
40-120/2	200	0,37	6/10	96 40 19 53	734,04	96 43 88 22	754,67
40-130/4	300	0,75	6/10	96 38 42 34	1.050,83	96 38 42 36	1.096,44
40-160/4	300	1,10	6/10	96 38 42 40	1.201,32	-	-
40-180/2	200	0,55	6/10	96 40 19 86	851,85	96 43 88 23	872,48
40-190/2	200	0,75	16	96 46 37 68	885,21	96 46 37 74	905,85
40-230/2	200	1,10	16	96 46 37 86	909,98	96 46 37 94	930,62
40-270/2	200	1,50	16	96 46 38 15	983,93	-	-
40-30/4	200	0,12	6/10	96 40 18 79	544,34	-	-
40-50/2	100	0,12	6/10	96 40 84 75	513,72	96 46 53 86	548,12
40-60/2	200	0,25	6/10	96 40 19 24	603,84	96 43 88 21	624,48
40-60/4	200	0,25	6/10	96 40 19 03	710,47	96 43 88 19	731,11
40-90/2	100	0,25	6/10	96 40 84 76	626,37	96 46 53 87	660,77
40-90/4	200	0,25	16	96 46 39 02	711,33	96 46 39 06	731,97
50-110/4	300	0,75	16	96 38 42 52	1.205,79	-	-
50-120/2	200	0,75	6/10	96 40 21 12	888,13	96 43 88 29	908,77
50-130/4	300	1,10	6/10	96 38 42 58	1.225,05	-	-
50-160/2	300	1,10	6/10	96 38 42 70	1.057,71	96 38 42 72	1.103,32
50-160/4	300	1,50	6/10	96 38 42 64	1.244,32	-	-
50-180/2	200	0,75	6/10	96 40 21 43	989,43	96 43 88 30	1.010,07
50-190/2	300	1,50	6/10	96 38 42 76	1.136,83	96 38 42 78	1.182,44
50-30/4	200	0,25	6/10	96 40 20 13	654,08	-	-
50-60/2	200	0,37	6/10	96 40 20 79	734,55	-	-
50-60/4	200	0,37	6/10	96 40 20 41	866,29	96 43 88 26	886,93
50-90/4	300	0,55	6/10	96 38 42 46	1.089,36	-	-
65-120/2	200	1,10	6/10	96 40 22 89	1.092,80	96 43 88 36	1.113,44
65-130/4	300	1,50	6/10	96 38 42 94	1.330,31	96 38 42 96	1.375,92
65-180/2	200	1,50	6/10	96 40 23 21	1.180,34	96 43 88 37	1.200,98
65-30/4	200	0,25	6/10	96 40 22 09	879,54	-	-
65-60/2	200	0,55	6/10	96 40 22 66	924,08	-	-
65-60/4	200	0,55	6/10	96 40 22 36	1.035,53	96 43 88 33	1.056,16
65-90/4	300	0,75	16	96 38 42 82	1.222,65	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol from +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPE controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
25-50/2	100	0,12	10	96 53 38 76	801,45	96 53 38 81	835,85
25-90/2	100	0,25	10	96 45 89 03	928,55	96 45 89 08	962,95
32-30/4	200	0,12	6/10	96 53 51 13	917,03	-	-
32-40/4	200	0,25	6/10	96 53 51 26	1.077,32	-	-
32-50/2	100	0,12	6/10	96 53 50 37	868,18	-	-
32-60/2	200	0,25	6/10	96 53 50 65	1.017,30	96 53 50 68	1.037,93
32-60/4	200	0,25	6/10	96 53 51 29	1.089,53	-	-
32-80/4	300	0,25	6/10	96 11 28 06	1.376,92	96 11 28 09	1.422,53
32-90/2	100	0,25	6/10	96 45 89 04	984,45	96 45 89 09	1.018,84
32-100/4	300	0,37	6/10	96 11 28 07	1.418,37	96 11 28 10	1.463,98
32-120/2	200	0,37	6/10	96 45 89 05	1.156,26	96 45 89 10	1.176,90
32-120/4	300	0,55	6/10	96 11 28 08	1.471,85	96 11 28 11	1.517,47
32-150/2	200	0,37	6/10	96 53 50 91	1.156,26	-	-
32-180/2	200	0,55	6/10	96 46 39 50	1.256,70	-	-
32-200/2	300	1,10	6/10	96 11 27 94	1.507,63	96 11 27 95	1.553,24
32-230/2	200	0,75	6/10	96 46 39 53	1.360,06	-	-
40-100/4	300	0,55	6/10	96 11 28 42	1.547,01	96 11 28 44	1.592,62
40-120/2	200	0,37	6/10	96 45 50 36	1.234,51	96 45 50 41	1.255,15
40-130/4	300	0,75	6/10	96 11 28 43	1.597,75	96 11 28 45	1.643,36
40-180/2	200	0,55	6/10	96 55 18 34	1.378,12	96 55 18 36	1.398,76
40-190/2	200	0,75	16	96 46 39 56	1.432,13	96 46 39 58	1.452,76
40-230/2	200	1,10	16	96 46 39 59	1.474,09	-	-
40-30/4	200	0,12	6/10	96 53 51 54	998,38	-	-
40-50/2	100	0,12	6/10	96 56 00 65	1.152,63	-	-
40-60/2	200	0,25	6/10	96 45 50 35	1.078,52	96 45 50 40	1.099,16
40-60/4	200	0,25	6/10	96 53 51 57	1.185,15	96 53 51 59	1.205,79
40-90/2	100	0,25	6/10	96 53 51 33	1.101,05	-	-
40-90/4	200	0,25	16	96 53 51 61	1.186,01	-	-
50-110/4	300	0,75	16	96 11 28 79	1.752,71	96 11 28 81	1.798,32
50-120/2	200	0,75	6/10	96 45 89 06	1.435,05	96 45 89 11	1.455,69
50-160/2	300	1,10	6/10	96 11 28 66	1.621,83	96 11 28 67	1.667,44
50-180/2	200	0,75	6/10	96 53 51 68	1.536,35	-	-
50-30/4	200	0,25	6/10	96 53 51 82	1.194,44	-	-
50-60/2	200	0,37	6/10	96 53 51 64	1.235,03	96 53 51 66	1.255,67
50-60/4	200	0,37	6/10	96 45 50 32	1.366,77	96 45 50 37	1.387,41
50-90/4	300	0,55	6/10	96 11 28 78	1.615,63	96 11 28 80	1.661,25
65-120/2	200	1,10	6/10	96 45 89 07	1.656,91	-	-
65-30/4	200	0,25	6/10	96 53 51 89	1.354,22	-	-
65-60/2	200	0,55	6/10	96 53 51 85	1.407,36	-	-
65-60/4	200	0,55	6/10	96 45 50 33	1.561,80	96 45 50 38	1.582,44
65-90/4	300	0,75	16	96 11 29 02	1.769,56	96 11 29 03	1.815,17

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPE regulated with sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
32-30/4	200	0,12	6/10	96 27 57 03	1.391,71	-	-
32-40/4	200	0,25	6/10	96 27 57 09	1.552,00	-	-
32-60/2	200	0,25	6/10	96 27 53 43	1.491,98	96 27 53 45	1.512,62
32-60/4	200	0,25	6/10	96 27 57 15	1.564,21	-	-
32-80/4	300	0,25	6/10	96 27 57 21	1.851,60	-	-
32-100/4	300	0,37	6/10	96 27 57 27	1.893,05	96 27 57 29	1.938,66
32-120/2	200	0,37	6/10	96 27 53 49	1.630,94	96 27 53 51	1.651,58
32-120/4	300	0,55	6/10	96 27 57 33	1.946,54	-	-
32-150/2	200	0,37	6/10	96 27 53 55	1.630,94	96 27 53 57	1.651,58
32-180/2	200	0,55	6/10	96 27 53 61	1.731,38	96 27 53 63	1.752,02
32-200/2	300	1,10	6/10	96 27 53 79	1.982,31	96 27 53 81	2.027,92
32-230/2	200	0,75	6/10	96 27 53 67	1.834,74	96 27 53 69	1.855,38
40-100/4	300	0,55	6/10	96 27 57 57	2.021,69	96 27 57 59	2.067,30
40-120/2	200	0,37	6/10	96 27 54 15	1.709,20	96 27 54 17	1.729,83
40-130/4	300	0,75	6/10	96 27 57 63	2.072,43	-	-
40-180/2	200	0,55	6/10	96 27 54 21	1.852,80	96 27 54 23	1.873,44
40-190/2	200	0,75	16	96 27 54 27	1.906,81	96 27 54 29	1.927,45
40-230/2	200	1,10	16	96 27 54 39	1.948,77	96 27 54 41	1.969,41
40-30/4	200	0,12	6/10	96 27 57 39	1.473,06	-	-
40-60/2	200	0,25	6/10	96 27 54 09	1.553,20	96 27 54 11	1.573,84
40-60/4	200	0,25	6/10	96 27 57 45	1.659,84	-	-
40-90/4	200	0,25	16	96 27 57 51	1.660,70	-	-
50-110/4	300	0,75	16	96 27 57 99	2.227,39	-	-
50-120/2	200	0,75	6/10	96 27 54 75	1.909,73	96 27 54 77	1.930,37
50-160/2	300	1,10	6/10	96 27 54 99	2.096,51	96 27 55 01	2.142,12
50-180/2	200	0,75	6/10	96 27 54 87	2.011,03	96 27 54 89	2.031,67
50-30/4	200	0,25	6/10	96 27 57 81	1.669,12	-	-
50-60/2	200	0,37	6/10	96 27 54 69	1.709,71	96 27 54 71	1.730,35
50-60/4	200	0,37	6/10	96 27 57 87	1.841,45	-	-
50-90/4	300	0,55	6/10	96 27 57 93	2.090,32	-	-
65-120/2	200	1,10	6/10	96 27 55 47	2.131,59	96 27 55 49	2.152,23
65-30/4	200	0,25	6/10	96 27 58 35	1.828,90	-	-
65-60/2	200	0,55	6/10	96 27 55 35	1.882,04	-	-
65-60/4	200	0,55	6/10	96 27 58 41	2.036,48	-	-
65-90/4	300	0,75	16	96 27 58 47	2.244,24	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 80 to DN 100 – single phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with cast iron housing and cathoretic coating

Housing made of cast iron EN-GJL 250, with single mechanical seal, motor form V18, IP55

TP with motor 1 x 220 – 230 V D / 240 V Y in 50 Hz, motor protection with integrated thermal switch

TPE series 1000 with IEC-motor 1 x 200 – 240 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **without sensor**

TPE series 2000 with IEC-motor 1 x 200 – 240 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **with sensor**

Pump Data				TP Standard			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
80-30/4	200	0,37	10	96 40 23 58	1.152,65	-	-
80-30/4	200	0,37	6	96 40 23 57	1.152,65	-	-
80-60/4	200	0,75	10	96 40 24 03	1.311,22	96 43 88 43	1.331,86
80-60/4	200	0,75	6	96 40 24 02	1.311,22	-	-
80-70/4	300	1,10	16	96 38 43 00	1.287,31	-	-

Pump Data				TP Standard			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
80-90/4	300	1,50	16	96 38 43 06	1.351,81	-	-
80-120/2	200	1,50	10	96 40 24 48	1.354,73	-	-
80-120/2	200	1,50	6	96 40 24 47	1.354,73	-	-
100-30/4	200	0,55	10	96 40 25 29	1.455,86	-	-
100-30/4	200	0,55	6	96 40 25 28	1.455,86	-	-
100-60/4	200	1,10	10	96 40 26 20	1.541,68	96 43 88 53	1.562,32
100-60/4	200	1,10	6	96 40 26 19	1.541,68	-	-
100-70/4	300	1,50	16	96 38 43 12	1.707,65	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol from +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPE controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
80-30/4	200	0,37	10	96 53 52 02	1.653,13	-	-
80-30/4	200	0,37	6	96 53 52 05	1.653,13	-	-
80-60/4	200	0,75	10	96 45 50 34	1.858,13	96 45 50 39	1.878,77
80-60/4	200	0,75	6	96 45 50 47	1.858,13	-	-
100-30/4	200	0,55	10	96 53 52 08	1.982,14	-	-
100-30/4	200	0,55	6	96 53 52 33	1.982,14	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPE regulated with sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
80-30/4	200	0,37	10	96 27 58 89	2.127,81	-	-
80-30/4	200	0,37	6	96 27 58 83	2.127,81	-	-
80-60/4	200	0,75	10	96 27 59 01	2.332,82	-	-
80-60/4	200	0,75	6	96 27 58 95	2.332,82	96 27 58 97	2.353,45
100-30/4	200	0,55	10	96 27 59 79	2.456,82	-	-
100-30/4	200	0,55	6	96 27 59 73	2.456,82	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 25 to DN 40 – three phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with cast iron housing and cathoretic coating

Housing made of cast iron EN-GJL 250, with single mechanical seal, mit high efficiency IEC-motor, form V18, IP55

TP to 1,5 kW 3 x 220-240V D/380-415V Y in 50Hz, from 2,2 kW 3 x 380-415V D, or 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

TPE series 1000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, without sensor

TPE series 2000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, with sensor

Pump Data					TP Standard			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR	
25-50/2	100	0,12	10	96 40 84 63	302,70	96 46 53 89	337,09	
25-90/2	100	0,25	10	96 40 84 64	357,56	96 46 53 90	391,96	
32-30/4	200	0,12	6/10	96 40 17 46	418,27	96 43 88 63	438,91	
32-40/4	200	0,25	6/10	96 49 19 74	506,33	96 49 19 76	526,96	
32-50/2	100	0,12	10	96 40 84 65	369,43	96 46 53 92	403,82	
32-60/2	200	0,25	6/10	96 40 18 23	446,30	96 43 88 64	466,94	
32-60/4	200	0,25	6/10	96 49 20 20	518,54	96 49 20 22	539,18	
32-80/4	300	0,25	16	96 08 67 33	805,93	96 08 67 36	851,54	
32-90/2	100	0,25	10	96 40 84 66	413,45	96 46 53 93	447,85	
32-100/4	300	0,37	16	96 08 67 34	821,58	96 08 67 37	867,19	
32-120/2	200	0,37	6/10	96 40 18 52	559,47	96 43 88 65	580,11	
32-120/4	300	0,55	16	96 08 67 35	849,27	96 08 67 38	894,88	
32-150/2	200	0,37	6/10	96 46 36 46	559,47	96 46 36 66	580,11	
32-180/2	200	0,55	6/10	96 46 37 02	634,11	96 46 37 08	654,75	
32-200/2	300	1,10	16	96 08 66 61	838,60	96 08 66 67	884,21	
32-230/2	200	0,75	6/10	96 46 37 21	708,24	96 46 37 27	728,88	
32-250/2	300	1,50	16	96 08 66 62	935,26	96 08 66 68	980,87	
32-320/2	300	2,20	16	96 08 67 69	1.010,42	96 08 67 73	1.056,03	
32-380/2	300	3,00	16	96 08 67 70	1.096,41	96 08 67 74	1.142,02	
32-460/2	300	4,00	16	96 08 67 71	1.128,74	96 08 67 75	1.174,35	
32-580/2	300	5,50	16	96 08 67 72	1.397,21	96 08 67 76	1.442,82	
40-30/4	200	0,12	6/10	96 40 18 83	499,62	96 43 88 66	520,26	
40-50/2	100	0,12	6/10	96 40 84 79	469,01	96 46 53 94	503,40	
40-60/2	200	0,25	6/10	96 40 19 28	507,53	96 43 88 68	528,17	
40-60/4	200	0,25	6/10	96 40 19 07	614,16	96 43 88 67	634,80	
40-90/2	100	0,25	6/10	96 40 84 80	530,06	96 46 53 96	564,46	
40-90/4	200	0,25	16	96 49 20 25	615,02	96 49 20 29	635,66	
40-100/4	300	0,55	16	96 08 68 77	924,42	96 08 68 80	970,03	
40-120/2	200	0,37	6/10	96 40 19 57	637,72	96 43 88 69	658,36	
40-130/4	300	0,75	16	96 08 68 78	945,92	96 08 68 81	991,53	
40-160/4	300	1,10	16	96 08 68 79	1.096,41	96 08 68 82	1.142,02	
40-180/2	200	0,55	6/10	96 40 19 90	755,53	96 43 88 70	776,17	
40-190/2	200	0,75	16	96 46 37 69	780,30	96 46 37 75	800,94	
40-230/2	200	1,10	16	96 46 37 88	805,07	96 46 37 96	825,70	
40-240/2	300	2,20	16	96 08 69 13	1.074,91	96 08 69 18	1.120,52	
40-270/2	200	1,50	16	96 46 38 16	879,02	96 46 38 22	899,66	
40-300/2	300	3,00	16	96 08 69 14	1.139,41	96 08 69 19	1.185,02	
40-360/2	300	4,00	16	96 08 69 15	1.289,89	96 08 69 20	1.335,50	
40-470/2	300	5,50	16	96 08 69 16	1.676,69	96 08 69 21	1.722,30	
40-580/2	300	7,50	16	96 08 69 17	1.784,18	96 08 69 22	1.829,79	

¹⁾ Standard hard-soft shaft seal for water without glycol from +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 25 to DN 40 – three phase (Product Group: CB)

Pump Data				TPE controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
32-120/4	300	0,55	16	96 37 52 47	1.716,07	-	-
32-200/2	300	1,10	16	96 27 61 11	1.695,09	-	-
32-230/2	200	0,75	6/10	96 27 61 17	1.583,65	96 27 61 19	1.604,28
32-250/2	300	1,50	16	96 09 62 81	2.118,52	96 09 62 86	2.164,13
32-320/2	300	2,20	16	96 09 62 82	2.314,07	96 09 62 87	2.359,68
32-380/2	300	3,00	16	96 09 62 83	2.566,89	96 09 62 88	2.612,50
32-460/2	300	4,00	16	96 09 62 84	2.841,72	96 09 62 89	2.887,33
32-580/2	300	5,50	16	96 09 62 85	3.347,53	96 09 62 90	3.393,14
40-100/4	300	0,55	16	96 37 52 59	1.791,23	-	-
40-130/4	300	0,75	16	96 27 61 23	1.821,33	-	-
40-160/4	300	1,10	16	96 09 64 01	2.188,52	96 09 64 02	2.234,13
40-180/2	200	0,55	6/10	49 25 10 05	1.714,05	-	-
40-190/2	200	0,75	16	96 27 61 29	1.655,71	96 27 61 31	1.676,35
40-230/2	200	1,10	16	96 27 61 35	1.661,55	-	-
40-240/2	300	2,20	16	96 09 63 41	2.378,56	96 09 63 46	2.424,17
40-270/2	200	1,50	16	96 46 39 62	2.062,28	-	-
40-300/2	300	3,00	16	96 09 63 42	2.609,88	96 09 63 47	2.655,50
40-360/2	300	4,00	16	96 09 63 43	3.002,87	96 09 63 48	3.048,48
40-470/2	300	5,50	16	96 09 63 44	3.627,01	96 09 63 49	3.672,62
40-580/2	300	7,50	16	96 09 63 45	3.985,60	96 09 63 50	4.031,21

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 25 to DN 40 – three phase (Product Group: CB)

Pump Data				TPE regulated with sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
32-120/4	300	0,55	16	96 37 52 53	2.190,76	-	-
32-200/2	300	1,10	16	96 27 53 85	2.209,33	96 27 53 87	2.254,94
32-230/2	200	0,75	6/10	96 27 53 73	2.058,33	96 27 53 75	2.078,96
32-250/2	300	1,50	16	96 27 53 91	2.632,76	96 27 53 93	2.678,37
32-320/2	300	2,20	16	96 58 10 31	2.828,31	96 58 10 30	2.873,92
32-380/2	300	3,00	16	96 39 70 09	3.041,57	96 39 70 11	3.087,18
32-460/2	300	4,00	16	96 39 70 12	3.316,40	-	-
32-580/2	300	5,50	16	96 39 70 15	3.822,21	96 39 70 17	3.867,82
40-100/4	300	0,55	16	96 37 52 65	2.265,91	-	-
40-130/4	300	0,75	16	96 27 57 69	2.296,01	-	-
40-160/4	300	1,10	16	96 27 57 75	2.663,20	96 27 57 77	2.708,81
40-190/2	200	0,75	16	96 27 54 33	2.130,39	96 27 54 35	2.151,03
40-230/2	200	1,10	16	96 27 54 45	2.136,24	96 27 54 47	2.156,87
40-240/2	300	2,20	16	96 27 54 57	2.892,80	96 27 54 59	2.938,41
40-270/2	200	1,50	16	96 27 54 51	2.536,96	-	-
40-300/2	300	3,00	16	96 27 54 63	3.084,57	-	-
40-360/2	300	4,00	16	96 39 70 18	3.477,55	96 39 70 20	3.523,16
40-470/2	300	5,50	16	96 39 70 21	4.101,69	-	-
40-580/2	300	7,50	16	96 39 70 24	4.460,28	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 50 to DN 65 – three phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with cast iron housing and cathophoretic coating

Housing made of cast iron EN-GJL 250, with single mechanical seal, with **high efficiency IEC-motor**, form V18, IP55

TP to 1,5 kW 3 x 220-240V D/380-415V Y in 50Hz, from 2,2 kW 3 x 380-415V D, or 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

TPE series 1000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **without sensor**

TPE series 2000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **with sensor**

3

Pump Data				TP Standard			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
50-30/4	200	0,25	6/10	96 40 20 17	623,45	96 43 88 71	644,09
50-60/2	200	0,37	6/10	96 40 20 83	638,24	96 43 88 73	658,88
50-60/4	200	0,37	6/10	96 40 20 45	769,98	96 43 88 72	790,62
50-90/4	300	0,55	16	96 08 71 05	993,05	96 08 71 11	1.038,66
50-110/4	300	0,75	16	96 08 71 06	1.100,88	96 08 71 12	1.146,49
50-120/2	200	0,75	6/10	96 40 21 16	783,22	96 43 88 74	803,86
50-130/4	300	1,10	16	96 08 71 07	1.120,14	96 08 71 13	1.165,75
50-160/2	300	1,10	16	96 08 69 73	952,80	96 08 69 84	998,41
50-160/4	300	1,50	16	96 08 71 08	1.139,41	96 08 71 14	1.185,02
50-180/2	200	0,75	6/10	96 40 21 48	884,52	96 43 88 75	905,16
50-190/2	300	1,50	16	96 08 69 74	1.031,91	96 08 69 85	1.077,53
50-190/4	300	2,20	16	96 08 72 85	1.182,40	96 08 72 87	1.228,01
50-230/4	300	3,00	16	96 08 72 86	1.291,96	96 08 72 88	1.337,57
50-240/2	300	2,20	16	96 08 71 77	1.079,04	96 08 71 86	1.124,65
50-290/2	300	3,00	16	96 08 71 78	1.150,07	96 08 71 87	1.195,68
50-360/2	300	4,00	16	96 08 71 79	1.322,05	96 08 71 88	1.367,67
50-430/2	300	5,50	16	96 08 71 80	1.749,78	96 08 71 89	1.795,39
50-440/2	300	7,50	16	96 08 71 81	1.827,35	96 08 71 90	1.872,96
50-570/2	300	11,00	16	96 08 71 82	2.472,12	96 08 71 91	2.517,73
50-710/2	300	15,00	16	96 08 71 83	2.622,61	96 08 71 92	2.668,22
50-830/2	300	18,50	16	96 08 71 84	3.289,06	96 08 71 93	3.334,67
50-900/2	300	22,00	16	96 08 71 85	3.783,52	96 08 71 94	3.829,13
65-30/4	200	0,25	6/10	96 40 22 13	783,22	96 43 88 76	803,86
65-60/2	200	0,55	6/10	96 40 22 70	784,77	96 43 88 78	805,41
65-60/4	200	0,55	6/10	96 40 22 40	939,21	96 43 88 77	959,85
65-90/4	300	0,75	16	96 08 74 29	1.117,74	96 08 74 35	1.163,35
65-110/4	300	1,10	16	96 08 74 30	1.160,73	96 08 74 36	1.206,34
65-120/2	200	1,10	6/10	96 40 22 93	987,89	96 43 88 79	1.008,52
65-130/4	300	1,50	16	96 08 74 31	1.225,40	96 08 74 37	1.271,01
65-150/4	300	2,20	16	96 08 76 21	1.328,76	96 08 76 24	1.374,37
65-170/4	300	3,00	16	96 08 76 22	1.386,72	96 08 76 25	1.432,33
65-180/2	200	1,50	6/10	96 40 23 25	1.075,43	96 43 88 80	1.096,07
65-190/2	300	2,20	16	96 08 75 01	1.083,51	96 08 75 11	1.129,12
65-230/2	300	3,00	16	96 08 75 02	1.160,73	96 08 75 12	1.206,34
65-240/4	300	4,00	16	96 08 76 23	1.592,76	96 08 76 26	1.638,37
65-260/2	300	4,00	16	96 08 75 03	1.328,76	96 08 75 13	1.374,37
65-340/2	300	5,50	16	96 08 75 04	1.784,18	96 08 75 14	1.829,79
65-410/2	300	7,50	16	96 08 75 05	1.870,35	96 08 75 15	1.915,96
65-460/2	300	11,00	16	96 08 75 06	2.515,29	96 08 75 16	2.560,90
65-550/2	300	15,00	16	96 08 75 07	2.966,58	96 08 75 17	3.012,19
65-660/2	300	18,50	16	96 08 75 08	3.525,54	96 08 75 18	3.571,15
65-720/2	300	22,00	16	96 08 75 09	3.939,85	96 08 75 19	3.985,46
65-930/2	300	30,00	16	96 08 75 10	4.588,93	96 08 75 20	4.634,54

¹⁾ Standard hard-soft shaft seal for water without glycol from +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPE controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
50-90/4	300	0,55	16	96 37 52 71	1.859,85	-	-
50-110/4	300	0,75	16	96 27 61 41	1.976,29	-	-
50-120/2	200	0,75	6/10	96 56 67 22	1.658,63	-	-
50-130/4	300	1,10	16	96 09 65 33	2.212,25	96 09 65 37	2.257,86
50-160/2	300	1,10	16	96 27 61 53	1.809,29	-	-
50-160/4	300	1,50	16	96 09 65 34	2.455,10	96 09 65 38	2.500,71
50-180/2	200	0,75	6/10	96 27 61 59	1.759,93	96 27 61 61	1.780,57
50-190/2	300	1,50	16	96 09 64 13	2.215,18	96 09 64 23	2.260,79
50-190/4	300	2,20	16	96 09 65 35	2.702,76	96 09 65 39	2.748,37
50-230/4	300	3,00	16	96 09 65 36	2.961,94	96 09 65 40	3.007,55
50-240/2	300	2,20	16	96 09 64 14	2.382,69	96 09 64 24	2.428,30
50-290/2	300	3,00	16	96 09 64 15	2.620,55	96 09 64 25	2.666,16
50-360/2	300	4,00	16	96 09 64 16	3.035,03	96 09 64 26	3.080,64
50-430/2	300	5,50	16	96 09 64 17	3.700,10	96 09 64 27	3.745,71
50-440/2	300	7,50	16	96 09 64 18	4.028,77	96 09 64 28	4.074,38
50-570/2	300	11,00	16	96 09 64 19	5.002,04	96 09 64 29	5.047,65
50-710/2	300	15,00	16	96 09 64 20	5.587,65	96 09 64 30	5.633,26
50-830/2	300	18,50	16	96 09 64 21	6.857,76	96 09 64 31	6.903,37
50-900/2	300	22,00	16	96 09 64 22	7.799,38	96 09 64 32	7.845,00
65-60/4	200	0,55	6/10	96 55 18 49	1.806,02	-	-
65-90/4	300	0,75	16	96 27 61 71	1.993,14	-	-
65-110/4	300	1,10	16	96 09 66 89	2.252,84	96 09 66 94	2.298,45
65-120/2	200	1,10	6/10	96 27 61 65	1.844,38	96 27 61 67	1.865,01
65-130/4	300	1,50	16	96 09 66 90	2.541,09	96 09 66 95	2.586,70
65-150/4	300	2,20	16	96 09 66 91	2.849,12	96 09 66 96	2.894,73
65-170/4	300	3,00	16	96 09 66 92	3.056,70	96 09 66 97	3.102,31
65-180/2	200	1,50	6/10	96 53 49 79	2.258,69	96 53 49 86	2.279,33
65-190/2	300	2,20	16	96 09 65 81	2.387,16	96 09 65 90	2.432,77
65-230/2	300	3,00	16	96 09 65 82	2.631,21	96 09 65 91	2.676,82
65-240/4	300	4,00	16	96 09 66 93	3.384,85	96 09 66 98	3.430,46
65-260/2	300	4,00	16	96 09 65 83	3.041,74	96 09 65 92	3.087,35
65-340/2	300	5,50	16	96 09 65 84	3.734,50	96 09 65 93	3.780,11
65-410/2	300	7,50	16	96 09 65 85	4.071,76	96 09 65 94	4.117,37

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPE regulated with sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
50-90/4	300	0,55	16	96 37 52 77	2.334,54	-	-
50-110/4	300	0,75	16	96 27 58 05	2.450,97	-	-
50-120/2	200	0,75	6/10	96 27 54 81	2.133,31	96 27 54 83	2.153,95
50-130/4	300	1,10	16	96 27 58 11	2.686,93	96 27 58 13	2.732,55
50-160/2	300	1,10	16	96 27 55 05	2.323,53	96 27 55 07	2.369,14
50-160/4	300	1,50	16	96 27 58 17	2.929,78	96 27 58 19	2.975,39
50-180/2	200	0,75	6/10	96 27 54 93	2.234,61	96 27 54 95	2.255,25
50-190/2	300	1,50	16	96 27 55 11	2.729,41	96 27 55 13	2.775,03
50-190/4	300	2,20	16	96 27 58 23	3.177,44	96 27 58 25	3.223,05
50-230/4	300	3,00	16	96 27 58 29	3.436,62	96 27 58 31	3.482,23
50-240/2	300	2,20	16	96 27 55 17	2.896,93	96 27 55 19	2.942,54
50-290/2	300	3,00	16	96 27 55 23	3.095,23	96 27 55 25	3.140,84



3

Pump Data				TPE regulated with sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
50-360/2	300	4,00	16	96 27 55 29	3.509,71	96 27 55 31	3.555,33
50-430/2	300	5,50	16	96 39 70 27	4.174,78	-	-
50-440/2	300	7,50	16	96 39 70 30	4.503,45	96 39 70 32	4.549,06
50-570/2	300	11,00	16	96 39 70 33	5.476,72	-	-
65-60/4	200	0,55	6/10	96 37 52 29	2.280,70	96 37 52 31	2.301,34
65-90/4	300	0,75	16	96 27 58 53	2.467,82	96 27 58 55	2.513,44
65-110/4	300	1,10	16	96 27 59 31	2.727,52	96 27 59 33	2.773,13
65-120/2	200	1,10	6/10	96 27 55 53	2.319,06	96 27 55 55	2.339,70
65-130/4	300	1,50	16	96 27 58 59	3.015,77	96 27 58 61	3.061,38
65-150/4	300	2,20	16	96 27 58 65	3.323,80	96 27 58 67	3.369,41
65-170/4	300	3,00	16	96 27 58 71	3.531,38	96 27 58 73	3.577,00
65-180/2	200	1,50	6/10	96 27 55 59	2.733,37	96 27 55 61	2.754,01
65-190/2	300	2,20	16	96 27 55 65	2.901,40	96 27 55 67	2.947,01
65-230/2	300	3,00	16	96 27 55 71	3.105,89	96 27 55 73	3.151,50
65-240/4	300	4,00	16	96 27 58 77	3.859,53	96 27 58 79	3.905,14
65-260/2	300	4,00	16	96 27 55 77	3.516,42	96 27 55 79	3.562,03
65-340/2	300	5,50	16	96 27 55 83	4.209,18	96 27 55 85	4.254,79
65-410/2	300	7,50	16	96 27 55 89	4.546,45	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 80 – three phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with cast iron housing and cathoretic coating

Housing made of cast iron EN-GJL 250, with single mechanical seal, mit high efficiency IEC-motor, form V18, IP55

TP to 1,5 kW 3 x 220-240V D/380-415V Y in 50Hz, from 2,2 kW 3 x 380-415V D, or 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

TPE series 1000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controler, with integrated motor protection, **without sensor**

TPE series 2000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controler, with integrated motor protection, **with sensor**

Pump Data				TP Standard			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
80-30/4	200	0,37	10	96 40 23 66	1.056,34	96 43 88 82	1.076,98
80-30/4	200	0,37	6	96 40 23 65	1.056,34	-	-
80-60/4	200	0,75	10	96 40 24 11	1.206,31	96 43 88 84	1.226,95
80-60/4	200	0,75	6	96 40 24 10	1.206,31	96 43 88 83	1.226,95
80-70/4	300	1,10	16	96 10 85 85	1.182,40	96 10 85 93	1.228,01
80-90/4	300	1,50	16	96 10 85 86	1.246,90	96 10 85 94	1.292,51
80-110/4	300	2,20	16	96 10 88 37	1.354,22	96 10 88 43	1.399,83
80-120/2	200	1,50	10	96 40 24 56	1.249,82	96 43 88 86	1.270,46
80-120/2	200	1,50	6	96 40 24 55	1.249,82	96 43 88 85	1.270,46
80-140/2	300	2,20	16	96 10 86 97	1.139,41	96 10 87 07	1.185,02
80-150/4	300	3,00	16	96 10 88 38	1.418,88	96 10 88 44	1.464,49
80-170/4	300	4,00	16	96 10 88 39	1.784,18	96 10 88 45	1.829,79
80-180/2	300	3,00	16	96 10 86 98	1.246,90	96 10 87 08	1.292,51
80-210/2	300	4,00	16	96 10 86 99	1.399,10	96 10 87 09	1.444,72
80-240/2	300	5,50	16	96 10 87 00	1.805,68	96 10 87 10	1.851,29
80-240/4	300	5,50	16	96 10 88 40	2.043,36	96 10 88 46	2.116,35
80-250/2	300	7,50	16	96 10 87 01	1.913,34	96 10 87 11	1.958,95
80-270/4	300	7,50	16	96 10 88 41	2.204,00	96 10 88 47	2.276,99
80-330/2	300	11,00	16	96 10 87 02	2.579,62	96 10 87 12	2.625,23
80-340/4	300	11,00	16	96 10 88 42	2.617,11	96 10 88 48	2.690,10
80-400/2	300	15,00	16	96 10 87 03	2.588,21	96 10 87 13	2.633,83
80-520/2	300	18,50	16	96 10 87 04	3.254,66	96 10 87 14	3.300,27
80-570/2	300	22,00	16	96 10 87 05	4.084,49	96 10 87 15	4.130,10
80-700/2	300	30,00	16	96 10 87 06	4.654,28	96 10 87 16	4.699,89

¹⁾ Standard hard-soft shaft seal for water without glycol from +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPE controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
80-60/4	200	0,75	10	96 27 61 77	2.081,72	96 27 61 79	2.102,35
80-60/4	200	0,75	6	96 27 61 83	2.081,72	-	-
80-70/4	300	1,10	16	96 11 01 67	2.274,51	96 11 01 75	2.320,12
80-90/4	300	1,50	16	96 11 01 68	2.562,59	96 11 01 76	2.608,20
80-110/4	300	2,20	16	96 11 01 69	2.874,57	96 11 01 77	2.920,18
80-120/2	200	1,50	10	96 40 89 97	2.433,08	-	-
80-120/2	200	1,50	6	96 40 89 96	2.433,08	96 43 90 47	2.453,72
80-140/2	300	2,20	16	96 11 00 41	2.443,06	-	-
80-150/4	300	3,00	16	96 11 01 70	3.088,87	-	-
80-170/4	300	4,00	16	96 11 01 71	3.576,27	-	-
80-180/2	300	3,00	16	96 11 00 42	2.717,38	-	-
80-210/2	300	4,00	16	96 11 00 43	3.112,08	96 11 00 52	3.157,69
80-240/2	300	5,50	16	96 11 00 44	3.756,00	-	-
80-240/4	300	5,50	16	96 11 01 72	4.041,84	-	-
80-250/2	300	7,50	16	96 11 00 45	4.114,76	96 11 00 54	4.160,37
80-270/4	300	7,50	16	96 89 89 77	4.294,45	-	-

3

Pump Data				TPE controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
80-330/2	300	11,00	16	96 11 00 46	5.109,53	-	-
80-340/4	300	11,00	16	96 11 01 74	5.229,57	-	-
80-400/2	300	15,00	16	96 11 00 47	5.553,25	96 11 00 56	5.598,86
80-520/2	300	18,50	16	96 11 00 48	6.823,37	-	-
80-570/2	300	22,00	16	96 11 00 49	8.100,36	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPE regulated with sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
80-60/4	200	0,75	10	96 27 59 13	2.556,40	-	-
80-60/4	200	0,75	6	96 27 59 07	2.556,40	-	-
80-70/4	300	1,10	16	96 27 59 19	2.749,19	96 27 59 21	2.794,80
80-90/4	300	1,50	16	96 27 59 25	3.037,27	96 27 59 27	3.082,88
80-110/4	300	2,20	16	96 27 59 37	3.349,25	96 27 59 39	3.394,86
80-120/2	200	1,50	10	96 27 56 01	2.907,76	96 27 56 03	2.928,40
80-120/2	200	1,50	6	96 27 55 95	2.907,76	-	-
80-140/2	300	2,20	16	96 27 56 07	2.957,30	96 27 56 09	3.002,91
80-150/4	300	3,00	16	96 27 59 43	3.563,55	96 27 59 45	3.609,16
80-170/4	300	4,00	16	96 27 59 49	4.050,95	96 27 59 51	4.096,56
80-180/2	300	3,00	16	96 27 56 13	3.192,06	96 27 56 15	3.237,67
80-210/2	300	4,00	16	96 27 56 19	3.586,76	96 27 56 21	3.632,37
80-240/2	300	5,50	16	96 27 56 25	4.230,68	96 27 56 27	4.276,29
80-240/4	300	5,50	16	96 27 59 55	4.516,52	96 27 59 57	4.589,51
80-250/2	300	7,50	16	96 27 56 31	4.589,44	96 27 56 33	4.635,05
80-270/4	300	7,50	16	96 90 02 91	4.690,91	-	-
80-330/2	300	11,00	16	96 27 56 37	5.584,21	96 27 56 39	5.629,82
80-340/4	300	11,00	16	96 27 59 67	5.704,25	-	-
80-400/2	300	15,00	16	96 27 56 43	6.027,93	96 27 56 45	6.073,54
80-520/2	300	18,50	16	96 39 70 57	7.298,05	96 39 70 59	7.343,66

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 100 – three phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with cast iron housing and cathaporetic coating

Housing made of cast iron EN-GJL 250 (PN 16) or ductile cast iron EN-GJS-400-18 (PN 25) with single mechanical seal, mit **high efficiency IEC-motor**, form V18, IP55

TP to 1,5 kW 3 x 220-240V D/380-415V Y in 50Hz, from 2,2 kW 3 x 380-415V D, or 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

TPE series 1000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controler, with integrated motor protection, without sensor

TPE series 2000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controler, with integrated motor protection, with sensor

Pump Data				TP Standard			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
100-30/4	200	0,55	10	96 40 25 44	1.359,55	96 43 88 88	1.380,19
100-30/4	200	0,55	6	96 40 25 43	1.359,55	96 43 88 87	1.380,19
100-60/4	200	1,10	10	96 40 26 28	1.436,77	96 43 88 90	1.457,41
100-60/4	200	1,10	6	96 40 26 27	1.436,77	96 43 88 89	1.457,41
100-70/4	300	1,50	16	96 10 90 33	1.602,74	-	-
100-90/4	300	2,20	16	96 10 92 85	1.737,92	96 10 92 94	1.783,53
100-110/4	300	3,00	16	96 10 92 86	1.850,91	96 10 92 95	1.896,52
100-120/2	200	2,20	10	96 41 00 57	1.573,67	96 43 88 94	1.594,31
100-120/2	200	2,20	6	96 41 00 56	1.573,67	96 43 88 93	1.594,31
100-130/4	300	4,00	16	96 10 92 87	2.076,56	96 10 92 96	2.149,55
100-160/2	300	4,00	16	96 10 91 73	1.326,87	96 10 91 81	1.372,48
100-170/4	300	5,50	16	96 10 92 88	2.352,25	96 10 92 97	2.425,24
100-200/2	300	5,50	16	96 10 91 74	1.668,95	96 10 91 82	1.714,56
100-200/4	300	7,50	16	96 10 92 89	2.613,67	96 10 92 98	2.686,66
100-240/2	300	7,50	16	96 10 91 75	1.737,92	96 10 91 83	1.783,53
100-250/2	300	11,00	16	96 10 91 76	2.665,61	96 10 91 84	2.711,22
100-250/4	300	11,00	16	96 10 92 90	3.088,87	96 10 92 99	3.161,86
100-310/2	300	15,00	16	96 10 91 77	3.009,58	96 10 91 85	3.055,19
100-330/4	300	15,00	16	96 10 92 91	3.516,42	96 10 93 00	3.589,41
100-360/2	300	18,50	16	96 10 91 78	3.654,53	96 10 91 86	3.700,14
100-370/4	300	18,50	16	96 10 92 92	4.134,20	96 10 93 01	4.207,19
100-390/2	300	22,00	16	96 10 91 79	4.170,48	96 10 91 87	4.216,09
100-410/4	300	22,00	16	96 10 92 93	4.633,13	96 10 93 02	4.706,12
100-480/2	300	30,00	16	96 10 91 80	4.729,44	96 10 91 88	4.802,43

¹⁾ Standard hard-soft shaft seal for water without glycol from +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPE controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
100-30/4	200	0,55	10	96 55 18 72	2.226,36	-	-
100-60/4	200	1,10	10	96 42 89 46	2.528,88	96 43 90 50	2.549,52
100-60/4	200	1,10	6	96 42 89 48	2.528,88	-	-
100-70/4	300	1,50	16	96 11 03 77	2.918,43	-	-
100-90/4	300	2,20	16	96 11 03 78	3.258,27	96 11 03 88	3.303,88
100-110/4	300	3,00	16	96 11 03 79	3.520,89	96 11 03 89	3.566,50
100-120/2	200	2,20	10	96 40 90 01	2.877,32	96 43 90 52	2.897,96
100-120/2	200	2,20	6	96 40 90 00	2.877,32	96 43 90 51	2.897,96
100-130/4	300	4,00	16	96 11 03 80	3.868,65	96 11 03 90	3.941,64
100-160/2	300	4,00	16	96 11 02 79	3.039,85	96 11 02 86	3.085,46
100-170/4	300	5,50	16	96 11 03 81	4.350,73	96 11 03 91	4.423,72
100-200/2	300	5,50	16	96 11 02 80	3.619,27	96 11 02 87	3.664,88
100-200/4	300	7,50	16	96 89 90 05	4.625,90	-	-
100-240/2	300	7,50	16	96 11 02 81	3.939,34	96 11 02 88	3.984,95
100-250/2	300	11,00	16	96 11 02 82	5.195,52	96 11 02 89	5.241,13
100-250/4	300	11,00	16	96 11 03 83	5.701,33	96 11 03 93	5.774,32
100-310/2	300	15,00	16	96 11 02 83	5.974,62	96 11 02 90	6.020,23



3

Pump Data				TPE controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
100-330/4	300	15,00	16	96 11 03 84	6.481,46	96 11 03 94	6.554,45
100-360/2	300	18,50	16	96 11 02 84	7.223,23	96 11 02 91	7.268,84
100-390/2	300	22,00	16	96 11 02 85	8.186,35	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPE regulated with sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
100-30/4	200	0,55	10	96 37 52 35	2.701,04	-	-
100-30/4	200	0,55	6	96 37 52 38	2.701,04	-	-
100-60/4	200	1,10	10	96 27 59 91	3.003,56	96 27 59 93	3.024,20
100-60/4	200	1,10	6	96 27 59 85	3.003,56	96 27 59 87	3.024,20
100-70/4	300	1,50	16	96 27 60 09	3.393,11	96 27 60 11	3.438,72
100-90/4	300	2,20	16	96 27 60 15	3.732,95	96 27 60 17	3.778,56
100-110/4	300	3,00	16	96 27 60 21	3.995,57	96 27 60 23	4.041,19
100-120/2	200	2,20	10	96 27 56 55	3.352,00	96 27 56 57	3.372,64
100-120/2	200	2,20	6	96 27 56 49	3.352,00	-	-
100-130/4	300	4,00	16	96 27 60 27	4.343,33	96 27 60 29	4.416,32
100-160/2	300	4,00	16	96 27 56 61	3.514,53	96 27 56 63	3.560,14
100-170/4	300	5,50	16	96 27 60 33	4.825,41	96 27 60 35	4.898,40
100-200/2	300	5,50	16	96 27 56 67	4.093,95	96 27 56 69	4.139,56
100-200/4	300	7,50	16	96 89 09 57	5.100,58	96 89 09 58	5.173,57
100-240/2	300	7,50	16	96 27 56 73	4.414,02	96 27 56 75	4.459,63
100-250/2	300	11,00	16	96 27 56 79	5.670,20	-	-
100-250/4	300	11,00	16	96 27 60 45	6.176,01	96 27 60 47	6.249,00
100-310/2	300	15,00	16	96 27 56 85	6.449,30	96 27 56 87	6.494,91
100-330/4	300	15,00	16	96 27 60 51	6.956,14	96 27 60 53	7.029,13
100-360/2	300	18,50	16	96 27 56 91	7.697,91	96 27 56 93	7.743,52
100-390/2	300	22,00	16	96 27 56 97	8.661,03	96 27 56 99	8.706,64

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

³⁾ Motor: IE2

DN 125 to DN 150 – three phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with cast iron housing and cathoretic coating

Housing made of cast iron EN-GJL 250 (PN 16) or ductile cast iron EN-GJS-400-18 (PN 25) with single mechanical seal, with high efficiency IEC-motor, form V18, IP55

TP to 1,5 kW 3 x 220-240V D/380-415V Y in 50Hz, from 2,2 kW 3 x 380-415V D, or 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

TPE series 1000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **without sensor**

TPE series 2000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **with sensor**

Pump Data				TP Standard			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
125-70/4	300	2,20	16	95 04 62 49	1.792,61	-	-
125-90/4	300	3,00	16	95 04 62 48	1.985,92	-	-
125-100/4	300	4,00	16	95 04 59 92	2.274,86	-	-
125-110/4	300	4,00	16	-	-	96 10 95 31	2.330,13

Pump Data				TP Standard			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
125-130/4	300	5,50	16	96 10 95 24	2.423,45	96 10 95 32	2.496,44
125-160/4	300	7,50	16	96 10 95 25	3.207,54	96 10 95 33	3.280,53
125-210/4	300	11,00	16	96 10 95 26	3.326,38	96 10 95 34	3.399,37
125-250/4	300	15,00	16	96 10 95 27	3.682,73	96 10 95 35	3.755,72
125-320/4	300	18,50	16	96 10 95 28	4.276,94	96 10 95 36	4.349,93
125-360/4	300	22,00	16	96 10 95 29	4.751,97	96 10 95 37	4.824,96
125-420/4	300	30,00	16	96 10 95 30	5.227,16	-	-
150-100/4	300	5,50	16	95 04 62 55	2.759,34	-	-
150-140/4	300	7,50	16	95 04 62 54	3.585,22	-	-
150-150/4	300	11,00	16	95 04 59 93	3.848,01	-	-
150-160/4	300	11,00	16	-	-	96 10 98 65	3.874,57
150-200/4	300	15,00	16	96 10 98 61	4.158,10	96 10 98 66	4.231,09
150-200/4	300	15,00	16	96 10 97 91	4.158,10	-	-
150-220/4	300	18,50	16	96 10 98 62	4.657,03	96 10 98 67	4.730,02
150-250/4	300	22,00	16	96 10 98 63	5.037,12	96 10 98 68	5.110,11
150-260/4	300	18,50	16	96 30 60 03	5.127,76	96 30 61 76	5.291,14
150-280/4	300	22,00	16	96 30 60 02	5.435,44	96 30 62 54	5.598,83
150-340/4	300	30,00	16	96 30 60 01	6.153,48	96 30 61 74	6.316,87
150-340/4	300	30,00	16	96 30 60 81	6.153,48	-	-
150-390/4	300	37,00	16	96 30 60 00	7.178,69	96 30 61 73	7.342,07
150-450/4	300	45,00	16	95 04 59 94	8.473,05	-	-
150-520/4	300	55,00	16	95 04 62 63	9.130,04	-	-
150-660/4	300	75,00	16	95 04 59 95	10.509,54	-	-
150-680/4	300	90,00	16	95 04 62 62	11.359,84	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol from +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPE controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
125-70/4	300	2,20	16	95 04 62 03	3.312,96	-	-
125-90/4	300	3,00	16	95 04 62 02	3.655,90	-	-
125-100/4	300	4,00	16	95 04 62 01	4.066,95	-	-
125-130/4	300	5,50	16	96 11 05 18	4.421,93	96 11 05 25	4.494,92
125-160/4	300	7,50	16	96 89 90 24	5.219,77	-	-
125-210/4	300	11,00	16	96 11 05 20	5.938,84	-	-
125-250/4	300	15,00	16	96 11 05 21	6.647,77	-	-
150-100/4	300	5,50	16	95 04 62 12	4.757,82	-	-
150-140/4	300	7,50	16	95 04 62 11	5.597,45	-	-
150-150/4	300	11,00	16	95 04 62 10	6.460,48	-	-
150-200/4	300	15,00	16	96 11 06 17	7.123,14	96 11 06 22	7.196,13

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

³⁾ Motor: IE2

Product Group: CB

Pump Data				TPE regulated with sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
125-70/4	300	2,20	16	95 04 62 09	3.787,64	-	-
125-90/4	300	3,00	16	95 04 62 08	4.130,58	-	-
125-100/4	300	4,00	16	95 04 62 07	4.541,63	-	-
125-110/4	300	4,00	16	-	-	96 27 60 71	4.596,91
125-130/4	300	5,50	16	96 27 60 75	4.896,61	96 27 60 77	4.969,60
125-160/4	300	7,50	16	96 89 09 54	5.694,45	-	-
125-210/4	300	11,00	16	96 27 60 87	6.413,52	96 27 60 89	6.486,51
125-250/4	300	15,00	16	96 27 60 93	7.122,45	96 27 60 95	7.195,44
150-100/4	300	5,50	16	95 04 62 18	5.232,50	-	-
150-140/4	300	7,50	16	95 04 62 17	6.072,13	-	-
150-150/4	300	11,00	16	95 04 62 16	6.935,16	-	-
150-200/4	300	15,00	16	96 38 26 89	7.597,82	96 38 26 91	7.670,81

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

³⁾ Motor: IE2

DN 200 to DN 400 – three phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with cast iron housing and cathoporetic coating

Housing made of cast iron EN-GJL 250 (PN 16) or ductile cast iron EN-GJS-400-18 (PN 25)) with single mechanical seal, with high efficiency IEC-motor, form V18, IP55

TP to 1,5 kW 3 x 220-240V D/380-415V Y in 50Hz, from 2,2 kW 3 x 380-415V D, or 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

TPE series 1000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, without sensor

TPE series 2000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, with sensor

Pump Data				TP Standard		TPE controlled without sensor		TPE regulated with sensor	
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR
200-50/4	300	4,00	16	95 04 62 72	3.022,13	95 04 62 23	4.814,23	95 04 62 32	5.288,91
200-70/4	300	5,50	16	95 04 62 71	3.341,17	95 04 62 22	5.339,64	95 04 62 31	5.814,32
200-90/4	300	7,50	16	95 04 62 70	4.101,52	95 04 62 21	6.113,75	95 04 62 30	6.588,43
200-130/4	300	11,00	16	95 04 62 69	4.683,35	95 04 62 20	7.295,81	95 04 62 29	7.770,49
200-150/4	300	15,00	16	95 04 59 96	4.870,98	95 04 62 19	7.836,02	95 04 62 28	8.310,70
200-160/4	300	15,00	16	95 04 62 82	4.870,98	95 04 62 34	7.836,02	95 04 62 36	8.310,70
200-190/4	300	18,50	16	95 04 62 81	5.124,32	-	-	-	-
200-200/4	300	22,00	16	95 04 62 80	5.465,88	-	-	-	-
200-240/4	300	30,00	16	95 04 62 79	6.779,85	-	-	-	-
200-270/4	300	45,00	16	96 30 60 08	8.614,77	-	-	-	-
200-290/4	300	37,00	16	95 04 59 97	8.165,20	-	-	-	-
200-320/4	300	55,00	16	96 30 60 07	9.435,14	-	-	-	-
200-330/4	300	37,00	16	96 30 60 20	8.409,59	-	-	-	-
200-360/4	300	45,00	16	96 30 60 19	8.922,28	-	-	-	-
200-400/4	300	55,00	16	96 30 60 18	9.640,15	-	-	-	-
200-410/4	300	75,00	16	96 30 60 06	10.460,69	-	-	-	-
200-470/4	300	75,00	16	96 30 60 17	10.870,88	-	-	-	-
200-660/4	300	132,00	16	96 30 60 14	17.639,55	-	-	-	-
250-280/4	400	45,00	10	96 16 22 49	15.658,71	-	-	-	-
250-310/4	400	55,00	10	96 16 22 50	16.502,59	-	-	-	-
250-390/4	400	75,00	10	96 16 22 51	18.073,23	-	-	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol from +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPED controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
100-60/4	200	1,10	10	96 51 01 09	4.912,26	-	-
100-60/4	200	1,10	6	96 51 01 06	4.912,26	-	-
100-70/4	300	1,50	16	96 11 04 47	5.802,80	-	-
100-90/4	300	2,20	16	96 11 04 48	6.483,69	-	-
100-110/4	300	3,00	16	96 11 04 49	7.006,53	-	-
100-120/2	200	2,20	10	96 40 31 44	5.597,28	96 43 90 82	5.638,55
100-120/2	200	2,20	6	96 40 31 43	5.597,28	-	-
100-130/4	300	4,00	16	96 11 04 50	7.697,57	96 11 04 60	7.843,55
100-160/2	300	4,00	16	96 11 03 28	6.055,10	-	-
100-170/4	300	5,50	16	96 11 04 51	8.462,91	-	-
100-200/2	300	5,50	16	96 11 03 29	7.201,91	-	-
100-200/4	300	7,50	16	96 89 90 11	8.986,77	96 89 90 12	9.132,76
100-240/2	300	7,50	16	96 11 03 30	7.840,32	96 11 03 37	7.931,54
100-250/2	300	11,00	16	96 11 03 31	10.341,16	-	-
100-250/4	300	11,00	16	96 11 04 53	11.090,16	96 11 04 63	11.236,14
100-310/2	300	15,00	16	96 11 03 32	11.887,14	-	-
100-330/4	300	15,00	16	96 11 04 54	12.611,55	-	-
100-360/2	300	18,50	16	96 11 03 33	14.371,48	-	-
100-390/2	300	22,00	16	96 11 03 34	16.290,84	-	-
125-110/4	300	4,00	16	96 11 05 66	7.874,54	-	-
125-130/4	300	5,50	16	96 11 05 67	8.598,09	96 11 05 74	8.744,07
125-160/4	300	7,50	16	96 89 90 32	10.115,52	-	-
125-210/4	300	11,00	16	96 11 05 69	11.541,80	-	-
125-250/4	300	15,00	16	96 11 05 70	12.927,49	-	-
150-130/4	300	7,50	16	96 89 90 50	10.792,63	-	-
150-160/4	300	11,00	16	96 11 06 51	12.444,72	96 11 06 56	12.590,70
150-200/4	300	15,00	16	96 11 06 52	13.830,24	96 11 06 57	13.976,22

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPED regulated with sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
100-110/4	300	3,00	16	96 27 60 24	7.481,21	-	-
100-120/2	200	2,20	10	-	-	96 27 56 60	6.113,24
100-130/4	300	4,00	16	96 27 60 30	8.172,25	96 27 60 32	8.318,23
100-160/2	300	4,00	16	96 27 56 64	6.529,79	96 27 56 66	6.621,01
100-170/4	300	5,50	16	96 27 60 36	8.937,59	96 27 60 38	9.083,57
100-200/2	300	5,50	16	96 27 56 70	7.676,59	-	-
100-200/4	300	7,50	16	96 94 58 73	9.461,46	-	-
100-240/2	300	7,50	16	96 27 56 76	8.315,00	96 27 56 78	8.406,22
100-250/2	300	11,00	16	96 94 57 53	10.815,84	-	-
100-250/4	300	11,00	16	96 94 58 07	11.564,84	-	-
100-310/2	300	15,00	16	-	-	96 94 57 67	12.453,05
100-360/2	300	18,50	16	96 94 57 74	14.846,16	-	-
100-390/2	300	22,00	16	96 94 57 86	16.765,52	-	-
100-60/4	200	1,10	10	-	-	96 27 59 96	5.428,22
100-70/4	300	1,50	16	96 27 60 12	6.277,48	-	-
100-90/4	300	2,20	16	96 27 60 18	6.958,37	-	-
125-110/4	300	4,00	16	96 27 60 72	8.349,22	96 27 60 74	8.495,20
125-130/4	300	5,50	16	96 27 60 78	9.072,77	96 27 60 80	9.218,75

3

Pump Data				TPED regulated with sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
125-160/4	300	7,5	16	96 94 58 48	10.590,20	-	-
125-250/4	300	15,00	16	96 94 58 17	13.402,17	-	-
150-130/4	300	7,50	16	96 94 58 77	11.267,31	-	-
150-160/4	300	11,00	16	96 94 61 28	12.919,40	-	-
150-200/4	300	15,00	16	96 94 58 21	14.304,92	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 32 to DN 50 – single phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with cast iron housing and cataphoretic coating

Housing made of cast iron EN-GJL 250, with single mechanical seal, Motor-form V18, IP55

TPD with motor 1 x 220 – 230 V D / 240 V Y in 50 Hz, motor protection with integrated thermal switch

TPED series 1000 mit IEC-Motor 1 x 200 – 240 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **without sensor**

TPED series 2000 mit IEC-Motor 1 x 200 – 240 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **with sensor**

Pump Data				TPD Standard		TPED controlled without sensor		TPED regulated with sensor	
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR
32-30/4	200	0,12	6/10	96 40 17 48	884,18	96 54 07 30	1.792,26	-	-
32-40/4	200	0,25	6/10	96 46 38 88	1.154,71	96 54 07 33	2.102,35	-	-
32-60/2	200	0,25	6/10	96 40 18 25	1.040,51	96 54 00 56	1.988,16	-	-
32-60/4	200	0,25	6/10	96 46 38 96	1.177,93	96 54 07 37	2.125,57	-	-
32-80/4	300	0,25	16	96 38 42 01	1.788,14	96 11 28 24	2.735,78	-	-
32-100/4	300	0,37	16	-	-	-	-	96 27 57 30	3.295,25
32-120/2	200	0,25	6/10	96 40 18 56	1.255,67	96 48 69 31	2.256,63	-	-
32-120/4	300	0,55	16	-	-	96 11 28 26	2.924,79	96 27 57 36	3.399,47
32-150/2	200	0,37	6/10	96 46 37 39	1.255,67	96 54 07 13	2.256,63	-	-
32-180/2	200	0,55	6/10	96 46 37 48	1.397,56	96 48 85 80	2.448,39	-	-
32-200/2	300	1,10	16	-	-	96 11 28 00	2.998,06	96 27 53 82	3.472,74
32-230/2	200	0,75	6/10	96 46 37 57	1.555,44	96 48 85 81	2.649,27	-	-
40-30/4	200	0,12	6/10	96 40 18 85	1.038,62	96 54 07 46	1.946,71	-	-
40-60/2	200	0,25	6/10	96 40 19 30	1.156,95	96 48 69 23	2.104,59	-	-
40-90/4	200	0,25	16	96 46 39 20	1.361,10	96 54 07 49	2.308,74	-	-
40-100/4	300	0,55	16	-	-	96 11 28 54	3.073,90	96 27 57 60	3.548,58
40-120/2	200	0,37	6/10	96 40 19 63	1.404,09	96 48 69 34	2.405,05	-	-
40-130/4	300	0,75	16	-	-	96 11 28 55	3.176,41	96 27 57 66	3.651,09
40-190/2	200	0,75	16	96 46 38 33	1.692,34	96 48 85 86	2.786,17	-	-
40-230/2	200	1,10	16	96 46 38 43	1.739,12	96 48 85 87	2.867,35	-	-
40-270/2	200	1,50	16	96 46 38 55	1.879,98	-	-	-	-
50-30/4	200	0,25	6/10	96 40 20 19	1.242,92	96 54 07 64	2.324,73	-	-
50-60/2	200	0,37	6/10	96 40 20 87	1.404,95	96 54 07 52	2.405,91	-	-
50-60/4	200	0,37	6/10	-	-	96 48 68 72	2.656,66	-	-
50-90/4	300	0,55	16	-	-	96 11 28 90	3.209,77	96 27 57 96	3.684,45
50-110/4	300	0,75	16	96 38 42 55	2.389,23	96 11 28 91	3.483,06	96 27 58 02	3.957,74
50-120/2	200	0,75	6/10	96 40 21 20	1.698,19	96 48 69 35	2.792,02	-	-
50-160/2	300	1,10	16	-	-	96 11 28 72	3.224,56	96 27 55 02	3.699,24
50-180/2	200	0,75	6/10	96 40 21 50	1.890,47	96 54 07 56	2.984,30	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol from +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 65 to DN 100 – single phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with cast iron housing and cataphoretic coating

Housing made of cast iron EN-GJL 250, with single mechanical seal, Motor-form V18, IP55

TPD with motor 1 x 220 – 230 V D / 240 V Y in 50 Hz, motor protection with integrated thermal switch

TPED series 1000 mit IEC-Motor 1 x 200 – 240 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **without sensor**

TPED series 2000 mit IEC-Motor 1 x 200 – 240 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **with sensor**

Pump Data				TPD Standard		TPED controlled without sensor		TPED regulated with sensor	
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾	EUR	Seal Heating (BAQE-BUBE) ¹⁾	EUR	Seal Heating (BAQE-BUBE) ¹⁾	EUR
				Product-No.		Product-No.		Product-No.	
65-30/4	200	0,25	6/10	96 40 22 15	1.680,99	96 54 08 22	2.628,63	96 27 58 38	3.103,31
65-60/2	200	0,55	6/10	96 40 92 70	1.683,40	96 54 08 19	2.734,23	96 27 55 38	3.208,91
65-60/4	200	0,55	6/10	96 40 22 44	1.976,98	96 48 68 78	3.027,81	96 27 58 44	3.502,49
65-90/4	300	0,75	16	-	-	96 11 29 08	3.516,94	96 27 58 50	3.991,62
65-120/2	200	1,10	6/10	96 40 22 97	2.086,88	96 48 69 36	3.215,10	96 27 55 50	3.689,78
65-180/2	200	1,50	6/10	96 40 23 27	2.253,01	-	-	-	-
80-30/4	200	0,37	10	96 40 23 70	2.199,87	96 54 08 40	3.200,83	96 27 58 92	3.675,51
80-30/4	200	0,37	6	96 40 23 69	2.199,87	96 54 08 44	3.200,83	96 27 58 86	3.675,51
80-60/4	200	0,75	10	96 40 24 19	2.501,71	96 48 69 16	3.595,54	96 27 59 04	4.070,22
80-60/4	200	0,75	6	96 40 24 18	2.501,71	96 48 69 10	3.595,54	96 27 58 98	4.070,22
80-120/2	200	1,50	10	96 40 24 64	2.584,43	-	-	-	-
80-120/2	200	1,50	6	96 40 24 63	2.584,43	-	-	-	-
100-30/4	200	0,55	10	96 40 25 74	2.775,68	96 54 09 23	3.826,51	96 27 59 82	4.301,19
100-30/4	200	0,55	6	96 40 25 70	2.775,68	96 54 09 26	3.826,51	96 27 59 76	4.301,19
100-60/4	200	1,10	10	96 40 26 56	2.939,58	-	-	-	-
100-60/4	200	1,10	6	96 40 26 53	2.939,58	-	-	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol from +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 32 to DN 50 – three phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with cast iron housing and cataphoretic coating

Housing made of cast iron EN-GJL 250, with single mechanical seal, **with high efficiency IEC-motor**, form V18, IP55

TPD to 1,5 kW 3 x 220-240V D/380-415V Y in 50Hz, from 2,2 kW 3 x 380-415V D, or 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

TPED series 1000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **without sensor**

TPED series 2000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **with sensor**

Pump Data				TPD Standard		TPED regulated with sensor					
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾	EUR	Seal Heating (BAQE-BUBE) ¹⁾	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾	EUR
				Product-No.		Product-No.		Product-No.		Product-No.	
32-30/4	200	0,12	6/10	96 40 17 52	794,75	-	-	-	-	-	-
32-40/4	200	0,25	6/10	96 49 20 32	962,09	-	-	-	-	-	-
32-60/2	200	0,25	6/10	96 40 18 29	847,89	-	-	-	-	-	-
32-60/4	200	0,25	6/10	96 49 20 14	985,31	-	-	-	-	-	-
32-80/4	300	0,25	16	96 08 67 51	1.595,51	96 08 67 54	1.686,73	-	-	-	-
32-100/4	300	0,37	16	96 08 67 52	1.626,99	96 08 67 55	1.718,21	-	-	-	-
32-120/2	200	0,37	6/10	96 40 18 60	1.063,04	96 43 89 85	1.104,32	-	-	-	-
32-120/4	300	0,55	16	96 08 67 53	1.681,33	-	-	-	-	-	-
32-150/2	200	0,37	6/10	96 46 37 40	1.063,04	96 46 37 46	1.104,32	-	-	-	-
32-180/2	200	0,55	6/10	96 46 37 49	1.204,93	96 46 37 55	1.246,21	-	-	-	-
32-200/2	300	1,10	16	96 08 66 97	1.660,01	-	-	-	-	-	-
32-230/2	200	0,75	6/10	96 46 37 58	1.345,62	96 46 37 64	1.386,89	-	-	-	-
32-250/2	300	1,50	16	96 08 66 98	1.851,60	96 08 67 04	1.942,82	-	-	-	-
32-320/2	300	2,20	16	96 08 67 93	2.000,54	96 08 67 97	2.091,76	-	-	-	-
32-380/2	300	3,00	16	96 08 67 94	2.170,98	96 08 67 98	2.262,20	-	-	-	-
32-460/2	300	4,00	16	96 08 67 95	2.234,61	-	-	-	-	-	-
32-580/2	300	5,50	16	96 08 67 96	2.766,56	-	-	-	-	-	-
40-30/4	200	0,12	6/10	96 40 18 89	949,19	-	-	-	-	-	-
40-60/2	200	0,25	6/10	96 40 19 34	964,32	96 43 89 87	1.005,60	-	-	-	-
40-90/4	200	0,25	16	96 49 20 17	1.168,47	-	-	-	-	-	-

3

Pump Data				TPD Standard			TPED regulated with sensor					
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR	
40-100/4	300	0,55	16	96 08 68 95	1.830,45	-	-	-	-	-	-	
40-120/2	200	0,37	6/10	96 40 19 67	1.211,47	96 43 89 88	1.252,74	-	-	-	-	
40-130/4	300	0,75	16	96 08 68 96	1.872,75	96 08 68 99	1.963,97	-	-	-	-	
40-160/4	300	1,10	16	96 08 68 97	2.170,98	96 08 69 00	2.262,20	-	-	-	-	
40-190/2	200	0,75	16	96 46 38 35	1.482,52	96 46 38 41	1.523,79	-	-	-	-	
40-230/2	200	1,10	16	96 46 38 45	1.529,30	96 46 38 53	1.570,57	-	-	-	-	
40-240/2	300	2,20	16	96 08 69 43	2.128,32	-	-	-	-	-	-	
40-270/2	200	1,50	16	96 46 38 56	1.670,15	96 46 38 62	1.711,43	-	-	-	-	
40-300/2	300	3,00	16	96 08 69 44	2.255,77	96 08 69 49	2.346,99	-	-	-	-	
40-360/2	300	4,00	16	96 08 69 45	2.553,82	96 08 69 50	2.645,04	-	-	-	-	
40-470/2	300	5,50	16	96 08 69 46	3.320,01	-	-	-	-	-	-	
40-580/2	300	7,50	16	96 08 69 47	3.532,93	96 08 69 52	3.624,15	-	-	-	-	
50-30/4	200	0,25	6/10	96 40 20 23	1.184,47	-	-	-	-	-	-	
50-60/2	200	0,37	6/10	96 40 20 91	1.212,33	96 43 89 90	1.253,60	-	-	-	-	
50-60/4	200	0,37	6/10	96 40 57 67	1.463,08	-	-	-	-	-	-	
50-90/4	300	0,55	16	96 08 71 41	1.966,31	-	-	-	-	-	-	
50-110/4	300	0,75	16	96 08 71 42	2.179,40	-	-	-	-	-	-	
50-120/2	200	0,75	6/10	96 40 21 24	1.488,37	96 43 89 91	1.529,64	-	-	-	-	
50-130/4	300	1,10	16	96 08 71 43	2.217,59	96 08 71 49	2.308,81	-	-	-	-	
50-160/2	300	1,50	16	96 08 70 39	1.886,51	96 08 70 50	1.977,73	-	-	-	-	
50-160/4	300	1,10	16	96 08 71 44	2.255,77	-	-	-	-	-	-	
50-180/2	200	0,75	6/10	96 40 21 61	1.680,65	96 43 89 92	1.721,92	-	-	-	-	
50-190/2	300	1,50	16	96 08 70 40	2.043,02	96 08 70 51	2.134,24	96 27 55 14	4.884,23	-	-	
50-190/4	300	2,20	16	96 08 72 97	2.341,07	96 08 72 99	2.432,29	96 27 58 26	5.858,18	-	-	
50-230/4	300	3,00	16	96 08 72 98	2.558,12	96 08 73 00	2.649,34	96 27 58 32	6.374,48	-	-	
50-240/2	300	2,20	16	96 08 72 31	2.136,92	-	-	96 27 55 20	5.218,91	-	-	
50-290/2	300	3,00	16	96 08 72 32	2.277,26	-	-	96 27 55 26	5.694,62	-	-	
50-360/2	300	4,00	16	96 08 72 33	2.617,62	-	-	96 27 55 32	6.519,98	96 27 55 34	6.611,20	
50-430/2	300	5,50	16	96 08 72 34	3.464,31	96 08 72 43	3.555,53	-	-	96 39 71 28	7.927,41	
50-440/2	300	7,50	16	96 08 72 35	3.618,07	-	-	96 39 71 29	8.492,14	-	-	
50-570/2	300	11,00	16	96 08 72 36	4.894,72	-	-	-	-	-	-	
50-710/2	300	15,00	16	96 08 72 37	5.192,94	-	-	-	-	-	-	
50-830/2	300	18,50	16	96 08 72 38	6.512,41	-	-	-	-	-	-	
50-900/2	300	22,00	16	96 08 72 39	7.491,36	-	-	-	-	-	-	

¹⁾ Standard hard-soft shaft seal for water without glycol from +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPED controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
32-120/4	300	0,55	16	96 37 52 50	3.414,95	96 37 52 52	3.506,17
32-200/2	300	1,10	16	96 27 61 14	3.371,27	-	-
32-230/2	200	0,75	6/10	96 27 61 20	3.096,43	-	-
32-250/2	300	1,50	16	96 09 63 11	4.218,12	96 09 63 16	4.309,35
32-320/2	300	2,20	16	96 09 63 12	4.607,84	96 09 63 17	4.699,07
32-380/2	300	3,00	16	96 09 63 13	5.113,65	96 09 63 18	5.204,88
32-460/2	300	4,00	16	96 09 63 14	5.662,29	96 09 63 19	5.753,51
32-580/2	300	5,50	16	96 09 63 15	6.663,76	96 09 63 20	6.754,98
40-100/4	300	0,55	16	96 37 52 62	3.564,06	96 37 52 64	3.655,28
40-130/4	300	0,75	16	96 27 61 26	3.623,57	96 27 61 28	3.714,79
40-160/4	300	1,10	16	96 09 64 07	4.353,48	96 09 64 08	4.444,70
40-190/2	200	0,75	16	96 27 61 32	3.233,33	96 27 61 34	3.274,61
40-230/2	200	1,10	16	96 27 61 38	3.240,56	-	-

Pump Data				TPED controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
40-240/2	300	2,20	16	96 09 63 71	4.735,63	96 09 63 76	4.826,85
40-270/2	200	1,50	16	96 46 78 22	4.036,68	-	-
40-300/2	300	3,00	16	96 09 63 72	5.198,44	96 09 63 77	5.289,66
40-360/2	300	4,00	16	96 09 63 73	5.981,49	96 09 63 78	6.072,72
40-470/2	300	5,50	16	96 09 63 74	7.217,21	96 09 63 79	7.308,43
40-580/2	300	7,50	16	96 09 63 75	7.932,33	96 09 63 80	8.023,55
50-90/4	300	0,55	16	96 37 52 74	3.699,93	-	-
50-110/4	300	0,75	16	96 27 61 44	3.930,22	-	-
50-120/2	200	0,75	6/10	96 56 67 25	3.239,18	-	-
50-130/4	300	1,10	16	96 09 65 57	4.400,09	96 09 65 61	4.491,31
50-160/2	300	1,50	16	96 27 61 56	3.597,77	96 27 61 58	3.688,99
50-160/4	300	1,10	16	96 09 65 58	4.885,43	96 09 65 62	4.976,65
50-180/2	200	0,75	6/10	96 27 61 62	3.431,46	-	-
50-190/2	300	1,50	16	96 09 64 73	4.409,54	96 09 64 83	4.500,77
50-190/4	300	2,20	16	96 09 65 59	5.383,50	96 09 65 63	5.474,72
50-230/4	300	3,00	16	96 09 65 60	5.899,80	96 09 65 64	5.991,02
50-240/2	300	2,20	16	96 09 64 74	4.744,23	96 09 64 84	4.835,45
50-290/2	300	3,00	16	96 09 64 75	5.219,94	96 09 64 85	5.311,16
50-360/2	300	4,00	16	96 09 64 76	6.045,30	96 09 64 86	6.136,52
50-430/2	300	5,50	16	96 09 64 77	7.361,51	96 09 64 87	7.452,73
50-440/2	300	7,50	16	96 09 64 78	8.017,46	96 09 64 88	8.108,68
50-570/2	300	11,00	16	96 09 64 79	9.957,98	96 09 64 89	10.049,20
50-710/2	300	15,00	16	96 09 64 80	11.121,29	96 09 64 90	11.212,51
50-830/2	300	18,50	16	96 09 64 81	13.648,11	96 09 64 91	13.739,33
50-900/2	300	22,00	16	96 09 64 82	15.524,82	96 09 64 92	15.616,04

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPED regulated with sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
32-120/4	300	0,55	16	96 37 52 56	3.968,74	-	-
32-200/2	300	1,10	16	96 27 53 88	3.845,95	96 27 53 90	3.937,17
32-230/2	200	0,75	6/10	96 27 53 76	3.571,11	-	-
32-250/2	300	1,50	16	96 27 53 94	4.692,80	-	-
32-320/2	300	2,20	16	96 39 71 05	5.082,52	-	-
32-380/2	300	3,00	16	96 39 71 08	5.588,34	96 39 71 10	5.679,56
32-580/2	300	5,50	16	96 39 71 14	7.138,44	-	-
40-100/4	300	0,55	16	96 37 52 68	4.117,86	-	-
40-130/4	300	0,75	16	96 27 57 72	4.098,25	-	-
40-160/4	300	1,10	16	96 27 57 78	4.828,16	-	-
40-190/2	200	0,75	16	96 27 54 36	3.708,01	96 27 54 38	3.749,29
40-230/2	200	1,10	16	96 27 54 48	3.715,24	-	-
40-240/2	300	2,20	16	96 27 54 60	5.210,31	-	-
40-270/2	200	1,50	16	96 27 54 54	4.511,36	-	-
40-300/2	300	3,00	16	96 27 54 66	5.673,12	-	-
40-580/2	300	7,50	16	-	-	96 39 71 25	8.498,23
50-90/4	300	0,55	16	96 37 52 80	4.253,73	-	-
50-110/4	300	0,75	16	96 27 58 08	4.404,90	96 27 58 10	4.496,12
50-120/2	200	0,75	6/10	96 27 54 84	3.713,86	-	-
50-130/4	300	1,10	16	96 27 58 14	4.874,77	-	-

3

Pump Data				TPED regulated with sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
50-160/2	300	1,50	16	96 27 55 08	4.072,45	96 27 55 10	4.163,67
50-160/4	300	1,10	16	96 27 58 20	5.360,11	-	-
50-180/2	200	0,75	6/10	96 27 54 96	3.906,14	96 27 54 98	3.947,42
50-710/2	300	15,00	16	96 94 57 68	11.595,97	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to +150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 65 to DN 80 – three phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with cast iron housing and cataphoretic coating

Housing made of cast iron EN-GJL 250, with single mechanical seal, **with high efficiency IEC-motor**, form V18, IP55

TPD to 1,5 kW 3 x 220-240V D/380-415V Y in 50Hz, from 2,2 kW 3 x 380-415V D, or 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

TPED series 1000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controler, with integrated motor protection, **without sensor**

TPED series 2000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controler, with integrated motor protection, **with sensor**

Pump Data				TPD Standard			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
65-30/4	200	0,25	6/10	96 40 22 19	1.488,37	-	-
65-60/2	200	0,55	6/10	96 40 92 72	1.490,77	-	-
65-60/4	200	0,55	6/10	96 40 22 48	1.784,35	-	-
65-90/4	300	0,75	16	96 08 74 65	2.213,29	96 08 74 71	2.304,51
65-110/4	300	1,10	16	96 08 74 66	2.298,42	96 08 74 72	2.389,64
65-120/2	200	1,10	6/10	96 40 23 03	1.877,05	96 43 89 96	1.918,33
65-130/4	300	1,50	16	96 08 74 67	2.426,20	96 08 74 73	2.517,43
65-150/4	300	2,20	16	96 08 76 39	2.630,52	96 08 76 42	2.721,74
65-170/4	300	3,00	16	96 08 76 40	2.745,75	96 08 76 43	2.836,97
65-180/2	200	1,50	6/10	96 40 23 31	2.043,19	96 43 89 97	2.084,47
65-190/2	300	2,20	16	96 08 75 61	2.145,35	96 08 75 71	2.236,57
65-230/2	300	3,00	16	96 08 75 62	2.298,42	96 08 75 72	2.389,64
65-240/4	300	4,00	16	96 08 76 41	3.153,53	-	-
65-260/2	300	4,00	16	96 08 75 63	2.630,52	96 08 75 73	2.721,74
65-340/2	300	5,50	16	96 08 75 64	3.532,93	96 08 75 74	3.624,15
65-410/2	300	7,50	16	96 08 75 65	3.703,03	96 08 75 75	3.794,25
65-460/2	300	11,00	16	96 08 75 66	4.980,02	-	-
65-550/2	300	15,00	16	96 08 75 67	5.874,00	-	-
65-660/2	300	18,50	16	96 08 75 68	6.980,56	-	-
65-720/2	300	22,00	16	96 08 75 69	7.801,10	96 08 75 79	7.892,33
65-930/2	300	30,00	16	96 08 75 70	9.086,01	-	-
80-30/4	200	0,37	10	96 40 23 78	2.007,25	-	-
80-30/4	200	0,37	6	96 40 23 77	2.007,25	-	-
80-60/4	200	0,75	10	96 40 24 27	2.291,88	96 43 90 01	2.333,16
80-60/4	200	0,75	6	96 40 24 26	2.291,88	-	-
80-70/4	300	1,10	16	96 10 86 41	2.341,07	96 10 86 49	2.432,29
80-90/4	300	1,50	16	96 10 86 42	2.468,86	96 10 86 50	2.560,08
80-110/4	300	2,20	16	96 10 88 79	2.681,60	96 10 88 85	2.772,82
80-120/2	200	1,50	10	96 40 24 72	2.374,61	-	-
80-120/2	200	1,50	6	96 40 24 71	2.374,61	96 43 90 02	2.415,88
80-140/2	300	2,20	16	96 10 87 67	2.255,77	96 10 87 77	2.346,99
80-150/4	300	3,00	16	96 10 88 80	2.809,22	96 10 88 86	2.900,44
80-170/4	300	4,00	16	96 10 88 81	3.532,93	-	-
80-180/2	300	3,00	16	96 10 87 68	2.468,86	96 10 87 78	2.560,08
80-210/2	300	4,00	16	96 10 87 69	2.770,00	96 10 87 79	2.861,22
80-240/2	300	5,50	16	96 10 87 70	3.575,41	96 10 87 80	3.666,63

Pump Data				TPD Standard			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
80-240/4	300	5,50	16	96 10 88 82	4.045,62	96 10 88 88	4.191,60
80-250/2	300	7,50	16	96 10 87 71	3.788,33	96 10 87 81	3.879,55
80-270/4	300	7,50	16	96 10 88 83	4.363,97	96 10 88 89	4.509,95
80-330/2	300	11,00	16	96 10 87 72	5.107,63	96 10 87 82	5.198,86
80-340/4	300	11,00	16	96 10 88 84	5.182,28	-	-
80-400/2	300	15,00	16	96 10 87 73	5.124,66	96 10 87 83	5.215,88
80-520/2	300	18,50	16	96 10 87 74	6.444,14	96 10 87 84	6.535,36
80-570/2	300	22,00	16	96 10 87 75	8.087,12	-	-
80-700/2	300	30,00	16	96 10 87 76	9.215,34	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol from +2°C; (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to 150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPED controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
65-60/4	200	0,55	6/10	96 54 08 25	3.517,97	-	-
65-90/4	300	0,75	16	96 27 61 74	3.964,10	-	-
65-110/4	300	1,10	16	96 09 67 19	4.480,92	96 09 67 24	4.572,14
65-120/2	200	1,10	6/10	96 27 61 68	3.588,31	96 27 61 70	3.629,59
65-130/4	300	1,50	16	96 09 67 20	5.055,87	96 09 67 25	5.147,09
65-150/4	300	2,20	16	96 09 67 21	5.672,95	96 09 67 26	5.764,17
65-170/4	300	3,00	16	96 09 67 22	6.087,44	96 09 67 27	6.178,66
65-180/2	200	1,50	6/10	96 53 50 06	4.409,72	-	-
65-190/2	300	2,20	16	96 09 66 35	4.752,66	96 09 66 44	4.843,88
65-230/2	300	3,00	16	96 09 66 36	5.241,10	96 09 66 45	5.332,32
65-240/4	300	4,00	16	96 09 67 23	6.739,44	96 09 67 28	6.830,66
65-260/2	300	4,00	16	96 09 66 37	6.058,20	96 09 66 46	6.149,42
65-340/2	300	5,50	16	96 09 66 38	7.430,13	96 09 66 47	7.521,35
65-410/2	300	7,50	16	96 09 66 39	8.102,42	96 09 66 48	8.193,65
65-460/2	300	11,00	16	96 09 66 40	10.043,28	96 09 66 49	10.134,50
65-550/2	300	15,00	16	96 09 66 41	11.802,35	96 09 66 50	11.893,58
65-660/2	300	18,50	16	96 09 66 42	14.116,25	96 09 66 51	14.207,47
65-720/2	300	22,00	16	96 09 66 43	15.834,56	96 09 66 52	15.925,78
80-60/4	200	0,75	10	96 27 61 80	4.042,70	-	-
80-60/4	200	0,75	6	96 27 61 86	4.042,70	-	-
80-70/4	300	1,10	16	96 11 02 23	4.523,57	96 11 02 31	4.614,79
80-90/4	300	1,50	16	96 11 02 24	5.098,52	-	-
80-110/4	300	2,20	16	96 11 02 25	5.724,03	-	-
80-120/2	200	1,50	10	96 40 31 36	4.741,13	-	-
80-120/2	200	1,50	6	96 40 31 35	4.741,13	-	-
80-140/2	300	2,20	16	96 11 01 04	4.863,07	-	-
80-150/4	300	3,00	16	96 11 02 26	6.150,90	-	-
80-170/4	300	4,00	16	96 11 02 27	7.118,84	-	-
80-180/2	300	3,00	16	96 11 01 05	5.411,53	96 11 01 14	5.502,75
80-210/2	300	4,00	16	96 11 01 06	6.197,68	96 11 01 15	6.288,90
80-240/2	300	5,50	16	96 11 01 07	7.472,61	-	-
80-240/4	300	5,50	16	96 11 02 28	8.039,13	-	-
80-250/2	300	7,50	16	96 11 01 08	8.187,73	96 11 01 17	8.278,95
80-270/4	300	7,50	16	96 89 89 93	8.385,00	-	-
80-330/2	300	11,00	16	96 11 01 09	10.170,90	96 11 01 18	10.262,12
80-340/4	300	11,00	16	96 11 02 30	10.403,77	-	-
80-400/2	300	15,00	16	96 11 01 10	11.053,01	-	-
80-520/2	300	18,50	16	96 11 01 11	13.579,83	-	-

3

Pump Data				TPED controlled without sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
80-570/2	300	22,00	16	96 11 01 12	16.120,57	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to 150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

Product Group: CB

Pump Data				TPED regulated with sensor			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
65-60/4	200	0,55	6/10	96 37 52 32	3.992,65	-	-
65-90/4	300	0,75	16	96 27 58 56	4.438,78	96 27 58 58	4.530,00
65-110/4	300	1,10	16	96 27 59 34	4.955,60	-	-
65-120/2	200	1,10	6/10	96 27 55 56	4.062,99	96 27 55 58	4.104,27
65-130/4	300	1,50	16	96 27 58 62	5.530,55	-	-
65-150/4	300	2,20	16	96 27 58 68	6.147,63	96 27 58 70	6.238,85
65-170/4	300	3,00	16	96 27 58 74	6.562,12	-	-
65-180/2	200	1,50	6/10	96 27 55 62	4.884,40	96 27 55 64	4.925,67
65-190/2	300	2,20	16	96 27 55 68	5.227,34	96 27 55 70	5.318,56
65-230/2	300	3,00	16	96 27 55 74	5.715,78	-	-
65-240/4	300	4,00	16	96 27 58 80	7.214,12	-	-
65-260/2	300	4,00	16	96 27 55 80	6.532,88	96 27 55 82	6.624,10
65-340/2	300	5,50	16	96 27 55 86	7.904,81	96 27 55 88	7.996,03
65-410/2	300	7,50	16	96 27 55 92	8.577,10	96 27 55 94	8.668,33
80-60/4	200	0,75	10	96 27 59 16	4.517,38	-	-
80-60/4	200	0,75	6	96 27 59 10	4.517,38	-	-
80-70/4	300	1,10	16	96 27 59 22	4.998,25	96 27 59 24	5.089,47
80-90/4	300	1,50	16	96 27 59 28	5.573,20	96 27 59 30	5.664,42
80-110/4	300	2,20	16	96 27 59 40	6.198,71	96 27 59 42	6.289,93
80-120/2	200	1,50	10	96 27 56 04	5.215,81	96 27 56 06	5.257,09
80-120/2	200	1,50	6	96 27 55 98	5.215,81	-	-
80-140/2	300	2,20	16	96 27 56 10	5.337,75	96 27 56 12	5.428,97
80-150/4	300	3,00	16	96 27 59 46	6.625,58	-	-
80-170/4	300	4,00	16	96 27 59 52	7.593,52	96 27 59 54	7.684,74
80-180/2	300	3,00	16	96 27 56 16	5.886,21	96 27 56 18	5.977,44
80-210/2	300	4,00	16	96 27 56 22	6.672,36	96 27 56 24	6.763,58
80-240/2	300	5,50	16	96 27 56 28	7.947,29	96 27 56 30	8.038,51
80-240/4	300	5,50	16	96 27 59 58	8.513,81	-	-
80-250/2	300	7,50	16	96 27 56 34	8.662,41	96 27 56 36	8.753,63
80-270/4	300	7,50	16	96 94 58 80	8.859,68	-	-
80-330/2	300	11,00	16	96 94 57 49	10.645,58	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol ab +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to 150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE / series 400 PN10: GQQE / series 400 PN25: DQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 100 to DN 150 – three phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with cast iron housing and cataphoretic coating

Housing made of cast iron EN-GJL 250 (PN 16) or ductile cast iron EN-GJS-400-18 (PN 25) with single mechanical seal, **with high efficiency IEC-motor**, form V18, IP55

TPD to 1,5 kW 3 x 220-240V D/380-415V Y in 50Hz, from 2,2 kW 3 x 380-415V D, or 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

TPED series 1000 Serie 1000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **without sensor**

TPED series 2000 Serie 2000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **with sensor**



Pump Data				TPD Standard			
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE-BUBE) ¹⁾ Product-No.	EUR	Seal Refrigeration / Air(GQQE-RUUE) ²⁾ Product-No.	EUR
100-30/4	200	0,55	10	96 40 25 99	2.583,05	-	-
100-30/4	200	0,55	6	96 40 25 97	2.583,05	-	-
100-60/4	200	1,10	10	96 40 26 67	2.729,76	-	-
100-60/4	200	1,10	6	96 40 26 66	2.729,76	-	-
100-70/4	300	1,50	16	96 10 91 03	3.173,14	-	-
100-90/4	300	2,20	16	96 10 93 48	3.441,26	-	-
100-110/4	300	3,00	16	96 10 93 49	3.664,85	96 10 93 58	3.756,07
100-120/2	200	2,20	10	96 41 00 65	2.989,97	96 43 90 13	3.031,25
100-120/2	200	2,20	6	96 41 00 64	2.989,97	96 43 90 12	3.031,25
100-130/4	300	4,00	16	96 10 93 50	4.111,66	96 10 93 59	4.257,65
100-160/2	300	4,00	16	96 10 92 29	2.627,43	96 10 92 37	2.718,65
100-170/4	300	5,50	16	96 10 93 51	4.469,40	96 10 93 60	4.615,38
100-200/2	300	5,50	16	96 10 92 30	3.304,71	96 10 92 38	3.395,93
100-200/4	300	7,50	16	96 10 93 52	4.965,75	96 10 93 61	5.111,73
100-240/2	300	7,50	16	96 10 92 31	3.440,92	96 10 92 39	3.532,14
100-250/2	300	11,00	16	96 10 92 32	5.277,90	96 10 92 40	5.369,12
100-250/4	300	11,00	16	96 10 93 53	5.868,67	96 10 93 62	6.014,65
100-310/2	300	15,00	16	96 10 92 33	5.958,79	96 10 92 41	6.050,01
100-330/4	300	15,00	16	96 10 93 54	6.681,48	-	-
100-360/2	300	18,50	16	96 10 92 34	7.235,79	96 10 92 42	7.327,01
100-370/4	300	18,50	16	96 10 93 55	7.855,11	-	-
100-390/2	300	22,00	16	96 10 92 35	8.257,38	-	-
100-410/4	300	22,00	16	96 10 93 56	8.803,09	96 10 93 65	8.949,08
100-480/2	300	30,00	16	96 10 92 36	9.364,11	-	-
125-110/4	300	4,00	16	96 10 95 79	4.288,64	96 10 95 87	4.434,62
125-130/4	300	5,50	16	96 10 95 80	4.604,58	96 10 95 88	4.750,56
125-160/4	300	7,50	16	96 10 95 81	6.094,49	96 10 95 89	6.240,47
125-210/4	300	11,00	16	96 10 95 82	6.320,31	96 10 95 90	6.466,29
125-250/4	300	15,00	16	96 10 95 83	6.997,41	96 10 95 91	7.143,40
125-320/4	300	18,50	16	96 10 95 84	8.125,81	-	-
125-360/4	300	22,00	16	96 10 95 85	9.028,74	-	-
125-420/4	300	30,00	16	96 10 95 86	9.931,66	96 10 95 94	10.077,65
150-130/4	300	7,50	16	96 10 98 94	6.771,60	96 10 98 99	6.917,58
150-160/4	300	11,00	16	96 10 98 95	7.223,23	96 10 99 00	7.369,21
150-200/4	300	15,00	16	96 10 98 96	7.900,17	96 10 99 01	8.046,15
150-220/4	300	18,50	16	96 10 98 97	8.848,33	-	-
150-250/4	300	22,00	16	96 10 98 98	9.570,49	96 10 99 03	9.716,48

¹⁾ Standard hard-soft shaft seal for water without glycol from +2°C (series 100: BUBE (to +110°C) / series 200: BUBE (to +140°C) / series 300: BAQE (to +120°C) / series 400 PN10: BAQE (to +120°C) / series 400 PN25: DBUE (to 150°C))

²⁾ Standard hard-hard shaft seal for water with glycol from -25 °C to +90 °C (series 100: GQQE / series 200: RUUE / series 300: GQQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 25 to DN 100 – single phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with bronze housing

Housing made of bronze CuSn10, stainless steel impeller 1.4301, with single mechanical seal, motor form V18, IP55

TP with motor 1 x 230 – 240 V D / 240 V Y in 50 Hz, motor protection with integrated thermal switch

TPE series 1000 with IEC-motor 1 x 200 – 240 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **without sensor** for individual speed control in a circulation system an additional temperature sensor required

TPE series 2000 mit IEC-Motor 1 x 200 – 240 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, **with differential pressure sensor**

3

Pump Data				TP Standard	
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Drinking Water (BUBE) ¹⁾ Product-No.	EUR
25-50/2	100	0,12	10	96 40 84 67	644,95
25-90/2	100	0,25	10	96 40 84 68	804,72
32-30/4	200	0,12	6/10	96 40 17 54	872,31
32-50/2	100	0,12	10	96 40 84 69	777,03
32-60/2	200	0,25	6/10	96 40 18 31	979,46
32-90/2	100	0,25	10	96 40 84 70	915,65
32-120/2	200	0,25	6/10	96 40 18 62	1.204,42
32-150/2	200	0,37	6/10	96 46 36 67	1.204,42
32-180/2	200	0,55	6/10	96 46 37 10	1.351,29
32-230/2	200	0,75	6/10	96 46 37 29	1.507,97
40-30/4	200	0,12	6/10	96 40 18 91	1.034,49
40-50/2	100	0,12	6/10	96 40 84 77	972,92
40-60/2	200	0,25	6/10	96 40 19 36	1.100,88
40-60/4	200	0,25	6/10	96 40 19 09	1.312,42
40-90/2	100	0,25	6/10	96 40 84 78	1.145,77
40-90/4	200	0,25	16	96 46 39 14	1.315,00
40-120/2	200	0,37	6/10	96 40 19 69	1.358,34
40-180/2	200	0,55	6/10	96 40 19 98	1.593,10
40-230/2	200	1,1	16	96 46 37 98	1.699,39
50-30/4	200	0,25	6/10	96 40 20 29	1.308,14
50-60/2	200	0,37	6/10	96 40 20 93	1.360,58
50-120/2	200	0,75	6/10	96 40 21 26	1.656,91
50-180/2	200	0,75	6/10	96 40 21 68	1.856,24
65-30/4	200	0,25	6/10	96 40 22 21	1.648,31
65-60/2	200	0,55	6/10	96 40 22 72	1.692,86
65-60/4	200	0,55	6/10	96 40 22 50	1.955,65
65-120/2	200	1,1	6/10	96 40 23 07	2.061,08
65-180/2	200	1,5	6/10	96 40 23 33	2.234,61
80-30/4	200	0,37	10	96 40 23 82	2.188,00
80-60/4	200	0,75	10	96 40 24 30	2.494,48
80-120/2	200	1,5	10	96 40 24 75	2.579,27
100-30/4	200	0,55	10	96 40 26 02	2.788,75
100-60/4	200	1,1	10	96 40 26 70	2.950,24

¹⁾ Standard hard-soft shaft seal BUBE for water without glycol from +2 °C to +110 °C (series 100), or +140 °C (series 200)

further shaft seal variants on request. Additional information please find in data booklet.

DN 25 to DN 100 – three phase (Product Group: CB)

1450 min⁻¹ or 2900 min⁻¹, with bronze housing

Housing made of bronze CuSn10, stainless steel impeller 1.4301, with single mechanical seal, with high efficiency IEC-motor, form V18, IP55

TP to 1,5 kW 3 x 220-240V D/380-415V Y in 50Hz, from 2,2 kW 3 x 380-415V D, or 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

TPE series 1000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, without sensor for individual speed control in a circulation system an additional temperature sensor required

TPE series 2000 3 x 380 – 480 V or 380 – 415 V in 50/60 Hz, with integrated frequency converter and digital PI-controller, with integrated motor protection, with differential pressure sensor

Pump Data				TP Standard	
Size	Series	Motor Power [kW]	Pressure Stage [DN]	Seal Drinking Water (BUBE) ¹⁾ Product-No.	EUR
25-50/2	100	0,12	10	96 40 84 71	600,23
25-90/2	100	0,25	10	96 40 84 72	708,41
32-30/4	200	0,12	6/10	96 40 17 69	827,60
32-50/2	100	0,12	10	96 40 84 73	732,32
32-60/2	200	0,25	6/10	96 40 18 35	883,15
32-90/2	100	0,25	10	96 40 84 74	819,34
32-120/2	200	0,37	6/10	96 40 18 66	1.108,10
32-150/2	200	0,37	6/10	96 46 36 71	1.108,10
32-180/2	200	0,55	6/10	96 46 37 11	1.254,98
32-230/2	200	0,75	6/10	96 46 37 31	1.403,06
40-30/4	200	0,12	6/10	96 40 18 95	989,78
40-50/2	100	0,12	6/10	96 40 84 81	928,21
40-60/2	200	0,25	6/10	96 40 19 40	1.004,57
40-60/4	200	0,25	6/10	96 40 19 13	1.216,11
40-90/2	100	0,25	6/10	96 40 84 82	1.049,46
40-90/4	200	0,25	16	96 49 20 30	1.218,69
40-120/2	200	0,37	6/10	96 40 19 73	1.262,03
40-180/2	200	0,55	6/10	96 40 20 02	1.496,79
40-190/2	200	0,75	16	96 46 37 78	1.545,64
40-230/2	200	1,1	16	96 46 38 00	1.594,48
40-270/2	200	1,5	16	96 46 38 25	1.740,67
50-30/4	200	0,25	6/10	96 40 20 33	1.234,00
50-60/2	200	0,37	6/10	96 40 20 97	1.264,27
50-60/4	200	0,37	6/10	96 40 20 51	1.525,00
50-120/2	200	0,75	6/10	96 40 21 30	1.552,00
50-180/2	200	0,75	6/10	96 40 21 75	1.751,33
65-30/4	200	0,25	6/10	96 40 22 25	1.552,00
65-60/2	200	0,55	6/10	96 40 22 76	1.553,55
65-60/4	200	0,55	6/10	96 40 22 54	1.859,34
65-120/2	200	1,1	6/10	96 40 23 11	1.956,17
65-180/2	200	1,5	6/10	96 40 23 37	2.129,70
80-30/4	200	0,37	10	96 40 23 86	2.091,69
80-60/4	200	0,75	10	96 40 24 34	2.389,57
80-120/2	200	1,5	10	96 40 24 83	2.474,36
80-120/2	200	1,5	6	96 40 49 29	2.474,36
100-30/4	200	0,55	10	96 40 26 14	2.692,44
100-60/4	200	1,1	10	96 40 26 74	2.845,33

¹⁾ Standard hard-soft shaft seal BUBE for water without glycol from +2 °C to +110 °C (series 100), or +140 °C (series 200) further shaft seal variants on request. Additional information please find in data booklet.

Adapter for flanged pumps (Product Group: CB)

Size	Description	Product-No.	EUR
DN 100 / DN 100	Adapter (Kit) DN 100 Installation length 500 mm on DN 100 Installation length 550 mm	96 54 56 10	263,99
DN 80 / DN 100	Adapter (Kit) DN 80 Installation length 440 mm on DN 100 Installation length 550 mm	96 54 56 11	395,99
DN 40 / DN 40	Adapter (Kit) DN 40 Installation length 250 mm on DN 40 Installation length 390 mm	96 09 79 94	226,45
DN 40 / DN 65	Adapter (Kit) DN 40 Installation length 340 mm on DN 65 Installation length 475 mm	96 49 76 47	461,01
DN 50 / DN 65	Adapter (Kit) DN 50 Installation length 340 mm on DN 65 Installation length 475 mm	96 49 76 49	510,66
DN 65 / DN 65	Adapter (Kit) DN 65 Installation length 360 mm on DN 65 Installation length 475 mm	96 49 76 41	202,41
DN 65 / DN 65	Adapter (Kit) DN 65 Installation length 340 mm on DN 65 Installation length 475 mm	96 49 76 43	206,79
DN 80 / DN 80	Adapter (Kit) DN 80 Installation length 440 mm on DN 80 Installation length 525 mm	96 54 56 05	219,98

Size	Description	Product-No.	EUR
DN 80 / DN 80	Adapter (Kit) DN 80 Installation length 360 mm on DN 80 Installation length 525 mm	96 54 55 97	242,00
DN 65 / DN 80	Adapter (Kit) DN 65 Installation length 360 mm on DN 80 Installation length 525 mm	96 49 76 50	582,46

Fitting kit for TPED with two sensors (Product Group: CB)

Part	Definition	Product-No.	EUR
Mounting kit for TPED with 2 sensors	2 pieces. T-piece and screws	96 49 10 10	63,30

Baseplates, consoles (Product Group: CB)

Remark: TP/TPD pumps from motor size 11 kW and up are supplied with base frames

Part	for	Product-No.	EUR
Mounting plate for single pump 2 screws M12x20 for mounting the pump to the mounting plate	Single pumps TP Series 200 32-xx TP 65-180/2 (except TP 32-50 and 32-90), TP 40-xx, 50-xx TP, TP 65-60/2, 65-120/2 TP, TP	96 40 59 15	66,91
Rate brackets for double pumps (2 pieces) 4 screws M16x30 for mounting the pump to the brackets	Double pumps TPD Series 300 TPD 100-250/2, 100-310/2 TPD, TPD 100-360/2, 100-390/2 TPD, TPD 100-70/4, 100-90/4 TPD, TPD 100-110 / 4, TPD 100-130/4, TPD 100-170/4	96 53 62 47	83,58
Rate brackets for double pumps (2 pieces) 4 screws M16x30 for mounting the pump to the brackets	Double pumps TPD Series 300 TPD 80-240/4, 80-270/4 TPD, TPD 80-340/4, TPD 100-200/4, 100-250/4 TPD, TPD 100-330/4, 100-370 TPD / 4, TPD 100-410/4, TPD 125-xx / 4, 125-TPD xx / 6, TPD 150-xx / 4, 150-TPD xx / 6	96 53 62 48	92,39
Mounting plate for single pump 2 screws M16x30 for mounting the pump to the mounting plate	Single pumps Series TP 300 TP 32-xx, 40-xx TP, TP 50-xx, 65-xx TP, TP 80-xx / 2, TP 80-70/4, 80-90/4 TP, TP 80-110 / 4, TP 80-150/4, 80-170/4 TP, TP 100-160/2, 100-200/2 TP, TP 100-240 /	48 50 31	77,00

Motor protector (only for standard motors without frequency converter) (Product Group: CW)

Monitors motor temperature (Tempcon, Pt-sensor and PTC/thermal switch), over/underload, over/undervoltage, insulation resistance, phase failure, current unbalance, number of motor starts, etc.

Type	suitable for	Ampere Range	Product-No.	EUR
MP204	for panel mounting (voltage range 100 - 480 VAC, protection class IP 20	3 - 120 A	96 07 99 27	466,48
Current transformers MP204 3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	200 A	96 09 52 81	279,93
Current transformers MP204 3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	300 A	96 09 52 82	294,27
Current transformers MP204 3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	500 A	96 09 52 83	351,72
Current transformers MP204 3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	750 A	96 09 52 84	366,10
Current transformers MP204 3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	1000 A	96 09 52 85	387,59
Current transformer MP204 1 piece	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	200 A	96 09 52 74	101,44
Current transformer MP204 1 piece	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	500 A	96 09 52 76	127,45
Current transformer MP204 1 piece	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	750 A	96 09 52 77	132,64

Modules for BUS Communication (Product Group: CW)

Type	for	Product-No.	EUR
CIU 100 LON Pump Module	External module to connect E-pumps up to 7.5 kW of LonWorks networks	96 75 37 35	322,82
CIU 150 Profibus-Module	External module to connect E-pumps up to 7.5 kW to Profibus-DP networks	96 75 30 81	322,82
CIU 200 MODbus-Module	External module to connect E-pumps up to 7.5 kW at MODbus RTU networks	96 75 30 82	322,82
CIU 250 GSM-Module	External module to connect E-pumps up to 7.5 kW for wireless communication via SMS / GSM / GPRS	96 78 71 06	581,08
CIU 300 BACnet MS/ TP-Module	External module to connect E-pumps up to 7.5 kW to BACnet MS / TP networks	96 89 37 69	322,82
CIM 100 LONbus-Module	Expansion module for 11-22 kW E-pumps to LonWorks data bus networks	96 82 47 97	156,79
CIM150Profibus-Module	Expansion module for 11-22 kW E-pumps to Profibus-DP databus networks	96 82 47 93	156,79
CIM 200 MODbus-Module	Expansion module for 11-22 kW E-pumps to MODbus RTU data bus networks	96 82 47 96	156,79
CIM 250 GSM-Module	Extension module for 11-22 kW electric pumps for wireless communication via SMS / GSM / GPRS	96 82 47 95	368,94
Antena GSM	GSM quad band antenna for CIM & CIU 250 GSM module	96 09 52 88	84,62
CIM 300 BACnet-Module	Expansion module for 11-22 kW E-pumps to BACnet MS / TP data bus networks	96 89 37 70	156,79

For another controls, like cascade control, bus communication modules, external frequency drives (CUE) please find at chapter „Controls“.

Chapter 4

End-suction pumps with coupling



DN 32 to DN 65 – three phase (Product Group: CW)**2-pole, 2900 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating**

Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring

Standard version with pump, coupling, baseplate, coupling cover and **high efficiency IEC-motor**

NK IP55, to 3 kW 3 x 220 – 240 V D/380-415 V Y in 50 Hz, from 4 kW 3 x 380 – 415 V D/660-690 V Y in 50 Hz, from 3 kW with PTC acc. DIN 44082

NKE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380 – 480 V in 50/60 Hz, to be connected to external sensor

Pump Data

Size	Motor Power [kW]	Pressure Stage [DN]	NK Standard	
			Seal Heating (BAQE) ¹⁾ Product-No.	EUR
32-125.1/100	0,75	16	97 82 77 29	1.680,93
32-125.1/110	0,75	16	97 82 77 30	1.694,28
32-125.1/121	1,5	16	97 82 77 31	1.749,36
32-125.1/140	2,2	16	97 82 77 32	1.775,90
32-125/106	0,75	16	97 82 77 33	1.704,34
32-125/115	1,5	16	97 82 77 34	1.759,41
32-125/130	2,2	16	97 82 77 35	1.786,13
32-125/142	3	16	97 82 77 36	1.906,83
32-160.1/139	1,5	16	97 82 77 37	1.827,02
32-160.1/155	2,2	16	97 82 77 38	1.850,27
32-160.1/169	3	16	97 82 77 39	1.974,11
32-160.1/177	4	16	97 82 77 40	2.101,07
32-160/139	2,2	16	97 82 77 41	1.860,33
32-160/151	3	16	97 82 77 42	1.987,63
32-160/163	4	16	97 82 77 43	2.114,76
32-160/177	5,5	16	97 82 77 44	2.280,48
32-200.1/172	3	16	97 82 77 45	2.007,91
32-200.1/188	4	16	97 82 77 46	2.134,88
32-200.1/205	5,5	16	97 82 77 47	2.300,76
32-200.1/207	7,5	16	97 82 77 48	2.458,56
32-200/176	4	16	97 82 77 49	2.141,47
32-200/190	5,5	16	97 82 77 50	2.314,12
32-200/206	7,5	16	97 82 77 51	2.468,79
32-200/219	11	16	97 82 77 52	2.872,28
32-250/199	5,5	16	97 82 77 53	2.571,85
32-250/219	7,5	16	97 82 77 54	2.734,76
32-250/244	11	16	97 82 77 55	3.163,65
32-250/262	15	16	97 82 77 56	3.542,74
40-125/105	1,5	16	97 82 77 57	1.799,98
40-125/116	2,2	16	97 82 77 58	1.826,53
40-125/127	3	16	97 82 77 59	1.943,77
40-125/139	4	16	97 82 77 60	2.074,20
40-125/142	5,5	16	97 82 77 61	2.243,38
40-160/144	4	16	97 82 77 62	2.128,12
40-160/158	5,5	16	97 82 77 63	2.297,30
40-160/172	7,5	16	97 82 77 64	2.451,80
40-160/177	11	16	97 82 77 65	2.855,63
40-200/172	5,5	16	97 82 77 66	2.361,44
40-200/188	7,5	16	97 82 77 67	2.509,19
40-200/206	11	16	97 82 77 68	2.916,31
40-200/219	15	16	97 82 77 69	3.275,94
40-250/211	11	16	97 82 77 70	3.173,05
40-250/230	15	16	97 82 77 71	3.548,35
40-250/245	18,5	16	97 82 77 72	3.762,05
40-250/255	22	16	97 82 77 73	4.316,59
40-250/260	30	16	97 82 77 74	5.253,02
40-315/273	22	16	97 82 77 75	4.659,56
40-315/298	30	16	97 82 77 76	5.604,07
40-315/318	37	16	97 82 77 77	6.064,13
40-315/336	45	16	97 82 77 78	7.843,99
50-125/111	3	16	97 82 77 79	2.029,84
50-125/121	4	16	97 82 77 80	2.160,27

Pump Data			NK Standard	
Size	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
50-125/135	5,5	16	97 82 77 81	2.372,82
50-125/144	7,5	16	97 82 77 82	2.490,22
50-160/136	5,5	16	97 82 77 83	2.374,80
50-160/150	7,5	16	97 82 77 84	2.492,20
50-160/167	11	16	97 82 77 85	2.896,03
50-160/177	15	16	97 82 77 86	3.259,12
50-200/181	11	16	97 82 77 87	2.919,61
50-200/198	15	16	97 82 77 88	3.282,70
50-200/210	18,5	16	97 82 77 89	3.488,49
50-200/219	22	16	97 82 77 90	4.010,21
50-250/205	15	16	97 82 77 91	3.410,82
50-250/222	18,5	16	97 82 77 92	3.613,15
50-250/233	22	16	97 82 77 93	4.138,34
50-250/254	30	16	97 82 77 94	5.029,91
50-250/263	37	16	97 82 77 95	5.369,43
50-315/267	30	16	97 82 77 96	5.688,17
50-315/285	37	16	97 82 77 97	6.043,19
50-315/300	45	16	97 82 77 98	6.981,76
50-315/321	55	16	97 82 77 99	8.778,61
65-125/120-110	4	16	97 82 78 00	2.246,35
65-125/127	5,5	16	97 82 78 01	2.467,63
65-125/137	7,5	16	97 82 78 02	2.586,19
65-125/144	11	16	97 82 78 03	3.007,82
65-160/143	7,5	16	97 82 78 04	2.602,52
65-160/157	11	16	97 82 78 05	3.020,85
65-160/173	15	16	97 82 78 06	3.400,11
65-160/177	18,5	16	97 82 78 07	3.611,34
65-200/162	11	16	97 82 78 08	3.156,72
65-200/177	15	16	97 82 78 09	3.534,99
65-200/190	18,5	16	97 82 78 10	3.750,34
65-200/198	22	16	97 82 78 11	4.302,40
65-200/217	30	16	97 82 78 12	5.254,34
65-200/219	37	16	97 82 78 13	5.608,86
65-250/223	30	16	97 82 78 14	5.599,62
65-250/238	37	16	97 82 78 15	5.948,70
65-250/251	45	16	97 82 78 16	6.889,09
65-250/269	55	16	97 82 78 17	8.214,67
65-250/270	75	16	97 82 78 18	10.172,95
65-315/272	55	16	97 82 78 19	8.577,77
65-315/295	75	16	97 82 78 20	10.415,51
65-315/308	90	16	97 82 78 21	12.045,31
65-315/320	110	16	97 82 78 22	14.741,82

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)
Further shaft seal variants on request. Additional information please find in data booklet.

DN 80 to DN 100 – three phase (Product Group: CW)**2-pole, 2900 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating**

Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring

Standard version with pump, coupling, baseplate, coupling cover and **high efficiency IEC-motor**

NK IP55, to 3 kW 3 x 220 – 240 V D/380-415 V Y in 50 Hz, from 4 kW 3 x 380 – 415 V D/660-690 V Y in 50 Hz, from 3 kW with PTC acc. DIN 44082

NKE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380 – 480 V in 50/60 Hz, to be connected to external sensor

Pump Data			NK Standard	
Size	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
80-160/147-127	11	16	97 82 78 23	3.013,93
80-160/151	15	16	97 82 78 24	3.370,43
80-160/161	18,5	16	97 82 78 25	3.579,51
80-160/167	22	16	97 82 78 26	4.101,23
80-160/177	30	16	97 82 78 27	4.989,52
80-200/171	22	16	97 82 78 28	4.384,52
80-200/188	30	16	97 82 78 29	5.276,10
80-200/200	37	16	97 82 78 30	5.618,91
80-200/211	45	16	97 82 78 31	6.511,65
80-200/222	55	16	97 82 78 32	7.783,97
80-250/220	45	16	97 82 78 33	6.975,82
80-250/234	55	16	97 82 78 34	8.307,18
80-250/257	75	16	97 82 78 35	9.628,96
80-250/270	90	16	97 82 78 36	10.912,49
80-315/278	90	16	97 82 78 37	11.284,66
80-315/295	110	16	97 82 78 38	14.840,10
80-315/310	132	16	97 82 78 39	16.630,18
80-315/328	160	16	97 82 78 40	18.933,91
100-160/160-156	22	16	97 82 78 41	4.319,88
100-160/169	30	16	97 82 78 42	5.232,57
100-160/176	37	16	97 82 78 43	5.578,85
100-200/170	30	16	97 82 78 44	5.669,21
100-200/181	37	16	97 82 78 45	6.020,10
100-200/192	45	16	97 82 78 46	6.972,36
100-200/203	55	16	97 82 78 47	8.307,18
100-200/219	75	16	97 82 78 48	9.628,96
100-250/205	55	16	97 82 78 49	8.462,34
100-250/229	75	16	97 82 78 50	9.777,04
100-250/242	90	16	97 82 78 51	11.060,40
100-250/258	110	16	97 82 78 52	15.293,22
100-250/270	132	16	97 82 78 53	17.267,66
100-315/269	110	16	97 82 78 54	16.273,02
100-315/284	132	16	97 82 78 55	17.235,51
100-315/301	160	16	97 82 78 56	19.667,03
100-315/322	200	16	97 82 78 57	22.234,59

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)

Further shaft seal variants on request. Additional information please find in data booklet.

DN 125 to DN 150 – three phase (Product Group: CW)**2-pole, 2900 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating**

Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring

Standard version with pump, coupling, baseplate, coupling cover and **high efficiency IEC-motor**

NK IP55, to 3 kW 3 x 220 – 240 V D/380-415 V Y in 50 Hz, from 4 kW 3 x 380 – 415 V D/660-690 V Y in 50 Hz, from 3 kW with PTC acc. DIN 44082

NKE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380 – 480 V in 50/60 Hz, to be connected to external sensor

Pump Data			NK Standard	
Size	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
125-200/196-166	45	16	97 82 78 58	7.381,13
125-200/196-188	55	16	97 82 78 59	8.715,62
125-200/209	75	16	97 82 78 60	10.401,98
125-200/219	90	16	97 82 78 61	11.615,11
125-200/226	110	16	97 82 78 62	15.761,85
125-250/222	90	16	97 82 78 63	11.874,32

Pump Data				NK Standard	
Size	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE) ¹⁾ Product-No.	EUR	
125-250/236	110	16	97 82 78 64	15.626,31	
125-250/249	132	16	97 82 78 65	17.005,64	
125-250/263	160	16	97 82 78 66	19.425,29	
125-250/269	200	16	97 82 78 67	22.006,70	
125-315/262	132	16	97 82 78 68	17.907,78	
125-315/277	160	16	97 82 78 69	20.309,78	
125-315/297	200	16	97 82 78 70	22.891,03	
125-315/317	250	16	97 82 78 71	31.385,69	
150-200/216-176	75	10	97 82 78 72	11.453,51	
150-200/218-202	90	10	97 82 78 73	12.666,47	
150-200/224	110	10	97 82 78 74	16.813,38	
150-250/230	132	10	97 82 78 75	19.534,12	
150-250/245	160	10	97 82 78 76	21.946,02	
150-250/260	200	10	97 82 78 77	24.606,91	
150-250/275	250	10	97 82 78 78	33.156,64	

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)
Further shaft seal variants on request. Additional information please find in data booklet.

DN 32 to DN 65 – three phase (Product Group: CW)

4-pole, 1450 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating

Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring

Standard version with pump, coupling, baseplate, coupling cover and **high efficiency IEC-motor**

NK IP55, to 3 kW 3 x 220 – 240 V D/380-415 V Y in 50 Hz, from 4 kW 3 x 380 – 415 V D/660-690 V Y in 50 Hz, from 3 kW with PTC acc. DIN 44082

NKE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380 – 480 V in 50/60 Hz, to be connected to external sensor

Pump Data				NK Standard	
Size	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE) ¹⁾ Product-No.	EUR	
32-125.1/121	0,25	16	97 82 77 20	1.570,78	
32-125.1/139	0,25	16	97 82 80 51	1.570,78	
32-125.1/140	0,37	16	97 82 80 52	1.586,11	
32-125/115	0,25	16	97 82 80 53	1.581,33	
32-125/130	0,25	16	97 82 80 54	1.581,33	
32-125/142	0,37	16	97 82 80 55	1.596,17	
32-160.1/137	0,25	16	97 82 80 56	1.655,86	
32-160.1/155	0,25	16	97 82 80 57	1.655,86	
32-160.1/172	0,37	16	97 82 80 58	1.670,21	
32-160.1/177	0,55	16	97 82 80 59	1.710,94	
32-160/138	0,25	16	97 82 80 60	1.662,13	
32-160/154	0,37	16	97 82 80 61	1.676,97	
32-160/172	0,55	16	97 82 80 62	1.720,99	
32-160/173	0,75	16	97 82 80 63	1.762,22	
32-200.1/175	0,37	16	97 82 80 68	1.704,01	
32-200.1/196	0,55	16	97 82 80 69	1.747,87	
32-200.1/207	0,75	16	97 82 80 70	1.789,26	
32-200/184	0,55	16	97 82 80 71	1.754,63	
32-200/197	0,75	16	97 82 80 72	1.796,02	
32-200/216	1,1	16	97 82 80 73	1.832,96	
32-200/219	1,5	16	97 82 80 74	1.861,15	
32-250/206	0,75	16	97 82 80 64	2.030,34	
32-250/236	1,1	16	97 82 80 65	2.068,43	
32-250/260	1,5	16	97 82 80 66	2.097,12	
32-250/262	2,2	16	97 82 80 67	2.174,95	
40-125/116	0,25	16	97 82 80 75	1.621,73	
40-125/130	0,37	16	97 82 80 76	1.636,57	
40-125/142	0,55	16	97 82 80 77	1.683,89	
40-160/134	0,37	16	97 82 80 78	1.693,95	
40-160/151	0,55	16	97 82 80 79	1.737,65	
40-160/162	0,75	16	97 82 80 80	1.779,20	

Pump Data			NK Standard	
Size	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
40-160/177	1,1	16	97 82 80 81	1.816,14
40-200/177	0,75	16	97 82 80 82	1.836,42
40-200/198	1,1	16	97 82 80 83	1.876,65
40-200/217	1,5	16	97 82 80 84	1.905,02
40-200/219	2,2	16	97 82 80 85	1.983,84
40-250/219	1,5	16	97 82 80 86	2.108,33
40-250/245	2,2	16	97 82 80 87	2.190,94
40-250/260	3	16	97 82 80 88	2.259,70
40-315/283	3	16	97 82 80 89	2.638,96
40-315/305	4	16	97 82 80 90	2.772,69
40-315/334	5,5	16	97 82 80 91	3.127,70
40-315/344	7,5	16	97 82 80 92	3.361,03
50-125/113	0,37	16	97 82 80 93	1.712,42
50-125/129	0,55	16	97 82 80 94	1.761,39
50-125/138	0,75	16	97 82 80 95	1.802,95
50-125/144	1,1	16	97 82 80 96	1.841,20
50-160/131	0,55	16	97 82 80 97	1.778,21
50-160/139	0,75	16	97 82 80 98	1.819,60
50-160/158	1,1	16	97 82 80 99	1.853,24
50-160/175	1,5	16	97 82 81 00	1.881,44
50-160/177	2,2	16	97 82 81 01	1.963,55
50-200/171	1,1	16	97 82 81 02	1.883,58
50-200/188	1,5	16	97 82 81 03	1.908,31
50-200/210	2,2	16	97 82 81 04	1.987,30
50-200/219	3	16	97 82 81 05	2.050,62
50-250/221	2,2	16	97 82 81 06	2.115,42
50-250/241	3	16	97 82 81 07	2.175,28
50-250/263	4	16	97 82 81 08	2.309,17
50-315/277	4	16	97 82 81 09	2.835,68
50-315/303	5,5	16	97 82 81 10	3.190,69
50-315/331	7,5	16	97 82 81 11	3.424,02
50-315/344	11	16	97 82 81 12	3.973,11
65-125/122	0,55	16	97 82 81 13	1.845,49
65-125/130	0,75	16	97 82 81 14	1.894,46
65-125/144	1,1	16	97 82 81 15	1.929,09
65-160/135	0,75	16	97 82 81 16	1.911,78
65-160/149	1,1	16	97 82 81 17	1.953,33
65-160/165	1,5	16	97 82 81 18	1.982,02
65-160/177	2,2	16	97 82 81 19	2.063,48
65-200/170	1,5	16	97 82 81 20	2.091,35
65-200/189	2,2	16	97 82 81 21	2.170,99
65-200/205	3	16	97 82 81 22	2.236,62
65-200/219	4	16	97 82 81 23	2.383,37
65-250/215	3	16	97 82 81 24	2.602,68
65-250/232	4	16	97 82 81 25	2.737,89
65-250/254	5,5	16	97 82 81 26	3.070,65
65-250/270	7,5	16	97 82 81 27	3.218,72
65-315/261	5,5	16	97 82 81 28	3.198,28
65-315/282	7,5	16	97 82 81 29	3.349,48
65-315/314	11	16	97 82 81 30	3.869,23
65-315/320	15	16	97 82 81 31	4.050,61

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)
Further shaft seal variants on request. Additional information please find in data booklet.

DN 80 to DN 150 – three phase (Product Group: CW)**4-pole, 1450 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating**

Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring

Standard version with pump, coupling, baseplate, coupling cover and **high efficiency IEC-motor**

NK IP55, to 3 kW 3 x 220 – 240 V D/380-415 V Y in 50 Hz, from 4 kW 3 x 380 – 415 V D /660-690 V Y in 50 Hz, from 3 kW with thermistor (PTC) acc. DIN 44082

NKE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380 – 480 V in 50/60 Hz, to be connected to external sensor

Pump Data			NK Standard	
Size	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
80-160/146	1,5	16	97 82 81 32	1.999,34
80-160/161	2,2	16	97 82 81 33	2.081,62
80-160/175	3	16	97 82 81 34	2.144,94
80-160/177	4	16	97 82 81 35	2.275,37
80-200/164	2,2	16	97 82 81 36	2.368,20
80-200/179	3	16	97 82 81 37	2.428,22
80-200/196	4	16	97 82 81 38	2.565,25
80-200/214	5,5	16	97 82 81 39	2.874,59
80-200/222	7,5	16	97 82 81 40	3.019,04
80-250/225	5,5	16	97 82 81 41	3.119,13
80-250/247	7,5	16	97 82 81 42	3.286,66
80-250/270	11	16	97 82 81 43	3.832,62
80-315/280	11	16	97 82 81 44	3.953,65
80-315/305	15	16	97 82 81 45	4.131,57
80-315/320	18,5	16	97 82 81 46	4.711,67
80-315/334	22	16	97 82 81 47	4.911,36
80-400/347	18,5	16	97 82 81 48	6.062,31
80-400/365	22	16	97 82 81 49	6.434,48
80-400/397	30	16	97 82 81 50	7.297,37
80-400/419	37	16	97 82 81 51	8.084,73
80-400/438	45	16	97 82 81 52	8.740,85
100-160/160-144	2,2	16	97 82 81 53	2.248,49
100-160/165	3	16	97 82 81 54	2.322,03
100-160/176	4	16	97 82 81 55	2.452,46
100-200/178	4	16	97 82 81 56	2.787,20
100-200/195	5,5	16	97 82 81 57	3.119,13
100-200/211	7,5	16	97 82 81 58	3.275,61
100-200/219	11	16	97 82 81 59	3.832,62
100-250/215	7,5	16	97 82 81 60	3.420,22
100-250/245	11	16	97 82 81 61	3.976,90
100-250/266	15	16	97 82 81 62	4.168,68
100-250/270	18,5	16	97 82 81 63	4.781,75
100-315/279	15	16	97 82 81 64	4.495,66
100-315/295	18,5	16	97 82 81 65	5.079,22
100-315/312	22	16	97 82 81 66	5.275,44
100-315/334	30	16	97 82 81 67	6.118,71
100-400/351	22	16	97 82 81 68	6.601,52
100-400/387	30	16	97 82 81 69	7.466,38
100-400/410	37	16	97 82 81 70	8.247,98
100-400/432	45	16	97 82 81 71	8.903,76
100-400/438	55	16	97 82 81 72	10.292,99
125-200/196-172	5,5	16	97 82 81 73	3.548,35
125-200/201	7,5	16	97 82 81 74	3.697,57
125-200/221	11	16	97 82 81 75	4.267,78
125-200/226	15	16	97 82 81 76	4.448,01
125-250/220	11	16	97 82 81 77	4.176,10
125-250/236	15	16	97 82 81 78	4.350,55
125-250/249	18,5	16	97 82 81 79	4.930,81
125-250/262	22	16	97 82 81 80	5.133,80
125-250/269	30	16	97 82 81 81	5.970,47
125-315/275	18,5	16	97 82 81 82	6.249,14
125-315/290	22	16	97 82 81 83	6.397,21

Pump Data			NK Standard	
Size	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
125-315/317	30	16	97 82 81 84	7.262,08
125-315/336	37	16	97 82 81 85	8.049,45
125-315/338	45	16	97 82 81 86	8.705,39
125-400/345	37	16	97 82 81 87	8.283,27
125-400/368	45	16	97 82 81 88	8.935,26
125-400/392	55	16	97 82 81 89	10.324,32
125-400/433	75	16	97 82 81 90	11.953,47
125-400/438	90	16	97 82 81 91	13.191,98
125-500/406	55	16	97 82 81 92	12.339,32
125-500/447	75	16	97 82 81 93	14.055,70
125-500/473	90	16	97 82 81 94	15.364,13
125-500/500	110	16	97 82 81 95	20.243,49
125-500/526	132	16	97 82 81 96	20.811,88
125-500/548	160	16	97 82 81 97	22.178,36
150-200/210-158	7,5	10	97 82 81 98	4.374,30
150-200/218-208	11	10	97 82 81 99	5.221,36
150-200/224	15	10	97 82 82 00	5.409,50
150-250/226	15	10	97 82 82 01	5.608,69
150-250/238	18,5	10	97 82 82 02	6.141,13
150-250/251	22	10	97 82 82 03	6.395,07
150-250/271	30	10	97 82 82 04	7.209,97
150-250/284	37	10	97 82 82 05	8.192,90
150-250/286	45	10	97 82 82 06	8.865,51
150-315/275	37	10	97 82 82 08	8.412,87
150-315/291	45	10	97 82 82 09	9.070,96
150-315/310	55	10	97 82 82 10	10.454,09
150-315/336	75	10	97 82 82 11	12.083,24
150-315/338	90	10	97 82 82 12	13.325,71
150-400/343	55	10	97 82 82 13	11.263,72
150-400/375	75	10	97 82 82 14	12.999,06
150-400/394	90	10	97 82 82 15	14.309,96
150-400/412	110	10	97 82 82 16	19.234,02
150-400/431	132	10	97 82 82 17	19.797,62
150-400/438	160	10	97 82 82 18	21.153,05
150-500/459	132	10	97 82 82 19	21.041,09
150-500/489	160	10	97 82 82 20	22.386,78
150-500/521	200	10	97 82 82 21	24.475,98

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)
Further shaft seal variants on request. Additional information please find in data booklet.

Motor protector (only for standard motors without frequency converter) (Product Group: CW)

Monitors motor temperature (Tempcon, Pt-sensor and PTC/thermal switch), over/underload, over/undervoltage, insulation resistance, phase failure, current unbalance, number of motor starts, etc.

Type	suitable for	Ampere Range	Product-No.	EUR
MP204	for panel mounting (voltage range 100 - 480 VAC, protection class IP 20	3-120 A	96 07 99 27	466,48
Current transformers MP204 3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	200 A	96 09 52 81	279,93
Current transformers MP204 3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	300 A	96 09 52 82	294,27
Current transformers MP204 3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	500 A	96 09 52 83	351,72
Current transformers MP204 3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	750 A	96 09 52 84	366,10
Current transformers MP204 3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	1000 A	96 09 52 85	387,59
Current transformer MP204 1 piece	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	200 A	96 09 52 74	101,44
Current transformer MP204 1 piece	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	500 A	96 09 52 76	127,45
Current transformer MP204 1 piece	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	750 A	96 09 52 77	132,64

For another controls, like cascade control, bus communication modules, external frequency drives (CUE) please find at chapter „Controls“.

Modules for BUS Communication (Product Group: CW)

Type	Description	Product-No.	EUR
CIU 100 LON Pump Module	External module to connect E-pumps up to 7.5 kW of LonWorks networks	96 75 37 35	322,82
CIU 150 Profibus-Module	External module to connect E-pumps up to 7.5 kW to Profibus-DP networks	96 75 30 81	322,82
CIU 200 MODbus-Module	External module to connect E-pumps up to 7.5 kW at MODbus RTU networks	96 75 30 82	322,82
CIU 250 GSM-Module	External module to connect E-pumps up to 7.5 kW for wireless communication via SMS / GSM / GPRS	96 78 71 06	581,08
CIU 300 _x0007_BACnet MS/ TP-Module	External module to connect E-pumps up to 7.5 kW to BACnet MS / TP networks	96 89 37 69	322,82
CIM 100 LONbus-Module	Expansion module for 11-22 kW electric pump to LONWorks data bus networks	96 82 47 97	156,79
CIM150Profibus-Module	Expansion module for 11-22 kW electric pump to Profibus-DP data bus networks	96 82 47 93	156,79
CIM 200 MODbus-Module	Expansion module for 11-22 kW electric pump to MODbus RTU data bus networks	96 82 47 96	156,79
CIM 250 GSM-Module	Extension module for 11-22 kW electric pumps for wireless communication via SMS / GSM / GPRS	96 82 47 95	368,94
GSM Antenna	GSM quad band antenna for CIM & CIU 250 GSM module	96 09 52 88	84,62
CIM 300 BACnet-Module	Expansion module for 11-22 kW E-pumps to BACnet MS / TP data bus networks	96 89 37 70	156,79

For another controls, like cascade control, bus communication modules, external frequency drives (CUE) please find at chapter „Controls“.

Chapter 5

Close coupled end-suction pumps



NB, DN 32 to DN 40 – three phase (Product Group: CW)**2-pole, 2900 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating**Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring. Standard version: pump with close coupled **high efficiency IEC-motor**.

NB IP55, to 3 kW 3 x 220-240V D/380-415V Y in 50Hz, from 4 kW 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

NBE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380 – 480 V in 50/60 Hz, to be connected to external sensor

Size	Motor Power [kW]	Pressure Stage [DN]	NB Standard		NBE controlled without sensor	
			Seal Heating (BAQE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
32-125.1/100	0,75	16	97 83 67 18	849,70	-	-
32-125.1/140	2,2	16	97 83 67 21	940,22	96 12 53 02	2.091,18
32-125/106	1,1	16	97 83 67 08	877,56	-	-
32-125/115	1,5	16	97 83 67 09	923,73	96 53 89 81	1.893,31
32-125/130	2,2	16	97 83 67 11	943,85	96 53 89 82	2.094,81
32-125/142	3	16	97 83 67 12	1.085,99	96 53 89 83	2.436,47
32-160.1/139	1,5	16	97 83 67 10	964,46	95 10 86 08	1.934,04
32-160.1/155	2,2	16	97 83 67 22	996,78	96 53 89 86	2.147,74
32-160.1/169	3	16	97 83 67 23	1.149,47	96 53 89 87	2.499,95
32-160.1/177	4	16	97 83 67 60	1.321,46	95 10 86 10	2.846,72
32-160/139	2,2	16	97 83 67 63	1.010,47	95 10 86 15	2.161,43
32-160/151	3	16	97 83 67 13	1.160,03	96 53 89 89	2.510,51
32-160/163	4	16	97 83 67 14	1.305,13	96 12 53 03	2.830,40
32-160/177	5,5	16	97 83 67 15	1.557,75	96 53 89 90	3.285,84
32-200.1/172	3	16	97 83 67 61	1.235,55	95 10 86 12	2.586,03
32-200.1/188	4	16	97 83 67 24	1.389,89	96 53 89 91	2.915,15
32-200.1/205	5,5	16	97 83 67 25	1.614,31	96 53 89 92	3.342,39
32-200.1/207	7,5	16	97 83 67 62	1.757,11	95 10 86 13	3.843,01
32-200/176	4	16	97 83 67 64	1.400,77	95 10 86 17	2.926,04
32-200/190	5,5	16	97 83 67 16	1.624,70	96 12 53 04	3.352,78
32-200/206	7,5	16	97 83 67 17	1.750,02	96 12 53 05	3.835,92
32-200/219	11	16	97 83 67 65	2.237,77	95 10 86 18	4.935,43
32-250/199	5,5	16	97 83 67 66	1.770,46	95 10 86 19	3.498,55
32-250/219	7,5	16	97 83 67 67	1.899,08	95 10 86 20	3.984,98
32-250/244	11	16	97 83 67 68	2.326,98	95 10 86 21	5.024,64
32-250/262	15	16	97 83 67 69	2.574,15	95 10 86 22	5.726,92
40-125/105	1,5	16	97 83 67 26	1.001,40	96 53 89 94	1.970,97
40-125/116	2,2	16	97 83 67 27	1.024,98	96 53 89 95	2.175,94
40-125/127	3	16	97 83 67 28	1.177,67	96 12 53 06	2.528,15
40-125/139	4	16	97 83 67 29	1.330,03	96 53 89 96	2.855,30
40-125/142	5,5	16	97 83 67 70	1.528,23	95 10 86 23	3.256,32
40-160/144	4	16	97 83 67 71	1.341,24	95 10 86 25	2.866,51
40-160/158	5,5	16	97 83 67 30	1.607,05	96 12 53 07	3.335,14
40-160/172	7,5	16	97 83 67 31	1.753,31	96 53 89 98	3.839,22
40-160/177	11	16	97 83 67 72	2.229,36	95 10 86 26	4.927,02
40-200/172	5,5	16	97 83 67 73	1.667,07	95 10 86 27	3.395,16
40-200/188	7,5	16	97 83 67 74	1.812,51	95 10 86 28	3.898,41
40-200/206	11	16	97 83 67 32	2.251,95	96 53 90 22	4.949,61
40-200/219	15	16	97 83 67 75	2.470,93	95 10 86 29	5.623,70
40-250/211	11	16	97 83 67 76	2.308,35	95 10 86 30	5.006,01
40-250/230	15	16	97 83 67 33	2.538,37	96 53 90 23	5.691,14
40-250/245	18,5	16	97 83 67 34	2.766,26	96 53 90 24	6.461,52
40-250/255	22	16	97 83 67 35	3.148,31	96 53 90 25	7.376,19
40-250/260	30	16	97 83 67 77	3.993,56	-	-
40-315/273	22	16	97 83 67 78	3.548,84	-	-
40-315/298	30	16	97 83 67 79	4.415,36	-	-
40-315/318	37	16	97 83 67 80	4.992,98	-	-
40-315/336	45	16	97 83 67 81	6.534,57	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)
Further shaft seal variants on request. Additional information please find in data booklet.

NB, DN 50 to DN 65 – three phase (Product Group: CW)**2-pole, 2900 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating**

Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring

Standard version: pump with close coupled **high efficiency IEC-motor**.

NB IP55, to 3 kW 3 x 220-240V D/380-415V Y in 50Hz, from 4 kW 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

NBE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380 – 480 V in 50/60 Hz, to be connected to external sensor

Size	Motor Power [kW]	Pressure Stage [DN]	NB Standard		NBE controlled without sensor	
			Seal Heating (BAQE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
50-125/111	3	16	97 83 67 36	1.248,24	96 53 90 03	2.598,72
50-125/121	4	16	97 83 67 37	1.375,71	96 53 90 04	2.900,97
50-125/135	5,5	16	97 83 67 38	1.628,16	96 12 53 09	3.356,24
50-125/144	7,5	16	97 83 67 39	1.764,03	96 53 90 05	3.849,94
50-160/136	5,5	16	97 83 67 82	1.667,07	95 10 86 32	3.395,16
50-160/150	7,5	16	97 83 67 40	1.816,96	96 12 53 10	3.902,87
50-160/167	11	16	97 83 67 41	2.283,78	96 53 90 33	4.981,44
50-160/177	15	16	97 83 67 83	2.470,93	95 10 86 33	5.623,70
50-200/181	11	16	97 83 67 84	2.408,11	95 10 86 34	5.105,77
50-200/198	15	16	97 83 67 42	2.587,84	96 53 90 35	5.740,61
50-200/210	18,5	16	97 83 67 43	2.813,91	96 53 90 36	6.509,18
50-200/219	22	16	97 83 67 44	3.206,69	96 53 90 38	7.434,56
50-250/205	15	16	97 83 67 85	2.689,25	95 10 86 35	5.842,02
50-250/222	18,5	16	97 83 67 86	2.919,11	95 10 86 36	6.614,38
50-250/233	22	16	97 83 67 45	3.305,46	96 53 90 39	7.533,33
50-250/254	30	16	97 83 67 46	4.093,98	-	-
50-250/263	37	16	97 83 67 87	5.033,05	-	-
50-315/267	30	16	97 83 67 88	4.493,35	-	-
50-315/285	37	16	97 83 67 89	5.033,71	-	-
50-315/300	45	16	97 83 67 90	5.839,21	-	-
50-315/321	55	16	97 83 67 91	7.232,56	-	-
65-125/120-110	4	16	97 83 67 48	1.428,64	96 53 90 09	2.953,90
65-125/127	5,5	16	97 83 67 47	1.677,63	96 12 53 11	3.405,71
65-125/137	7,5	16	97 83 67 49	1.859,51	96 12 53 12	3.945,41
65-125/144	11	16	97 83 67 92	2.328,79	95 10 86 37	5.026,45
65-160/143	7,5	16	97 83 67 93	1.931,73	95 10 86 38	4.017,63
65-160/157	11	16	97 83 67 50	2.400,19	96 53 90 41	5.097,85
65-160/173	15	16	97 83 67 51	2.548,93	96 53 90 42	5.701,69
65-160/177	18,5	16	97 83 67 94	2.799,89	95 10 86 39	6.495,16
65-200/162	11	16	97 83 67 95	2.527,16	95 10 86 40	5.224,82
65-200/177	15	16	97 83 67 96	2.709,20	95 10 86 41	5.861,97
65-200/190	18,5	16	97 83 67 52	2.923,40	96 53 90 43	6.618,66
65-200/198	22	16	97 83 67 53	3.312,71	96 53 90 44	7.540,59
65-200/217	30	16	97 83 67 54	4.111,62	-	-
65-200/219	37	16	97 83 67 97	5.065,04	-	-
65-250/223	30	16	97 83 67 98	4.209,40	-	-
65-250/238	37	16	97 83 67 99	4.729,97	-	-
65-250/251	45	16	97 83 68 00	5.522,45	-	-
65-250/269	55	16	97 83 68 01	6.460,04	-	-
65-250/270	75	16	97 83 68 02	8.064,29	-	-
65-315/272	55	16	97 83 68 03	6.559,30	-	-
65-315/295	75	16	97 83 68 04	8.163,72	-	-
65-315/308	90	16	97 83 68 05	9.337,93	-	-
65-315/320	110	16	97 83 68 06	12.312,28	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)
Further shaft seal variants on request. Additional information please find in data booklet.

NB, DN 80 to DN 150 – three phase (Product Group: CW)**2-pole, 2900 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating**

Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring

Standard version: pump with close coupled **high efficiency IEC-motor**.

NB IP55, to 3 kW 3 x 220-240V D/380-415V Y in 50Hz, from 4 kW 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

NBE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380 – 480 V in 50/60 Hz, to be connected to external sensor

Size	Motor Power [kW]	Pressure Stage [DN]	NB Standard		NBE controlled without sensor	
			Seal Heating (BAQE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
80-160/147-127	11	16	97 83 67 55	2.509,52	96 53 90 48	5.207,18
80-160/151	15	16	97 83 67 56	2.679,69	96 53 90 49	5.832,45
80-160/161	18,5	16	97 83 67 57	2.898,66	96 53 90 50	6.593,93
80-160/167	22	16	97 83 67 58	3.394,01	96 53 90 51	7.621,88
80-160/177	30	16	97 83 68 07	4.169,50	-	-
80-200/171	22	16	97 83 68 08	3.272,97	95 10 86 42	7.500,85
80-200/188	30	16	97 83 67 59	4.316,59	-	-
80-200/200	37	16	97 83 68 09	4.729,97	-	-
80-200/211	45	16	97 83 68 10	5.522,45	-	-
80-200/222	55	16	97 83 68 11	6.460,04	-	-
80-250/220	45	16	97 83 68 12	5.581,98	-	-
80-250/234	55	16	97 83 68 13	6.519,56	-	-
80-250/257	75	16	97 83 68 14	7.627,32	-	-
80-250/270	90	16	97 83 68 15	8.881,17	-	-
80-315/278	90	16	97 83 68 16	9.079,70	-	-
80-315/295	110	16	97 83 68 17	12.610,07	-	-
80-315/310	132	16	97 83 68 18	14.019,26	-	-
80-315/328	160	16	97 83 68 19	15.749,48	-	-
100-160/160-156	22	16	97 83 68 20	3.320,96	95 10 86 43	7.548,83
100-160/169	30	16	97 83 68 21	3.984,49	-	-
100-160/176	37	16	97 83 68 22	4.288,72	-	-
100-200/170	30	16	97 83 68 23	4.149,88	-	-
100-200/181	37	16	97 83 68 24	4.432,18	-	-
100-200/192	45	16	97 83 68 25	5.323,76	-	-
100-200/203	55	16	97 83 68 26	6.162,40	-	-
100-200/219	75	16	97 83 68 27	7.369,43	-	-
100-250/205	55	16	97 83 68 28	6.321,20	-	-
100-250/229	75	16	97 83 68 29	7.667,22	-	-
100-250/242	90	16	97 83 68 30	8.623,11	-	-
100-250/258	110	16	97 83 68 31	12.213,01	-	-
100-250/270	132	16	97 83 68 32	13.820,56	-	-
100-315/269	110	16	97 83 68 33	12.610,07	-	-
100-315/284	132	16	97 83 68 34	14.217,79	-	-
100-315/301	160	16	97 83 68 35	16.146,55	-	-
100-315/322	200	16	97 83 68 36	18.525,96	-	-
125-200/196-166	45	16	97 83 68 37	5.514,54	-	-
125-200/196-188	55	16	97 83 68 38	6.467,95	-	-
125-200/209	75	16	97 83 68 39	7.795,68	-	-
125-200/219	90	16	97 83 68 40	8.767,06	-	-
125-200/226	110	16	97 83 68 41	12.423,25	-	-
125-250/222	90	16	97 83 68 42	8.821,64	-	-
125-250/236	110	16	97 83 68 43	12.411,71	-	-
125-250/249	132	16	97 83 68 44	14.019,26	-	-
125-250/263	160	16	97 83 68 45	15.948,02	-	-
125-250/269	200	16	97 83 68 46	18.327,27	-	-
125-315/262	132	16	97 83 68 47	14.614,85	-	-
125-315/277	160	16	97 83 68 48	16.941,01	-	-
125-315/297	200	16	97 83 68 49	19.320,09	-	-
150-200/216-176	75	10	97 83 68 50	8.677,53	-	-
150-200/218-202	90	10	97 83 68 51	9.656,83	-	-
150-200/224	110	10	97 83 68 52	13.141,53	-	-
150-250/230	132	10	97 83 68 53	14.665,47	-	-

2-pole close coupled end-suction pumps acc. DIN EN 733 Standard

NB / NBE

4-pole close coupled end-suction pumps acc. DIN EN 733 Standard

NB / NBE

Size	Motor Power [kW]	Pressure Stage [DN]	NB Standard		NBE controlled without sensor	
			Seal Heating (BAQE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
150-250/245	160	10	97 83 68 54	16.629,36	-	-
150-250/260	200	10	97 83 68 55	19.035,98	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)
Further shaft seal variants on request. Additional information please find in data booklet.

DN 32 to DN 40 – three phase (Product Group: CW)

4-pole, 1450 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating

Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring

Standard version: pump with close coupled **high efficiency IEC-motor**.

NB IP55, to 3 kW 3 x 220-240V D/380-415V Y in 50Hz, from 4 kW 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

NBE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380-480 V in 50/60 Hz, to be connected to external sensor

Size	Motor Power [kW]	Pressure Stage [DN]	NB Standard		NBE controlled without sensor	
			Seal Heating (BAQE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
32-125.1/121	0,25	16	97 83 70 57	735,59	-	-
32-125.1/139	0,25	16	97 83 70 09	735,59	-	-
32-125.1/140	0,37	16	97 83 70 58	742,85	-	-
32-125/115	0,25	16	97 83 70 64	723,06	-	-
32-125/130	0,25	16	97 83 70 65	723,06	-	-
32-125/142	0,37	16	97 83 70 05	742,52	-	-
32-160.1/137	0,25	16	97 83 70 59	762,96	-	-
32-160.1/155	0,25	16	97 83 70 60	762,96	-	-
32-160.1/172	0,37	16	97 83 70 10	784,73	-	-
32-160/138	0,25	16	97 83 70 66	762,96	-	-
32-160/154	0,37	16	97 83 70 67	782,59	-	-
32-200.1/175	0,37	16	97 83 70 62	842,11	-	-
32-200/216	1,1	16	97 83 70 08	977,82	96 53 89 93	1.843,51
32-200/219	1,5	16	97 83 70 70	1.062,90	95 10 86 44	1.979,71
32-250/236	1,1	16	97 83 70 72	1.112,37	95 10 86 45	1.978,06
32-250/260	1,5	16	97 83 70 73	1.191,85	95 10 86 46	2.108,66
32-250/262	2,2	16	97 83 70 74	1.288,48	95 10 86 48	2.380,07
40-125/116	0,25	16	97 83 70 12	855,63	-	-
40-125/130	0,37	16	97 83 70 13	866,02	-	-
40-160/134	0,37	16	97 83 70 75	842,11	-	-
40-160/177	1,1	16	97 83 70 76	1.042,29	95 10 86 49	1.907,98
40-200/198	1,1	16	97 83 70 17	1.062,57	96 53 89 99	1.928,27
40-200/217	1,5	16	97 83 70 18	1.084,18	96 53 90 00	2.000,98
40-200/219	2,2	16	97 83 70 78	1.194,49	95 10 86 51	2.286,09
40-250/245	2,2	16	97 83 70 19	1.294,41	96 53 90 01	2.386,01
40-250/260	3	16	97 83 70 20	1.338,11	96 53 90 02	2.617,69
40-315/283	3	16	97 83 70 80	1.683,56	95 10 86 54	2.963,14
40-315/305	4	16	97 83 70 81	1.836,42	95 10 86 56	3.285,84
40-315/334	5,5	16	97 83 70 82	2.082,28	95 10 86 57	3.828,50
40-315/344	7,5	16	97 83 70 83	2.167,20	95 10 86 58	4.225,07

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)
Further shaft seal variants on request. Additional information please find in data booklet.

5

DN 50 to DN 65 – three phase (Product Group: CW)**4-pole, 1450 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating**

Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring

Standard version: pump with close coupled **high efficiency IEC-motor**.

NB IP55, to 3 kW 3 x 220-240V D/380-415V Y in 50Hz, from 4 kW 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

NBE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380-480 V in 50/60 Hz, to be connected to external sensor

Size	Motor Power [kW]	Pressure Stage [DN]	NB Standard		NBE controlled without sensor	
			Seal Heating (BAQE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
50-125/113	0,37	16	97 83 70 84	842,11	-	-
50-125/144	1,1	16	97 83 70 85	1.022,34	95 10 86 59	1.888,03
50-160/158	1,1	16	97 83 70 23	1.041,47	96 53 90 06	1.907,16
50-160/175	1,5	16	97 83 70 24	1.062,90	96 53 90 07	1.979,71
50-160/177	2,2	16	97 83 70 88	1.134,80	95 10 86 61	2.226,39
50-200/171	1,1	16	97 83 70 89	1.082,03	95 10 86 62	1.947,72
50-200/188	1,5	16	97 83 70 90	1.119,96	95 10 86 63	2.036,77
50-200/210	2,2	16	97 83 70 25	1.169,59	96 53 90 08	2.261,19
50-200/219	3	16	97 83 70 26	1.227,47	96 12 53 15	2.507,04
50-250/221	2,2	16	97 83 70 91	1.254,02	95 10 86 65	2.345,61
50-250/241	3	16	97 83 70 92	1.306,78	95 10 86 67	2.586,36
50-250/263	4	16	97 83 70 27	1.446,12	96 12 53 16	2.895,53
50-315/277	4	16	97 83 70 93	1.852,09	95 10 86 69	3.301,50
50-315/303	5,5	16	97 83 70 94	2.162,41	95 10 86 70	3.908,64
50-315/331	7,5	16	97 83 70 95	2.456,26	95 10 86 71	4.514,13
50-315/344	11	16	97 83 70 96	2.792,47	95 10 86 72	5.420,88
65-125/144	1,1	16	97 83 70 29	1.059,11	96 53 90 10	1.924,80
65-160/149	1,1	16	97 83 70 30	1.037,84	96 53 90 11	1.903,53
65-160/165	1,5	16	97 83 70 31	1.055,98	96 53 90 12	1.972,79
65-160/177	2,2	16	97 83 70 32	1.144,86	96 12 53 18	2.236,45
65-200/170	1,5	16	97 83 70 99	1.258,96	95 10 86 73	2.175,77
65-200/189	2,2	16	97 83 71 00	1.313,54	95 10 86 75	2.405,14
65-200/205	3	16	97 83 70 33	1.375,54	96 12 53 19	2.655,12
65-200/219	4	16	97 83 70 34	1.552,14	96 53 90 13	3.001,56
65-250/215	3	16	97 83 71 01	1.624,37	95 10 86 77	2.903,94
65-250/232	4	16	97 83 71 02	1.793,05	95 10 86 79	3.242,47
65-250/254	5,5	16	97 83 71 03	2.096,46	95 10 86 80	3.842,68
65-250/270	7,5	16	97 83 71 04	2.371,99	95 10 86 81	4.429,87
65-315/261	5,5	16	97 83 71 05	2.229,86	95 10 86 82	3.976,08
65-315/282	7,5	16	97 83 70 35	2.454,94	96 53 90 45	4.512,81
65-315/320	15	16	97 83 71 06	3.249,06	95 10 86 83	6.319,38

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)
Further shaft seal variants on request. Additional information please find in data booklet.**DN 80 to DN 100 – three phase** (Product Group: CW)**4-pole, 1450 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating**

Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring

Standard version: pump with close coupled **high efficiency IEC-motor**.

NB IP55, to 3 kW 3 x 220-240V D/380-415V Y in 50Hz, from 4 kW 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

NBE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380-480 V in 50/60 Hz, to be connected to external sensor

Size	Motor Power [kW]	Pressure Stage [DN]	NB Standard		NBE controlled without sensor	
			Seal Heating (BAQE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
80-160/146	1,5	16	97 83 70 39	1.214,77	96 53 90 14	2.131,58
80-160/161	2,2	16	97 83 70 37	1.303,81	96 53 90 15	2.395,41
80-160/175	3	16	97 83 70 38	1.350,97	96 12 53 22	2.630,55
80-160/177	4	16	97 83 71 07	1.495,09	-	-
80-200/164	2,2	16	97 83 71 08	1.571,60	95 10 86 86	2.663,20
80-200/179	3	16	97 83 71 09	1.624,37	95 10 86 88	2.903,94
80-200/196	4	16	97 83 70 40	1.774,42	96 12 53 23	3.223,84
80-200/214	5,5	16	97 83 70 41	2.022,26	96 12 53 24	3.768,48

Size	Motor Power [kW]	Pressure Stage [DN]	NB Standard		NBE controlled without sensor	
			Seal Heating (BAQE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
80-200/222	7,5	16	97 83 71 10	2.292,68	95 10 86 89	4.350,55
80-250/225	5,5	16	97 83 71 11	2.189,95	95 10 86 90	3.936,18
80-250/247	7,5	16	97 83 70 42	2.451,31	96 53 90 52	4.509,18
80-250/270	11	16	97 83 70 43	2.976,16	-	-
80-315/280	11	16	97 83 71 12	3.091,59	95 10 86 91	5.719,99
80-315/305	15	16	97 83 70 44	3.319,80	96 53 90 54	6.390,12
80-315/320	18,5	16	97 83 70 45	3.702,03	96 53 90 56	6.968,57
80-315/334	22	16	97 83 70 46	3.933,37	-	-
80-400/347	18,5	16	97 83 71 13	4.889,92	95 10 86 92	8.156,46
80-400/365	22	16	97 83 71 14	5.136,27	-	-
80-400/397	30	16	97 83 71 15	6.061,16	-	-
80-400/419	37	16	97 83 71 16	6.873,10	-	-
80-400/438	45	16	97 83 71 17	7.246,74	-	-
100-160/160-144	2,2	16	97 83 71 18	1.465,90	95 10 86 95	2.557,50
100-160/165	3	16	97 83 71 19	1.519,00	95 10 86 97	2.798,57
100-160/176	4	16	97 83 71 20	1.668,72	95 10 87 00	3.118,14
100-200/178	4	16	97 83 71 21	1.852,74	95 10 87 02	3.302,16
100-200/195	5,5	16	97 83 70 47	2.086,07	96 12 53 26	3.832,29
100-200/211	7,5	16	97 83 70 48	2.373,81	96 53 90 58	4.431,68
100-200/219	11	16	97 83 71 22	2.694,53	95 10 87 03	5.322,93
100-250/215	7,5	16	97 83 71 23	2.769,22	95 10 87 04	4.827,10
100-250/245	11	16	97 83 70 49	3.113,69	96 53 90 59	5.742,09
100-250/266	15	16	97 83 70 50	3.333,65	96 53 90 60	6.403,97
100-250/270	18,5	16	97 83 71 24	3.698,73	95 10 87 05	6.965,27
100-315/279	15	16	97 83 71 25	3.482,06	95 10 87 06	6.552,38
100-315/295	18,5	16	97 83 70 51	3.825,70	96 53 90 61	7.092,24
100-315/312	22	16	97 83 70 52	4.071,06	-	-
100-315/334	30	16	97 83 71 26	4.934,11	-	-
100-400/351	22	16	97 83 71 27	5.116,48	-	-
100-400/387	30	16	97 83 71 28	5.981,68	-	-
100-400/410	37	16	97 83 71 29	6.793,78	-	-
100-400/432	45	16	97 83 71 30	7.465,06	-	-
100-400/438	55	16	97 83 71 31	8.384,68	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)
Further shaft seal variants on request. Additional information please find in data booklet.

DN 125 to DN 150 – three phase (Product Group: CW)

4-pole, 1450 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating

Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring

Standard version: pump with close coupled high efficiency IEC-motor.

NB IP55, to 3 kW 3 x 220-240V D/380-415V Y in 50Hz, from 4 kW 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

NBE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380-480 V in 50/60 Hz, to be connected to external sensor

Size	Motor Power [kW]	Pressure Stage [DN]	NB Standard		NBE controlled without sensor	
			Seal Heating (BAQE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
125-200/196-172	5,5	16	97 83 71 32	2.512,48	95 10 87 08	4.258,71
125-200/201	7,5	16	97 83 71 33	2.738,06	95 10 87 09	4.795,93
125-200/221	11	16	97 83 71 34	3.066,03	95 10 87 10	5.694,44
125-200/226	15	16	97 83 71 35	3.281,05	95 10 87 11	6.351,37
125-250/220	11	16	97 83 71 36	3.210,64	95 10 87 12	5.839,05
125-250/236	15	16	97 83 70 53	3.422,04	96 53 90 67	6.492,36
125-250/249	18,5	16	97 83 70 54	3.793,87	96 53 90 68	7.060,41
125-250/262	22	16	97 83 70 55	4.025,22	-	-
125-250/269	30	16	97 83 71 37	4.965,94	-	-
125-315/275	18,5	16	97 83 71 38	4.671,44	95 10 87 13	7.937,98
125-315/290	22	16	97 83 71 39	4.898,16	-	-
125-315/317	30	16	97 83 71 40	5.842,68	-	-

4-pole close coupled end-suction pumps acc. DIN EN 733 Standard

6-pole close coupled end-suction pumps acc. DIN EN 733 Standard

NB / NBE NB / NBE

Size	Motor Power [kW]	Pressure Stage [DN]	NB Standard		NBE controlled without sensor	
			Seal Heating (BAQE) ¹⁾ Product-No.	EUR	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
125-315/336	37	16	97 83 71 41	6.257,55	-	-
125-315/338	45	16	97 83 71 42	7.068,16	-	-
125-400/345	37	16	97 83 71 43	6.456,24	-	-
125-400/368	45	16	97 83 71 44	7.266,53	-	-
125-400/392	55	16	97 83 71 45	8.384,68	-	-
125-400/433	75	16	97 83 71 46	9.552,12	-	-
125-400/438	90	16	97 83 71 47	10.289,86	-	-
125-500/406	55	16	97 83 71 48	9.377,34	-	-
125-500/447	75	16	97 83 71 49	10.544,95	-	-
125-500/473	90	16	97 83 71 50	11.282,52	-	-
125-500/500	110	16	97 83 71 51	15.006,64	-	-
125-500/526	132	16	97 83 71 52	15.555,57	-	-
125-500/548	160	16	97 83 71 53	16.644,20	-	-
150-200/210-158	7,5	10	97 83 71 54	3.283,86	95 10 87 15	5.341,73
150-200/218-208	11	10	97 83 70 56	3.764,36	96 53 90 70	6.392,76
150-200/224	15	10	97 83 71 55	3.984,32	95 10 87 16	7.054,64
150-250/226	15	10	97 83 71 56	4.252,94	95 10 87 17	7.323,26
150-250/238	18,5	10	97 83 71 57	4.634,50	95 10 87 18	7.901,04
150-250/251	22	10	97 83 71 58	4.864,53	-	-
150-250/271	30	10	97 83 71 59	5.826,85	-	-
150-250/284	37	10	97 83 71 60	6.571,01	-	-
150-250/286	45	10	97 83 71 61	7.192,66	-	-
150-315/275	37	10	97 83 71 62	6.893,05	-	-
150-315/291	45	10	97 83 71 63	7.465,06	-	-
150-315/310	55	10	97 83 71 64	8.583,21	-	-
150-315/336	75	10	97 83 71 65	9.949,52	-	-
150-315/338	90	10	97 83 71 66	11.084,15	-	-
150-400/343	55	10	97 83 71 67	9.067,01	-	-
150-400/375	75	10	97 83 71 68	10.491,52	-	-
150-400/394	90	10	97 83 71 69	11.674,80	-	-
150-400/412	110	10	97 83 71 70	15.782,63	-	-
150-400/431	132	10	97 83 71 71	16.350,85	-	-
150-400/438	160	10	97 83 71 72	17.487,79	-	-
150-500/459	132	10	97 83 71 73	17.288,27	-	-
150-500/489	160	10	97 83 71 74	18.425,21	-	-
150-500/521	200	10	97 83 71 75	20.305,99	-	-

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)
Further shaft seal variants on request. Additional information please find in data booklet.

DN 100 to DN 125 – three phase (Product Group: CW)

6-pole, 970 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating

Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring

Standard version: pump with close coupled **high efficiency IEC-motor**.

NB IP55, to 3 kW 3 x 220-240V D/380-415V Y in 50Hz, from 4 kW 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

NBE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380 – 480 V in 50/60 Hz, to be connected to external sensor

NB Standard

Size	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
100-160/163	0,75	16	95 10 98 40	1.432,27
100-160/176	1,10	16	95 10 98 41	1.476,79
100-200/182	1,10	16	95 10 98 42	1.622,72
100-200/194	1,50	16	95 10 98 43	1.672,52
100-250/259	4,00	16	96 12 63 64	2.149,06
100-250/270	5,50	16	95 10 98 50	2.515,95
100-315/272	4,00	16	95 10 98 52	2.280,97
100-315/301	5,50	16	95 10 98 53	2.535,73
100-315/326	7,50	16	96 12 63 65	2.750,76
100-315/334	11,00	16	95 10 98 54	3.324,09

NB Standard

Size	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
100-400/360	7,50	16	95 10 98 55	3.910,45
100-400/406	11,00	16	95 10 98 56	4.475,87
100-400/437	15,00	16	95 10 98 57	4.956,87
100-400/438	18,50	16	95 10 98 58	5.482,55
125-200/196-172	1,50	16	95 10 98 59	1.955,47
125-200/226	4,00	16	95 10 98 65	2.260,20
125-250/232	4,00	16	95 10 98 69	2.320,71
125-250/253	5,50	16	95 10 98 70	2.535,73
125-250/269	7,50	16	96 12 63 66	2.733,11
125-315/275	5,50	16	95 10 98 71	3.330,03
125-315/297	7,50	16	95 10 98 72	3.533,34
125-315/335	11,00	16	95 10 98 73	4.078,64
125-315/338	15,00	16	95 10 98 74	4.559,97
125-400/351	11,00	16	95 10 98 75	4.475,87
125-400/384	15,00	16	95 10 98 76	4.956,87
125-400/410	18,50	16	95 10 98 77	5.522,45
125-400/434	22,00	16	95 10 98 78	5.988,44
125-400/438	30,00	16	95 10 98 79	6.553,70
125-500/421	18,50	16	95 10 98 80	6.515,28
125-500/445	22,00	16	95 10 98 81	6.981,27
125-500/493	30,00	16	95 10 98 82	7.546,52
125-500/524	37,00	16	95 10 98 83	8.111,94
125-500/546	45,00	16	95 10 98 84	8.974,99
125-500/548	55,00	16	95 10 98 85	9.737,30

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)
Further shaft seal variants on request. Additional information please find in data booklet.

DN 150 – three phase (Product Group: CW)

6-pole, 970 min⁻¹, with cast iron housing, cast iron impeller and cataphoretic coating

Housing and impeller made of cast iron EN-GJL 250, with single mechanical seal and bronze wear ring

Standard version: pump with close coupled **high efficiency IEC-motor**.

NB IP55, to 3 kW 3 x 220-240V D/380-415V Y in 50Hz, from 4 kW 3 x 380-415V D/660-690V Y in 50Hz, from 3 kW with PTC acc. DIN 44082

NBE With integrated frequency converter and digital PI-controller, with integrated motor protection, 3 x 380-480V in 50/60Hz, to be connected to external sensor

NB Standard

Size	Motor Power [kW]	Pressure Stage [DN]	Seal Heating (BAQE) ¹⁾ Product-No.	EUR
150-200/224	4,00	10	95 10 98 89	2.892,89
150-250/243	5,50	10	95 10 98 92	3.430,78
150-250/262	7,50	10	95 10 98 93	3.717,53
150-250/286	11,00	10	95 10 98 94	4.331,10
150-315/280	11,00	10	95 10 98 95	4.654,62
150-315/305	15,00	10	95 10 98 96	5.135,78
150-315/322	18,50	10	95 10 98 97	5.701,03
150-315/337	22,00	10	95 10 98 98	6.067,76
150-315/338	30,00	10	95 10 98 99	6.672,91
150-400/357	18,50	10	95 10 99 00	6.068,41
150-400/375	22,00	10	95 10 99 01	6.445,03
150-400/408	30,00	10	95 10 99 02	7.071,46
150-400/430	37,00	10	95 10 99 03	7.864,44
150-400/438	45,00	10	95 10 99 04	8.865,67
150-500/457	37,00	10	95 10 99 05	9.114,33
150-500/483	45,00	10	95 10 99 06	10.115,56
150-500/513	55,00	10	95 10 99 07	10.865,50
150-500/548	75,00	10	95 10 99 08	11.784,29

¹⁾ Standard hard-soft shaft seal for water without glycol from +2 °C to +120 °C (BAQE)
Further shaft seal variants on request. Additional information please find in data booklet.

Motor protector (only for standard motors without frequency converter) (Product Group: CW)

Monitors motor temperature (Tempcon, Pt-sensor and PTC/thermal switch), over/underload, over/undervoltage, insulation resistance, phase failure, current unbalance, number of motor starts, etc.

Type	suitable for	Ampere Range	Product-No.	EUR
MP204	for panel mounting (voltage range 100 - 480 VAC, protection class IP 20	3 – 120 A	96 07 99 27	466,48
Current transformer set MP204	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	200 A	96 09 52 81	279,93
Current transformer set MP204	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	200 A	96 09 52 74	101,44
3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	300 A	96 09 52 82	294,27
3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	500 A	96 09 52 83	351,72
3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	750 A	96 09 52 84	366,10
3 pieces	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	1000 A	96 09 52 85	387,59
1 piece	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	500 A	96 09 52 76	127,45
1 piece	for panel mounting (voltage range 100 - 500 VAC, protection class IP 20	750 A	96 09 52 77	132,64

Modules for BUS Communication (Product Group: CW)

Type	for	Product-No.	EUR
CIU 100 LON Pump Module	External module to connect E-pumps up to 7.5 kW of LonWorks networks	96 75 37 35	322,82
CIU 150 Profibus-Module	External module to connect E-pumps up to 7.5 kW to Profibus-DP networks	96 75 30 81	322,82
CIU 200 MODbus-Module	External module to connect E-pumps up to 7.5 kW at MODbus RTU networks	96 75 30 82	322,82
CIU 250 GSM-Module	External module to connect E-pumps up to 7.5 kW for wireless communication via SMS / GSM / GPRS	96 78 71 06	581,08
CIU 300 BACnet MS/ TP-Module	External module to connect E-pumps up to 7.5 kW to BACnet MS / TP networks	96 89 37 69	322,82
CIM 100 LONbus-Module	Expansion module for 11-22 kW E-pumps to LONWorks data bus networks	96 82 47 97	156,79
CIM150Profibus-Module	Expansion module for 11-22 kW E-pumps to Profibus-DP databus networks	96 82 47 93	156,79
CIM 200 MODbus-Module	Expansion module for 11-22 kW E-pumps to MODbus RTU data bus networks	96 82 47 96	156,79
CIM 250 GSM-Module	Extension module for 11-22 kW electric pumps for wireless communication via SMS / GSM / GPRS	96 82 47 95	368,94
GSM Antenna	GSM quad band antenna for CIM & CIU 250 GSM module	96 09 52 88	84,62
CIM 300 BACnet-Module	Expansion module for 11-22 kW E-pumps to BACnet MS / TP data bus networks	96 89 37 70	156,79

For another controls, like cascade control (Control MPC), bus communication modules, external frequency drives and accessories see chapter Controls

Chapter 6

Control systems



Control MPC Series 2000 (Product Group: CW)

for Heating/cooling, industry and water utility

Multi-pump cascade control for up to 6 Grundfos series 2000-pumps (MAGNA, MAGNA3, TPE 2000). Energy optimised control of pumps via GENibus (without power supply to the pumps). With graphical display (320 x 240 Pixel) and soft-touch buttons. Sensor connection optional possible.

Supply voltage: **1 x 230 V/PE, 50/60 Hz**

Insulation: IP 54

Type	Product-No.	EUR
Control MPC Series 2000 1 pump	96 78 13 91	1.341,45
Control MPC Series 2000 2 pumps	96 78 14 12	1.341,45
Control MPC Series 2000 3 pumps	96 78 14 13	1.341,45
Control MPC Series 2000 4 pumps	96 78 14 14	1.341,45
Control MPC Series 2000 5 pumps	96 78 14 16	1.341,45
Control MPC Series 2000 6 pumps	96 78 14 17	1.341,45

Control MPC-E

for Heating/cooling, industry and water utility

Multi-pump control for Grundfos E-pumps with continuous variable speed of all pumps, cascade control (on/off) of further pumps. Including power supply, main switch, motor protection; wired ready for connection, in control cabinet. With user friendly back-lit display (320x240 pixel) for graphical visualisation, soft-touch buttons (IP54) for intuitive handling. Ethernet-/GENibus communication, individual alarm and operation signals are optional.

Please declare pump types in case of order.

Power range: **0,75–22,0 kW / pump (30–75 kW with CUE)**

Power supply: 3x400 V/PE, 50 Hz/60Hz

starting method: **All pumps with integrated frequency converter**

Options: on request

Ambient temperature: 0–40 °C

Insulation: IP 54

EMV: EN 61800–3

1-Pump Controls (Product Group: CW)

Type	Rated Power [kW]	Control MPC E IP 54 Product-No.	EUR
Control MPC E 1 - 0,75	0,75	96 01 45 18	1.844,49
Control MPC E 1 - 1,1	1,10	96 01 45 24	1.844,49
Control MPC E 1 - 1,5	1,50	96 01 45 30	1.844,49
Control MPC E 1 - 2,2	2,20	96 01 45 36	1.844,49
Control MPC E 1 - 3	3,00	96 01 45 42	1.844,49
Control MPC E 1 - 4	4,00	96 01 45 48	1.844,49
Control MPC E 1 - 5,5	5,50	96 01 45 54	1.844,49
Control MPC E 1 - 7,5	7,50	96 01 45 60	1.844,49
Control MPC E 1 - 11,0	11,00	96 01 45 66	2.012,17
Control MPC E 1 - 15,0	15,00	96 01 45 72	2.012,17
Control MPC E 1 - 18,5	18,50	96 01 45 78	2.012,17
Control MPC E 1 - 22,0	22,00	96 01 45 84	2.096,03

Controls for 30 kW - 75 kW and also for 0,37/0,55 kW/0,75 kW (single phase motors) on request

2-Pump Controls (Product Group: CW)

Type	Rated Power [kW]	Control MPC E IP 54 Product-No.	EUR
Control MPC E 2 - 0,75	0,75	96 01 45 19	1.945,10
Control MPC E 2 - 1,1	1,10	96 01 45 25	1.945,10
Control MPC E 2 - 1,5	1,50	96 01 45 31	1.945,10
Control MPC E 2 - 2,2	2,20	96 01 45 37	1.945,10
Control MPC E 2 - 3	3,00	96 01 45 43	1.945,10
Control MPC E 2 - 4	4,00	96 01 45 49	1.945,10
Control MPC E 2 - 5,5	5,50	96 01 45 55	1.945,10
Control MPC E 2 - 7,5	7,50	96 01 45 61	1.945,10
Control MPC E 2 - 11	11,00	96 01 45 67	2.263,71
Control MPC E 2 - 15	15,00	96 01 45 73	2.263,71
Control MPC E 2 - 18,5	18,50	96 01 45 79	2.464,91
Control MPC E 2 - 22	22,00	96 01 45 85	2.548,76

Control MPC-E

Control MPC-series 2000/-E

Type	Rated Power [kW]	Control MPC E IP 54 Product-No.	EUR
Control MPC E 2 - 30,0	30,00	96 01 83 23	11.007,21
Control MPC E 2 - 37,0	37,00	96 01 83 29	12.338,17
Control MPC E 2 - 45,0	45,00	96 01 83 35	15.760,23
Control MPC E 2 - 55,0	55,00	96 01 83 41	20.043,51
Control MPC E 2 - 75,0	75,00	96 01 83 47	22.827,93

Controls for 0,37/0,55 kW/0,75 kW (single phase motors) on request
 Commissioning-costs for Grundfos-controls DC2000/Control MPC: see Service

Control MPC-E

for Heating/cooling, industry and water utility

Multi-pump control for Grundfos E-pumps with continuous variable speed of **all** pumps, cascade control (on/off) of further pumps. Including power supply, main switch, motor protection; wired ready for connection, in control cabinet. With user friendly back-lit display (320x240 pixel) for graphical visualisation, soft-touch buttons (IP54) for intuitive handling. Ethernet-/GENIbus communication, individual alarm and operation signals are optional. Please declare pump types in case of order.

- Power range: **0,75–22,0 kW / pump (30–75 kW with CUE)**
- Power supply: 3x400 V/PE, 50 Hz/60Hz
- starting method: **All pumps with integrated frequency coonverter**
- Options: on request
- Ambient temperature: 0–40 °C
- Insulation: IP 54
- EMV: EN 61800–3

3-Pump Controls (Product Group: CW)

Type	Rated Power [kW]	Control MPC E IP 54 Product-No.	EUR
Control MPC E 3 - 0,75	0,75	96 01 45 20	2.045,71
Control MPC E 3 - 1,1	1,10	96 01 45 26	2.045,71
Control MPC E 3 - 1,5	1,50	96 01 45 32	2.045,71
Control MPC E 3 - 2,2	2,20	96 01 45 38	2.045,71
Control MPC E 3 - 3	3,00	96 01 45 44	2.045,71
Control MPC E 3 - 4	4,00	96 01 45 50	2.045,71
Control MPC E 3 - 5,5	5,50	96 01 45 56	2.045,71
Control MPC E 3 - 7,5	7,50	96 01 45 62	2.045,71
Control MPC E 3 - 11	11,00	96 01 45 68	2.515,23
Control MPC E 3 - 15	15,00	96 01 45 74	2.515,23
Control MPC E 3 - 18,5	18,50	96 01 45 80	2.917,66
Control MPC E 3 - 22	22,00	96 01 45 86	3.001,50
Control MPC E 3 - 30,0	>= 30 kW with built-in cabinet CUE frequency converters for uncontrolled pumps	96 01 83 24	17.041,60
Control MPC E 3 - 45,0	45,00	96 01 83 36	23.356,91
Control MPC E 3 - 55,0	55,00	96 01 83 42	26.400,64
Control MPC E 3 - 75,0	75,00	96 01 83 48	30.879,96

Controls for 0,37/0,55 kW/0,75 kW (single phase motors) on request

4-Pump Controls (Product Group: CW)

Type	Rated Power [kW]	Control MPC E IP 54 Product-No.	EUR
Control MPC E 4 - 0,75	0,75	96 01 45 21	2.146,32
Control MPC E 4 - 1,1	1,10	96 01 45 27	2.146,32
Control MPC E 4 - 1,5	1,50	96 01 45 33	2.146,32
Control MPC E 4 - 2,2	2,20	96 01 45 39	2.146,32
Control MPC E 4 - 3	3,00	96 01 45 45	2.146,32
Control MPC E 4 - 4	4,00	96 01 45 51	2.146,32
Control MPC E 4 - 5,5	5,50	96 01 45 57	2.146,32
Control MPC E 4 - 7,5	7,50	96 01 45 63	2.146,32
Control MPC E 4 - 11	11,00	96 01 45 69	2.766,75
Control MPC E 4 - 15	15,00	96 01 45 75	2.848,40
Control MPC E 4 - 18,5	18,50	96 01 45 81	3.370,39
Control MPC E 4 - 22	22,00	96 01 45 87	3.454,23

6

Type	Rated Power [kW]	Control MPC E IP 54 Product-No.	EUR
Control MPC E 4 - 30,0	30,00	96 01 83 25	21.997,82
Control MPC E 4 - 37,0	37,00	96 01 83 31	24.933,94
Control MPC E 4 - 75,0	75,00	96 01 83 49	41.261,17

Controls for 0,37/0,55 kW/0,75 kW (single phase motors) on request

Control MPC-F

for Heating/cooling, industry and water utility

Multi-pump control with frequency converter in control cabinet for continuous variable speed of **one pump** cascade control (on/off) of further pumps. Including power supply, main switch, motor protection, frequency converter; wired ready for connection.

With user friendly back-lit display (320x240 pixel) for graphical visualisation, soft-touch buttons (IP54) for intuitive handling. Ethernet-/GENIbus communication, individual alarm and operation signals are optional.

Please declare pump types in case of order.

- Power range: **0,75 – 75 kW / pump**
- Power supply: 3 x 400 V/PE, 50 Hz
- starting method: **to 4,0 kW direct, from 5,5 kW star-delta**
- Options: on request
- Ambient temperature: 0–40 °C
- Insulation: IP 54
- EMV: EN 61800 – 3
- Variants with freq. conv. on request
- / pump

6

2-Pump Controls (Product Group: CW)

Type	Rated Power [kW]	Control MPC F IP 54 Product-No.	EUR
Control MPC F 2 - 0,75	0,75	96 01 84 37	4.864,42
Control MPC F 2 - 1,1	1,10	96 01 84 43	4.864,42
Control MPC F 2 - 1,5	1,50	96 01 84 49	4.858,21
Control MPC F 2 - 2,2	2,20	96 01 84 55	4.872,72
Control MPC F 2 - 3	3,00	96 01 84 61	4.997,23
Control MPC F 2 - 4	4,00	96 01 84 67	5.030,44
Control MPC F 2 - 5,5	5,50	96 01 84 73	5.603,22
Control MPC F 2 - 7,5	7,50	96 01 84 79	5.827,34
Control MPC F 2 - 11	11,00	96 01 84 85	6.043,18
Control MPC F 2 - 18,5	18,50	96 01 84 97	7.205,33
Control MPC F 2 - 22	22,00	96 01 85 03	7.886,01
Control MPC F 2 - 30	30,00	96 01 85 09	9.627,61
Control MPC F 2 - 37	37,00	96 01 85 15	13.945,79
Control MPC F 2 - 45	45,00	96 01 85 21	16.118,43
Control MPC F 2 - 55	55,00	96 01 85 27	17.183,20

Commissioning-costs for Grundfos-controls DC2000/Control MPC: see Service

Control MPC-F

for Heating/cooling, industry and water utility

Multi-pump control with frequency converter in control cabinet for continuous variable speed cascade control (on/off) of further pumps. Including power supply, main switch, motor protection, frequency converter; wired ready for connection.

With user friendly back-lit display (320x240 pixel) for graphical visualisation, soft-touch buttons (IP54) for intuitive handling. Ethernet-/GENIbus communication, individual alarm and operation signals are optional.

Please declare pump types in case of order.

Power range:	0,75 – 75 kW / pump
Power supply:	3 x 400 V/PE, 50 Hz
starting method:	to 4,0 kW direct, from 5,5 kW star-delta
Options:	on request
Ambient temperature:	0–40 °C
Insulation:	IP 54
EMV:	EN 61800 – 3
Variants with freq. conv.	on request
/ pump	

6

3-Pump Controls (Product Group: CW)

Control MPC-F for heating/cooling, industry and water utility

Multi-pump control with frequency converter in control cabinet for continuous variable speed of one pump, cascade control (on/off) of further pumps. Including power supply, main switch, motor protection, frequency converter; wired ready for connection.

With user friendly back-lit display (320x240 pixel) for graphical visualisation, soft-touch buttons (IP54) for intuitive handling. Ethernet-/GENIbus communication, individual alarm and operation signals are optional.

Please declare pump types in case of order.

Power range:	0,75–22,0 kW / pump (30–75 kW with CUE)
Power supply:	3x400 V/PE, 50 Hz/60Hz
Starting method:	All pumps with integrated frequency converter
Options:	on request
Ambient temperature:	0–40 °C
Insulation:	IP 54
EMV:	EN 61800–3

Type	Rated Power [kW]	Control MPC F IP 54 Product-No.	EUR
Control MPC F 3 - 0,75	0,75	96 01 84 38	5.080,24
Control MPC F 3 - 1,1	1,10	96 01 84 44	5.097,21
Control MPC F 3 - 1,5	1,50	96 01 84 50	5.130,06
Control MPC F 3 - 2,2	2,20	96 01 84 56	5.116,44
Control MPC F 3 - 3	3,00	96 01 84 62	5.379,10
Control MPC F 3 - 4	4,00	96 01 84 68	5.216,65
Control MPC F 3 - 5,5	5,50	96 01 84 74	6.109,58
Control MPC F 3 - 7,5	7,50	96 01 84 80	6.337,04
Control MPC F 3 - 11	11,00	96 01 84 86	6.640,85
Control MPC F 3 - 15	15,00	96 01 84 92	7.712,52
Control MPC F 3 - 18,5	18,50	96 01 84 98	8.749,32
Control MPC F 3 - 22	22,00	96 01 85 04	10.099,66
Control MPC F 3 - 30	30,00	96 01 85 10	10.791,38
Control MPC F 3 - 37	37,00	96 01 85 16	15.273,96
Control MPC F 3 - 45	45,00	96 01 85 22	18.511,37
Control MPC F 3 - 55	55,00	96 01 85 28	19.756,53
Control MPC F 3 - 75	75,00	96 01 85 34	22.993,95

4-Pump Controls (Product Group: CW)

Type	Rated Power [kW]	Control MPC F IP 54 Product-No.	EUR
Control MPC F 4 - 0,75	0,75	96 01 84 39	5.733,00
Control MPC F 4 - 1,1	1,10	96 01 84 45	5.749,28
Control MPC F 4 - 1,5	1,50	96 01 84 51	5.656,12
Control MPC F 4 - 2,2	2,20	96 01 84 57	5.791,29
Control MPC F 4 - 3	3,00	96 01 84 63	5.928,16
Control MPC F 4 - 4	4,00	96 01 84 69	6.002,81
Control MPC F 4 - 5,5	5,50	96 01 84 75	6.971,07
Control MPC F 4 - 7,5	7,50	96 01 84 81	7.206,53

Type	Rated Power [kW]	Control MPC F IP 54 Product-No.	EUR
Control MPC F 4 - 11	11,00	96 01 84 87	7.603,77
Control MPC F 4 - 15	15,00	96 01 84 93	8.909,66
Control MPC F 4 - 18,5	18,50	96 01 84 99	10.060,88
Control MPC F 4 - 22	22,00	96 01 85 05	11.538,48
Control MPC F 4 - 30	30,00	96 01 85 11	12.650,82
Control MPC F 4 - 37	37,00	96 01 85 17	20.463,51
Control MPC F 4 - 45	45,00	96 01 85 23	21.582,77
Control MPC F 4 - 55	55,00	96 01 85 29	24.903,19
Control MPC F 4 - 75	75,00	96 01 85 35	28.516,60

BUS communication module for building management (Product Group: CW)

Type	Model for	Product-No.	EUR
CIU 300 BACnet MS/TP-Module	External module for MAGNA with GENiBus module, TPE, NBE, NKE, Hydro Multi-E, Hydro MPC with GENiBus module to BACnet MS/TP-networks	96 89 37 69	322,82
CIU 110 LON Module HydroMPC	Ext. module for Hydro MPC/ Control MPC/ CR Monitor with GENiBus module to LONWorks-networks	96 75 37 36	322,82
CIU 150 Profibus-Module	External module for MAGNA with GENiBus module, TPE, NBE, NKE, Hydro Multi-E Hydro MPC with GENiBus module to Profibus-DP-networks	96 75 30 81	322,82
CIU 200 MODbus-Module	External module for MAGNA with GENiBus module, TPE, NBE, NKE, Hydro Multi-E Hydro MPC with GENiBus module to Modbus RTU-networks	96 75 30 82	322,82
CIU 250 GSM/GPRS-Module	External module for wireless GSM / GPRS / SMS communication for Hydro MPC / ControlMPC / CR_Monitor with GENiBus module	96 78 71 06	581,08

CUE

for Heating/cooling, industry and water utility

Frequency converter CUE with integrated PI-controller and the same functionality, like the MGE-motors. With MGE control panel, RS-485 bus connection (GENiBus protocol), 0 – 10 Volt analog input for external setpoint, external sensor connection (0) 4 – 20mA , 4 digital inputs (e.g. start/stop, etc.), 2 output relays (change-over), (0) 4 – 20 mA output signal.

Variants for differently supply voltages.

Additional inputs via optional module (MCB114) available.

Additional motor filter optional.

Power range: **0,55 – 250 kW motor nominal power**

Optional version: on request

EMC: EN 61800 – 3

Insulation: IP 20 (teilw. 21) or IP 54 (partly IP 55)

CUE for 3 x 380 – 500 Volt

(Warning: Motor nominal current is the selection parameter!) (Product Group: CW)

Type	Rated Power [kW]	Nominal Current	CUE IP20, RFI-Filter: C1 Product-No.	EUR	CUE IP55, RFI-Filter: C1 Product-No.	EUR
CUE 0,55	0,55	1,8	96 75 46 75	499,47	96 75 47 04	842,20
CUE 0,75	0,75	2,4	96 75 46 76	535,11	96 75 47 05	851,06
CUE 1,1	1,1	3	96 75 46 77	617,02	96 75 47 06	867,02
CUE 1,5	1,5	4,1	96 75 46 78	705,67	96 75 47 07	916,67
CUE 2,2	2,2	5,6	96 75 46 79	850,71	96 75 47 08	1.090,43
CUE 3,0	3,0	7,2	96 75 46 80	946,63	96 75 47 09	1.269,50
CUE 4,0	4,0	10,0	96 75 46 81	1.009,93	96 75 47 10	1.445,04
CUE 5,5	5,5	13,0	96 75 46 92	1.166,31	96 75 47 11	1.636,52
CUE 7,5	7,5	16,0	96 75 46 93	1.308,51	-	-
CUE 11,0	11,0	24,0	96 75 46 94	1.592,38	96 75 47 23	2.313,83
CUE 15,0	15,0	32,0	96 75 46 95	1.802,13	96 75 47 24	2.712,77
CUE 18,5	18,5	37,5	96 75 46 96	2.257,80	96 75 47 25	3.247,34
CUE 22,0	22,0	44,0	96 75 46 97	2.637,59	96 75 47 26	3.670,21
CUE 30,0	30,0	61,0	96 75 46 98	3.070,57	96 75 47 27	4.114,01
CUE 37,0	37,0	73,0	96 75 46 99	3.710,64	96 75 47 28	4.328,19
CUE 45,0	45,0	90,0	96 75 47 00	4.531,38	96 75 47 29	4.750,53
CUE 55,0	55,0	106,0	96 75 47 01	5.482,27	96 75 47 30	5.745,21
CUE 75,0	75,0	147,0	96 75 47 02	6.317,55	96 75 47 31	6.617,73
CUE 90,0	90,0	177,0	96 75 47 03	7.402,66	96 75 47 32	7.746,63

Bigger CUE to 250 kW (IP 21 and IP 54) with RFI-Filter C2 on request

Modules for BUS Communication (Product Group: CW)

Type	Description	Product-No.	EUR
CIU 100 LON Pump Module	External Module for MAGNA with GENibus module, SRP 80 - 120FZ, MSRP with GENibus module, CUE, E-pumps and Hydro Multi-E to LonWorks networks	96 75 37 35	322,82
CIU 110 LON Module MPC	External module for connecting Hydro MPC / ControlMPC / LonWorks networks to	96 75 37 36	322,82
CIU 150 Profibus-Module	External module for CUE, E-pumps and Hydro Multi-E, CR monitor, HydroMPC with GENibus module to Profibus-DP networks	96 75 30 81	322,82
CIU 200 MODbus-Module	External Module for MAGNA with GENibus module, SRP 80 - 120FZ, CUE, E-pumps, Hydro Multi-E, MP 204, CR monitor HydroMPC with GENibus module to Modbus RTU networks	96 75 30 82	322,82
CIU 250 GSM - Module	External module for wireless communication via SMS / GSM / GPRS to connect with GENibus MAGNA, UPE 80 - 120F, CUE, E-pumps, CR monitor HydroMPC with GENibus, Hydro Multi-E, MP 204	96 78 71 06	581,08
CIU 300 BACnet MS/TP-Module	External Module for MAGNA with GENibus module, SRP 80 - 120FZ, CUE, E-pumps with HydroMPC GENibus module and Hydro Multi-E to BACnet MS / TP	96 89 37 69	322,82
CIM 100 LONbus-Module	Expansion module for 11 - 22kW E-pumps and Ded. Controls on LonWorks data bus networks	96 82 47 97	156,79
CIM150Profibus-Module	Expansion module for 11 - 22kW E-pumps and Ded. Controls to Profibus-DP data bus networks	96 82 47 93	156,79
CIM 200 MODbus-Module	Expansion module for 11 - 22kW E-pumps and Ded. Controls on MODbus RTU data bus networks	96 82 47 96	156,79
CIM 250 GSM - Module	Expansion module for wireless communication via SMS / GSM / GPRS for connecting 11 - 22 kW E-pumps and Dedicated Controls	96 82 47 95	368,94
GSM- Antenne	GSM quad band antenna for CIM & CIU 250 GSM module	96 09 52 88	84,62
CIM 300 BACnet-Module	Expansion module for 11 - 22kW MGE and Ded. Controls to BACnet MS / TP data bus networks	96 89 37 70	156,79

Hint for Hydro MPC/ Control MPC/ CR-Monitor: CIU only in connection with GENibusmodul_MPC (96 02 03 39) possible.

Chapter 7

Multistage centrifugal pumps



Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor** with frequency converter and digital PI-controller, **with or without pressure transmitter**. Supply voltage 1 x 200 - 240 V (to 1,1 kW) or 3 x 380 - 480 V (from 1,5 kW), 50/60 Hz, 2900 min-1, IP 55. pump head and foot made of cast iron (DIN W.Nr. EN-JL 1030), hydraulic parts made of stainless steel (DIN W.Nr. 1.4301). Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE).

Pipe connection:

A = 2-hole oval flange Rp 1" (CRE 1, CRE 3) or 1¼" (CRE 5), **FGJ** = combi flange DN 25/32 DIN/ANSI/JIS (CRE 1,3,5)

Connections see Accessories, please order separately.

CRE1 (Product Group: CW)

Type	Rated Power [kW]	Oval flange (A) mechanical seal HQQE			DIN / ANSI / JIS combination flange (FGJ) seal HQQE				
		without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRE 1- 3	0,37	96 51 81 96	1.051,95	96 51 81 73	1.184,75	96 51 81 79	1.082,09	96 51 53 56	1.214,89
CRE 1- 7	0,37	96 51 81 97	1.123,94	96 51 81 74	1.256,74	96 51 81 80	1.154,08	96 51 53 57	1.286,88
CRE 1-11	0,55	96 51 53 59	1.231,56	96 51 81 75	1.364,36	96 51 81 81	1.261,70	96 51 81 87	1.394,50
CRE 1-15	0,75	96 51 81 70	1.357,98	96 51 81 76	1.490,78	96 51 81 82	1.388,12	96 51 81 88	1.520,92
CRE 1-19	1,10	96 51 81 71	1.474,65	96 51 81 77	1.607,45	96 51 81 83	1.504,79	96 51 81 89	1.637,59
CRE 1-23	1,10	96 51 81 72	1.588,48	96 51 81 78	1.721,28	96 51 81 84	1.618,62	96 51 81 90	1.751,42
CRE 1-30	1,50	-	-	-	-	96 51 81 85	2.170,92	96 51 81 91	2.303,72
CRE 1-36	2,20	-	-	-	-	96 51 81 86	2.620,39	96 51 81 92	2.753,19

CRE3 (Product Group: CW)

Type	Rated Power [kW]	Oval flange (A) mechanical seal HQQE			DIN / ANSI / JIS combination flange (FGJ) seal HQQE				
		without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRE 3- 5	0,37	96 51 83 19	1.109,93	96 51 83 25	1.242,73	96 51 83 31	1.140,07	96 51 83 39	1.272,87
CRE 3- 7	0,55	96 51 83 20	1.177,66	96 51 83 26	1.310,46	96 51 83 32	1.207,80	96 51 83 40	1.340,60
CRE 3-10	0,75	96 51 83 21	1.286,52	96 51 83 27	1.419,33	96 51 83 33	1.316,67	96 51 83 41	1.449,47
CRE 3-15	1,10	96 51 83 22	1.450,89	96 51 83 28	1.583,69	96 51 83 34	1.481,03	96 51 83 42	1.613,83
CRE 3-19	1,50	96 51 83 23	1.927,84	96 51 83 29	2.060,64	96 51 83 35	1.957,98	96 51 83 43	2.090,78
CRE 3-23	2,20	96 51 83 24	2.223,94	96 51 83 30	2.356,74	96 51 83 36	2.254,08	96 51 83 44	2.386,88
CRE 3-29	2,20	-	-	-	-	96 51 83 37	2.421,28	96 51 83 45	2.554,08
CRE 3-36	3,00	-	-	-	-	96 51 83 38	2.790,07	96 51 83 46	2.922,87

CRE5 (Product Group: CW)

Type	Rated Power [kW]	Oval flange (A) mechanical seal HQQE			DIN / ANSI / JIS combination flange (FGJ) seal HQQE				
		without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRE 5- 2	0,37	96 51 84 28	1.106,03	96 51 84 34	1.238,83	96 51 84 40	1.136,17	96 51 84 48	1.268,97
CRE 5- 4	0,55	96 51 84 29	1.201,77	96 51 84 35	1.334,57	96 51 84 41	1.231,91	96 51 84 49	1.364,72
CRE 5- 8	1,10	96 51 84 30	1.351,24	96 51 84 36	1.484,04	96 51 84 42	1.381,38	96 51 84 50	1.514,18
CRE 5-10	1,50	96 51 84 31	1.790,25	96 51 84 37	1.923,05	96 51 84 43	1.820,39	96 51 84 51	1.953,19
CRE 5-16	2,20	96 51 84 32	2.221,99	96 51 84 38	2.354,79	96 51 84 44	2.252,13	96 51 84 52	2.384,93
CRE 5-20	3,00	96 51 84 33	2.565,25	96 51 84 39	2.698,05	96 51 84 45	2.595,39	96 51 84 53	2.728,19
CRE 5-29	4,00	-	-	-	-	96 51 84 46	3.019,86	96 51 84 54	3.152,66
CRE 5-36	5,50	-	-	-	-	96 51 84 47	3.595,92	96 51 84 55	3.728,72

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor** with frequency converter and digital PI-controller, **without or with pressure transmitter**. Supply voltage 1 x 200 - 240 V (to 1,1 kW); 3 x 380 - 480 V (from 1,5 kW), 50/60 Hz, 2900 min⁻¹, IP 55. pump head and foot made of cast iron (DIN W.Nr. EN-JL 1030), hydraulic parts made of stainless steel (DIN W.Nr. 1.4301).

Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE).

Pipe connection:

A = 2-hole oval flange Rp 1½" (CRE10) and Rp 2" (CRE 15 u. 20), **FJ** = Combi flange DN 40 DIN/JIS (CRE 10), **F** = DIN flange DN 50 (CRE 15, 20)

Connections see Accessories, please order separately.

CRE10 (Product Group: CW)

Type	Rated Power [kW]	Oval flange (A) mechanical seal HQQE				DIN / JIS combination flange (FJ) seal HQQE			
		without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRE 10- 1	0,37	96 51 24 69	1.231,21	96 51 25 33	1.364,01	96 51 25 12	1.263,48	96 51 25 36	1.396,28
CRE 10- 2	0,75	96 51 25 10	1.343,79	96 51 25 34	1.476,60	96 51 25 13	1.376,06	96 51 25 37	1.508,87
CRE 10- 3	1,10	96 51 25 11	1.492,38	96 51 25 35	1.625,18	96 51 25 14	1.524,65	96 51 25 38	1.657,45
CRE 10- 4	1,50	96 51 25 59	1.907,62	96 51 26 22	2.040,43	96 51 25 66	1.939,89	96 51 26 29	2.072,70
CRE 10- 6	2,20	96 51 25 60	2.267,20	96 51 26 23	2.400,00	96 51 25 67	2.299,47	96 51 26 30	2.432,27
CRE 10- 9	3,00	96 51 25 61	2.670,21	96 51 26 24	2.803,01	96 51 25 68	2.702,48	96 51 26 31	2.835,28
CRE 10-12	4,00	96 51 25 62	3.184,75	96 51 26 25	3.317,55	96 51 25 69	3.217,02	96 51 26 32	3.349,82
CRE 10-16	5,50	96 51 25 63	3.848,58	96 51 26 26	3.981,38	96 51 25 70	3.880,85	96 51 26 33	4.013,65
CRE 10-22	7,50	-	-	-	-	96 51 25 71	4.644,68	96 51 26 34	4.777,48

CRE15 (Product Group: CW)

Type	Rated Power [kW]	Oval flange (A) mechanical seal HQQE				DIN flange (F) Mechanical seal HQQE			
		without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRE 15- 1	1,10	96 51 26 83	1.523,58	96 51 26 92	1.656,38	96 51 26 84	1.555,85	96 51 26 93	1.688,65
CRE 15- 2	2,20	96 51 27 02	2.281,91	96 51 27 56	2.414,72	96 51 27 07	2.314,18	96 51 27 61	2.446,99
CRE 15- 3	3,00	96 51 27 03	2.629,08	96 51 27 57	2.761,88	96 51 27 08	2.661,35	96 51 27 62	2.794,15
CRE 15- 5	4,00	96 51 27 04	3.118,26	96 51 27 58	3.251,06	96 51 27 09	3.150,53	96 51 27 63	3.283,33
CRE 15- 7	5,50	96 51 27 05	3.765,60	96 51 27 59	3.898,40	96 51 27 10	3.797,87	96 51 27 64	3.930,67
CRE 15- 9	7,50	-	-	-	-	96 51 27 11	4.546,45	96 51 27 65	4.679,26
CRE 15-14	11	-	-	-	-	96 51 28 08	5.907,27	96 51 28 24	6.040,07
CRE 15-17	15	-	-	-	-	96 51 28 09	7.266,49	96 51 28 25	7.399,29

CRE20 (Product Group: CW)

Type	Rated Power [kW]	Oval flange (A) mechanical seal HQQE				DIN flange (F) Mechanical seal HQQE			
		without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRE 20- 1	1,10	96 51 28 40	1.523,58	96 51 28 49	1.656,38	96 51 28 41	1.555,85	96 51 28 50	1.688,65
CRE 20- 2	2,20	96 51 28 59	2.281,91	96 51 29 39	2.414,72	96 51 28 74	2.314,18	96 51 29 44	2.446,99
CRE 20- 3	4,00	96 51 28 70	3.118,26	96 51 29 40	3.251,06	96 51 28 75	3.150,53	96 51 29 45	3.283,33
CRE 20- 5	5,50	96 51 28 71	3.765,60	96 51 29 41	3.898,40	96 51 28 76	3.797,87	96 51 29 46	3.930,67
CRE 20- 7	7,50	96 51 28 72	4.514,18	96 51 29 42	4.646,99	96 51 28 77	4.546,45	96 51 29 47	4.679,26
CRE 20-10	11	-	-	-	-	96 51 28 78	5.907,27	96 51 29 48	6.040,07
CRE 20-14	15	-	-	-	-	96 51 28 79	7.266,49	96 51 29 49	7.399,29
CRE 20-17	18,5	-	-	-	-	96 51 28 80	8.679,08	96 51 29 50	8.811,88

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor** with frequency converter and digital PI-controller. Supply voltage 3 x 380 - 480 V, 50/60 Hz, 2900 min⁻¹, IP 55. pump head and foot made of cast stainless steel (1.4408), hydraulic parts made of stainless steel (DIN W.Nr. 1.4301). Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE). Connections see Accessories, please order separately.

CRE 32 (Product Group: CW)

Seal HQQE

Type	Rated Power [kW]	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRE 32-1	2,20	96 12 26 39	2.623,94	96 12 26 49	2.760,46
CRE 32-10	18,50	96 12 26 46	9.595,92	96 12 26 56	9.732,45
CRE 32-1-1	1,50	96 12 26 38	2.319,68	96 12 26 48	2.456,21
CRE 32-12	22,00	96 12 26 47	11.008,16	96 12 26 57	11.144,68
CRE 32-2	4,00	96 12 26 41	3.435,28	96 12 26 51	3.571,81
CRE 32-2-2	3,00	96 12 26 40	2.959,75	96 12 26 50	3.096,28

Seal HQQE

Type	Rated Power [kW]	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRE 32-3	5,50	96 12 26 42	4.190,25	96 12 26 52	4.326,77
CRE 32-4	7,50	96 12 26 43	5.110,64	96 12 26 53	5.247,16
CRE 32-6	11,00	96 12 26 44	6.715,25	96 12 26 54	6.851,77
CRE 32-8	15,00	96 12 26 45	8.099,29	96 12 26 55	8.235,82

CRE 45 (Product Group: CW)

Seal HQQE

Type	Rated Power [kW]	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRE 45-1	4,00	96 12 33 87	3.393,79	96 12 33 95	3.530,32
CRE 45-1-1	3,00	96 12 33 86	2.885,64	96 12 33 94	3.022,16
CRE 45-2	7,50	96 12 33 89	5.117,02	96 12 33 97	5.253,55
CRE 45-2-2	5,50	96 12 33 88	4.150,71	96 12 33 96	4.287,23
CRE 45-3	11,00	96 12 33 90	6.536,35	96 12 33 98	6.672,87
CRE 45-4	15,00	96 12 33 91	7.929,26	96 12 33 99	8.065,78
CRE 45-5	18,50	96 12 33 92	9.456,56	96 12 34 00	9.593,09
CRE 45-6	22,00	96 12 33 93	10.713,65	96 12 34 01	10.850,18

CRE 64 (Product Group: CW)

Seal HQQE

Type	Rated Power [kW]	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRE 64-1	5,50	96 12 39 79	4.107,27	96 12 39 86	4.243,79
CRE 64-1-1	4,00	96 12 39 78	3.371,99	96 12 39 85	3.508,51
CRE 64-2	11,00	96 12 39 81	6.152,48	96 12 39 88	6.289,01
CRE 64-2-2	7,50	96 12 39 80	5.051,60	96 12 39 87	5.188,12
CRE 64-3-1	15,00	96 12 39 82	7.758,87	96 12 39 89	7.895,39
CRE 64-4	22,00	96 12 39 84	10.421,45	96 12 39 91	10.557,98
CRE 64-4-2	18,50	96 12 39 83	9.318,79	96 12 39 90	9.455,32

CRE 90 (Product Group: CW)

Seal HQQE

Type	Rated Power [kW]	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRE 90-1	7,50	96 12 43 51	4.951,24	96 12 43 57	5.087,77
CRE 90-1-1	5,50	96 12 43 50	4.048,40	96 12 43 56	4.184,93
CRE 90-2	15,00	96 12 43 53	7.843,97	96 12 43 59	7.980,50
CRE 90-2-2	11,00	96 12 43 52	6.442,55	96 12 43 58	6.579,08
CRE 90-3	22,00	96 12 43 55	10.421,45	96 12 43 61	10.557,98
CRE 90-3-2	18,50	96 12 43 54	9.318,79	96 12 43 60	9.455,32

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor** with frequency converter and digital PI-controller. Supply voltage 3 x 380 - 480 V, 50/60 Hz, 2900 min⁻¹, IP 55.
pump head and foot made of cast iron (DIN W.Nr. EN-GJS-500-7), hydraulic parts made of stainless steel (DIN W.Nr. 1.4301).
Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE).
Connections see Accessories, please order separately.

CRE 120 (Product Group: CW)

Type	Rated Power [kW]	without pressure-sensor (A-)		with pressure-sensor (AN-)	
		Product-No.	EUR	Product-No.	EUR
CRE 120-1	11,00	96 83 19 85	6.660,64	96 80 97 77	6.797,16
CRE 120-2	22,00	96 80 30 08	10.421,45	96 85 63 43	10.557,98
CRE 120-2-1	18,50	96 80 30 06	9.318,79	96 85 63 42	9.455,32

CRE 150 (Product Group: CW)

Type	Rated Power [kW]	without pressure-sensor (A-)		with pressure-sensor (AN-)	
		Product-No.	EUR	Product-No.	EUR
CRE 150-1	15,00	96 80 14 26	7.843,97	96 85 64 43	7.980,50
CRE 150-1-1	11,00	96 83 48 04	6.660,64	96 85 64 42	6.797,16
CRE 150-2-1	22,00	96 82 77 20	10.421,45	96 85 64 44	10.557,98

CUE for 3 x 380 – 500 Volt (Product Group: CW)

(Note: to be selected according to motor nominal current)

Type	Rated Power [kW]	CUE IP 20		CUE IP 55	
		RFI-Filter: C1 Product-No.	EUR	RFI-Filter: C1 Product-No.	EUR
CUE 30,0	30	96 75 46 98	3.070,57	96 75 47 27	4.114,01
CUE 37,0	37	96 75 46 99	3.710,64	96 75 47 28	4.328,19
CUE 45,0	45	96 75 47 00	4.531,38	96 75 47 29	4.750,53
CUE 55,0	55	96 75 47 01	5.482,27	96 75 47 30	5.745,21
CUE 75,0	75	96 75 47 02	6.317,55	96 75 47 31	6.617,73

For another controls, like cascade control (Control MPC), bus communication modules, external frequency drives and accessories see chapter Controls

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor** with frequency converter and digital PI-controller, **without pressure transmitter**. Supply voltage 1 x 200 - 240 V (to 1,1 kW) or 3 x 380 - 480 V (from 1,5 kW), 50/60 Hz, 2900 min⁻¹, IP 55.
Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).
Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE) or Viton (HQQV).
Pipe connection:
PJE = Victaulic connection 42,4 mm (CRNE 1,3,5) , **FGJ** = combi flange DN 25/32 DIN/ANSI/JIS (CRNE 1,3,5)
Connections see Accessories please order separately.

CRNE 1 (Product Group: CW)

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) without pressure transmitter (A-)			PJE (P) without pressure transmitter (A-)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 1-3	0,37	96 51 82 87	1.235,99	96 51 82 95	1.254,08	96 51 82 45	1.183,69	96 51 82 63	1.201,77
CRNE 1-7	0,37	96 51 82 88	1.323,58	96 51 82 96	1.341,67	96 51 82 46	1.271,28	96 51 82 64	1.289,36
CRNE 1-11	0,55	96 51 82 89	1.447,16	96 51 82 97	1.465,25	96 51 82 47	1.394,86	96 51 82 65	1.412,94
CRNE 1-15	0,75	96 51 82 90	1.593,62	96 51 82 98	1.611,70	96 51 82 48	1.541,31	96 51 82 66	1.559,40
CRNE 1-19	1,10	96 51 82 91	1.738,30	96 51 82 99	1.756,38	96 51 82 49	1.685,99	96 51 82 67	1.704,08
CRNE 1-23	1,10	96 51 82 92	1.867,91	96 51 83 00	1.885,99	96 51 82 60	1.815,60	96 51 82 68	1.833,69
CRNE 1-30	1,50	96 51 82 93	2.470,21	96 51 83 01	2.488,30	96 51 82 61	2.417,91	96 51 82 69	2.435,99
CRNE 1-36	2,20	96 51 82 94	2.967,38	96 51 83 02	2.985,46	96 51 82 62	2.915,07	96 51 82 70	2.933,16

CRNE 3 (Product Group: CW)

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) without pressure transmitter (A-)				PJE (P) without pressure transmitter (A-)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 3-5	0,37	96 51 83 96	1.323,58	96 51 84 04	1.341,67	96 51 83 64	1.271,28	96 51 83 72	1.289,36
CRNE 3-7	0,55	96 51 83 97	1.379,43	96 51 84 05	1.397,52	96 51 83 65	1.327,13	96 51 83 73	1.345,21
CRNE 3-10	0,75	96 51 83 98	1.507,98	96 51 84 06	1.526,06	96 51 83 66	1.455,67	96 51 83 74	1.473,76
CRNE 3-15	1,10	96 51 83 99	1.702,48	96 51 84 07	1.720,57	96 51 83 67	1.650,18	96 51 83 75	1.668,26
CRNE 3-19	1,50	96 51 84 00	2.213,12	96 51 84 08	2.231,21	96 51 83 68	2.160,82	96 51 83 76	2.178,90
CRNE 3-23	2,20	96 51 84 01	2.535,28	96 51 84 09	2.553,37	96 51 83 69	2.482,98	96 51 83 77	2.501,06
CRNE 3-29	2,20	96 51 84 02	2.728,37	96 51 84 10	2.746,45	96 51 83 70	2.676,06	96 51 83 78	2.694,15
CRNE 3-36	3,00	96 51 84 03	3.139,18	96 51 84 11	3.157,27	96 51 83 71	3.086,88	96 51 83 79	3.104,96

CRNE 5 (Product Group: CW)

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) without pressure transmitter (A-)				PJE (P) without pressure transmitter (A-)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 5-2	0,37	96 51 85 16	1.289,72	96 51 85 24	1.307,80	96 51 84 72	1.237,41	96 51 84 81	1.255,50
CRNE 5-4	0,55	96 51 85 17	1.397,52	96 51 85 25	1.415,60	96 51 84 73	1.345,21	96 51 84 82	1.363,30
CRNE 5-8	1,10	96 51 85 18	1.569,15	96 51 85 26	1.587,23	96 51 84 74	1.516,84	96 51 84 83	1.534,93
CRNE 5-10	1,50	96 51 85 19	2.051,95	96 51 85 27	2.070,04	96 51 84 75	1.999,65	96 51 84 84	2.017,73
CRNE 5-16	2,20	96 51 85 20	2.529,26	96 51 85 28	2.547,34	96 51 84 77	2.476,95	96 51 84 85	2.495,04
CRNE 5-20	3,00	96 51 85 21	2.908,33	96 51 85 29	2.926,42	96 51 84 78	2.856,03	96 51 84 86	2.874,11
CRNE 5-29	4,00	96 51 85 22	3.379,08	96 51 85 30	3.397,16	96 51 84 79	3.326,77	96 51 84 87	3.344,86
CRNE 5-36	5,50	96 51 85 23	4.018,62	96 51 85 31	4.036,70	96 51 84 80	3.966,31	96 51 84 88	3.984,40

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor** with frequency converter and digital PI-controller, **with pressure transmitter**. Supply voltage 1 x 200 - 240 V (to 1,1 kW) or 3 x 380 - 480 V (from 1,5 kW), 50/60 Hz, 2900 min-1, IP 55. Wetted parts stainless steel (DIN V.Nr. 1.4401/1.4408).

Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE).

Pipe connection:

PJE = Victaulic connection 42,4 mm (CRNE 1,3,5), **FGJ** = combi flange DN 25/32 DIN/ANSI/JIS (CRNE 1,3,5)

Connections see Accessories, please order separately.

CRNE 1 (Product Group: CW)

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) with pressure transmitter (AN-)				PJE (P) with pressure transmitter (AN-)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 1-3	0,37	96 51 83 03	1.368,79	96 51 83 11	1.386,88	96 51 82 71	1.316,49	96 51 82 79	1.334,57
CRNE 1-7	0,37	96 51 83 04	1.456,38	96 51 83 12	1.474,47	96 51 82 72	1.404,08	96 51 82 80	1.422,16
CRNE 1-11	0,55	96 51 83 05	1.579,96	96 51 83 13	1.598,05	96 51 82 73	1.527,66	96 51 82 81	1.545,74
CRNE 1-15	0,75	96 51 83 06	1.726,42	96 51 83 14	1.744,50	96 51 82 74	1.674,11	96 51 82 82	1.692,20
CRNE 1-19	1,10	96 51 83 07	1.871,10	96 51 83 15	1.889,18	96 51 82 75	1.818,79	96 51 82 83	1.836,88
CRNE 1-23	1,10	96 51 83 08	2.000,71	96 51 83 16	2.018,79	96 51 82 76	1.948,40	96 51 82 84	1.966,49
CRNE 1-30	1,50	96 51 83 09	2.603,01	96 51 83 17	2.621,10	96 51 82 77	2.550,71	96 51 82 85	2.568,79
CRNE 1-36	2,20	96 51 83 10	3.100,18	96 51 83 18	3.118,26	96 51 82 78	3.047,87	96 51 82 86	3.065,96

CRNE 3 (Product Group: CW)

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) with pressure transmitter (AN-)				PJE (P) with pressure transmitter (AN-)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 3-5	0,37	96 51 84 12	1.456,38	96 51 84 20	1.474,47	96 51 83 80	1.404,08	96 51 83 88	1.422,16
CRNE 3-7	0,55	96 51 84 13	1.512,23	96 51 84 21	1.530,32	96 51 83 81	1.459,93	96 51 83 89	1.478,01
CRNE 3-10	0,75	96 51 84 14	1.640,78	96 51 84 22	1.658,87	96 51 83 82	1.588,48	96 51 83 90	1.606,56
CRNE 3-15	1,10	96 51 84 15	1.835,28	96 51 84 23	1.853,37	96 51 83 83	1.782,98	96 51 83 91	1.801,06
CRNE 3-19	1,50	96 51 84 16	2.345,92	96 51 84 24	2.364,01	96 51 83 84	2.293,62	96 51 83 92	2.311,70

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) with pressure transmitter (AN-)				PJE (P) with pressure transmitter (AN-)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 3-23	2,20	96 51 84 17	2.668,09	96 51 84 25	2.686,17	96 51 83 85	2.615,78	96 51 83 93	2.633,87
CRNE 3-29	2,20	96 51 84 18	2.861,17	96 51 84 26	2.879,26	96 51 83 86	2.808,87	96 51 83 94	2.826,95
CRNE 3-36	3,00	96 51 84 19	3.271,99	96 51 84 27	3.290,07	96 51 83 87	3.219,68	96 51 83 95	3.237,77

CRNE 5 (Product Group: CW)

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) with pressure transmitter (AN-)				PJE (P) with pressure transmitter (AN-)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 5- 2	0,37	96 51 85 32	1.422,52	96 51 85 40	1.440,60	96 51 84 89	1.370,21	96 51 85 07	1.388,30
CRNE 5- 4	0,55	96 51 85 33	1.530,32	96 51 85 41	1.548,40	96 51 85 00	1.478,01	96 51 85 08	1.496,10
CRNE 5- 8	1,10	96 51 85 34	1.701,95	96 51 85 42	1.720,04	96 51 85 01	1.649,65	96 51 85 10	1.667,73
CRNE 5-10	1,50	96 51 85 35	2.184,75	96 51 85 43	2.202,84	96 51 85 02	2.132,45	96 51 85 11	2.150,53
CRNE 5-16	2,20	96 51 85 36	2.662,06	96 51 85 44	2.680,14	96 51 85 03	2.609,75	96 51 85 12	2.627,84
CRNE 5-20	3,00	96 51 85 37	3.041,13	96 51 85 45	3.059,22	96 51 85 04	2.988,83	96 51 85 13	3.006,91
CRNE 5-29	4,00	96 51 85 38	3.511,88	96 51 85 46	3.529,96	96 51 85 05	3.459,57	96 51 85 14	3.477,66
CRNE 5-36	5,50	96 51 85 39	4.151,42	96 51 85 47	4.169,50	96 51 85 06	4.099,11	96 51 85 15	4.117,20

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor** with frequency converter and digital PI-controller, **without pressure transmitter**. Supply voltage 1 x 200 - 240 V (to 1,1 kW); 3 x 380 - 480 V (from 1,5 kW), 50/60 Hz, 2900 min⁻¹, IP 55. Wetted parts stainless steel (DIN V.Nr. 1.4401).

Cartridge shaft seal with SiC / SiC material combination, elastomers in Viton or EPDM. - (HQQV or HQQE)

Pipe connection:

PJE = For Victaulic connection, FGJ = combi flange DN 40 (CRNE 10), DN50 (CRNE 15,20), DIN/ANSI/JIS

Connections see Accessories, please order separately.

CRNE 10 (Product Group: CW)

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) without pressure transmitter (A-)				PJE (P) without pressure transmitter (A-)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 10- 1	0,37	96 51 25 21	1.546,81	96 51 25 27	1.568,79	96 51 25 24	1.486,35	96 51 25 30	1.508,33
CRNE 10- 2	0,75	96 51 25 22	1.653,37	96 51 25 28	1.675,35	96 51 25 25	1.592,91	96 51 25 31	1.614,89
CRNE 10- 3	1,10	96 51 25 23	1.804,26	96 51 25 29	1.826,24	96 51 25 26	1.743,79	96 51 25 32	1.765,78
CRNE 10- 4	1,50	96 51 25 90	2.195,57	96 51 26 06	2.217,55	96 51 25 98	2.135,11	96 51 26 14	2.157,09
CRNE 10- 6	2,20	96 51 25 91	2.607,09	96 51 26 07	2.629,08	96 51 25 99	2.546,63	96 51 26 15	2.568,62
CRNE 10- 9	3,00	96 51 25 92	3.043,97	96 51 26 08	3.065,96	96 51 26 00	2.983,51	96 51 26 16	3.005,50
CRNE 10-12	4,00	96 51 25 93	3.606,38	96 51 26 09	3.628,37	96 51 26 01	3.545,92	96 51 26 17	3.567,91
CRNE 10-16	5,50	96 51 25 94	4.349,82	96 51 26 10	4.371,81	96 51 26 02	4.289,36	96 51 26 18	4.311,35
CRNE 10-22	7,50	96 51 25 95	5.201,24	96 51 26 11	5.223,23	96 51 26 03	5.140,78	96 51 26 19	5.162,77

CRNE 15 (Product Group: CW)

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) without pressure transmitter (A-)				PJE (P) without pressure transmitter (A-)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 15- 1	1,10	96 51 26 89	1.864,36	96 51 26 91	1.886,35	96 51 26 88	1.789,89	96 51 26 90	1.811,88
CRNE 15- 2	2,20	96 51 27 31	2.609,93	96 51 27 43	2.631,91	96 51 27 37	2.535,46	96 51 27 50	2.557,45
CRNE 15- 3	3,00	96 51 27 32	2.978,37	96 51 27 44	3.000,35	96 51 27 38	2.903,90	96 51 27 51	2.925,89
CRNE 15- 5	4,00	96 51 27 33	3.526,24	96 51 27 45	3.548,23	96 51 27 39	3.451,77	96 51 27 52	3.473,76
CRNE 15- 7	5,50	96 51 27 34	4.253,90	96 51 27 46	4.275,89	96 51 27 40	4.179,43	96 51 27 53	4.201,42
CRNE 15- 9	7,50	96 51 27 35	5.082,62	96 51 27 47	5.104,61	96 51 27 41	5.008,16	96 51 27 54	5.030,14
CRNE 15-14	11,00	96 51 28 16	6.590,78	96 51 28 20	6.612,77	96 51 28 18	6.516,31	96 51 28 22	6.538,30
CRNE 15-17	15,00	96 51 28 17	8.125,00	96 51 28 21	8.146,99	96 51 28 19	8.050,53	96 51 28 23	8.072,52

CRNE 20 (Product Group: CW)

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) without pressure transmitter (A-)				PJE (P) without pressure transmitter (A-)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 20- 1	1,10	96 51 28 46	1.864,36	96 51 28 48	1.886,35	96 51 28 45	1.789,89	96 51 28 47	1.811,88
CRNE 20- 2	2,20	96 51 29 06	2.609,93	96 51 29 22	2.631,91	96 51 29 14	2.535,46	96 51 29 30	2.557,45
CRNE 20- 3	4,00	96 51 29 07	3.526,24	96 51 29 23	3.548,23	96 51 29 15	3.451,77	96 51 29 31	3.473,76
CRNE 20- 5	5,50	96 51 29 08	4.253,90	96 51 29 24	4.275,89	96 51 29 16	4.179,43	96 51 29 32	4.201,42
CRNE 20- 7	7,50	96 51 29 09	5.082,62	96 51 29 25	5.104,61	96 51 29 17	5.008,16	96 51 29 33	5.030,14
CRNE 20-10	11,00	96 51 29 10	6.590,78	96 51 29 26	6.612,77	96 51 29 18	6.516,31	96 51 29 34	6.538,30
CRNE 20-14	15,00	96 51 29 11	8.125,00	96 51 29 27	8.146,99	96 51 29 19	8.050,53	96 51 29 35	8.072,52
CRNE 20-17	18,50	96 51 29 12	9.664,01	96 51 29 28	9.685,99	96 51 29 20	9.589,54	96 51 29 37	9.611,52

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor** with frequency converter and digital PI-controller, **with pressure transmitter**. Supply voltage 1 x 200 - 240 V (to 1,1 kW); 3 x 380 - 480 V (from 1,5 kW), 50/60 Hz, 2900 min⁻¹, IP 55. Wetted parts stainless steel (DIN V.Nr. 1.4401).

Cartridge shaft seal with SiC / SiC material combination, elastomers in Viton or EPDM - (HQQV or HQQE)

Pipe connection:

PJE = For Victaulic connection, FGJ = combi flange DN 40 (CRNE 10), DN50 (CRNE 15,20), DIN/ANSI/JIS

Connections see Accessories, please order separately.

CRNE 10 (Product Group: CW)

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) with pressure transmitter (AN-)				PJE (P) with pressure transmitter (AN-)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 10- 1	0,37	96 51 25 45	1.679,61	96 51 25 51	1.701,60	96 51 25 48	1.619,15	96 51 25 54	1.641,13
CRNE 10- 2	0,75	96 51 25 46	1.786,17	96 51 25 52	1.808,16	96 51 25 49	1.725,71	96 51 25 55	1.747,70
CRNE 10- 3	1,10	96 51 25 47	1.937,06	96 51 25 53	1.959,04	96 51 25 50	1.876,60	96 51 25 56	1.898,58
CRNE 10- 4	1,50	96 51 26 53	2.328,37	96 51 26 69	2.350,35	96 51 26 61	2.267,91	96 51 26 77	2.289,89
CRNE 10- 6	2,20	96 51 26 54	2.739,89	96 51 26 70	2.761,88	96 51 26 62	2.679,43	96 51 26 78	2.701,42
CRNE 10- 9	3,00	96 51 26 55	3.176,77	96 51 26 71	3.198,76	96 51 26 63	3.116,31	96 51 26 79	3.138,30
CRNE 10-12	4,00	96 51 26 56	3.739,18	96 51 26 72	3.761,17	96 51 26 64	3.678,72	96 51 26 80	3.700,71
CRNE 10-16	5,50	96 51 26 57	4.482,62	96 51 26 73	4.504,61	96 51 26 65	4.422,16	96 51 26 81	4.444,15
CRNE 10-22	7,50	96 51 26 58	5.334,04	96 51 26 74	5.356,03	96 51 26 66	5.273,58	96 51 26 82	5.295,57

CRNE 15 (Product Group: CW)

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) with pressure transmitter (AN-)				PJE (P) with pressure transmitter (AN-)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 15- 1	1,10	96 51 26 98	1.997,16	96 51 27 00	2.019,15	96 51 26 97	1.922,70	96 51 26 99	1.944,68
CRNE 15- 2	2,20	96 51 27 85	2.742,73	96 51 27 97	2.764,72	96 51 27 91	2.668,26	96 51 28 03	2.690,25
CRNE 15- 3	3,00	96 51 27 86	3.111,17	96 51 27 98	3.133,16	96 51 27 92	3.036,70	96 51 28 04	3.058,69
CRNE 15- 5	4,00	96 51 27 87	3.659,04	96 51 27 99	3.681,03	96 51 27 93	3.584,57	96 51 28 05	3.606,56
CRNE 15- 7	5,50	96 51 27 88	4.386,70	96 51 28 00	4.408,69	96 51 27 94	4.312,23	96 51 28 06	4.334,22
CRNE 15- 9	7,50	96 51 27 89	5.215,43	96 51 28 01	5.237,41	96 51 27 95	5.140,96	96 51 28 07	5.162,94
CRNE 15-14	11,00	96 51 28 32	6.723,58	96 51 28 36	6.745,57	96 51 28 34	6.649,11	96 51 28 38	6.671,10
CRNE 15-17	15,00	96 51 28 33	8.257,80	96 51 28 37	8.279,79	96 51 28 35	8.183,33	96 51 28 39	8.205,32

CRNE 20 (Product Group: CW)

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) with pressure transmitter (AN-)				PJE (P) with pressure transmitter (AN-)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 20- 1	1,10	96 51 28 55	1.997,16	96 51 28 57	2.019,15	96 51 28 54	1.922,70	96 51 28 56	1.944,68
CRNE 20- 2	2,20	96 51 29 77	2.742,73	96 51 29 94	2.764,72	96 51 29 86	2.668,26	96 51 30 02	2.690,25
CRNE 20- 3	4,00	96 51 29 78	3.659,04	96 51 29 95	3.681,03	96 51 29 87	3.584,57	96 51 30 03	3.606,56
CRNE 20- 5	5,50	96 51 29 80	4.386,70	96 51 29 96	4.408,69	96 51 29 88	4.312,23	96 51 30 04	4.334,22

Type	Rated Power [kW]	DIN / ANSI / JIS flange (FGJ) with pressure transmitter (AN-)				PJE (P) with pressure transmitter (AN-)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 20-7	7,50	96 51 29 81	5.215,43	96 51 29 97	5.237,41	96 51 29 89	5.140,96	96 51 30 05	5.162,94
CRNE 20-10	11,00	96 51 29 82	6.723,58	96 51 29 98	6.745,57	96 51 29 90	6.649,11	96 51 30 06	6.671,10
CRNE 20-14	15,00	96 51 29 83	8.257,80	96 51 29 99	8.279,79	96 51 29 91	8.183,33	96 51 30 07	8.205,32
CRNE 20-17	18,50	96 51 29 84	9.796,81	96 51 30 00	9.818,79	96 51 29 92	9.722,34	96 51 30 08	9.744,33

In-line vertical centrifugal pump, non self-priming,, **high efficiency IEC-motor** with frequency converter and digital PI-controller. Supply voltage 3 x 380 - 480 V, 50/60 Hz, 2900 min-1, IP 55.
pump head and foot made of cast stainless steel (1.4408), hydraulic parts made of stainless steel (DIN W.Nr. 1.4401).
Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE) or Viton (HQQV).
Connections see Accessories, please order separately.

CRNE 32 (Product Group: CW)

Type	Rated Power [kW]	Mechanical seal HQQE				Mechanical seal HQQV			
		without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRNE 32-1	2,20	96 12 26 75	3.164,89	96 12 26 85	3.301,42	96 12 27 11	3.196,45	96 12 27 21	3.332,98
CRNE 32-1-1	1,50	96 12 26 74	2.821,63	96 12 26 84	2.958,16	96 12 27 10	2.853,19	96 12 27 20	2.989,72
CRNE 32-2	4,00	96 12 26 77	3.971,81	96 12 26 87	4.108,33	96 12 27 13	4.003,37	96 12 27 23	4.139,89
CRNE 32-2-2	3,00	96 12 26 76	3.518,09	96 12 26 86	3.654,61	96 12 27 12	3.549,65	96 12 27 22	3.686,17
CRNE 32-3	5,50	96 12 26 78	4.805,50	96 12 26 88	4.942,02	96 12 27 14	4.837,06	96 12 27 24	4.973,58
CRNE 32-4	7,50	96 12 26 79	5.858,69	96 12 26 89	5.995,21	96 12 27 15	5.890,25	96 12 27 25	6.026,77
CRNE 32-6	11,00	96 12 26 80	7.675,18	96 12 26 90	7.811,70	96 12 27 16	7.706,74	96 12 27 26	7.843,26
CRNE 32-8	15,00	96 12 26 81	9.342,73	96 12 26 91	9.479,26	96 12 27 17	9.374,29	96 12 27 27	9.510,82
CRNE 32-10	18,50	96 12 26 82	11.046,63	96 12 26 92	11.183,16	96 12 27 18	11.078,19	96 12 27 28	11.214,72
CRNE 32-12	22,00	96 12 26 83	12.690,25	96 12 26 93	12.826,77	96 12 27 19	12.721,81	96 12 27 29	12.858,33

CRNE 45 (Product Group: CW)

Type	Rated Power [kW]	Mechanical seal HQQE				Mechanical seal HQQV			
		without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRNE 45-1	4,00	96 12 34 19	4.092,02	96 12 34 27	4.228,55	96 12 34 51	4.123,58	96 12 34 59	4.260,11
CRNE 45-1-1	3,00	96 12 34 18	3.518,09	96 12 34 26	3.654,61	96 12 34 50	3.549,65	96 12 34 58	3.686,17
CRNE 45-2	7,50	96 12 34 21	5.858,69	96 12 34 29	5.995,21	96 12 34 53	5.890,25	96 12 34 61	6.026,77
CRNE 45-2-2	5,50	96 12 34 20	4.870,92	96 12 34 28	5.007,45	96 12 34 52	4.902,48	96 12 34 60	5.039,01
CRNE 45-3	11,00	96 12 34 22	7.446,10	96 12 34 30	7.582,62	96 12 34 54	7.477,66	96 12 34 62	7.614,18
CRNE 45-4	15,00	96 12 34 23	9.124,65	96 12 34 31	9.261,17	96 12 34 55	9.156,21	96 12 34 63	9.292,73
CRNE 45-5	18,50	96 12 34 24	10.796,10	96 12 34 32	10.932,62	96 12 34 56	10.827,66	96 12 34 64	10.964,18
CRNE 45-6	22,00	96 12 34 25	12.321,45	96 12 34 33	12.457,98	96 12 34 57	12.353,01	96 12 34 65	12.489,54

CRNE 64 (Product Group: CW)

Type	Rated Power [kW]	Mechanical seal HQQE				Mechanical seal HQQV			
		without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRNE 64-1	5,50	96 12 40 03	4.849,11	96 12 40 10	4.985,64	96 12 40 27	4.880,67	96 12 40 34	5.017,20
CRNE 64-1-1	4,00	96 12 40 02	4.144,15	96 12 40 09	4.280,67	96 12 40 26	4.175,71	96 12 40 33	4.312,23
CRNE 64-2	11,00	96 12 40 05	7.217,02	96 12 40 12	7.353,55	96 12 40 29	7.248,58	96 12 40 36	7.385,11
CRNE 64-2-2	7,50	96 12 40 04	5.913,12	96 12 40 11	6.049,65	96 12 40 28	5.944,68	96 12 40 35	6.081,21
CRNE 64-3-1	15,00	96 12 40 06	8.974,11	96 12 40 13	9.110,64	96 12 40 30	9.005,67	96 12 40 37	9.142,20
CRNE 64-4	22,00	96 12 40 08	11.952,66	96 12 40 15	12.089,18	96 12 40 32	11.984,22	96 12 40 39	12.120,74
CRNE 64-4-2	18,50	96 12 40 07	10.662,94	96 12 40 14	10.799,47	96 12 40 31	10.694,50	96 12 40 38	10.831,03

CRNE 90 (Product Group: CW)

Type	Rated Power [kW]	Mechanical seal HQQE				Mechanical seal HQQV			
		without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR	without pressure-sensor (A-) Product-No.	EUR	with pressure-sensor (AN-) Product-No.	EUR
CRNE 90-1	7,50	96 12 43 71	5.996,45	96 12 43 77	6.132,98	96 12 43 91	6.028,01	96 12 43 97	6.164,54
CRNE 90-1-1	5,50	96 12 43 70	4.909,93	96 12 43 76	5.046,45	96 12 43 90	4.941,49	96 12 43 96	5.078,01
CRNE 90-2	15,00	96 12 43 73	9.388,48	96 12 43 79	9.525,00	96 12 43 93	9.420,04	96 12 43 99	9.556,56
CRNE 90-2-2	11,00	96 12 43 72	7.670,74	96 12 43 78	7.807,27	96 12 43 92	7.702,30	96 12 43 98	7.838,83
CRNE 90-3	22,00	96 12 43 75	12.168,62	96 12 43 81	12.305,14	96 12 43 95	12.200,18	96 12 44 01	12.336,70
CRNE 90-3-2	18,50	96 12 43 74	10.894,15	96 12 43 80	11.030,67	96 12 43 94	10.925,71	96 12 44 00	11.062,23

In-line vertical centrifugal pump, non self-priming, **high efficiency IEC-motor** with frequency converter and digital PI-controller. Supply voltage 3 x 380 - 480 V, 50/60 Hz, 2900 min-1, IP 55. pump head and foot made of cast stainless steel (1.4408), hydraulic parts made of stainless steel (DIN W.Nr. 1.4401). Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE) or Viton (HQQV). Connections see Accessories, please order separately.

CRNE 120 (Product Group: CW)

Type	Rated Power [kW]	Mechanical seal HQQE		Mechanical seal HQQV	
		without pressure-sensor (A-) Product-No.	EUR	without pressure-sensor (A-) Product-No.	EUR
CRNE 120-1	11,00	96 85 63 51	8.046,10	96 85 63 54	8.182,62
CRNE 120-2	22,00	96 83 13 79	12.570,04	96 85 63 56	12.706,56
CRNE 120-2-1	18,50	96 85 63 53	11.253,90	96 85 63 55	11.390,43

CRNE 150 (Product Group: CW)

Type	Rated Power [kW]	Mechanical seal HQQE		Mechanical seal HQQV	
		without pressure-sensor (A-) Product-No.	EUR	without pressure-sensor (A-) Product-No.	EUR
CRNE 150-1	15,00	96 85 64 53	9.480,32	96 85 64 56	9.616,84
CRNE 150-1-1	11,00	96 85 64 52	8.046,10	96 85 64 55	8.182,62
CRNE 150-2-1	22,00	96 85 64 54	12.570,04	96 85 64 59	12.706,56

CUE for 3 x 380 – 500 Volt (Product Group: CW)

(note: to be dimensioned based on motor nominal current)

Type	Rated Power [kW]	CUE IP 55		CUE IP 20	
		RFI-Filter: C1 Product-No.	EUR	RFI-Filter: C1 Product-No.	EUR
CUE 5,5	5,5	96 75 47 11	1.636,52	96 75 46 92	1.166,31
CUE 7,5	7,5	96 75 47 22	1.984,04	96 75 46 93	1.308,51
CUE 11	11	96 75 47 23	2.313,83	96 75 46 94	1.592,38
CUE 15	15	96 75 47 24	2.712,77	96 75 46 95	1.802,13
CUE 18,5	18,5	96 75 47 25	3.247,34	96 75 46 96	2.257,80
CUE 22	22	96 75 47 26	3.670,21	96 75 46 97	2.637,59
CUE 30,0	30	96 75 47 27	4.114,01	96 75 46 98	3.070,57
CUE 37,0	37	96 75 47 28	4.328,19	96 75 46 99	3.710,64
CUE 45,0	45	96 75 47 29	4.750,53	96 75 47 00	4.531,38
CUE 55,0	55	96 75 47 30	5.745,21	96 75 47 01	5.482,27
CUE 75,0	75	96 75 47 31	6.617,73	96 75 47 02	6.317,55
CUE 90	90	96 75 47 32	7.746,63	-	-

For another controls, like cascade control (Control MPC), motor speed controls, bus communication modules and accessories see chapter 6 „Controls“

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240 V/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18. pump head and foot made of cast iron (EN-JL 1030), hydraulic parts made of stainless steel (1.4301).

Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE) or Viton (HQQV).

Pipe connection:

A = 2-Loch Ovalflange Rp 1", **FGJ** = combi flange DN 25/32 DIN/ANSI/JIS

Connections see Accessories, please order separately.

CR 1s (Product Group: CW)

Type	Rated Power [kW]	Oval flange (A)				DIN / ANSI / JIS combi flange (FGJ)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 1s- 2	0,37	96 51 55 37	468,26	96 51 55 74	486,35	96 51 56 47	498,40	96 51 56 78	516,49
CR 1s- 3	0,37	96 51 55 49	486,17	96 51 55 75	504,26	96 51 56 49	516,31	96 51 56 79	534,40
CR 1s- 4	0,37	96 51 55 51	504,26	96 51 55 76	522,34	96 51 56 50	534,40	96 51 56 80	552,48
CR 1s- 5	0,37	96 51 55 52	521,99	96 51 55 77	540,07	96 51 56 52	552,13	96 51 56 81	570,21
CR 1s- 6	0,37	96 51 55 53	539,89	96 51 55 78	557,98	96 51 56 54	570,04	96 51 56 82	588,12
CR 1s- 7	0,37	96 51 55 55	557,98	96 51 55 79	576,06	96 51 56 55	588,12	96 51 56 83	606,21
CR 1s- 8	0,37	96 51 55 57	575,89	96 51 55 80	593,97	96 51 56 56	606,03	96 51 56 84	624,11
CR 1s- 9	0,37	96 51 55 58	593,79	96 51 55 81	611,88	96 51 56 57	623,94	96 51 56 86	642,02
CR 1s-10	0,37	96 51 55 60	611,70	96 51 55 82	629,79	96 51 56 58	641,84	96 51 56 87	659,93
CR 1s-11	0,37	96 51 55 61	629,61	96 51 55 83	647,70	96 51 56 60	659,75	96 51 56 89	677,84
CR 1s-12	0,37	96 51 55 62	647,52	96 51 55 84	665,60	96 51 56 61	677,66	96 51 56 91	695,74
CR 1s-13	0,37	96 51 55 63	665,60	96 51 55 85	683,69	96 51 56 63	695,74	96 51 56 93	713,83
CR 1s-15	0,55	96 51 55 64	693,44	96 51 55 86	711,52	96 51 56 64	723,58	96 51 56 94	741,67
CR 1s-17	0,55	96 51 55 65	739,18	96 51 55 87	757,27	96 51 56 66	769,33	96 51 56 96	787,41
CR 1s-19	0,55	96 51 55 66	785,11	96 51 55 88	803,19	96 51 56 68	815,25	96 51 56 98	833,33
CR 1s-21	0,75	96 51 55 67	864,72	96 51 55 89	882,80	96 51 56 70	894,86	96 51 57 00	912,94
CR 1s-23	0,75	96 51 55 68	910,46	96 51 55 90	928,55	96 51 56 71	940,60	96 51 57 01	958,69
CR 1s-25	0,75	-	-	-	-	96 51 56 72	986,52	96 51 57 02	1.004,61
CR 1s-27	1,10	-	-	-	-	96 51 56 73	1.042,38	96 51 57 04	1.060,46
CR 1s-30	1,10	-	-	-	-	96 51 56 75	1.115,60	96 51 57 05	1.133,69
CR 1s-33	1,10	-	-	-	-	96 51 56 76	1.183,51	96 51 57 07	1.201,60
CR 1s-36	1,10	-	-	-	-	96 51 56 77	1.251,24	96 51 57 08	1.269,33

CR 1 (Product Group: CW)

Type	Rated Power [kW]	Oval flange (A)				DIN / ANSI / JIS combi flange (FGJ)			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 1- 2	0,37	96 51 61 69	464,18	96 51 61 94	482,27	96 51 62 39	494,33	96 51 62 60	512,41
CR 1- 3	0,37	96 51 61 70	481,91	96 51 61 96	500,00	96 51 62 40	512,06	96 51 62 61	530,14
CR 1- 4	0,37	96 51 61 72	500,00	96 51 61 97	518,09	96 51 62 41	530,14	96 51 62 62	548,23

Type	Rated Power [kW]	Oval flange (A)			DIN / ANSI / JIS combi flange (FGJ)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 1- 5	0,37	96 51 61 73	517,91	96 51 61 99	535,99	96 51 62 42	548,05	96 51 62 63	566,13
CR 1- 6	0,37	96 51 61 74	535,99	96 51 62 01	554,08	96 51 62 43	566,13	96 51 62 64	584,22
CR 1- 7	0,37	96 51 61 76	553,90	96 51 62 02	571,99	96 51 62 44	584,04	96 51 62 65	602,13
CR 1- 8	0,55	96 51 61 77	567,91	96 51 62 03	585,99	96 51 62 45	598,05	96 51 62 66	616,13
CR 1- 9	0,55	96 51 61 78	579,61	96 51 62 05	597,70	96 47 88 72	609,75	96 51 62 67	627,84
CR 1-10	0,55	96 51 61 80	607,62	96 51 62 06	625,71	96 51 62 46	637,77	96 51 62 68	655,85
CR 1-11	0,55	96 51 61 81	635,46	96 51 62 07	653,55	96 51 62 47	665,60	96 51 62 69	683,69
CR 1-12	0,75	96 51 61 83	663,48	96 51 62 09	681,56	96 51 62 48	693,62	96 51 62 70	711,70
CR 1-13	0,75	96 51 61 85	689,18	96 51 62 10	707,27	96 51 62 49	719,33	96 51 62 71	737,41
CR 1-15	0,75	96 51 61 86	745,04	96 51 62 11	763,12	96 51 62 50	775,18	96 51 62 72	793,26
CR 1-17	1,10	96 51 61 88	795,04	96 51 62 12	813,12	96 51 62 51	825,18	96 51 62 73	843,26
CR 1-19	1,10	96 51 61 90	850,53	96 51 62 13	868,62	96 51 62 52	880,67	96 51 62 74	898,76
CR 1-21	1,10	96 51 61 92	906,38	96 51 62 14	924,47	96 51 62 53	936,52	96 51 62 75	954,61
CR 1-23	1,10	96 51 61 93	964,36	96 51 62 15	982,45	96 51 62 54	994,50	96 51 62 76	1.012,59
CR 1-25	1,50	-	-	-	-	96 51 62 55	1.101,77	96 51 62 77	1.119,86
CR 1-27	1,50	-	-	-	-	96 51 62 56	1.157,45	96 51 62 78	1.175,53
CR 1-30	1,50	-	-	-	-	96 51 62 57	1.243,26	96 51 62 79	1.261,35
CR 1-33	2,20	-	-	-	-	96 51 33 09	1.394,50	96 51 33 41	1.412,59
CR 1-36	2,20	-	-	-	-	96 51 33 40	1.480,32	96 51 33 42	1.498,40

Another voltage, single phase motors, other motor suppliers on request. **Liq Tec dry running protection**, Product number 96 55 64 29.

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240 V/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18. pump head and foot made of cast iron (EN-JL 1030), hydraulic parts made of stainless steel (1.4301).

Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE) or Viton (HQQV).

Pipe connection:

A = 2-hole oval flange Rp 1" (CR 3) and Rp 1¼" (CR 5), **FGJ** = combi flange DN 25/32 DIN/ANSI/JIS

Connections see Accessories, please order separately.

CR 3 (Product Group: CW)

Type	Rated Power [kW]	Oval flange (A)			DIN / ANSI / JIS combi flange (FGJ)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 3- 2	0,37	96 51 65 90	460,28	96 51 66 06	478,37	96 51 66 49	490,43	96 51 66 72	508,51
CR 3- 3	0,37	96 51 65 91	486,17	96 51 66 07	504,26	96 51 66 50	516,31	96 51 66 73	534,40
CR 3- 4	0,37	96 51 65 92	514,18	96 51 66 08	532,27	96 51 66 51	544,33	96 51 66 74	562,41
CR 3- 5	0,37	96 50 95 08	539,89	96 51 66 09	557,98	96 51 66 52	570,04	96 51 66 75	588,12
CR 3- 6	0,55	96 51 65 93	553,90	96 51 66 10	571,99	96 51 66 53	584,04	96 49 77 36	602,13
CR 3- 7	0,55	96 51 65 94	581,56	96 51 66 11	599,65	96 51 66 54	611,70	96 51 66 76	629,79
CR 3- 8	0,75	96 51 65 95	617,55	96 51 66 12	635,64	96 51 66 55	647,70	96 51 66 77	665,78
CR 3- 9	0,75	96 51 65 96	645,39	96 51 66 13	663,48	96 51 66 56	675,53	96 51 66 78	693,62
CR 3-10	0,75	96 51 65 97	673,58	96 51 66 14	691,67	96 51 66 57	703,72	96 51 66 79	721,81
CR 3-11	1,10	96 51 65 98	713,30	96 51 66 15	731,38	96 51 66 58	743,44	96 51 66 80	761,52
CR 3-12	1,10	96 51 65 99	741,13	96 51 66 16	759,22	96 51 66 59	771,28	96 51 66 81	789,36
CR 3-13	1,10	96 51 66 00	768,97	96 51 66 17	787,06	96 51 66 60	799,11	96 51 66 82	817,20
CR 3-15	1,10	96 51 66 01	826,77	96 51 66 18	844,86	96 51 66 61	856,91	96 51 66 83	875,00
CR 3-17	1,50	96 51 66 02	942,38	96 51 66 19	960,46	96 51 66 62	972,52	96 51 66 84	990,60
CR 3-19	1,50	96 51 66 03	1.000,18	96 51 66 20	1.018,26	96 51 66 63	1.030,32	96 51 66 85	1.048,40
CR 3-21	2,20	96 51 33 43	1.026,06	96 51 33 53	1.044,15	96 51 33 45	1.056,21	96 51 33 55	1.074,29
CR 3-23	2,20	96 51 33 44	1.083,87	96 51 33 54	1.101,95	96 51 33 46	1.114,01	96 51 33 56	1.132,09
CR 3-25	2,20	-	-	-	-	96 51 33 47	1.167,38	96 51 33 57	1.185,46
CR 3-27	2,20	-	-	-	-	96 51 33 48	1.223,23	96 51 33 58	1.241,31
CR 3-29	2,20	-	-	-	-	96 51 33 49	1.281,21	96 51 33 59	1.299,29
CR 3-31	3,00	-	-	-	-	96 51 33 50	1.344,86	96 51 33 60	1.362,94
CR 3-33	3,00	-	-	-	-	96 51 33 51	1.400,71	96 51 33 61	1.418,79
CR 3-36	3,00	-	-	-	-	96 51 33 52	1.486,17	96 51 33 62	1.504,26

CR 5 (Product Group: CW)

Type	Rated Power [kW]	Oval flange (A)			DIN / ANSI / JIS combi flange (FGJ)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 5- 2	0,37	96 51 69 75	535,99	96 51 70 03	554,08	96 51 70 37	566,13	96 51 70 59	584,22
CR 5- 3	0,55	96 51 69 76	561,70	96 51 70 04	579,79	96 51 70 38	591,84	96 51 70 60	609,93
CR 5- 4	0,55	96 51 69 77	605,67	96 51 70 05	623,76	96 51 70 39	635,82	96 51 70 61	653,90
CR 5- 5	0,75	96 51 69 78	651,42	96 51 70 06	669,50	96 51 70 40	681,56	96 51 70 62	699,65
CR 5- 6	1,10	96 51 69 79	673,58	96 51 70 07	691,67	96 51 70 41	703,72	96 51 70 63	721,81
CR 5- 7	1,10	96 51 69 90	701,24	96 51 70 08	719,33	96 51 70 42	731,38	96 51 70 64	749,47
CR 5- 8	1,10	96 51 69 91	727,13	96 51 70 09	745,21	96 51 17 50	757,27	96 51 70 65	775,35
CR 5- 9	1,50	96 51 69 92	834,75	96 51 70 10	852,84	96 51 70 43	864,89	96 51 70 66	882,98
CR 5-10	1,50	96 51 69 93	862,59	96 51 70 11	880,67	96 51 70 44	892,73	96 51 70 67	910,82
CR 5-11	2,20	96 48 21 64	940,25	96 51 34 12	958,33	96 51 33 82	970,39	96 51 34 40	988,48
CR 5-12	2,20	96 51 33 63	968,26	96 51 34 13	986,35	96 51 33 83	998,40	96 51 34 41	1.016,49
CR 5-13	2,20	96 51 33 64	996,10	96 51 34 14	1.014,18	96 51 33 84	1.026,24	96 51 34 42	1.044,33
CR 5-14	2,20	96 51 33 65	1.026,06	96 51 34 15	1.044,15	96 51 33 85	1.056,21	96 51 34 43	1.074,29
CR 5-15	2,20	96 51 33 67	1.054,08	96 51 34 16	1.072,16	96 51 33 86	1.084,22	96 51 34 44	1.102,30
CR 5-16	2,20	96 51 33 68	1.081,91	96 51 34 17	1.100,00	96 51 33 87	1.112,06	96 51 34 45	1.130,14
CR 5-18	3,00	96 51 33 69	1.205,32	96 51 34 18	1.223,40	96 51 33 88	1.235,46	96 51 34 46	1.253,55
CR 5-20	3,00	96 51 33 80	1.261,35	96 51 34 19	1.279,43	96 51 33 89	1.291,49	96 51 34 47	1.309,57
CR 5-22	4,00	-	-	-	-	96 51 33 81	1.326,77	96 51 34 48	1.344,86
CR 5-24	4,00	-	-	-	-	96 51 33 90	1.382,62	96 51 34 49	1.400,71
CR 5-26	4,00	-	-	-	-	96 51 33 91	1.440,43	96 51 34 50	1.458,51
CR 5-29	4,00	-	-	-	-	96 51 33 92	1.524,11	96 51 34 51	1.542,20
CR 5-32	5,50	-	-	-	-	96 51 33 93	1.733,33	96 51 34 52	1.751,42

Type	Rated Power [kW]	Oval flange (A)			DIN / ANSI / JIS combi flange (FGJ)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 5-36	5,50	-	-	-	-	96 51 33 94	1.844,86	96 51 34 53	1.862,94

Another voltage, single phase motors, other motor suppliers on request. **Liq Tec dry running protection**, Product number 96 55 64 29 .

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18. pump head and foot made of cast iron (EN-JL 1030), hydraulic parts made of stainless steel (1.4301).

Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE) or Viton (HQQV).

Pipe connection:

A = 2-hole oval flange Rp 1½" (CR 10) and Rp 2" (CR 15 and CR 20), **FJ** = DIN/JIS flange DN 40 (CR 10), **F** = DIN flange DN 50 (CR 15 and CR 20)

Connections see Accessories, please order separately.

CR 10 (Product Group: CW)

Type	Rated Power [kW]	Oval flange (A)			DIN / JIS flange (FJ)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 10- 1	0,37	96 50 09 79	661,17	96 50 11 04	683,16	96 50 09 63	693,44		
CR 10- 2	0,75	96 50 09 80	730,85	96 50 11 05	752,84	96 50 09 64	763,12		
CR 10- 3	1,10	96 50 09 81	868,26	96 50 11 06	890,25	96 50 09 65	900,53		
CR 10- 4	1,50	96 50 09 82	979,96	96 50 11 07	1.001,95	96 50 09 66	1.012,23		
CR 10- 5	2,20	96 50 12 27	1.067,38	96 50 13 28	1.089,36	96 50 12 14	1.099,65		
CR 10- 6	2,20	96 50 12 28	1.127,13	96 50 13 29	1.149,11	96 50 12 15	1.159,40		
CR 10- 7	3,00	96 50 12 29	1.244,68	96 50 13 30	1.266,67	96 50 12 16	1.276,95		
CR 10- 8	3,00	96 50 12 30	1.304,61	96 50 13 31	1.326,60	96 50 12 17	1.336,88		
CR 10- 9	3,00	96 50 12 31	1.366,31	96 50 13 32	1.388,30	96 50 12 18	1.398,58		
CR 10-10	4,00	96 50 12 32	1.565,43	96 50 13 33	1.587,41	96 50 12 19	1.597,70		
CR 10-12	4,00	96 50 12 33	1.689,01	96 50 13 34	1.710,99	96 50 12 20	1.721,28		
CR 10-14	5,50	96 50 12 34	1.973,94	96 50 13 35	1.995,92	96 50 12 21	2.006,21		
CR 10-16	5,50	96 50 12 35	2.097,52	96 50 13 36	2.119,50	96 50 12 22	2.129,79		
CR 10-18	7,50	-	-	-	-	96 50 12 23	2.314,89		
CR 10-20	7,50	-	-	-	-	96 50 12 24	2.436,70		
CR 10-22	7,50	-	-	-	-	96 50 12 25	2.560,11		

CR 15 (Product Group: CW)

Type	Rated Power [kW]	Oval flange (A)			DIN flange (F)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 15- 1	1,10	96 50 17 10	854,49	96 50 18 08	875,38	96 50 16 97	885,15	96 50 17 95	906,04
CR 15- 2	2,20	96 50 19 05	1.084,75	96 50 19 95	1.105,64	96 50 18 93	1.115,41	96 50 19 83	1.136,29
CR 15- 3	3,00	96 50 19 06	1.258,92	96 50 19 96	1.279,80	96 50 18 94	1.289,57	96 50 19 84	1.310,46
CR 15- 4	4,00	96 50 19 07	1.467,11	96 50 19 97	1.488,00	96 50 18 95	1.497,77	96 50 19 85	1.518,65
CR 15- 5	4,00	96 50 19 08	1.541,39	96 50 19 98	1.562,28	96 50 18 96	1.572,05	96 50 19 86	1.592,93
CR 15- 6	5,50	96 50 19 09	1.839,70	96 50 19 99	1.860,59	96 50 18 97	1.870,35	96 50 19 87	1.891,24
CR 15- 7	5,50	96 50 19 10	1.913,81	96 50 20 00	1.934,70	96 50 18 98	1.944,47	96 50 19 88	1.965,35
CR 15- 8	7,50	-	-	-	-	96 50 18 99	2.262,65	96 50 19 89	2.283,54
CR 15- 9	7,50	-	-	-	-	96 50 19 00	2.338,79	96 50 19 90	2.359,67
CR 15-10	11,00	-	-	-	-	96 50 19 01	2.747,42	96 50 19 91	2.768,31
CR 15-12	11,00	-	-	-	-	96 50 19 02	2.895,48	96 50 19 92	2.916,37
CR 15-14	11,00	-	-	-	-	96 50 19 03	3.045,90	96 50 19 93	3.066,78
CR 15-17	15,00	-	-	-	-	96 50 19 04	3.894,83	96 50 19 94	3.915,72

CR 20 (Product Group: CW)

Type	Rated Power [kW]	Oval flange (A)			DIN flange (F)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 20- 1	1,10	96 50 03 38	854,49	96 50 04 29	875,38	96 50 03 26	885,15	96 50 04 17	906,04
CR 20- 2	2,20	96 50 05 19	1.084,75	96 50 06 02	1.105,64	96 50 05 08	1.115,41	96 50 05 91	1.136,29
CR 20- 3	4,00	96 50 05 20	1.541,39	96 50 06 03	1.562,28	96 50 05 09	1.572,05	96 50 05 92	1.592,93

Type	Rated Power [kW]	Oval flange (A)			DIN flange (F)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 20- 4	5,50	96 50 05 21	1.827,57	96 50 06 04	1.848,46	96 50 05 10	1.858,23	96 50 05 93	1.879,11
CR 20- 5	5,50	96 50 05 22	1.913,81	96 50 06 05	1.934,70	96 50 05 11	1.944,47	96 50 05 94	1.965,35
CR 20- 6	7,50	96 50 05 23	2.220,04	96 50 06 06	2.240,92	96 50 05 12	2.250,69	96 50 05 95	2.271,58
CR 20- 7	7,50	96 50 05 24	2.308,13	96 50 06 07	2.329,02	96 50 05 13	2.338,79	96 50 05 96	2.359,67
CR 20- 8	11	-	-	-	-	96 50 05 14	2.871,39	96 50 05 97	2.892,28
CR 20-10	11	-	-	-	-	96 50 05 15	3.045,90	96 50 05 98	3.066,78
CR 20-12	15	-	-	-	-	96 50 05 16	3.720,50	96 50 05 99	3.741,38
CR 20-14	15	-	-	-	-	96 50 05 17	3.894,83	96 50 06 00	3.915,72
CR 20-17	18,5	-	-	-	-	96 50 05 18	4.643,88	96 50 06 01	4.664,77

Another voltage, single phase motors, other motor suppliers on request. **LiqTec dry running protection**, Product number 96 55 64 29.

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18. pump head and foot made of cast iron (EN-JL 1030), hydraulic parts made of stainless steel (1.4301).

Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE) or Viton (HQQV).

Pipe connection:

F = DIN flange DN 65 (CR32) and DN 80 (CR45) Connections see Accessories, please order separately.

CR 32 (Product Group: CW)

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 32- 1	2,20	96 12 20 07	1.361,67	96 12 20 35	1.391,65
CR 32- 1-1	1,50	96 12 19 50	1.274,41	96 12 19 78	1.304,40
CR 32- 2	4,00	96 12 20 09	1.842,56	96 12 20 37	1.872,54
CR 32- 2-2	3,00	96 12 20 08	1.573,06	96 12 20 36	1.603,04
CR 32- 3	5,50	96 12 20 11	2.317,23	96 12 20 39	2.347,21
CR 32- 3-2	5,50	96 12 20 10	2.317,23	96 12 20 38	2.347,21
CR 32- 4	7,50	96 12 20 13	2.874,76	96 12 20 41	2.904,74
CR 32- 4-2	7,50	96 12 20 12	2.874,76	96 12 20 40	2.904,74
CR 32- 5	11,00	96 12 20 15	3.614,55	96 12 20 43	3.644,53
CR 32- 5-2	11,00	96 12 20 14	3.614,55	96 12 20 42	3.644,53
CR 32- 6	11,00	96 12 20 17	3.813,48	96 12 20 45	3.843,46
CR 32- 6-2	11,00	96 12 20 16	3.813,48	96 12 20 44	3.843,46
CR 32- 7	15,00	96 12 20 19	4.489,09	96 12 20 47	4.519,07
CR 32- 7-2	15,00	96 12 20 18	4.489,09	96 12 20 46	4.519,07
CR 32- 8	15,00	96 12 20 21	4.685,99	96 12 20 49	4.715,98
CR 32- 8-2	15,00	96 12 20 20	4.685,99	96 12 20 48	4.715,98
CR 32- 9	18,50	96 12 20 23	5.318,15	96 12 20 51	5.348,13
CR 32- 9-2	18,50	96 12 20 22	5.318,15	96 12 20 50	5.348,13
CR 32-10	18,50	96 12 20 25	5.514,88	96 12 20 53	5.544,87
CR 32-10-2	18,50	96 12 20 24	5.514,88	96 12 20 52	5.544,87
CR 32-11	22,00	96 12 20 27	6.182,41	96 12 20 55	6.212,39
CR 32-11-2	22,00	96 12 20 26	6.182,41	96 12 20 54	6.212,39
CR 32-12	22,00	96 12 20 29	6.387,57	96 12 20 57	6.417,55
CR 32-12-2	22,00	96 12 20 28	6.387,57	96 12 20 56	6.417,55
CR 32-13	30,00	96 12 20 31	7.195,91	96 12 20 59	7.225,90
CR 32-13-2	30,00	96 12 20 30	7.195,91	96 12 20 58	7.225,90
CR 32-14	30,00	96 12 20 33	7.392,82	96 12 20 61	7.422,80
CR 32-14-2	30,00	96 12 20 32	7.392,82	96 12 20 60	7.422,80

CR 45 (Product Group: CW)

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 45- 1	4,00	96 12 27 97	1.803,15	96 12 28 22	1.833,13
CR 45- 1-1	3,00	96 12 27 96	1.502,65	96 12 28 21	1.532,63
CR 45- 2	7,50	96 12 27 99	2.880,82	96 12 28 24	2.910,81
CR 45- 2-2	5,50	96 12 27 98	2.279,66	96 12 28 23	2.309,65

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 45- 3	11,00	96 12 28 01	3.643,52	96 12 28 26	3.673,50
CR 45- 3-2	11,00	96 12 28 00	3.643,52	96 12 28 25	3.673,50
CR 45- 4	15,00	96 12 28 03	4.524,46	96 12 28 28	4.554,44
CR 45- 4-2	15,00	96 12 28 02	4.524,46	96 12 28 27	4.554,44
CR 45- 5	18,50	96 12 28 05	5.382,49	96 12 28 30	5.412,47
CR 45- 5-2	18,50	96 12 28 04	5.382,49	96 12 28 29	5.412,47
CR 45- 6	22,00	96 12 28 07	6.107,79	96 12 28 32	6.137,77
CR 45- 6-2	22,00	96 12 28 06	6.107,79	96 12 28 31	6.137,77
CR 45- 7	30,00	96 12 28 09	6.659,10	96 12 28 34	6.689,08
CR 45- 7-2	30,00	96 12 28 08	6.659,10	96 12 28 33	6.689,08
CR 45- 8	30,00	96 12 28 11	6.876,55	96 12 28 36	6.906,53
CR 45- 8-2	30,00	96 12 28 10	6.876,55	96 12 28 35	6.906,53
CR 45- 9	37,00	96 12 28 13	7.724,31	96 12 28 38	7.754,29
CR 45- 9-2	30,00	96 12 28 12	7.094,18	96 12 28 37	7.124,16
CR 45-10	37,00	96 12 28 15	7.925,26	96 12 28 40	7.955,24
CR 45-10-2	37,00	96 12 28 14	7.925,26	96 12 28 39	7.955,24
CR 45-11	45,00	96 12 28 17	10.300,43	96 12 28 42	10.330,41
CR 45-11-2	45,00	96 12 28 16	10.300,43	96 12 28 41	10.330,41
CR 45-12	45,00	96 12 28 19	10.536,75	96 12 28 44	10.566,73
CR 45-12-2	45,00	96 12 28 18	10.536,75	96 12 28 43	10.566,73
CR 45-13-2	45,00	96 12 28 20	10.772,90	96 12 28 45	10.802,88

Liq Tec dry running protection, Product number 96 55 64 29.

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 380 - 415 V, 50 Hz, 2900 min-1, IP 55, with PTC thermistors acc. DIN 44082, form V18.

pump head and foot made of cast iron (EN-JL 1030), hydraulic parts made of stainless steel (1.4301).

Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE) or Viton (HQQV) at CR 64 and CR 90

or in SiC / SiC (HQQx) or carbon / SiC (HBQx), elastomers in EPDM (HxxE) or Viton (HxxV) for CR 120 and CR 150.

Pipe connection: F = DIN flange DN 100 (CR 64 and CR 90), DN 125 (CR 120 and CR 150), DN 100 on request.

Connections see Accessories, please order separately.

CR 64 (Product Group: CW)

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 64-1	5,50	96 12 35 27	2.238,40	96 12 35 49	2.268,38
CR 64-1-1	4,00	96 12 35 26	1.782,43	96 12 35 48	1.812,41
CR 64-2	11,00	96 12 35 30	3.278,85	96 12 35 52	3.308,83
CR 64-2-1	11,00	96 12 35 29	3.278,85	96 12 35 51	3.308,83
CR 64-2-2	7,50	96 12 35 28	2.818,67	96 12 35 50	2.848,65
CR 64-3	18,50	96 12 35 33	5.013,61	96 12 35 55	5.043,59
CR 64-3-1	15,00	96 12 35 32	4.362,59	96 12 35 54	4.392,57
CR 64-3-2	15,00	96 12 35 31	4.362,59	96 12 35 53	4.392,57
CR 64-4	22,00	96 12 35 36	5.830,20	96 12 35 58	5.860,19
CR 64-4-1	22,00	96 12 35 35	5.830,20	96 12 35 57	5.860,19
CR 64-4-2	18,50	96 12 35 34	5.251,61	96 12 35 56	5.281,60
CR 64-5	30,00	96 12 35 39	6.219,47	96 12 35 61	6.249,45
CR 64-5-1	30,00	96 12 35 38	6.219,47	96 12 35 60	6.249,45
CR 64-5-2	30,00	96 12 35 37	6.219,47	96 12 35 59	6.249,45
CR 64-6	37,00	96 12 35 42	7.606,06	96 12 35 64	7.636,05
CR 64-6-1	37,00	96 12 35 41	7.606,06	96 12 35 63	7.636,05
CR 64-6-2	30,00	96 12 35 40	6.455,96	96 12 35 62	6.485,94
CR 64-7	45,00	96 12 35 45	10.350,12	96 12 35 67	10.380,10
CR 64-7-1	37,00	96 12 35 44	7.842,22	96 12 35 66	7.872,20
CR 64-7-2	37,00	96 12 35 43	7.842,22	96 12 35 65	7.872,20
CR 64-8-1	45,00	96 12 35 47	10.584,41	96 12 35 69	10.614,40
CR 64-8-2	45,00	96 12 35 46	10.584,41	96 12 35 68	10.614,40

CR 90 (Product Group: CW)

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CR 90-1	7,50	96 12 40 75	2.723,33	96 12 40 87	2.753,32
CR 90-1-1	5,50	96 12 40 74	2.182,47	96 12 40 86	2.212,46
CR 90-2	15,00	96 12 40 77	4.443,44	96 12 40 89	4.473,42
CR 90-2-2	11,00	96 12 40 76	3.554,41	96 12 40 88	3.584,40
CR 90-3	22,00	96 12 40 79	5.830,20	96 12 40 91	5.860,19
CR 90-3-2	18,50	96 12 40 78	5.251,61	96 12 40 90	5.281,60
CR 90-4	30,00	96 12 40 81	6.219,47	96 12 40 93	6.249,45
CR 90-4-2	30,00	96 12 40 80	6.219,47	96 12 40 92	6.249,45
CR 90-5	37,00	96 12 40 83	7.606,06	96 12 40 95	7.636,05
CR 90-5-2	37,00	96 12 40 82	7.606,06	96 12 40 94	7.636,05
CR 90-6	45,00	96 12 40 85	9.670,46	96 12 40 97	9.700,44
CR 90-6-2	45,00	96 12 40 84	9.670,46	96 12 40 96	9.700,44

CR 120 (Product Group: CW)

Type	Rated Power [kW]	HQVQV Product-No.	EUR	HQQE Product-No.	EUR	HBQV Product-No.	EUR	HBQE Product-No.	EUR
CR 120-1	11	95 92 21 66	3.791,58	95 92 21 50	3.761,60	-	-	-	-
CR 120-2	22	95 92 21 68	5.860,19	95 92 21 52	5.830,20	-	-	-	-
CR 120-2-1	18,5	-	-	95 92 21 51	5.251,61	-	-	-	-
CR 120-3	30	95 92 21 69	6.664,15	95 92 21 53	6.634,17	-	-	-	-
CR 120-4-1	37	95 92 21 70	8.050,74	95 92 21 54	8.020,76	-	-	-	-
CR 120-5-1	45	95 92 21 71	9.700,44	95 92 21 55	9.670,46	-	-	-	-
CR 120-6-1	55	-	-	-	-	95 92 21 72	12.825,67	95 92 21 56	12.825,67
CR 120-7	75	-	-	-	-	95 92 21 73	15.348,73	95 92 21 57	15.348,73

CR 150 (Product Group: CW)

Type	Rated Power [kW]	HQVQV Product-No.	EUR	HQQE Product-No.	EUR	HBQV Product-No.	EUR	HBQE Product-No.	EUR
CR 150-1	15	95 92 23 91	4.473,42	95 92 23 75	4.443,44	-	-	-	-
CR 150-1-1	11	95 92 23 90	3.791,58	95 92 23 74	3.761,60	-	-	-	-
CR 150-2-1	22	95 92 23 92	5.860,19	95 92 23 76	5.830,20	-	-	-	-
CR 150-3	37	95 92 23 94	7.843,56	95 92 23 78	7.813,58	-	-	-	-
CR 150-3-2	30	95 92 23 93	6.664,15	95 92 23 77	6.634,17	-	-	-	-
CR 150-4-1	45	95 92 23 95	9.493,09	95 92 23 79	9.463,11	-	-	-	-
CR 150-5-2	55	-	-	-	-	95 92 23 96	12.615,46	95 92 23 80	12.615,46
CR 150-6	75	-	-	-	-	95 92 23 97	15.138,35	95 92 23 81	15.138,35

Liq Tec dry running protection, Product number 96 55 64 29.

See Accessories

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240 V / 380 - 415 V, 50 Hz, 2900 min⁻¹, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18.

Cartridge shaft seal with SIC / SIC material combination, elastomers in Viton (HQQV) or EPDM (HQQE).

Pipe connection:

PJE = Victaulic connection DN 32, **CA** = FlexiClamp universal adapter DN 32

Connections see Accessories, please order separately.

CRI 1s with FlexiClamp, PJE or Clamp connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4301/1.4408).

Type	Rated Power [kW]	FlexiClamp (CA)		PJE (P)		Mechanical seal HQQV Product-No.	EUR		
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR				
CRI 1s- 2	0,37	96 51 57 73	547,87	96 51 58 06	565,96	96 52 76 28	547,87	96 52 76 60	565,96
CRI 1s- 3	0,37	96 51 57 75	565,96	96 51 58 07	584,04	96 52 76 29	565,96	96 52 76 61	584,04
CRI 1s- 4	0,37	96 51 57 77	583,87	96 51 58 08	601,95	96 52 76 40	583,87	96 52 76 62	601,95
CRI 1s- 5	0,37	96 51 57 78	601,60	96 51 58 10	619,68	96 52 76 41	601,60	96 52 76 63	619,68
CRI 1s- 6	0,37	96 51 57 80	619,68	96 51 58 11	637,77	96 52 76 42	619,68	96 52 76 64	637,77
CRI 1s- 7	0,37	96 51 57 82	637,59	96 51 58 13	655,67	96 52 76 43	637,59	96 52 76 65	655,67
CRI 1s- 8	0,37	96 51 57 84	655,67	96 51 58 15	673,76	96 52 76 44	655,67	96 52 76 66	673,76
CRI 1s- 9	0,37	96 51 57 85	673,58	96 51 58 17	691,67	96 52 76 45	673,58	96 52 76 67	691,67
CRI 1s-10	0,37	96 51 57 87	691,13	96 51 58 18	709,22	96 52 76 46	691,13	96 52 76 68	709,22
CRI 1s-11	0,37	96 51 57 88	709,22	96 51 58 20	727,30	96 52 76 47	709,22	96 52 76 69	727,30
CRI 1s-12	0,37	96 51 57 90	727,13	96 51 58 21	745,21	96 52 76 48	727,13	96 52 76 70	745,21
CRI 1s-13	0,37	96 51 57 92	745,04	96 51 58 22	763,12	96 52 76 49	745,04	96 52 76 71	763,12
CRI 1s-15	0,55	96 51 57 93	800,89	96 51 58 23	818,97	96 52 76 50	800,89	96 52 76 72	818,97
CRI 1s-17	0,55	96 51 57 95	828,72	96 51 58 24	846,81	96 52 76 51	828,72	96 52 76 73	846,81
CRI 1s-19	0,55	96 51 57 96	874,65	96 51 58 25	892,73	96 52 76 52	874,65	96 52 76 74	892,73
CRI 1s-21	0,75	96 51 57 97	950,18	96 51 58 27	968,26	96 52 76 53	950,18	96 52 76 75	968,26
CRI 1s-23	0,75	96 51 57 99	996,10	96 51 58 28	1.014,18	96 52 76 54	996,10	96 52 76 76	1.014,18
CRI 1s-25	0,75	96 51 58 00	1.042,02	96 51 58 29	1.060,11	96 52 76 55	1.042,02	96 52 76 77	1.060,11
CRI 1s-27	1,10	96 51 58 01	1.115,60	96 51 58 31	1.133,69	96 52 76 56	1.115,60	96 52 76 78	1.133,69
CRI 1s-30	1,10	96 51 58 02	1.217,38	96 51 58 32	1.235,46	96 52 76 57	1.217,38	96 52 76 79	1.235,46
CRI 1s-33	1,10	96 51 58 03	1.284,93	96 51 58 34	1.303,01	96 52 76 58	1.284,93	96 52 76 80	1.303,01
CRI 1s-36	1,10	96 51 58 04	1.352,84	96 51 58 36	1.370,92	96 52 76 59	1.352,84	96 52 76 81	1.370,92

CRN 1s with FlexiClamp, PJE or Clamp connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	FlexiClamp (CA)		PJE (P)		CA			
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR		
CRN 1s- 2	0,37	96 53 14 02	609,57	96 51 60 34	591,49	96 51 60 69	609,57	96 53 13 59	591,49
CRN 1s- 3	0,37	96 53 14 05	631,74	96 51 60 36	613,65	96 51 60 70	631,74	96 53 13 61	613,65
CRN 1s- 4	0,37	96 53 14 07	653,55	96 51 60 37	635,46	96 51 60 72	653,55	96 53 13 63	635,46
CRN 1s- 5	0,37	96 53 14 09	675,53	96 51 60 39	657,45	96 51 60 73	675,53	96 53 13 65	657,45
CRN 1s- 6	0,37	96 53 34 88	697,34	96 51 60 41	679,26	96 51 60 74	697,34	96 53 13 67	679,26
CRN 1s- 7	0,37	96 53 14 17	719,33	96 51 60 43	701,24	96 51 60 76	719,33	96 53 13 69	701,24
CRN 1s- 8	0,37	96 53 14 18	741,31	96 51 60 44	723,23	96 51 60 78	741,31	96 53 13 70	723,23
CRN 1s- 9	0,37	96 53 14 19	763,12	96 51 60 46	745,04	96 51 60 80	763,12	96 53 13 72	745,04
CRN 1s-10	0,37	96 53 14 21	785,11	96 51 60 47	767,02	96 51 60 81	785,11	96 53 13 73	767,02
CRN 1s-11	0,37	96 53 14 22	806,91	96 51 60 48	788,83	96 51 60 82	806,91	96 53 13 75	788,83
CRN 1s-12	0,37	96 53 14 23	828,90	96 51 60 50	810,82	96 51 60 84	828,90	96 53 13 76	810,82
CRN 1s-13	0,37	96 53 14 25	850,89	96 51 60 51	832,80	96 51 60 85	850,89	96 53 13 77	832,80
CRN 1s-15	0,55	96 48 18 95	876,77	96 51 60 53	858,69	96 51 60 87	876,77	96 53 13 80	858,69
CRN 1s-17	0,55	-	-	96 51 60 54	912,59	96 51 60 88	930,67	96 53 13 81	912,59
CRN 1s-19	0,55	96 53 14 29	984,40	96 51 60 56	966,31	96 51 60 90	984,40	96 53 13 83	966,31
CRN 1s-21	0,75	96 53 14 37	1.075,89	96 51 60 58	1.057,80	96 51 60 92	1.075,89	96 53 13 85	1.057,80
CRN 1s-23	0,75	96 53 14 40	1.129,79	96 51 60 59	1.111,70	96 51 60 94	1.129,79	96 53 13 87	1.111,70
CRN 1s-25	0,75	96 53 14 41	1.185,46	96 51 60 61	1.167,38	96 51 60 96	1.185,46	96 53 13 90	1.167,38
CRN 1s-27	1,10	96 53 14 44	1.249,29	96 51 60 62	1.231,21	96 51 60 97	1.249,29	96 53 13 91	1.231,21
CRN 1s-30	1,10	96 53 14 46	1.354,96	96 51 60 64	1.336,88	96 51 60 99	1.354,96	96 53 13 94	1.336,88
CRN 1s-33	1,10	96 53 14 47	1.438,65	96 51 60 66	1.420,57	96 51 61 01	1.438,65	96 53 13 97	1.420,57
CRN 1s-36	1,10	96 53 14 48	1.520,21	96 51 60 67	1.502,13	96 51 61 02	1.520,21	96 53 13 98	1.502,13

Another voltage, single phase motors, other motor suppliers on request

LiqTec dry running protection, Product number 96 55 64 29.

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240 V/380 - 415 V, 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18.

Cartridge shaft seal with SiC / SiC material combination, elastomers in Viton (HQV) or EPDM (HQE).

CRI: pump head and foot, hydraulic parts made of stainless steel (1.4301).

Pipe connection:

FGJ = combi flange DN 25/32 DIN/ANSI/JIS

Connections see Accessories, please order separately.

CRI 1s with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4301).

Type	Rated Power [kW]	Mechanical seal HQE Product-No.	EUR	Mechanical seal HQV Product-No.	EUR
CRI 1s- 2	0,37	96 52 75 13	582,09	96 52 75 96	600,18
CRI 1s- 3	0,37	96 52 75 15	600,18	96 52 75 97	618,26
CRI 1s- 4	0,37	96 52 75 16	618,09	96 52 75 98	636,17
CRI 1s- 5	0,37	96 52 75 53	635,82	96 52 75 99	653,90
CRI 1s- 6	0,37	96 52 75 54	653,90	96 52 76 10	671,99
CRI 1s- 7	0,37	96 52 75 55	671,81	96 52 76 11	689,89
CRI 1s- 8	0,37	96 52 75 56	689,89	96 52 76 12	707,98
CRI 1s- 9	0,37	96 52 75 57	707,80	96 52 76 13	725,89
CRI 1s-10	0,37	96 52 75 58	725,35	96 52 76 14	743,44
CRI 1s-11	0,37	96 52 75 59	743,44	96 52 76 15	761,52
CRI 1s-12	0,37	96 52 75 70	761,35	96 52 76 16	779,43
CRI 1s-13	0,37	96 52 75 72	779,26	96 52 76 17	797,34
CRI 1s-15	0,55	96 52 75 73	835,11	96 52 76 18	853,19
CRI 1s-17	0,55	96 52 75 74	862,94	96 52 76 19	881,03
CRI 1s-19	0,55	96 52 75 75	908,87	96 52 76 20	926,95
CRI 1s-21	0,75	96 52 75 76	984,40	96 52 76 21	1.002,48
CRI 1s-23	0,75	96 52 75 78	1.030,32	96 52 76 22	1.048,40
CRI 1s-25	0,75	96 52 75 79	1.076,24	96 52 76 23	1.094,33
CRI 1s-27	1,10	96 52 75 90	1.149,82	96 52 76 24	1.167,91
CRI 1s-30	1,10	96 52 75 91	1.251,60	96 52 76 25	1.269,68
CRI 1s-33	1,10	96 52 75 94	1.319,15	96 52 76 26	1.337,23
CRI 1s-36	1,10	96 52 75 95	1.387,06	96 52 76 27	1.405,14

CRN 1s with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	Mechanical seal HQE Product-No.	EUR	Mechanical seal HQV Product-No.	EUR
CRN 1s- 2	0,37	96 51 58 98	643,79	96 51 59 29	661,88
CRN 1s- 3	0,37	96 51 58 99	665,96	96 51 59 30	684,04
CRN 1s- 4	0,37	96 51 59 00	687,77	96 51 59 31	705,85
CRN 1s- 5	0,37	96 51 59 02	709,75	96 51 59 33	727,84
CRN 1s- 6	0,37	96 51 59 03	731,56	96 51 59 35	749,65
CRN 1s- 7	0,37	96 51 59 04	753,55	96 51 59 36	771,63
CRN 1s- 8	0,37	96 51 59 05	775,53	96 51 59 38	793,62
CRN 1s- 9	0,37	96 51 59 06	797,34	96 51 59 39	815,43
CRN 1s-10	0,37	96 51 59 07	819,33	96 51 59 40	837,41
CRN 1s-11	0,37	96 51 59 08	841,13	96 51 59 42	859,22
CRN 1s-12	0,37	96 51 59 09	863,12	96 51 59 43	881,21
CRN 1s-13	0,37	96 51 59 11	885,11	96 51 59 44	903,19

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 1s-15	0,55	96 51 59 13	910,99	96 51 59 45	929,08
CRN 1s-17	0,55	96 51 59 14	964,89	96 51 59 46	982,98
CRN 1s-19	0,55	96 51 59 16	1.018,62	96 51 59 48	1.036,70
CRN 1s-21	0,75	96 51 59 18	1.110,11	96 51 59 50	1.128,19
CRN 1s-23	0,75	96 51 59 20	1.164,01	96 51 59 51	1.182,09
CRN 1s-25	0,75	96 51 59 21	1.219,68	96 51 59 53	1.237,77
CRN 1s-27	1,10	96 51 59 23	1.283,51	96 51 59 55	1.301,60
CRN 1s-30	1,10	96 51 59 25	1.389,18	96 51 59 56	1.407,27
CRN 1s-33	1,10	96 51 59 26	1.472,87	96 51 59 58	1.490,96
CRN 1s-36	1,10	96 51 59 28	1.554,43	96 51 59 59	1.572,52

Another voltage, single phase motors, other motor suppliers on request. **LiqTec dry running protection**, Product number 96 55 64 29.

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240 V/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc.

DIN 44082, form V18. Cartridge shaft seal with SiC / SiC material combination, elastomers Viton (HQQV) or EPDM (HQQE).

Pipe connection:

PJE = Victaulic connection DN 32, **CA** = FlexiClamp universal adapter DN 32

Connections see Accessories, please order separately.

CRI 1 with FlexiClamp, PJE or Clamp connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4301).

Type	Rated Power [kW]	FlexiClamp (CA)			PJE (P)			EUR	EUR	EUR
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR			
CR1 1- 2	0,37	96 51 63 16	539,89	96 51 63 38	557,98	96 52 78 21	539,89	96 52 78 54	557,98	
CR1 1- 3	0,37	96 51 63 17	557,98	96 51 63 39	576,06	96 52 78 22	557,98	96 52 78 55	576,06	
CR1 1- 4	0,37	96 51 63 18	575,89	96 51 63 40	593,97	96 52 78 23	575,89	96 52 78 56	593,97	
CR1 1- 5	0,37	96 51 63 19	593,79	96 51 63 41	611,88	96 52 78 24	593,79	96 52 78 57	611,88	
CR1 1- 6	0,37	96 51 63 20	611,70	96 51 63 42	629,79	96 52 76 87	611,70	96 52 78 58	629,79	
CR1 1- 7	0,37	96 51 63 21	629,61	96 51 63 43	647,70	96 52 78 35	629,61	96 52 78 59	647,70	
CR1 1- 8	0,55	96 51 63 22	635,46	96 51 63 44	653,55	96 52 78 37	635,46	96 53 81 67	653,55	
CR1 1- 9	0,55	96 51 63 23	657,45	96 51 63 45	675,53	96 52 78 38	657,45	96 53 81 68	675,53	
CR1 1-10	0,55	96 51 63 24	685,46	96 51 63 46	703,55	96 52 78 39	685,46	96 53 81 69	703,55	
CR1 1-11	0,55	96 51 63 25	713,30	96 51 63 47	731,38	96 52 78 41	713,30	96 53 81 80	731,38	
CR1 1-12	0,75	96 51 63 26	739,18	96 51 63 48	757,27	96 52 78 42	739,18	96 52 78 69	757,27	
CR1 1-13	0,75	96 51 63 27	773,23	96 51 63 49	791,31	96 52 78 43	773,23	96 52 78 80	791,31	
CR1 1-15	0,75	96 51 63 28	830,67	96 51 63 50	848,76	96 52 78 44	830,67	96 53 81 81	848,76	
CR1 1-17	1,10	96 51 63 29	886,52	96 51 63 51	904,61	96 52 78 45	886,52	96 53 81 82	904,61	
CR1 1-19	1,10	96 51 63 30	944,33	96 51 63 52	962,41	96 52 78 46	944,33	96 53 81 83	962,41	
CR1 1-21	1,10	96 51 63 31	1.000,18	96 51 63 53	1.018,26	96 52 78 47	1.000,18	96 52 78 81	1.018,26	
CR1 1-23	1,10	96 51 63 32	1.045,92	96 51 63 54	1.064,01	96 52 78 48	1.045,92	96 52 78 82	1.064,01	
CR1 1-25	1,50	-	-	96 51 63 55	1.215,25	96 52 78 49	1.197,16	96 52 78 83	1.215,25	
CR1 1-27	1,50	96 51 63 34	1.275,00	96 51 63 56	1.293,09	96 52 78 50	1.275,00	96 52 78 84	1.293,09	
CR1 1-30	1,50	96 51 63 35	1.358,69	96 51 63 57	1.376,77	96 52 78 51	1.358,69	96 52 78 85	1.376,77	
CR1 1-33	2,20	96 51 63 94	1.534,04	96 51 63 96	1.552,13	96 56 02 31	1.534,04	96 52 78 86	1.552,13	
CR1 1-36	2,20	96 51 63 95	1.617,73	96 51 63 97	1.635,82	96 56 02 32	1.617,73	96 52 78 87	1.635,82	

CRN 1 with FlexiClamp, PJE or Clamp connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	FlexiClamp (CA)			PJE (P)			EUR	EUR	EUR
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR			
CRN 1- 2	0,37	96 52 06 58	591,49	96 52 05 27	609,57	96 51 64 77	591,49	96 51 65 08	609,57	
CRN 1- 3	0,37	96 52 06 59	613,65	96 52 05 29	631,74	96 51 64 78	613,65	96 51 65 09	631,74	
CRN 1- 4	0,37	96 52 06 60	635,46	96 52 06 40	653,55	96 51 64 80	635,46	96 51 65 10	653,55	
CRN 1- 5	0,37	-	-	96 52 06 41	675,53	96 51 64 81	657,45	96 51 65 11	675,53	
CRN 1- 6	0,37	96 48 47 58	679,26	96 52 06 42	697,34	96 51 64 83	679,26	96 51 65 12	697,34	
CRN 1- 7	0,37	96 52 06 61	701,24	96 52 06 43	719,33	96 51 64 85	701,24	96 51 65 13	719,33	
CRN 1- 8	0,55	96 52 06 63	715,25	96 52 06 44	733,33	96 51 64 86	715,25	96 51 65 14	733,33	

Type	Rated Power [kW]	FlexiClamp (CA)			PJE (P)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 1-9	0,55	96 49 93 32	733,16	96 52 06 45	751,24	96 51 64 88	733,16	96 51 65 15	751,24
CRN 1-10	0,55	96 52 06 64	767,02	96 52 06 46	785,11	96 51 64 89	767,02	96 51 65 16	785,11
CRN 1-11	0,55	96 52 06 66	798,76	96 52 06 47	816,84	96 51 64 90	798,76	96 51 65 17	816,84
CRN 1-12	0,75	96 52 06 69	830,67	96 52 06 48	848,76	96 51 64 92	830,67	96 51 65 18	848,76
CRN 1-13	0,75	96 52 06 70	862,59	96 52 06 49	880,67	96 51 64 93	862,59	96 51 65 19	880,67
CRN 1-15	0,75	96 52 06 71	928,37	96 52 06 50	946,45	96 51 64 95	928,37	96 51 65 20	946,45
CRN 1-17	1,10	96 52 06 72	998,05	96 52 06 51	1.016,13	96 51 64 97	998,05	96 51 65 21	1.016,13
CRN 1-19	1,10	96 52 06 73	1.061,88	96 52 06 52	1.079,96	96 51 64 98	1.061,88	96 51 65 22	1.079,96
CRN 1-21	1,10	96 52 06 74	1.127,66	96 52 06 53	1.145,74	96 51 65 00	1.127,66	96 51 65 23	1.145,74
CRN 1-23	1,10	96 52 06 75	1.191,49	96 52 06 54	1.209,57	96 51 65 01	1.191,49	96 51 65 24	1.209,57
CRN 1-25	1,50	96 52 06 76	1.330,85	96 52 06 55	1.348,94	96 51 65 03	1.330,85	96 51 65 26	1.348,94
CRN 1-27	1,50	96 52 06 77	1.394,50	96 52 06 56	1.412,59	96 51 65 04	1.394,50	96 51 65 27	1.412,59
CRN 1-30	1,50	96 52 06 78	1.490,25	96 52 06 57	1.508,33	96 51 65 05	1.490,25	96 51 65 28	1.508,33
CRN 1-33	2,20	96 51 41 18	1.679,61	96 51 39 58	1.697,70	96 51 35 10	1.679,61	96 51 34 54	1.697,70
CRN 1-36	2,20	96 51 41 19	1.775,00	96 51 39 59	1.793,09	96 51 35 11	1.775,00	96 51 34 55	1.793,09

Another voltage, single phase motors, other motor suppliers on request. **LiqTec dry running protection**, Product number 96 55 64 29.

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240 V/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc.

DIN 44082, form V18. Cartridge shaft seal with SiC / SiC material combination, elastomers Viton (HQV) or EPDM (HQE)

Pipe connection:

FGJ = combi flange DN 25/32 DIN/ANSI/JIS

Connections see Accessories, please order separately.

CRI 1 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN V.Nr. 1.4301/1.4408).

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRI 1-2	0,37	96 52 77 16	574,11	96 52 76 82	592,20
CRI 1-3	0,37	96 52 76 83	592,20	96 52 77 17	610,28
CRI 1-4	0,37	96 52 76 84	610,11	96 52 77 18	628,19
CRI 1-5	0,37	96 52 76 85	628,01	96 52 77 20	646,10
CRI 1-6	0,37	96 52 81 56	645,92	96 52 77 22	664,01
CRI 1-7	0,37	96 52 76 90	663,83	96 52 77 24	681,91
CRI 1-8	0,55	96 52 76 91	669,68	96 52 77 25	687,77
CRI 1-9	0,55	96 52 76 92	691,67	96 52 77 26	709,75
CRI 1-10	0,55	96 52 81 54	719,68	96 52 76 97	737,77
CRI 1-11	0,55	96 52 77 01	747,52	96 52 77 54	765,60
CRI 1-12	0,75	96 52 77 04	773,40	96 52 77 59	791,49
CRI 1-13	0,75	96 52 77 05	807,45	96 52 77 70	825,53
CRI 1-15	0,75	96 52 77 06	864,89	96 52 77 72	882,98
CRI 1-17	1,10	96 52 77 07	920,74	96 52 77 71	938,83
CRI 1-19	1,10	96 52 77 08	978,55	96 53 81 48	996,63
CRI 1-21	1,10	96 52 77 09	1.034,40	96 53 06 20	1.052,48
CRI 1-23	1,10	96 52 77 10	1.080,14	96 52 94 93	1.098,23
CRI 1-25	1,50	96 52 77 11	1.231,38	96 53 06 21	1.249,47
CRI 1-27	1,50	96 52 77 12	1.309,22	96 53 06 22	1.327,30
CRI 1-30	1,50	96 52 77 13	1.392,91	96 53 06 23	1.410,99
CRI 1-33	2,20	96 56 01 83	1.568,26	96 56 02 09	1.586,35
CRI 1-36	2,20	96 56 01 84	1.651,95	96 56 02 10	1.670,04

CRN 1 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN V.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 1-2	0,37	96 51 63 98	643,79	96 51 64 20	661,88
CRN 1-3	0,37	96 51 63 99	665,96	96 51 64 21	684,04
CRN 1-4	0,37	96 51 64 00	687,77	96 51 64 22	705,85

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 1-5	0,37	96 51 64 01	709,75	96 51 64 23	727,84
CRN 1-6	0,37	96 51 64 02	731,56	96 51 64 24	749,65
CRN 1-7	0,37	96 51 64 03	753,55	96 51 64 25	771,63
CRN 1-8	0,55	96 51 64 04	767,55	96 51 64 26	785,64
CRN 1-9	0,55	96 51 64 05	785,46	96 51 64 27	803,55
CRN 1-10	0,55	96 51 64 06	819,33	96 51 64 28	837,41
CRN 1-11	0,55	96 51 64 07	851,06	96 51 64 29	869,15
CRN 1-12	0,75	96 51 64 08	882,98	96 51 64 30	901,06
CRN 1-13	0,75	96 51 64 09	914,89	96 51 64 31	932,98
CRN 1-15	0,75	96 51 64 10	980,67	96 51 64 32	998,76
CRN 1-17	1,10	96 51 64 11	1.050,35	96 51 64 33	1.068,44
CRN 1-19	1,10	96 51 64 12	1.114,18	96 51 64 34	1.132,27
CRN 1-21	1,10	96 51 64 13	1.179,96	96 51 64 35	1.198,05
CRN 1-23	1,10	96 51 64 14	1.243,79	96 51 64 36	1.261,88
CRN 1-25	1,50	96 51 64 15	1.383,16	96 51 64 37	1.401,24
CRN 1-27	1,50	96 51 64 16	1.446,81	96 51 64 38	1.464,89
CRN 1-30	1,50	96 51 64 17	1.542,55	96 51 64 39	1.560,64
CRN 1-33	2,20	96 51 41 16	1.731,91	96 51 39 56	1.750,00
CRN 1-36	2,20	96 51 41 17	1.827,30	96 51 39 57	1.845,39

Another voltage, single phase motors, other motor suppliers on request. **LiqTec dry running protection**, Product number 96 55 64 29.

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3x220 - 240 V/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 1/min, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18. Cartridge shaft seal with SiC / SiC material combination, elastomers Viton (HQQV) or EPDM (HQQE).

Pipe connection:

PJE = Victaulic Anschluß DN32, CA = Flexi Clamp universal adapter DN32

Connections see Accessories, please order separately.

CRI 3 with FlexiClamp, PJE or Clamp connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4301).

Type	Rated Power [kW]	FlexiClamp (CA)			PJE (P)					
		Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	
CRI 3-2	0,37	96 51 67 43	543,97	-	-	96 52 79 50	525,89	96 52 79 74	543,97	
CRI 3-3	0,37	96 51 67 44	569,86	96 51 67 21	551,77	96 52 79 52	551,77	96 52 79 75	569,86	
CRI 3-4	0,37	96 51 67 45	597,70	96 51 67 22	579,61	96 52 79 53	579,61	96 52 79 76	597,70	
CRI 3-5	0,37	96 51 67 46	623,76	96 51 67 23	605,67	96 52 79 54	605,67	96 52 79 77	623,76	
CRI 3-6	0,55	96 51 67 47	631,74	96 51 67 24	613,65	96 52 79 55	613,65	96 52 79 79	631,74	
CRI 3-7	0,55	96 51 67 48	663,48	96 51 67 25	645,39	96 52 79 56	645,39	96 52 79 80	663,48	
CRI 3-8	0,75	96 51 67 49	697,34	96 51 67 26	679,26	96 52 79 57	679,26	96 52 79 81	697,34	
CRI 3-9	0,75	96 51 67 50	727,30	96 51 67 27	709,22	96 52 79 58	709,22	96 52 79 82	727,30	
CRI 3-10	0,75	96 51 67 51	757,27	96 51 67 28	739,18	96 52 79 59	739,18	96 52 79 83	757,27	
CRI 3-11	1,10	96 51 67 52	803,19	96 51 67 29	785,11	96 52 79 60	785,11	96 52 79 84	803,19	
CRI 3-12	1,10	96 51 67 53	836,88	96 51 67 30	818,79	96 52 79 61	818,79	96 52 79 85	836,88	
CRI 3-13	1,10	96 51 67 54	870,74	96 51 67 31	852,66	96 52 79 62	852,66	96 52 79 86	870,74	
CRI 3-15	1,10	96 51 67 56	938,48	96 51 67 32	920,39	96 52 79 63	920,39	96 52 79 87	938,48	
CRI 3-17	1,50	96 51 67 57	1.065,96	96 51 67 33	1.047,87	96 52 79 64	1.047,87	96 52 79 88	1.065,96	
CRI 3-19	1,50	96 51 67 58	1.131,74	96 51 67 34	1.113,65	96 52 79 65	1.113,65	96 52 79 89	1.131,74	
CRI 3-21	2,20	96 51 68 11	1.175,53	96 51 68 03	1.157,45	96 53 22 14	1.157,45	96 53 22 98	1.175,53	
CRI 3-23	2,20	96 51 68 12	1.243,44	96 51 68 04	1.225,35	96 53 22 17	1.225,35	96 53 23 02	1.243,44	
CRI 3-25	2,20	96 51 68 13	1.311,17	96 51 68 05	1.293,09	96 53 22 24	1.293,09	96 53 23 08	1.311,17	
CRI 3-27	2,20	96 51 68 14	1.378,90	96 51 68 06	1.360,82	96 53 22 42	1.360,82	96 53 23 14	1.378,90	
CRI 3-29	2,20	96 51 68 15	1.446,45	96 51 68 07	1.428,37	96 53 22 60	1.428,37	96 53 23 22	1.446,45	
CRI 3-31	3,00	96 51 68 16	1.478,55	96 51 68 08	1.460,46	96 53 22 63	1.460,46	96 52 84 43	1.478,55	
CRI 3-33	3,00	96 51 68 17	1.560,28	96 51 68 09	1.542,20	96 53 22 68	1.542,20	96 52 84 45	1.560,28	
CRI 3-36	3,00	96 51 68 18	1.643,79	96 51 68 10	1.625,71	96 53 22 72	1.625,71	96 52 84 46	1.643,79	

CRN 3 with FlexiClamp, PJE or Clamp connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	FlexiClamp (CA)		PJE (P)					
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 3- 2	0,37	96 52 07 75	607,62	96 52 06 83	625,71	96 51 68 97	607,62	96 51 69 16	625,71
CRN 3- 3	0,37	96 52 07 76	639,54	96 52 06 84	657,62	96 48 40 41	639,54	96 51 69 17	657,62
CRN 3- 4	0,37	96 50 63 20	669,33	96 50 59 76	687,41	96 51 68 98	669,33	96 51 69 18	687,41
CRN 3- 5	0,37	96 52 07 77	701,24	96 52 07 63	719,33	96 51 68 99	701,24	96 51 69 19	719,33
CRN 3- 6	0,55	96 52 07 78	699,11	96 52 07 64	717,20	96 51 69 00	699,11	96 49 03 18	717,20
CRN 3- 7	0,55	96 52 07 79	731,03	96 52 07 65	749,11	96 49 35 43	731,03	96 51 69 20	749,11
CRN 3- 8	0,75	96 52 07 80	778,90	96 52 07 66	796,99	96 51 69 01	778,90	96 51 69 21	796,99
CRN 3- 9	0,75	96 52 07 81	810,82	96 52 07 67	828,90	96 51 69 02	810,82	96 51 69 22	828,90
CRN 3-10	0,75	96 52 07 82	842,73	96 52 07 68	860,82	96 49 91 88	842,73	96 51 69 23	860,82
CRN 3-11	1,10	96 52 07 83	896,45	96 52 07 69	914,54	96 51 69 03	896,45	96 49 50 64	914,54
CRN 3-12	1,10	96 52 07 85	928,37	96 52 07 70	946,45	96 51 69 04	928,37	96 51 69 24	946,45
CRN 3-13	1,10	96 52 07 86	960,11	96 52 07 71	978,19	96 51 69 05	960,11	96 51 69 25	978,19
CRN 3-15	1,10	96 52 07 87	1.026,06	96 52 07 72	1.044,15	96 51 69 06	1.026,06	96 51 69 26	1.044,15
CRN 3-17	1,50	96 52 07 88	1.169,33	96 52 07 73	1.187,41	96 50 51 11	1.169,33	96 51 69 27	1.187,41
CRN 3-19	1,50	96 52 07 89	1.233,16	96 52 07 74	1.251,24	96 51 69 07	1.233,16	96 51 69 28	1.251,24
CRN 3-21	2,20	96 51 41 53	1.278,90	96 51 41 37	1.296,99	96 51 34 56	1.278,90	96 51 34 64	1.296,99
CRN 3-23	2,20	96 51 41 54	1.342,91	96 51 41 38	1.360,99	96 51 34 57	1.342,91	96 51 34 65	1.360,99
CRN 3-25	2,20	96 51 41 55	1.408,51	96 51 41 39	1.426,60	96 51 34 58	1.408,51	96 51 34 66	1.426,60
CRN 3-27	2,20	96 51 41 56	1.472,34	96 51 41 40	1.490,43	96 51 34 59	1.472,34	96 51 34 67	1.490,43
CRN 3-29	2,20	96 51 41 57	1.535,99	96 51 41 41	1.554,08	96 51 34 60	1.535,99	96 51 34 68	1.554,08
CRN 3-31	3,00	96 51 41 58	1.621,63	96 51 41 42	1.639,72	96 51 34 61	1.621,63	96 51 34 69	1.639,72
CRN 3-33	3,00	96 51 41 59	1.685,28	96 51 41 43	1.703,37	96 51 34 62	1.685,28	96 51 34 80	1.703,37
CRN 3-36	3,00	96 51 41 60	1.782,98	96 51 41 44	1.801,06	96 51 34 63	1.782,98	96 51 34 81	1.801,06

Another voltage, single phase motors, other motor suppliers on request. **LiqTec dry running protection**, Product number 96 55 64 29.Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240 V/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18. Cartridge shaft seal with SiC / SiC material combination, elastomers Viton (HQQV) or EPDMN (HQQE).

Pipe connection:

FGJ = combi flange DN 25/32 DIN/ANSI/JIS

Connections see Accessories, please order separately.

CRI 3 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4301).

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRI 3- 2	0,37	96 52 78 88	560,11	96 52 79 15	578,19
CRI 3- 3	0,37	96 52 78 89	585,99	96 52 79 16	604,08
CRI 3- 4	0,37	96 52 78 90	613,83	96 52 79 17	631,91
CRI 3- 5	0,37	96 52 78 91	639,89	96 52 79 19	657,98
CRI 3- 6	0,55	96 52 78 92	647,87	96 52 79 20	665,96
CRI 3- 7	0,55	96 52 78 93	679,61	96 52 79 21	697,70
CRI 3- 8	0,75	96 52 78 94	713,48	96 52 79 22	731,56
CRI 3- 9	0,75	96 52 78 99	743,44	96 52 78 95	761,52
CRI 3-10	0,75	96 52 78 96	773,40	96 52 79 23	791,49
CRI 3-11	1,10	96 52 78 97	819,33	96 52 79 24	837,41
CRI 3-12	1,10	96 52 78 98	853,01	96 52 79 25	871,10
CRI 3-13	1,10	96 52 79 00	886,88	96 52 79 26	904,96
CRI 3-15	1,10	96 52 79 01	954,61	96 52 79 28	972,70
CRI 3-17	1,50	96 52 79 02	1.082,09	96 52 79 29	1.100,18
CRI 3-19	1,50	96 52 79 03	1.147,87	96 52 79 30	1.165,96
CRI 3-21	2,20	96 53 23 83	1.191,67	96 53 24 42	1.209,75
CRI 3-23	2,20	96 53 23 86	1.259,57	96 53 24 45	1.277,66
CRI 3-25	2,20	96 53 23 91	1.327,30	96 53 24 50	1.345,39
CRI 3-27	2,20	96 53 24 03	1.395,04	96 53 24 77	1.413,12
CRI 3-29	2,20	96 53 24 13	1.462,59	96 53 24 52	1.480,67

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRI 3-31	3,00	96 53 24 18	1.494,68	96 52 84 47	1.512,77
CRI 3-33	3,00	96 53 24 22	1.576,42	96 52 84 48	1.594,50
CRI 3-36	3,00	96 53 24 25	1.659,93	96 52 84 49	1.678,01

CRN 3 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 3- 2	0,37	96 51 68 19	659,93	96 51 68 49	678,01
CRN 3- 3	0,37	96 51 68 30	691,84	96 51 68 50	709,93
CRN 3- 4	0,37	96 51 68 31	721,63	96 51 68 51	739,72
CRN 3- 5	0,37	96 49 99 85	753,55	96 51 68 52	771,63
CRN 3- 6	0,55	96 51 54 06	751,42	96 51 68 53	769,50
CRN 3- 7	0,55	96 48 91 24	783,33	96 51 68 54	801,42
CRN 3- 8	0,75	96 51 68 32	831,21	96 51 68 55	849,29
CRN 3- 9	0,75	96 51 68 33	863,12	96 51 68 56	881,21
CRN 3-10	0,75	96 51 68 34	895,04	96 51 68 57	913,12
CRN 3-11	1,10	96 51 68 35	948,76	96 51 68 58	966,84
CRN 3-12	1,10	96 51 68 36	980,67	96 51 68 59	998,76
CRN 3-13	1,10	96 51 68 37	1.012,41	96 51 68 60	1.030,50
CRN 3-15	1,10	96 51 68 38	1.078,37	96 51 68 61	1.096,45
CRN 3-17	1,50	96 51 68 39	1.221,63	96 51 68 62	1.239,72
CRN 3-19	1,50	96 51 68 40	1.285,46	96 51 68 63	1.303,55
CRN 3-21	2,20	96 51 41 45	1.331,21	96 51 41 30	1.349,29
CRN 3-23	2,20	96 51 41 46	1.395,21	96 51 41 31	1.413,30
CRN 3-25	2,20	96 51 41 47	1.460,82	96 51 41 32	1.478,90
CRN 3-27	2,20	96 51 41 48	1.524,65	96 51 41 33	1.542,73
CRN 3-29	2,20	96 51 41 49	1.588,30	96 51 41 34	1.606,38
CRN 3-31	3,00	96 51 41 50	1.673,94	96 51 41 35	1.692,02
CRN 3-33	3,00	96 51 41 51	1.737,59	96 51 41 36	1.755,67
CRN 3-36	3,00	96 51 41 52	1.835,28	96 48 21 81	1.853,37

Another voltage, single phase motors, other motor suppliers on request. **LiQTec dry running protection**, Product number 96 55 64 29.Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240 V/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18.

Cartridge shaft seal with SiC / SiC material combination, elastomers Viton (HQQV) or EPDM (HQQE)

Pipe connection:

PJE = Victaulic connection DN 32, **CA** = Flexi Clamp universal adapter DN 32

Connections see Accessories, please order separately.

CRI 5 with FlexiClamp, PJE or Clamp connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4301).

Type	Rated Power [kW]	FlexiClamp (CA)		PJE (P)		Mechanical seal HQQV Product-No.	EUR		
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR				
CRI 5- 2	0,37	96 51 70 98	599,65	96 51 71 20	617,73	96 52 80 45	599,65	96 52 80 69	617,73
CRI 5- 3	0,55	96 51 70 99	629,61	96 51 71 21	647,70	96 52 80 46	629,61	96 52 80 70	647,70
CRI 5- 4	0,55	96 51 71 00	675,53	96 51 71 22	693,62	96 52 80 47	675,53	96 52 80 71	693,62
CRI 5- 5	0,75	96 52 20 55	731,03	96 52 21 06	749,11	96 52 80 48	731,03	96 52 80 72	749,11
CRI 5- 6	1,10	96 51 71 01	751,06	96 51 71 23	769,15	96 52 80 49	751,06	96 52 80 73	769,15
CRI 5- 7	1,10	-	-	96 51 71 24	796,99	96 52 80 50	778,90	96 52 80 74	796,99
CRI 5- 8	1,10	96 51 71 03	806,91	96 51 71 25	825,00	96 52 80 51	806,91	96 52 80 75	825,00
CRI 5- 9	1,50	96 51 71 04	914,54	96 51 71 26	932,62	96 52 80 52	914,54	96 52 80 76	932,62
CRI 5-10	1,50	96 51 71 05	950,18	96 51 71 27	968,26	96 52 80 53	950,18	96 52 80 78	968,26
CRI 5-11	2,20	96 51 71 54	1.034,04	96 51 71 68	1.052,13	96 53 12 90	1.034,04	96 53 29 18	1.052,13
CRI 5-12	2,20	96 51 71 55	1.061,88	96 51 71 69	1.079,96	96 53 12 91	1.061,88	96 53 29 24	1.079,96
CRI 5-13	2,20	96 51 71 56	1.091,84	96 51 71 70	1.109,93	96 53 12 92	1.091,84	96 53 29 30	1.109,93
CRI 5-14	2,20	96 51 71 57	1.119,68	96 51 71 71	1.137,77	96 53 28 86	1.119,68	96 53 29 36	1.137,77
CRI 5-15	2,20	96 51 71 58	1.147,52	96 51 71 72	1.165,60	96 53 28 96	1.147,52	96 53 29 39	1.165,60

Type	Rated Power [kW]	FlexiClamp (CA)			PJE (P)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRI 5-16	2,20	96 51 71 59	1.175,35	96 51 71 73	1.193,44	96 53 29 00	1.175,35	96 53 29 43	1.193,44
CRI 5-18	3,00	96 51 71 60	1.314,89	96 51 71 74	1.332,98	96 53 29 02	1.314,89	96 52 84 50	1.332,98
CRI 5-20	3,00	96 51 71 61	1.372,70	96 51 71 75	1.390,78	96 53 29 09	1.372,70	96 52 84 51	1.390,78
CRI 5-22	4,00	96 51 71 62	1.444,50	96 51 71 76	1.462,59	96 52 80 62	1.444,50	96 52 80 87	1.462,59
CRI 5-24	4,00	96 51 71 63	1.500,35	96 51 71 77	1.518,44	96 52 80 63	1.500,35	96 52 80 88	1.518,44
CRI 5-26	4,00	96 51 71 64	1.564,01	96 51 71 78	1.582,09	96 52 80 64	1.564,01	96 52 80 89	1.582,09
CRI 5-29	4,00	96 51 71 65	1.649,65	96 51 71 79	1.667,73	96 52 80 66	1.649,65	96 52 80 90	1.667,73
CRI 5-32	5,50	96 51 71 66	1.872,70	96 51 71 80	1.890,78	96 52 80 67	1.872,70	96 52 80 91	1.890,78
CRI 5-36	5,50	96 51 71 67	1.984,22	96 51 71 81	2.002,30	96 52 80 68	1.984,22	96 52 80 92	2.002,30

CRN 5 with FlexiClamp, PJE or Clamp connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	FlexiClamp (CA)			PJE (P)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 5- 2	0,37	96 52 08 10	667,38	96 52 08 01	685,46	96 51 72 39	667,38	96 51 72 61	685,46
CRN 5- 3	0,55	96 52 08 12	697,34	96 52 08 02	715,43	96 51 72 40	697,34	96 51 72 62	715,43
CRN 5- 4	0,55	96 52 08 13	749,11	96 52 08 03	767,20	96 51 72 41	749,11	96 51 19 13	767,20
CRN 5- 5	0,75	96 52 08 14	812,94	96 52 08 04	831,03	96 51 72 42	812,94	96 51 72 63	831,03
CRN 5- 6	1,10	96 52 08 15	826,77	96 52 08 05	844,86	96 51 72 43	826,77	96 51 72 64	844,86
CRN 5- 7	1,10	96 52 08 16	860,64	96 52 08 06	878,72	96 51 72 44	860,64	96 51 72 65	878,72
CRN 5- 8	1,10	96 52 08 17	892,73	96 52 08 07	910,82	96 51 72 45	892,73	96 51 72 66	910,82
CRN 5- 9	1,50	96 52 08 18	1.039,89	96 52 08 08	1.057,98	96 51 72 46	1.039,89	96 51 72 67	1.057,98
CRN 5-10	1,50	96 52 08 19	1.071,99	96 52 08 09	1.090,07	96 49 29 85	1.071,99	96 51 72 68	1.090,07
CRN 5-11	2,20	96 51 42 24	1.177,30	96 51 41 74	1.195,39	96 51 34 82	1.177,30	96 51 34 96	1.195,39
CRN 5-12	2,20	96 51 42 25	1.209,22	96 51 41 75	1.227,30	96 51 34 83	1.209,22	96 51 34 97	1.227,30
CRN 5-13	2,20	96 51 42 26	1.241,13	96 51 41 76	1.259,22	96 51 34 84	1.241,13	96 51 34 98	1.259,22
CRN 5-14	2,20	96 51 42 27	1.273,05	96 51 41 77	1.291,13	96 51 34 85	1.273,05	96 51 34 99	1.291,13
CRN 5-15	2,20	96 51 42 28	1.304,96	96 51 41 78	1.323,05	96 51 34 86	1.304,96	96 51 35 00	1.323,05
CRN 5-16	2,20	96 51 42 29	1.336,88	96 51 41 79	1.354,96	96 51 34 87	1.336,88	96 51 35 01	1.354,96
CRN 5-18	3,00	96 51 42 30	1.488,30	96 51 41 90	1.506,38	96 51 34 88	1.488,30	96 51 35 02	1.506,38
CRN 5-20	3,00	96 51 42 31	1.552,13	96 51 41 91	1.570,21	96 51 34 89	1.552,13	96 51 35 03	1.570,21
CRN 5-22	4,00	96 51 42 32	1.605,85	96 51 41 92	1.623,94	96 51 34 90	1.605,85	96 51 35 04	1.623,94
CRN 5-24	4,00	96 51 42 33	1.669,68	96 51 41 93	1.687,77	96 51 34 91	1.669,68	96 51 35 05	1.687,77
CRN 5-26	4,00	96 51 42 34	1.733,33	96 51 41 94	1.751,42	96 51 34 92	1.733,33	96 51 35 06	1.751,42
CRN 5-29	4,00	96 51 42 35	1.831,03	96 51 41 95	1.849,11	96 51 34 93	1.831,03	96 51 35 07	1.849,11
CRN 5-32	5,50	96 51 42 36	2.085,82	96 51 41 96	2.103,90	96 51 34 94	2.085,82	96 51 35 08	2.103,90
CRN 5-36	5,50	96 51 42 37	2.215,25	96 51 41 97	2.233,33	96 51 34 95	2.215,25	96 51 35 09	2.233,33

Another voltage, single phase motors, other motor suppliers on request. **LiqTec dry running protection**, Product number 96 55 64 29.

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240 V/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min⁻¹, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18. Cartridge shaft seal with SiC / SiC material combination, elastomers Viton (HQV) or EPDM (HQE).

Pipe connection:

FGJ = combi flange DN 25/32 DIN/ANSI/JIS

Connections see Accessories, please order separately.

CRI 5 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4301).

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRI 5- 2	0,37	96 52 79 98	633,87	96 52 80 21	651,95
CRI 5- 3	0,55	96 52 79 99	663,83	96 52 80 22	681,91
CRI 5- 4	0,55	96 52 80 00	709,75	96 52 80 23	727,84
CRI 5- 5	0,75	96 52 80 01	765,25	96 52 80 24	783,33
CRI 5- 6	1,10	96 52 80 02	785,28	96 52 80 25	803,37
CRI 5- 7	1,10	96 52 80 03	813,12	96 52 80 26	831,21
CRI 5- 8	1,10	96 52 80 04	841,13	96 52 80 27	859,22

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRI 5-9	1,50	96 52 80 05	948,76	96 52 80 28	966,84
CRI 5-10	1,50	96 52 80 06	984,40	96 52 80 29	1.002,48
CRI 5-11	2,20	96 53 28 48	1.068,26	96 53 28 79	1.086,35
CRI 5-12	2,20	96 53 28 53	1.096,10	96 53 28 80	1.114,18
CRI 5-13	2,20	96 53 28 54	1.126,06	-	-
CRI 5-14	2,20	96 53 28 56	1.153,90	96 53 28 92	1.171,99
CRI 5-15	2,20	96 53 28 60	1.181,74	96 53 28 94	1.199,82
CRI 5-16	2,20	96 53 28 64	1.209,57	96 53 28 98	1.227,66
CRI 5-18	3,00	96 53 28 66	1.349,11	96 52 84 53	1.367,20
CRI 5-20	3,00	96 53 28 69	1.406,91	96 52 84 54	1.425,00
CRI 5-22	4,00	96 52 80 15	1.478,72	96 52 80 38	1.496,81
CRI 5-24	4,00	96 52 80 16	1.534,57	96 52 80 39	1.552,66
CRI 5-26	4,00	96 52 80 17	1.598,23	96 52 80 40	1.616,31
CRI 5-29	4,00	96 52 80 18	1.683,87	96 52 80 41	1.701,95
CRI 5-32	5,50	96 52 80 19	1.906,91	96 52 80 43	1.925,00
CRI 5-36	5,50	96 52 80 20	2.018,44	96 52 80 44	2.036,52

CRN 5 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 5-2	0,37	96 48 50 23	719,68	96 48 64 48	737,77
CRN 5-3	0,55	96 51 71 82	749,65	96 51 72 04	767,73
CRN 5-4	0,55	96 51 71 83	801,42	96 51 72 05	819,50
CRN 5-5	0,75	96 51 71 84	865,25	96 51 72 06	883,33
CRN 5-6	1,10	96 51 71 85	879,08	96 51 72 07	897,16
CRN 5-7	1,10	96 51 71 86	912,94	96 49 62 90	931,03
CRN 5-8	1,10	96 51 71 87	945,04	96 51 72 08	963,12
CRN 5-9	1,50	96 51 71 88	1.092,20	96 51 72 09	1.110,28
CRN 5-10	1,50	96 51 71 89	1.124,29	96 51 72 10	1.142,38
CRN 5-11	2,20	96 51 41 98	1.229,61	96 51 41 61	1.247,70
CRN 5-12	2,20	96 51 41 99	1.261,52	96 51 41 62	1.279,61
CRN 5-13	2,20	96 51 42 00	1.293,44	96 51 41 63	1.311,52
CRN 5-14	2,20	96 51 42 01	1.325,35	96 48 26 54	1.343,44
CRN 5-15	2,20	96 51 42 02	1.357,27	96 51 41 64	1.375,35
CRN 5-16	2,20	96 51 42 03	1.389,18	96 51 41 65	1.407,27
CRN 5-18	3,00	96 51 42 05	1.540,60	96 51 41 66	1.558,69
CRN 5-20	3,00	96 51 42 06	1.604,43	96 51 41 67	1.622,52
CRN 5-22	4,00	96 51 42 07	1.658,16	96 51 41 68	1.676,24
CRN 5-24	4,00	96 51 42 08	1.721,99	96 51 41 69	1.740,07
CRN 5-26	4,00	96 51 42 09	1.785,64	96 51 41 70	1.803,72
CRN 5-29	4,00	96 51 42 20	1.883,33	96 51 41 71	1.901,42
CRN 5-32	5,50	96 51 42 21	2.138,12	96 51 41 72	2.156,21
CRN 5-36	5,50	96 51 42 22	2.267,55	96 51 41 73	2.285,64

Another voltage, single phase motors, other motor suppliers on request. **LiqTec dry running protection**, Product number 96 55 64 29.Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18. Cartridge shaft seal with SiC / SiC material combination, elastomers in Viton (HQQV) or EPDM (HQQE).

Pipe connection:

PJE = Victaulic connection 2", **CA** = FlexiClamp universal adapter 2", **FGJ** = combi flange DN 40 DIN/ANSI/JIS

Connections see Accessories, please order separately.

CRI 10 with FlexiClamp, PJE or Clamp connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4301).

Type	Rated Power [kW]	FlexiClamp (CA)			PJE (P)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR		
CRI 10-1	0,37	96 50 10 24	832,80	96 50 11 49	854,79	96 50 10 08	832,80	96 50 11 33	854,79

Type	Rated Power [kW]	FlexiClamp (CA)			PJE (P)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRI 10- 2	0,75	96 50 10 25	864,72	96 50 11 50	886,70	96 50 10 09	864,72	96 50 11 34	886,70
CRI 10- 3	1,10	96 50 10 26	1.000,18	96 50 11 51	1.022,16	96 50 10 10	1.000,18	96 50 11 35	1.022,16
CRI 10- 4	1,50	96 50 10 27	1.115,60	96 50 11 52	1.137,59	96 50 10 11	1.115,60	96 50 11 36	1.137,59
CRI 10- 5	2,20	96 50 12 63	1.209,22	96 50 13 64	1.231,21	96 50 12 50	1.209,22	96 50 13 51	1.231,21
CRI 10- 6	2,20	96 50 12 64	1.273,05	96 50 13 65	1.295,04	96 50 12 51	1.273,05	96 50 13 52	1.295,04
CRI 10- 7	3,00	96 50 12 65	1.376,60	96 50 13 66	1.398,58	96 50 12 52	1.376,60	96 50 13 53	1.398,58
CRI 10- 8	3,00	96 50 12 66	1.438,30	96 50 13 67	1.460,28	96 50 12 53	1.438,30	96 50 13 54	1.460,28
CRI 10- 9	3,00	96 50 12 67	1.500,35	96 50 13 68	1.522,34	96 50 12 54	1.500,35	96 50 13 55	1.522,34
CRI 10-10	4,00	96 50 12 68	1.715,43	96 50 13 69	1.737,41	96 50 12 55	1.715,43	96 50 13 56	1.737,41
CRI 10-12	4,00	96 50 12 69	1.838,83	96 50 13 70	1.860,82	96 50 12 56	1.838,83	96 50 13 57	1.860,82
CRI 10-14	5,50	96 50 12 70	2.147,87	96 50 13 71	2.169,86	96 50 12 57	2.147,87	96 50 13 58	2.169,86
CRI 10-16	5,50	96 50 12 71	2.273,05	96 50 13 72	2.295,04	96 50 12 58	2.273,05	96 50 13 59	2.295,04
CRI 10-18	7,50	96 50 12 72	2.496,45	96 50 13 73	2.518,44	96 50 12 59	2.496,45	96 50 13 60	2.518,44
CRI 10-20	7,50	96 50 12 73	2.617,91	96 50 13 74	2.639,89	96 50 12 60	2.617,91	96 50 13 61	2.639,89
CRI 10-22	7,50	96 50 12 74	2.741,31	96 50 13 75	2.763,30	96 50 12 61	2.741,31	96 50 13 62	2.763,30

CRN 10 with FlexiClamp, PJE or Clamp connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	FlexiClamp (CA)			PJE (P)				
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 10- 1	0,37	96 50 10 72	916,31	96 50 11 97	938,30	96 50 10 40	916,31	96 50 11 65	938,30
CRN 10- 2	0,75	96 50 10 73	979,96	96 50 11 98	1.001,95	96 50 10 41	979,96	96 50 11 66	1.001,95
CRN 10- 3	1,10	96 50 10 74	1.119,68	96 50 11 99	1.141,67	96 50 10 42	1.119,68	96 50 11 67	1.141,67
CRN 10- 4	1,50	96 50 10 75	1.207,45	96 50 12 00	1.229,43	96 50 10 43	1.207,45	96 50 11 68	1.229,43
CRN 10- 5	2,20	96 50 13 02	1.318,79	96 50 14 03	1.340,78	96 50 12 76	1.318,79	96 50 13 77	1.340,78
CRN 10- 6	2,20	96 50 13 03	1.406,56	96 50 14 04	1.428,55	96 50 12 77	1.406,56	96 50 13 78	1.428,55
CRN 10- 7	3,00	96 50 13 04	1.512,06	96 50 14 05	1.534,04	96 50 12 78	1.512,06	96 50 13 79	1.534,04
CRN 10- 8	3,00	96 50 13 05	1.591,84	96 50 14 06	1.613,83	96 50 12 79	1.591,84	96 50 13 80	1.613,83
CRN 10- 9	3,00	96 50 13 06	1.679,61	96 50 14 07	1.701,60	96 50 12 80	1.679,61	96 50 13 81	1.701,60
CRN 10-10	4,00	96 50 13 07	1.900,71	96 50 14 08	1.922,70	96 50 12 81	1.900,71	96 50 13 82	1.922,70
CRN 10-12	4,00	96 50 13 08	2.050,18	96 50 14 09	2.072,16	96 50 12 82	2.050,18	96 50 13 83	2.072,16
CRN 10-14	5,50	96 50 13 09	2.390,60	96 50 14 10	2.412,59	96 50 12 83	2.390,60	96 50 13 84	2.412,59
CRN 10-16	5,50	96 50 13 10	2.538,30	96 50 14 11	2.560,28	96 50 12 84	2.538,30	96 50 13 85	2.560,28
CRN 10-18	7,50	96 50 13 11	2.759,22	96 50 14 12	2.781,21	96 50 12 85	2.759,22	96 50 13 86	2.781,21
CRN 10-20	7,50	96 50 13 12	2.910,64	96 50 14 13	2.932,62	96 50 12 86	2.910,64	96 50 13 87	2.932,62
CRN 10-22	7,50	96 50 13 13	3.056,21	96 50 14 14	3.078,19	96 50 12 87	3.056,21	96 50 13 88	3.078,19

Another voltage, single phase motors, other motor suppliers on request. **LiqTec dry running protection**, Product number 96 55 64 29.Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18. Cartridge shaft seal with SiC / SiC material combination, elastomers in Viton (HQQV) or EPDM (HQQE).

Pipe connection:

PJE = Victaulic connection 2", **CA** = FlexiClamp universal adapter 2", **FGJ** = combi flange DN 40 DIN/ANSI/JIS

Connections see Accessories, please order separately.

CRI 10 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4301).

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRI 10- 1	0,37	96 50 09 92	891,31	96 50 11 17	913,30
CRI 10- 2	0,75	96 50 09 93	923,23	96 50 11 18	945,21
CRI 10- 3	1,10	96 50 09 94	1.058,69	96 50 11 19	1.080,67
CRI 10- 4	1,50	96 50 09 95	1.174,11	96 50 11 20	1.196,10
CRI 10- 5	2,20	96 50 12 37	1.267,73	96 50 13 38	1.289,72
CRI 10- 6	2,20	96 50 12 38	1.331,56	96 50 13 39	1.353,55
CRI 10- 7	3,00	96 50 12 39	1.435,11	96 50 13 40	1.457,09

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRI 10- 8	3,00	96 50 12 40	1.496,81	96 50 13 41	1.518,79
CRI 10- 9	3,00	96 50 12 41	1.558,87	96 50 13 42	1.580,85
CRI 10-10	4,00	96 50 12 42	1.773,94	96 50 13 43	1.795,92
CRI 10-12	4,00	96 50 12 43	1.897,34	96 50 13 44	1.919,33
CRI 10-14	5,50	96 50 12 44	2.206,38	96 50 13 45	2.228,37
CRI 10-16	5,50	96 50 12 45	2.331,56	96 50 13 46	2.353,55
CRI 10-18	7,50	96 50 12 46	2.554,96	96 50 13 47	2.576,95
CRI 10-20	7,50	96 50 12 47	2.676,42	96 50 13 48	2.698,40
CRI 10-22	7,50	96 50 12 48	2.799,82	96 50 13 49	2.821,81

CRN 10 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 10- 1	0,37	96 50 10 56	976,77	96 50 11 81	998,76
CRN 10- 2	0,75	96 50 10 57	1.040,43	96 50 11 82	1.062,41
CRN 10- 3	1,10	96 50 10 58	1.180,14	96 50 11 83	1.202,13
CRN 10- 4	1,50	96 50 10 59	1.267,91	96 50 11 84	1.289,89
CRN 10- 5	2,20	96 50 12 89	1.379,26	96 50 13 90	1.401,24
CRN 10- 6	2,20	96 50 12 90	1.467,02	96 50 13 91	1.489,01
CRN 10- 7	3,00	96 50 12 91	1.572,52	96 50 13 92	1.594,50
CRN 10- 8	3,00	96 50 12 92	1.652,30	96 50 13 93	1.674,29
CRN 10- 9	3,00	96 50 12 93	1.740,07	96 50 13 94	1.762,06
CRN 10-10	4,00	96 50 12 94	1.961,17	96 50 13 95	1.983,16
CRN 10-12	4,00	96 50 12 95	2.110,64	96 50 13 96	2.132,62
CRN 10-14	5,50	96 50 12 96	2.451,06	96 50 13 97	2.473,05
CRN 10-16	5,50	96 50 12 97	2.598,76	96 50 13 98	2.620,74
CRN 10-18	7,50	96 50 12 98	2.819,68	96 50 13 99	2.841,67
CRN 10-20	7,50	96 50 12 99	2.971,10	96 50 14 00	2.993,09
CRN 10-22	7,50	96 50 13 00	3.116,67	96 50 14 01	3.138,65

Another voltage, single phase motors, other motor suppliers on request. **LiqTec dry running protection**, Product number 96 55 64 29.Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor** Supply voltage 3 x 220 - 240/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18. Cartridge shaft seal with SiC / SiC material combination, elastomers in Viton (HQQV) or EPDM (HQQE).

Pipe connection:

PJE = Victaulic connection 2", **CA** = FlexiClamp universal adapter 2", **FGJ** = combi flange DN 50 DIN/ANSI/JIS. Connections see Accessories, please order separately.**CRI 15 with FlexiClamp, PJE or Clamp connection** (Product Group: CW)**PJE (P)** Wetted parts stainless steel (DIN W.Nr. 1.4301).

Type	Rated Power [kW]	FlexiClamp (CA)			PJE (P)			Product-No.	EUR
		HQQE Product-No.	EUR	HQQV Product-No.	HQQE Product-No.	EUR	HQQV Product-No.		
CRI 15- 1	1,10	96 50 17 43	1.009,29	96 50 18 41	1.030,18	96 50 17 30	1.009,29	96 50 18 28	1.030,18
CRI 15- 2	2,20	96 50 19 35	1.243,59	96 50 20 25	1.264,48	96 50 19 23	1.243,59	96 50 20 13	1.264,48
CRI 15- 3	3,00	96 50 19 36	1.427,86	96 50 20 26	1.448,75	96 50 19 24	1.427,86	96 50 20 14	1.448,75
CRI 15- 4	4,00	96 50 19 37	1.648,18	96 50 20 27	1.669,07	96 50 19 25	1.648,18	96 50 20 15	1.669,07
CRI 15- 5	4,00	96 50 19 38	1.728,19	96 50 20 28	1.749,08	96 50 19 26	1.728,19	96 50 20 16	1.749,08
CRI 15- 6	5,50	96 50 19 39	2.050,59	96 50 20 29	2.071,47	96 50 19 27	2.050,59	96 50 20 17	2.071,47
CRI 15- 7	5,50	96 50 19 40	2.132,62	96 50 20 30	2.153,50	96 50 19 28	2.132,62	96 50 20 18	2.153,50
CRI 15- 8	7,50	96 50 19 41	2.466,97	96 50 20 31	2.487,85	96 50 19 29	2.466,97	96 50 20 19	2.487,85
CRI 15- 9	7,50	96 50 19 42	2.547,15	96 50 20 32	2.568,03	96 50 19 30	2.547,15	96 50 20 20	2.568,03
CRI 15-10	11,00	96 50 19 43	3.009,68	96 50 20 33	3.030,57	96 50 19 31	3.009,68	96 50 20 21	3.030,57
CRI 15-12	11,00	96 50 19 44	3.171,89	96 50 20 34	3.192,77	96 50 19 32	3.171,89	96 50 20 22	3.192,77
CRI 15-14	11,00	96 50 19 45	3.332,07	96 50 20 35	3.352,96	96 50 19 33	3.332,07	96 50 20 23	3.352,96
CRI 15-17	15,00	96 50 19 46	4.255,12	96 50 20 36	4.276,01	96 50 19 34	4.255,12	96 50 20 24	4.276,01

CRN 15 with FlexiClamp, PJE or Clamp connection (Product Group: CW)

PJE (P) Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	FlexiClamp (CA)			PJE (P)			Mechanical seal HQQV Product-No.	EUR
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR		
CRN 15- 1	1,10	96 50 17 82	1.107,49	96 50 18 80	1.128,38	96 50 17 56	1.107,49	96 50 18 54	1.128,38
CRN 15- 2	2,20	96 50 19 71	1.325,62	96 50 20 61	1.346,51	96 50 19 47	1.325,62	96 50 20 37	1.346,51
CRN 15- 3	3,00	96 50 19 72	1.520,00	96 50 20 62	1.540,89	96 50 19 48	1.520,00	96 50 20 38	1.540,89
CRN 15- 4	4,00	96 50 19 73	1.760,20	96 50 20 63	1.781,08	96 50 19 49	1.760,20	96 50 20 39	1.781,08
CRN 15- 5	4,00	96 50 19 74	1.858,23	96 50 20 64	1.879,11	96 50 19 50	1.858,23	96 50 20 40	1.879,11
CRN 15- 6	5,50	96 50 19 75	2.206,73	96 50 20 65	2.227,62	96 50 19 51	2.206,73	96 50 20 41	2.227,62
CRN 15- 7	5,50	96 50 19 76	2.306,95	96 50 20 66	2.327,84	96 50 19 52	2.306,95	96 50 20 42	2.327,84
CRN 15- 8	7,50	96 50 19 77	2.677,35	96 50 20 67	2.698,24	96 50 19 53	2.677,35	96 50 20 43	2.698,24
CRN 15- 9	7,50	96 50 19 78	2.777,40	96 50 20 68	2.798,29	96 50 19 54	2.777,40	96 50 20 44	2.798,29
CRN 15-10	11,00	96 50 19 79	3.227,98	96 50 20 69	3.248,87	96 50 19 55	3.227,98	96 50 20 45	3.248,87
CRN 15-12	11,00	96 50 19 80	3.428,09	96 50 20 70	3.448,97	96 50 19 56	3.428,09	96 50 20 46	3.448,97
CRN 15-14	11,00	96 50 19 81	3.624,49	96 50 20 71	3.645,37	96 50 19 57	3.624,49	96 50 20 47	3.645,37
CRN 15-17	15,00	96 50 19 82	4.639,67	96 50 20 72	4.660,56	96 50 19 58	4.639,67	96 50 20 48	4.660,56

CRI 20 with FlexiClamp, PJE or Clamp connection (Product Group: CW)

PJE (P) Wetted parts stainless steel (DIN W.Nr. 1.4301).

Type	Rated Power [kW]	FlexiClamp (CA)			PJE (P)			Mechanical seal HQQV Product-No.	EUR
		HQQE Product-No.	EUR	HQQV Product-No.	EUR	HQQE Product-No.	EUR		
CRI 20- 1	1,10	96 50 03 69	979,31	96 50 04 60	1.000,20	96 50 03 57	979,31	96 50 04 48	1.000,20
CRI 20- 2	2,20	96 50 05 47	1.211,59	96 50 06 30	1.232,47	96 50 05 36	1.211,59	96 50 06 19	1.232,47
CRI 20- 3	4,00	96 50 05 48	1.652,06	96 50 06 31	1.672,94	96 50 05 37	1.652,06	96 50 06 20	1.672,94
CRI 20- 4	5,50	96 50 05 49	2.020,60	96 50 06 32	2.041,49	96 50 05 38	2.020,60	96 50 06 21	2.041,49
CRI 20- 5	5,50	96 50 05 50	2.100,78	96 50 06 33	2.121,67	96 50 05 39	2.100,78	96 50 06 22	2.121,67
CRI 20- 6	7,50	96 50 05 51	2.435,13	96 50 06 34	2.456,02	96 50 05 40	2.435,13	96 50 06 23	2.456,02
CRI 20- 7	7,50	96 50 05 52	2.517,16	96 50 06 35	2.538,05	96 50 05 41	2.517,16	96 50 06 24	2.538,05
CRI 20- 8	11,00	96 50 05 53	3.139,88	96 50 06 36	3.160,77	96 50 05 42	3.139,88	96 50 06 25	3.160,77
CRI 20-10	11,00	96 50 05 54	3.302,09	96 50 06 37	3.322,98	96 50 05 43	3.302,09	96 50 06 26	3.322,98
CRI 20-12	15,00	96 50 05 55	4.028,91	96 50 06 38	4.049,80	96 50 05 44	4.028,91	96 50 06 27	4.049,80
CRI 20-14	15,00	96 50 05 56	4.225,14	96 50 06 39	4.246,03	96 50 05 45	4.225,14	96 50 06 28	4.246,03
CRI 20-17	18,50	96 50 05 57	4.998,11	96 50 06 40	5.019,00	96 50 05 46	4.998,11	96 50 06 29	5.019,00

CRN 20 with FlexiClamp, PJE or Clamp connection (Product Group: CW)

PJE (P) Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	CRN 20 FlexiClamp (CA)			PJE (P)			Mechanical seal HQQV Product-No.	EUR
		Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR	Mechanical seal HQQE Product-No.	EUR		
CRN 20- 1	1,10	96 50 04 05	1.107,49	96 50 04 96	1.128,38	96 50 03 81	1.107,49	96 50 04 72	1.128,38
CRN 20- 2	2,20	96 50 05 80	1.325,62	96 50 06 63	1.346,51	96 50 05 58	1.325,62	96 50 06 41	1.346,51
CRN 20- 3	4,00	96 50 05 81	1.858,23	96 50 06 64	1.879,11	96 50 05 59	1.858,23	96 50 06 42	1.879,11
CRN 20- 4	5,50	96 50 05 82	2.206,73	96 50 06 65	2.227,62	96 50 05 60	2.206,73	96 50 06 43	2.227,62
CRN 20- 5	5,50	96 50 05 83	2.306,95	96 50 06 66	2.327,84	96 50 05 61	2.306,95	96 50 06 44	2.327,84
CRN 20- 6	7,50	96 50 05 84	2.677,35	96 50 06 67	2.698,24	96 50 05 62	2.677,35	96 50 06 45	2.698,24
CRN 20- 7	7,50	96 50 05 85	2.777,40	96 50 06 68	2.798,29	96 50 05 63	2.777,40	96 50 06 46	2.798,29
CRN 20- 8	11,00	96 50 05 86	3.428,09	96 50 06 69	3.448,97	96 50 05 64	3.428,09	96 50 06 47	3.448,97
CRN 20-10	11,00	96 50 05 87	3.624,49	96 50 06 70	3.645,37	96 50 05 65	3.624,49	96 50 06 48	3.645,37
CRN 20-12	15,00	96 50 05 88	4.443,44	96 50 06 71	4.464,33	96 50 05 66	4.443,44	96 50 06 49	4.464,33
CRN 20-14	15,00	96 50 05 89	4.639,67	96 50 06 72	4.660,56	96 50 05 67	4.639,67	96 50 06 50	4.660,56
CRN 20-17	18,50	96 50 05 90	5.508,82	96 50 06 73	5.529,71	96 50 05 68	5.508,82	96 50 06 51	5.529,71

Another voltage, single phase motors, other motor suppliers on request. **LiqTec dry running protection**, Product number 96 55 64 29.

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18. Cartridge shaft seal with SiC / SiC material combination, elastomers in Viton (HQV) or EPDM (HQE).

Pipe connection:

PJE = Victaulic connection 2", **CA** = FlexiClamp universal adapter 2", **FGJ** = combi flange DN 50 DIN/ANSI/JIS . Connections see Accessories, please order separately.

CRI 15 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN V.Nr. 1.4301).

Type	Rated Power [kW]	HQE Product-No.	EUR	HQV Product-No.	EUR
CRI 15- 1	1,10	96 50 17 17	1.078,35	96 50 18 15	1.099,24
CRI 15- 2	2,20	96 50 19 11	1.312,65	96 50 20 01	1.333,54
CRI 15- 3	3,00	96 50 19 12	1.496,92	96 50 20 02	1.517,81
CRI 15- 4	4,00	96 50 19 13	1.717,24	96 50 20 03	1.738,13
CRI 15- 5	4,00	96 50 19 14	1.797,25	96 50 20 04	1.818,14
CRI 15- 6	5,50	96 50 19 15	2.119,65	96 50 20 05	2.140,53
CRI 15- 7	5,50	96 50 19 16	2.201,68	96 50 20 06	2.222,56
CRI 15- 8	7,50	96 50 19 17	2.536,03	96 50 20 07	2.556,91
CRI 15- 9	7,50	96 50 19 18	2.616,21	96 50 20 08	2.637,09
CRI 15-10	11,00	96 50 19 19	3.078,74	96 50 20 09	3.099,63
CRI 15-12	11,00	96 50 19 20	3.240,95	96 50 20 10	3.261,84
CRI 15-14	11,00	96 50 19 21	3.401,13	96 50 20 11	3.422,02
CRI 15-17	15,00	96 50 19 22	4.324,18	96 50 20 12	4.345,07

CRN 15 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN V.Nr. 1.44011.4408).

Type	Rated Power [kW]	Mechanical seal HQE Product-No.	EUR	Mechanical seal HQV Product-No.	EUR
CRN 15- 1	1,10	96 50 17 69	1.178,24	96 50 18 67	1.199,12
CRN 15- 2	2,20	96 50 19 59	1.396,37	96 50 20 49	1.417,25
CRN 15- 3	3,00	96 50 19 60	1.590,74	96 50 20 50	1.611,63
CRN 15- 4	4,00	96 50 19 61	1.830,94	96 50 20 51	1.851,83
CRN 15- 5	4,00	96 50 19 62	1.928,97	96 50 20 52	1.949,86
CRN 15- 6	5,50	96 50 19 63	2.277,47	96 50 20 53	2.298,36
CRN 15- 7	5,50	96 50 19 64	2.377,70	96 50 20 54	2.398,58
CRN 15- 8	7,50	96 50 19 65	2.748,09	96 50 20 55	2.768,98
CRN 15- 9	7,50	96 50 19 66	2.848,15	96 50 20 56	2.869,03
CRN 15-10	11,00	96 50 19 67	3.298,72	96 50 20 57	3.319,61
CRN 15-12	11,00	96 50 19 68	3.498,83	96 50 20 58	3.519,72
CRN 15-14	11,00	96 50 19 69	3.695,23	96 50 20 59	3.716,12
CRN 15-17	15,00	96 50 19 70	4.710,42	96 50 20 60	4.731,30

CRI 20 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN V.Nr. 1.4301).

Type	Rated Power [kW]	HQE Product-No.	EUR	HQV Product-No.	EUR
CRI 20- 1	1,10	96 50 03 45	1.048,37	96 50 04 36	1.069,26
CRI 20- 2	2,20	96 50 05 25	1.280,65	96 50 06 08	1.301,53
CRI 20- 3	4,00	96 50 05 26	1.721,12	96 50 06 09	1.742,00
CRI 20- 4	5,50	96 50 05 27	2.089,66	96 50 06 10	2.110,55
CRI 20- 5	5,50	96 50 05 28	2.169,84	96 50 06 11	2.190,73
CRI 20- 6	7,50	96 50 05 29	2.504,19	96 50 06 12	2.525,08
CRI 20- 7	7,50	96 50 05 30	2.586,22	96 50 06 13	2.607,11
CRI 20- 8	11,00	96 50 05 31	3.208,95	96 50 06 14	3.229,83
CRI 20-10	11,00	96 50 05 32	3.371,15	96 50 06 15	3.392,04
CRI 20-12	15,00	96 50 05 33	4.097,97	96 50 06 16	4.118,86
CRI 20-14	15,00	96 50 05 34	4.294,20	96 50 06 17	4.315,09
CRI 20-17	18,50	96 50 05 35	5.067,17	96 50 06 18	5.088,06

CRN 20 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.44011.4408).

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 20- 1	1,10	96 50 03 93	1.178,24	96 50 04 84	1.199,12
CRN 20- 2	2,20	96 50 05 69	1.396,37	96 50 06 52	1.417,25
CRN 20- 3	4,00	96 50 05 70	1.928,97	96 50 06 53	1.949,86

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 20- 4	5,50	96 50 05 71	2.277,47	96 50 06 54	2.298,36
CRN 20- 5	5,50	96 50 05 72	2.377,70	96 50 06 55	2.398,58
CRN 20- 6	7,50	96 50 05 73	2.748,09	96 50 06 56	2.768,98
CRN 20- 7	7,50	96 50 05 74	2.848,15	96 50 06 57	2.869,03
CRN 20- 8	11	96 50 05 75	3.498,83	96 50 06 58	3.519,72
CRN 20-10	11	96 50 05 76	3.695,23	96 50 06 59	3.716,12
CRN 20-12	15	96 50 05 77	4.514,18	96 50 06 60	4.535,07
CRN 20-14	15	96 50 05 78	4.710,42	96 50 06 61	4.731,30
CRN 20-17	18,5	96 50 05 79	5.579,57	96 50 06 62	5.600,45

Another voltage, single phase motors, other motor suppliers on request. **LiqTec dry running protection**, Product number 96 55 64 29.

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 220 - 240/380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V (from 2,2 kW), 50 Hz, 2900 min-1, IP 55, from 3 kW with PTC thermistors acc. DIN 44082, form V18. Cartridge shaft seal with SiC / SiC material combination, elastomers in Viton (HQV) or EPDM (HQE).

Pipe connection:

F: DIN flange DN 65 (CRN 32) and DN 80 (CRN 45)

Connections see Accessories, please order separately

CRN 32 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	Mechanical seal HQE Product-No.	EUR	Mechanical seal HQV Product-No.	EUR
CRN 32- 1	2,20	96 12 23 51	1.875,58	96 12 23 79	1.905,56
CRN 32- 1-1	1,50	96 12 22 94	1.751,27	96 12 23 22	1.781,25
CRN 32- 2	4,00	96 12 23 53	2.352,26	96 12 23 81	2.382,24
CRN 32- 2-2	3,00	96 12 23 52	2.103,48	96 12 23 80	2.133,46
CRN 32- 3	5,50	96 12 23 55	2.901,71	96 12 23 83	2.931,69
CRN 32- 3-2	5,50	96 12 23 54	2.901,71	96 12 23 82	2.931,69
CRN 32- 4	7,50	96 12 23 57	3.585,41	96 12 23 85	3.615,39
CRN 32- 4-2	7,50	96 12 23 56	3.585,41	96 12 23 84	3.615,39
CRN 32- 5	11	96 12 23 59	4.497,51	96 12 23 87	4.527,49
CRN 32- 5-2	11	96 12 23 58	4.497,51	96 12 23 86	4.527,49
CRN 32- 6	11	96 12 23 61	4.725,41	96 12 23 89	4.755,39
CRN 32- 6-2	11	96 12 23 60	4.725,41	96 12 23 88	4.755,39
CRN 32- 7	15	96 12 23 63	5.649,80	96 12 23 91	5.679,79
CRN 32- 7-2	15	96 12 23 62	5.649,80	96 12 23 90	5.679,79
CRN 32- 8	15	96 12 23 65	5.867,26	96 12 23 93	5.897,24
CRN 32- 8-2	15	96 12 23 64	5.867,26	96 12 23 92	5.897,24
CRN 32- 9	18,5	96 12 23 67	6.675,43	96 12 23 95	6.705,42
CRN 32- 9-2	18,5	96 12 23 66	6.675,43	96 12 23 94	6.705,42
CRN 32-10	18,5	96 12 23 69	6.893,06	96 12 23 97	6.923,04
CRN 32-10-2	18,5	96 12 23 68	6.893,06	96 12 23 96	6.923,04
CRN 32-11	22	96 12 23 71	7.767,93	96 12 23 99	7.797,92
CRN 32-11-2	22	96 12 23 70	7.767,93	96 12 23 98	7.797,92
CRN 32-12	22	96 12 23 73	7.985,56	96 12 24 01	8.015,54
CRN 32-12-2	22	96 12 23 72	7.985,56	96 12 24 00	8.015,54
CRN 32-13	30	96 12 23 75	8.870,37	96 12 24 03	8.900,35
CRN 32-13-2	30	96 12 23 74	8.870,37	96 12 24 02	8.900,35
CRN 32-14	30	96 12 23 77	9.098,44	96 12 24 05	9.128,42
CRN 32-14-2	30	96 12 23 76	9.098,44	96 12 24 04	9.128,42

CRN 45 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	Mechanical seal HQE Product-No.	EUR	Mechanical seal HQV Product-No.	EUR
CRN 45- 1	4,00	96 12 31 17	2.466,46	96 12 31 42	2.496,45
CRN 45- 1-1	3,00	96 12 31 16	2.103,48	96 12 31 41	2.133,46
CRN 45- 2	7,50	96 12 31 19	3.585,41	96 12 31 44	3.615,39
CRN 45- 2-2	5,50	96 12 31 18	2.963,87	96 12 31 43	2.993,85
CRN 45- 3	11,00	96 12 31 21	4.507,78	96 12 31 46	4.537,77
CRN 45- 3-2	11,00	96 12 31 20	4.507,78	96 12 31 45	4.537,77
CRN 45- 4	15,00	96 12 31 23	5.660,08	96 12 31 48	5.690,06
CRN 45- 4-2	15,00	96 12 31 22	5.660,08	96 12 31 47	5.690,06
CRN 45- 5	18,50	96 12 31 25	6.655,05	96 12 31 50	6.685,04
CRN 45- 5-2	18,50	96 12 31 24	6.655,05	96 12 31 49	6.685,04
CRN 45- 6	22,00	96 12 31 27	7.635,20	96 12 31 52	7.665,19
CRN 45- 6-2	22,00	96 12 31 26	7.635,20	96 12 31 51	7.665,19
CRN 45- 7	30,00	96 12 31 29	8.497,28	96 12 31 54	8.527,26
CRN 45- 7-2	30,00	96 12 31 28	8.497,28	96 12 31 53	8.527,26
CRN 45- 8	30,00	96 12 31 31	8.733,77	96 12 31 56	8.763,75
CRN 45- 8-2	30,00	96 12 31 30	8.733,77	96 12 31 55	8.763,75
CRN 45- 9	37,00	96 12 31 33	9.730,59	96 12 31 58	9.760,58
CRN 45- 9-2	30,00	96 12 31 32	8.971,77	96 12 31 57	9.001,76

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 45-10	37,00	96 12 31 35	9.954,45	96 12 31 60	9.984,43
CRN 45-10-2	37,00	96 12 31 34	9.954,45	96 12 31 59	9.984,43
CRN 45-11	45,00	96 12 31 37	12.746,17	96 12 31 62	12.776,15
CRN 45-11-2	45,00	96 12 31 36	12.746,17	96 12 31 61	12.776,15
CRN 45-12	45,00	96 12 31 39	13.038,41	96 12 31 64	13.068,40
CRN 45-12-2	45,00	96 12 31 38	13.038,41	96 12 31 63	13.068,40
CRN 45-13-2	45,00	96 12 31 40	13.326,45	96 12 31 65	13.356,43

Another voltage, single phase motors, other motor suppliers on request. **LiqTec dry running protection**, Product number 96 55 64 29.

Vertical in-line centrifugal pump, non self-priming with **high efficiency IEC-motor**

Supply voltage 3 x 380 - 415 V, 50 Hz, 2900 min⁻¹, IP 55, with PTC thermistors acc. DIN 44082, form V18.

Cartridge shaft seal with SiC / SiC material combination, elastomers in Viton (HQQV) or EPDM (HQQE) at CRN 64 and CRN 90.

Cartridge shaft seal with SiC / SiC material combination (HQQx) or carbon / SiC (HBQx), elastomers in EPDM (HxxE) or Viton (HxxV) for CRN 120 and CRN 150.

Pipe connection:

F: DIN flange DN 100 (CRN 64 and CRN 90), DN 125 (CRN 120 and CRN 150), DN 100 on request.

Connections see Accessories, please order separately.

CRN 64 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN V.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 64-1	5,50	96 12 37 75	2.943,15	96 12 37 97	2.973,13
CRN 64-1-1	4,00	96 12 37 74	2.515,98	96 12 37 96	2.545,97
CRN 64-2	11,00	96 12 37 78	4.290,16	96 12 38 00	4.320,14
CRN 64-2-1	11,00	96 12 37 77	4.290,16	96 12 37 99	4.320,14
CRN 64-2-2	7,50	96 12 37 76	3.637,12	96 12 37 98	3.667,10
CRN 64-3	18,50	96 12 37 81	6.267,30	96 12 38 03	6.297,29
CRN 64-3-1	15,00	96 12 37 80	5.517,07	96 12 38 02	5.547,06
CRN 64-3-2	15,00	96 12 37 79	5.517,07	96 12 38 01	5.547,06
CRN 64-4	22,00	96 12 37 84	7.284,85	96 12 38 06	7.314,83
CRN 64-4-1	22,00	96 12 37 83	7.284,85	96 12 38 05	7.314,83
CRN 64-4-2	18,50	96 12 37 82	6.528,55	96 12 38 04	6.558,54
CRN 64-5	30,00	96 12 37 87	7.875,74	96 12 38 09	7.905,72
CRN 64-5-1	30,00	96 12 37 86	7.875,74	96 12 38 08	7.905,72
CRN 64-5-2	30,00	96 12 37 85	7.875,74	96 12 38 07	7.905,72
CRN 64-6	37,00	96 12 37 90	9.512,80	96 12 38 12	9.542,78
CRN 64-6-1	37,00	96 12 37 89	9.512,80	96 12 38 11	9.542,78
CRN 64-6-2	30,00	96 12 37 88	8.138,84	96 12 38 10	8.168,82
CRN 64-7	45,00	96 12 37 93	12.849,76	96 12 38 15	12.879,74
CRN 64-7-1	37,00	96 12 37 92	9.751,31	96 12 38 14	9.781,29
CRN 64-7-2	37,00	96 12 37 91	9.751,31	96 12 38 13	9.781,29
CRN 64-8-1	45,00	96 12 37 95	13.077,66	96 12 38 17	13.107,64
CRN 64-8-2	45,00	96 12 37 94	13.077,66	96 12 38 16	13.107,64

CRN 90 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN V.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 90-1-1	5,50	96 12 42 24	3.000,92	96 12 42 36	3.030,90
CRN 90-1	7,50	96 12 42 25	3.716,29	96 12 42 37	3.746,27
CRN 90-2-2	11,00	96 12 42 26	4.721,20	96 12 42 38	4.751,18
CRN 90-2	15,00	96 12 42 27	5.910,72	96 12 42 39	5.940,70
CRN 90-3-2	18,50	96 12 42 28	6.748,20	96 12 42 40	6.778,18
CRN 90-3	22,00	96 12 42 29	7.490,01	96 12 42 41	7.519,99
CRN 90-4	30,00	96 12 42 31	8.296,33	96 12 42 43	8.326,31
CRN 90-4-2	30,00	96 12 42 30	8.296,33	96 12 42 42	8.326,31
CRN 90-5	37,00	96 12 42 33	9.471,53	96 12 42 45	9.501,52
CRN 90-5-2	37,00	96 12 42 32	9.471,53	96 12 42 44	9.501,52
CRN 90-6	45,00	96 12 42 35	12.035,19	96 12 42 47	12.065,17
CRN 90-6-2	45,00	96 12 42 34	12.035,19	96 12 42 46	12.065,17

CRN 120 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 120-1	11,00	95 92 21 82	5.077,78	95 92 21 98	5.107,77
CRN 120-2-1	18,50	95 92 21 83	7.089,96	95 92 21 99	7.119,95
CRN 120-2	22,00	95 92 21 84	7.871,36	95 92 22 00	7.901,34
CRN 120-3	30,00	95 92 21 85	8.955,27	95 92 22 01	8.985,25
CRN 120-4-1	37,00	95 92 21 86	10.426,92	95 92 22 02	10.456,91
CRN 120-5-1	45,00	95 92 21 87	12.089,09	95 92 22 03	12.119,07
CRN 120-6-1	55,00	95 92 21 88	16.031,42	95 92 22 04	16.031,42
CRN 120-7	75,00	95 92 21 89	19.185,28	95 92 22 05	19.185,28

CRN 150 with flange connection (Product Group: CW)

Wetted parts stainless steel (DIN W.Nr. 1.4401/1.4408).

Type	Rated Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 150-1-1	11,00	95 92 24 06	5.077,78	95 92 24 22	5.107,77
CRN 150-1	18,50	95 92 24 07	5.997,97	95 92 24 23	6.027,95
CRN 150-2-1	22,00	95 92 24 08	7.871,36	95 92 24 24	7.901,34
CRN 150-3-2	30,00	95 92 24 09	8.955,27	95 92 24 25	8.985,25
CRN 150-3	37,00	95 92 24 10	10.157,25	95 92 24 26	10.187,23
CRN 150-4-1	45,00	95 92 24 11	11.830,03	95 92 24 27	11.860,01
CRN 150-5-2	55,00	95 92 24 12	15.506,73	95 92 24 28	15.506,73
CRN 150-6	75,00	95 92 24 13	18.660,76	95 92 24 29	18.660,76

Another voltage, single phase motors, other motor suppliers on request. **LiqTec dry running protection**, Product number 96 55 64 29.

Vertical multistage centrifugal pumps CR high pressure pump systems

High pressure centrifugal pump in vertical execution, non self-priming, with **high efficiency IEC-Motor** with integrated frequency converter and digital PI controller, without pressure sensor. Supply voltage 3 x 380 - 480 V, 50/60 Hz, to 4800 min-1, IP 55.

All wetted parts of stainless steel (DIN W.Nr. 1.4401/1.4408).

Cartridge shaft seal with SiC / SiC material combination, elastomers in EPDM (HQQE) or Viton (HQQV).

Pipe connection:

PJE = Victaulic connection DN 32

Connections see Accessories, please order separately.

CRNE 1 HS (Product Group: CW)

Type	Motor Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 1-23	4,60	96 46 16 88	3.732,62	96 47 25 26	3.521,15
CRNE 1-23	6,00	96 46 16 87	3.609,10	96 47 25 27	3.625,48
CRNE 1-23	7,50	96 46 48 93	3.817,78	96 47 25 28	3.834,15

CRNE 3 HS (Product Group: CW)

Type	Motor Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRNE 3-23	4,60	96 46 48 92	3.504,75	96 47 25 29	3.521,15
CRNE 3-23	6,00	96 46 16 90	3.609,10	96 47 25 31	3.625,48
CRNE 3-23	7,50	96 46 16 89	3.817,78	96 47 25 32	3.834,15

CRN-SF high pressure pump systems (Product Group: CW)

High pressure centrifugal pump of a CR(N) high pressure pump group in vertical execution, non self-priming, with reverse pump hydraulics, connections in-line with **High efficiency IEC-Motor**, Supply voltage 3 x 380-415 V, 50 Hz, 2900 min-1, IP 55,

with PTC thermistor acc. DIN 44082, form V18.

All wetted parts of stainless steel (DIN W.Nr. 1.4401/1.4408).

Cartridge shaft seal with SiC / SiC material combination,

Elastomers in EPDM (HQQE) or Viton (HQQV).

Type	Motor Power [kW]	Mechanical seal HQQE Product-No.	EUR	Mechanical seal HQQV Product-No.	EUR
CRN 5-34 SF *	5,50	96 52 17 69	3.297,04	96 52 18 02	3.297,04
CRN 10-21 SF *	7,50	96 51 22 00	4.453,49	96 51 22 01	4.453,49
CRN 15-16 SF *	15,00	96 51 22 13	5.917,46	96 51 22 14	5.917,46
CRN 20-16 SF *	18,50	96 51 22 61	6.267,04	96 51 22 63	6.267,04

Vertical multistage in-line centrifugal pump, non self-priming, with 2-pole **high efficiency IEC-motor**,

Supply voltage 3 x 220 - 240/ 380 - 415 V (to 1,5 kW) or 3 x 380 - 415 V D (from 2,2 kW), 50 Hz, 2900 min⁻¹, IP 55, from 3 kW with PTC thermistors acc.

DIN 44082, form < 4 kW: V18, from 5,5 kW: V1; Power transmission is via cast iron split coupling.

All wetted parts incl. pump base made of titanium with PJE connection (flanged version on request), for media with high chlorine content.

Baseplate and motor bracket of stainless steel, pump head of stainless steel with titanium coating plate. Mechanical shaft seal acc. EN 12756 (DIN 24960) with tungsten-carbide / tungsten-carbide, elastomers in EPDM (AUUE) or Viton (AUUV).

CRT 2 (Product Group: GI)

50 Hz

Type	Rated Power [kW]	A-P-A-AUUV Product-No.	EUR	Rated Power [kW]	A-P-A-AUUE Product-No.	EUR
CRT 2- 2	0,37	96 10 03 17	1.432,43	0,37	96 10 03 01	1.416,02
CRT 2- 3	0,37	96 10 03 18	1.502,75	0,37	96 10 03 02	1.510,72
CRT 2- 4	0,55	96 10 03 19	1.636,38	0,55	96 10 03 03	1.619,98
CRT 2- 5	0,55	96 10 03 20	1.793,47	0,55	96 10 03 04	1.868,48
CRT 2- 6	0,75	96 10 03 21	1.964,58	0,75	96 10 03 05	1.948,22
CRT 2- 7	0,75	96 10 03 22	2.147,43	0,75	96 10 03 06	2.191,52
CRT 2-11	1,10	96 10 03 24	2.609,33	1,10	96 10 03 08	2.592,88
CRT 2- 9	1,10	96 10 03 23	2.337,37	1,10	96 10 03 07	2.320,95
CRT 2-13	1,50	96 10 03 25	2.911,73	1,50	96 10 03 09	2.895,30
CRT 2-15	1,50	96 10 03 26	3.202,45	1,50	96 10 03 10	3.186,02
CRT 2-18	2,20	96 10 03 27	3.554,07	2,20	96 10 03 14	3.678,35
CRT 2-22	2,20	96 10 03 28	4.011,23	2,20	96 10 03 15	3.994,83
CRT 2-26	3,00	96 10 03 29	4.456,67	3,00	96 10 03 16	4.440,27

CRT 4 (Product Group: GI)

50 Hz

Type	Rated Power [kW]	A-P-A-AUUE Product-No.	EUR	Rated Power [kW]	A-P-A-AUUV Product-No.	EUR
CRT 4- 1	0,37	96 10 07 94	1.371,45	0,37	96 10 08 08	1.514,47
CRT 4- 2	0,37	96 10 07 95	1.570,75	0,37	96 10 08 09	1.587,15
CRT 4- 3	0,55	96 10 07 96	1.711,42	0,55	96 10 08 10	1.727,82
CRT 4- 4	0,75	96 10 07 97	1.920,05	0,75	96 10 08 11	1.936,47
CRT 4- 5	1,10	96 10 07 98	2.201,38	1,10	96 10 08 12	2.217,80
CRT 4- 6	1,10	96 10 07 99	2.400,63	1,10	96 10 08 13	2.417,07
CRT 4- 7	1,50	96 10 08 00	2.733,53	1,50	96 10 08 14	2.749,95
CRT 4- 8	1,50	96 10 08 01	2.928,12	1,50	96 10 08 15	2.944,53
CRT 4-10	2,20	96 10 09 29	3.354,82	2,20	96 10 08 16	3.371,22
CRT 4-12	2,20	96 10 09 30	3.568,13	2,20	96 10 08 17	3.584,53
CRT 4-14	3,00	96 10 09 31	4.128,45	3,00	96 10 08 18	4.144,85
CRT 4-16	3,00	96 10 08 39	4.341,78	3,00	96 10 08 19	4.358,20
CRT 4-19	4,00	96 10 08 40	4.988,83	4,00	96 10 08 20	5.005,25
CRT 4-22	4,00	96 10 08 41	5.460,05	4,00	96 10 08 21	5.476,48

CRT 8 (Product Group: GI)

50 Hz

Type	Rated Power [kW]	A-P-A-AUUE Product-No.	EUR	Rated Power [kW]	A-P-A-AUUV Product-No.	EUR
CRT 8- 1	0,37	96 10 82 39	2.616,58	0,37	96 10 82 52	2.633,02
CRT 8- 2	0,75	96 10 82 40	2.735,45	0,75	96 10 82 53	2.751,88
CRT 8- 3	1,10	96 10 82 41	2.951,40	1,10	96 10 82 54	2.923,47
CRT 8- 4	1,50	96 10 82 42	3.342,82	1,50	96 10 82 55	3.309,43
CRT 8- 5	2,20	96 11 72 26	3.644,70	2,20	96 10 82 56	3.661,13
CRT 8- 6	2,20	96 11 72 27	3.856,65	2,20	96 10 82 57	3.873,05
CRT 8- 8	3,00	96 11 72 28	4.487,28	3,00	96 10 82 58	4.503,73
CRT 8-10	4,00	96 11 72 29	5.171,72	4,00	96 10 82 59	5.188,13
CRT 8-12	4,00	96 11 72 30	5.636,07	4,00	96 10 82 60	5.652,50
CRT 8-14	5,50	96 11 72 31	6.694,70	5,50	96 10 82 61	6.711,10
CRT 8-16	5,50	96 11 72 32	7.211,20	5,50	96 10 82 62	7.227,63
CRT 8-18	7,50	96 11 72 33	8.484,02	7,50	96 10 82 63	8.500,45
CRT 8-20	11,00	96 11 72 34	8.997,03	11,00	96 10 82 64	9.013,42

CRT 16 (Product Group: GI)

50 Hz

Type	Rated Power [kW]	A-P-A-AUUE Product-No.	EUR	Rated Power [kW]	A-P-A-AUUV Product-No.	EUR
CRT 16- 2	2,20	96 11 72 44	3.000,73	2,20	96 10 83 55	3.017,37
CRT 16- 3	3,00	96 11 72 45	3.581,64	3,00	96 10 83 56	3.598,32
CRT 16- 4	4,00	96 11 72 46	4.251,68	4,00	96 10 83 57	4.268,33
CRT 16- 5	5,50	96 11 72 47	5.177,15	5,50	96 10 83 58	5.193,82
CRT 16- 6	5,50	96 11 72 48	5.555,43	5,50	96 10 83 59	5.572,05
CRT 16- 7	7,50	96 11 72 49	6.175,78	7,50	96 10 83 60	6.192,42
CRT 16- 8	7,50	96 11 72 50	6.609,50	7,50	96 10 83 61	6.626,14
CRT 16-10	11,00	96 11 72 51	8.183,79	11,00	96 10 83 62	8.200,43
CRT 16-12	11,00	96 11 72 52	8.673,88	11,00	96 10 83 63	8.690,51
CRT 16-14	15,00	96 11 72 53	10.760,25	15,00	96 10 83 64	10.776,91
CRT 16-17	18,50	96 11 72 54	11.362,14	-	-	-

Another voltage, single phase motors, other motor suppliers on request

In case of an order please give the reference product number an the required option also.

Further options on request.

CM multistage centrifugal pumps

Horizontal centrifugal pump, non self-priming, with high efficiency electromotor

Supply voltage 1 x 220 - 240 V with klixon TP111 or 3 x 220 - 240/380 - 415 V, 50 Hz, IP 55, from 3 kW with PTC

Mechanical seal in basic version SiC / SiC, elastomers Viton (AQQV) or EPDM (AQQE).

Pump mounted on baseplate, with axial suction and radial discharge.

Pipe connection: **R = Whitworth-thread Rp**

CM A (cast iron) (Product Group: CW)

Wetted parts stainless steel (EN 1.4301/AISI 304) and cast iron.

(Cast Iron) 1 x 220 – 240 V (voltage type C)

(Cast Iron) 3 x 220 – 240 / 380 – 415 V (voltage type F)

Type	(Cast Iron) 1 x 220 – 240 V (voltage type C)			(Cast Iron) 3 x 220 – 240 / 380 – 415 V (voltage type F)								
	Rated Power [kW]	Mechanical seal AQQE Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQV Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQE Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQV Product-No.	EUR
CM 1-2	0,30	97 51 65 57	186,89	0,30	97 51 65 86	193,70	0,46	97 51 65 58	180,09	0,46	97 51 65 87	186,89
CM 1-3	0,30	96 80 70 16	203,23	0,30	97 51 65 88	210,04	0,46	97 51 65 59	196,43	0,46	97 51 65 89	203,23
CM 1-4	0,50	97 51 65 60	222,81	0,50	97 51 65 90	229,62	0,46	97 51 42 57	212,60	0,46	96 98 94 72	219,40
CM 1-5	0,50	96 80 70 18	235,40	0,50	97 51 65 91	242,21	0,46	97 51 65 61	225,19	0,46	97 51 65 92	232,00
CM 1-6	0,50	97 51 65 62	249,87	0,50	97 51 65 93	256,68	0,46	97 51 65 63	239,66	0,46	96 80 68 00	246,47
CM 1-7	0,50	96 80 70 20	280,51	0,50	97 51 65 94	287,32	0,65	97 51 65 64	270,30	0,65	97 51 65 95	277,11
CM 1-8	0,67	96 80 70 21	300,26	0,67	97 51 65 96	307,06	0,65	96 96 75 04	286,64	0,65	96 80 68 01	293,45
CM 3-2	0,30	96 80 70 22	192,17	0,30	97 51 65 97	198,98	0,46	96 97 46 93	185,36	0,46	97 51 65 98	192,17
CM 3-3	0,50	96 80 70 23	211,91	0,50	96 97 68 36	218,72	0,46	96 97 46 92	201,70	0,46	97 51 65 99	208,51
CM 3-4	0,50	97 51 65 65	228,09	0,50	97 51 66 00	234,89	0,46	96 80 70 26	217,87	0,46	97 51 66 01	224,68
CM 3-5	0,50	96 80 70 24	242,72	0,50	96 97 68 35	249,53	0,65	97 51 65 66	232,51	0,65	97 51 66 02	239,32
CM 3-6	0,67	96 80 70 25	271,32	0,67	97 51 66 03	278,13	0,65	96 80 70 27	257,70	0,65	97 51 66 04	264,51
CM 3-7	0,90	97 51 65 67	335,83	0,90	97 51 66 05	342,64	0,85	97 51 65 68	315,40	0,85	97 51 66 06	322,21
CM 3-8	0,90	97 51 65 69	393,70	0,90	97 51 66 07	400,51	1,20	96 80 70 28	373,28	1,20	97 51 66 08	380,09
CM 5-2	0,50	96 80 70 29	208,34	0,50	97 51 66 09	215,15	0,46	96 80 70 31	198,13	0,46	97 51 66 10	204,94
CM 5-3	0,50	96 80 70 30	222,81	0,50	97 51 66 11	229,62	0,65	96 80 70 32	212,60	0,65	97 51 66 12	219,40
CM 5-4	0,67	97 51 65 70	242,38	0,67	97 51 66 13	249,19	0,85	96 97 46 81	228,77	0,85	97 51 66 14	235,57
CM 5-5	0,90	97 51 65 71	334,13	0,90	97 51 30 42	340,94	1,20	96 80 70 33	313,70	1,20	97 51 66 15	320,51
CM 5-6	1,30	97 51 65 72	462,64	1,30	97 51 66 16	469,45	1,20	96 80 70 34	328,17	1,20	97 51 66 17	334,98
CM 5-7	1,30	97 51 65 73	536,51	1,30	97 51 66 18	543,32	1,58	97 51 65 74	402,04	1,58	97 51 66 19	408,85
CM 5-8	1,30	97 51 65 75	561,87	1,30	97 51 66 20	568,68	1,58	97 50 96 14	427,40	1,58	96 80 68 20	434,21
CM 10-1	0,67	97 51 65 76	310,47	0,67	97 51 66 21	324,09	0,65	97 51 65 77	296,85	0,65	97 51 66 22	310,47
CM 10-2	1,30	96 94 33 44	458,38	1,30	97 51 66 23	472,00	1,20	96 94 33 45	323,91	1,20	96 94 33 47	337,53
CM 10-3	1,90	97 51 65 78	625,53	1,90	96 94 33 55	639,15	2,20	96 94 33 53	479,15	2,20	96 94 33 57	492,77
CM 10-4	-	-	-	-	-	-	3,20	96 94 33 60	630,98	3,20	96 94 33 74	644,60
CM 10-5	-	-	-	-	-	-	3,20	97 50 95 20	742,98	3,20	97 51 66 24	756,60
CM 15-1	1,30	97 51 65 79	754,72	1,30	97 51 66 25	768,34	1,20	97 51 65 80	620,26	1,20	97 51 66 26	633,87
CM 15-2	1,90	97 51 65 81	860,26	1,90	97 51 66 27	873,87	2,20	97 50 77 59	713,87	2,20	97 51 66 28	727,49
CM 15-3	-	-	-	-	-	-	4,00	96 88 74 67	825,87	4,00	97 51 66 29	839,49
CM 15-4	-	-	-	-	-	-	5,80	97 51 65 82	867,40	5,80	97 51 66 30	881,02
CM 25-1	1,90	97 51 65 83	813,45	1,90	97 51 66 31	827,06	2,20	97 51 65 84	667,06	2,20	97 51 66 32	680,68
CM 25-2	-	-	-	-	-	-	4,00	97 50 91 07	843,91	4,00	97 51 66 33	857,53
CM 25-3	-	-	-	-	-	-	5,80	97 50 91 06	1.040,85	5,80	97 51 66 34	1.054,47
CM 25-4	-	-	-	-	-	-	7,40	97 51 65 85	1.266,55	7,40	97 50 95 81	1.280,17

Motors in 60 Hz or 50/60 Hz on request.

7

Horizontal centrifugal pump, non self-priming, with high efficiency electromotor
 Supply voltage 1 x 220 - 240 V with klixon TP111 or 3 x 220 - 240/380 - 415 V, 50 Hz, IP 55, from 3 kW with PTC
 Mechanical seal in basic version SiC / SiC, elastomers Viton (AQQV) or EPDM (AQQE).
 Pump mounted on baseplate, with axial suction and radial discharge. Pipe connection: **R = Whitworth-thread Rp**

CM I (1.4301) (Product Group: CW)

Wetted parts stainless steel (EN 1.4301/AISI 304)

Type	(1.4301) 1 x 220 - 240 V (voltage type C)						(1.4301) 3 x 220 - 240 / 380 - 415 V (voltage type F)					
	Rated Power [kW]	Mechanical seal AQQE Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQV Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQE Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQV Product-No.	EUR
CM 1-2	0,30	97 51 41 62	288,85	0,30	97 51 63 81	300,77	0,46	97 51 44 13	282,04	0,46	97 51 63 82	293,96
CM 1-3	0,30	97 51 44 39	316,26	0,30	97 51 63 83	328,17	0,46	97 51 51 09	309,45	0,46	97 51 63 84	321,36
CM 1-4	0,50	97 51 49 99	341,45	0,50	97 51 63 85	353,36	0,46	97 51 51 21	331,23	0,46	97 51 63 86	343,15
CM 1-5	0,50	97 51 50 00	365,11	0,50	97 51 63 87	377,02	0,46	96 80 70 14	354,89	0,46	97 51 63 88	366,81
CM 1-6	0,50	97 51 50 21	370,72	0,50	97 51 63 89	382,64	0,46	97 51 51 22	360,51	0,46	97 51 63 90	372,43
CM 1-7	0,50	97 51 50 23	418,04	0,50	97 51 63 91	429,96	0,65	97 51 51 23	407,83	0,65	97 51 63 92	419,74
CM 1-8	0,67	97 51 50 24	430,47	0,67	97 51 63 93	442,38	0,65	96 97 69 02	416,85	0,65	97 51 63 94	428,77
CM 1-12	-	-	-	-	-	-	0,85	97 51 51 04	494,13	-	-	-
CM 3-2	0,30	96 96 10 11	299,74	0,30	96 96 11 24	311,66	0,46	96 96 10 23	292,94	0,46	96 96 10 24	304,85
CM 3-3	0,50	96 96 10 25	323,23	0,50	96 96 10 30	335,15	0,46	96 96 10 26	313,02	0,46	96 96 10 31	324,94
CM 3-4	0,50	96 96 10 45	345,19	0,50	96 96 10 48	357,11	0,46	96 96 10 47	334,98	0,46	96 96 10 49	346,89
CM 3-5	0,50	96 96 10 51	370,72	0,50	96 96 10 53	382,64	0,65	96 96 10 52	360,51	0,65	96 98 40 43	372,43
CM 3-6	0,67	97 51 50 32	414,13	0,67	97 51 63 95	426,04	0,65	97 51 51 26	400,51	0,65	97 50 67 34	412,43
CM 3-7	0,90	97 51 50 33	448,17	0,90	97 51 63 96	460,09	0,85	96 80 70 15	427,74	0,85	97 51 63 97	439,66
CM 3-8	0,90	97 51 50 34	477,45	0,90	97 51 63 98	489,36	1,20	97 51 51 27	457,02	1,20	97 50 82 56	468,94
CM 3-9	1,30	97 56 93 13	618,89	-	-	-	1,20	97 64 43 38	484,43	-	-	-
CM 3-10	-	-	-	-	-	-	1,20	97 57 60 80	520,85	-	-	-
CM 3-12	-	-	-	-	-	-	1,58	97 57 46 89	599,83	-	-	-
CM 3-13	-	-	-	-	-	-	1,58	97 57 46 90	610,72	-	-	-
CM 3-14	-	-	-	-	-	-	2,20	97 51 52 18	623,49	-	-	-
CM 5-2	0,50	97 51 50 42	297,70	0,50	97 51 63 99	309,62	0,46	96 96 10 54	287,49	0,46	96 96 10 56	299,40
CM 5-3	0,50	97 51 50 44	345,19	0,50	96 96 10 63	357,11	0,65	96 96 10 57	334,98	0,65	96 96 10 64	346,89
CM 5-4	0,67	96 96 10 65	414,13	0,67	96 96 10 95	426,04	0,85	96 96 10 92	400,51	0,85	96 96 10 96	412,43
CM 5-5	0,90	96 96 10 97	457,36	0,90	96 96 11 01	469,28	1,20	96 96 10 98	436,94	1,20	96 96 11 22	448,85
CM 5-6	1,30	97 50 77 49	605,96	1,30	97 50 51 80	617,87	1,20	97 50 77 61	471,49	1,20	97 50 82 86	483,40
CM 5-7	1,30	97 51 50 47	668,09	1,30	97 51 64 00	680,00	1,58	97 51 51 29	533,62	1,58	97 51 64 01	545,53
CM 5-8	1,30	97 51 50 48	682,55	1,30	97 51 64 02	694,47	1,58	97 51 51 30	548,09	1,58	97 50 83 00	560,00
CM 5-9	-	-	-	-	-	-	2,20	97 57 19 54	621,11	-	-	-
CM 5-10	-	-	-	-	-	-	2,20	97 64 43 54	642,89	-	-	-
CM 5-11	-	-	-	-	-	-	2,20	97 57 47 05	678,13	-	-	-
CM 5-12	-	-	-	-	-	-	3,20	97 57 47 06	811,40	-	-	-
CM 5-13	-	-	-	-	-	-	3,20	97 57 47 07	838,64	-	-	-
CM 10-1	0,67	97 51 50 62	437,28	0,67	97 51 64 03	461,11	0,65	97 51 51 33	423,66	0,65	97 51 64 04	447,49
CM 10-2	1,30	96 94 60 04	588,94	1,30	96 94 59 99	612,77	1,20	96 94 59 92	454,47	1,20	96 94 59 95	478,30
CM 10-3	1,90	96 94 60 05	719,49	1,90	96 94 60 00	743,32	2,20	96 94 59 96	573,11	2,20	96 94 59 93	596,94
CM 10-4	-	-	-	-	-	-	3,20	96 94 59 79	782,64	3,20	96 94 59 80	806,47
CM 10-5	-	-	-	-	-	-	3,20	96 94 59 94	846,64	3,20	96 94 59 78	870,47
CM 10-6	-	-	-	-	-	-	4,00	97 64 43 55	862,81	-	-	-
CM 10-7	-	-	-	-	-	-	5,80	97 57 47 09	915,06	-	-	-
CM 10-8	-	-	-	-	-	-	5,80	97 57 47 10	1.093,79	-	-	-
CM 15-1	1,30	97 51 50 64	829,62	1,30	97 51 64 05	853,45	1,20	97 51 52 63	695,15	1,20	97 51 64 06	718,98
CM 15-2	1,90	97 51 50 63	941,96	1,90	97 51 64 07	965,79	2,20	97 51 51 06	795,57	2,20	97 51 64 08	819,40
CM 15-3	-	-	-	-	-	-	4,00	97 51 51 07	915,91	4,00	97 51 64 09	939,74
CM 15-4	-	-	-	-	-	-	5,80	97 51 52 69	1.026,89	5,80	97 51 64 10	1.050,72
CM 25-1	1,90	97 51 50 65	909,11	1,90	97 51 64 11	932,94	2,20	97 51 52 82	762,72	2,20	97 51 64 12	786,55
CM 25-2	-	-	-	-	-	-	4,00	97 50 91 09	1.063,49	4,00	97 51 64 13	1.087,32
CM 25-3	-	-	-	-	-	-	5,80	97 50 91 08	1.315,06	5,80	97 51 09 67	1.338,89
CM 25-4	-	-	-	-	-	-	7,40	97 50 95 88	1.524,77	7,40	97 51 64 14	1.548,60

Motors in 60 Hz or 50/60 Hz on request.



Horizontal centrifugal pump, non self-priming, with high efficiency electromotor
 Supply voltage 1 x 220 - 240 V with klixon TP111 or 3 x 220 - 240/380 - 415 V, 50 Hz, IP 55, from 3 kW with PTC
 Mechanical seal in basic version SiC / SiC, elastomers Viton (AQQV) or EPDM (AQQE).
 Pump mounted on baseplate, with axial suction and radial discharge. Pipe connection: **R = Whitworth-thread Rp**

CM G (1.4401) (Product Group: CW)
 Wetted parts stainless steel (EN 1.4401/AISI 316).

Type	(1.4401) 1 x 220 – 240 V (voltage type C)						(1.4401) 3 x 220-240 / 380 – 415 V (voltage type F)					
	Rated Power [kW]	Mechanical seal AQQE Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQV Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQE Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQV Product-No.	EUR
CM 1-2	0,30	97 51 66 35	362,72	0,30	97 51 66 70	374,64	0,46	97 50 95 82	355,91	0,46	97 51 66 71	367,83
CM 1-3	0,30	97 51 66 36	401,87	0,30	97 51 66 72	413,79	0,46	97 51 66 37	395,06	0,46	97 51 66 73	406,98
CM 1-4	0,50	97 51 66 38	429,28	0,50	97 51 66 74	441,19	0,46	97 51 66 39	419,06	0,46	97 51 66 75	430,98
CM 1-5	0,50	97 51 66 40	455,32	0,50	97 51 66 76	467,23	0,46	97 51 66 41	445,11	0,46	97 51 66 77	457,02
CM 1-6	0,50	97 51 66 42	466,55	0,50	97 51 66 78	478,47	0,46	97 51 66 43	456,34	0,46	97 51 66 79	468,26
CM 1-7	0,50	97 51 66 44	505,36	0,50	97 51 66 80	517,28	0,65	97 51 66 45	495,15	0,65	97 51 66 81	507,06
CM 1-8	0,67	97 51 66 46	542,30	0,67	97 51 66 82	554,21	0,65	97 51 66 47	528,68	0,65	97 51 66 83	540,60
CM 1-9	0,67	97 51 50 25	551,66	0,67	97 51 66 84	563,57	0,65	97 51 51 24	538,04	0,65	96 80 67 82	549,96
CM 1-10	0,67	97 51 50 26	566,47	0,67	97 51 66 86	578,38	0,85	97 51 51 25	552,85	0,85	97 51 66 87	564,77
CM 1-11	0,90	96 93 54 21	605,62	0,90	97 51 66 88	617,53	0,85	96 93 54 22	585,19	0,85	97 51 66 89	597,11
CM 1-12	0,90	96 93 54 23	650,21	0,90	97 51 66 90	662,13	0,85	96 93 54 24	629,79	0,85	96 80 68 39	641,70
CM 1-13	0,90	96 93 54 25	680,00	0,90	97 51 66 91	691,91	1,20	96 93 54 26	659,57	1,20	97 51 66 92	671,49
CM 1-14	1,3	96 93 54 27	905,53	1,3	97 51 66 93	917,45	1,20	96 93 54 28	771,06	1,20	96 80 67 83	782,98
CM 3-2	0,30	96 80 68 80	377,70	0,30	96 80 68 42	389,62	0,46	96 80 68 70	370,89	0,46	96 80 68 21	382,81
CM 3-3	0,50	96 80 68 65	406,98	0,50	96 80 68 79	418,89	0,46	96 80 68 71	396,77	0,46	96 80 68 23	408,68
CM 3-4	0,50	96 80 68 89	434,89	0,50	96 80 68 64	446,81	0,46	96 80 68 84	424,68	0,46	96 80 68 22	436,60
CM 3-5	0,50	96 80 68 82	468,26	0,50	96 80 68 43	480,17	0,65	96 80 68 68	458,04	0,65	96 80 68 28	469,96
CM 3-6	0,67	97 51 66 48	510,64	0,67	97 51 66 94	522,55	0,65	97 51 66 49	497,02	0,65	96 80 68 45	508,94
CM 3-7	0,90	97 51 66 50	539,91	0,90	97 51 66 95	551,83	0,85	97 51 66 51	519,49	0,85	97 51 66 96	531,40
CM 3-8	0,90	97 51 66 52	589,96	0,90	97 51 66 97	601,87	1,20	97 51 66 53	569,53	1,20	97 51 66 98	581,45
CM 3-9	1,30	97 51 50 35	748,60	1,30	96 80 68 44	760,51	1,20	96 96 74 11	614,13	1,20	97 51 66 99	626,04
CM 3-10	1,30	97 51 50 36	795,06	1,30	97 51 67 00	806,98	1,20	96 96 75 07	660,60	1,20	97 51 67 01	672,51
CM 3-11	1,30	96 93 54 47	872,00	1,30	97 51 67 02	883,91	1,58	96 93 54 48	737,53	1,58	97 51 67 03	749,45
CM 3-12	1,30	96 93 54 49	898,04	1,30	97 51 67 04	909,96	1,58	96 93 54 50	763,57	1,58	96 80 67 86	775,49
CM 3-13	1,30	96 93 54 51	912,85	1,30	97 51 67 05	924,77	1,58	96 93 54 52	778,38	1,58	97 51 67 06	790,30
CM 3-14	1,9	96 93 54 53	939,57	1,9	97 51 67 07	951,49	2,20	96 93 54 54	793,19	2,20	97 51 67 08	805,11
CM 5-2	0,50	97 51 66 54	386,55	0,50	97 51 67 09	398,47	0,46	96 80 68 74	376,34	0,46	96 80 68 27	388,26
CM 5-3	0,50	97 51 66 55	455,32	0,50	96 80 68 86	467,23	0,65	96 80 68 73	445,11	0,65	96 80 68 24	457,02
CM 5-4	0,67	96 80 68 93	488,51	0,67	96 80 68 49	500,43	0,85	96 80 68 67	474,89	0,85	96 80 67 88	486,81
CM 5-5	0,90	96 80 68 81	569,53	0,90	96 80 68 54	581,45	1,20	96 80 68 66	549,11	1,20	96 80 68 26	561,02
CM 5-6	1,30	97 51 66 56	731,91	1,30	97 51 67 11	743,83	1,20	96 98 42 19	597,45	1,20	97 52 14 54	609,36
CM 5-7	1,30	97 51 66 57	811,74	1,30	97 51 67 12	823,66	1,58	97 50 89 33	677,28	1,58	97 51 67 13	689,19
CM 5-8	1,30	97 51 66 58	830,30	1,30	96 80 68 55	842,21	1,58	97 51 66 59	695,83	1,58	96 80 68 56	707,74
CM 5-9	1,9	97 51 50 50	935,15	1,9	97 51 67 14	947,06	2,20	97 51 51 31	788,77	2,20	97 51 67 15	800,68
CM 5-10	1,9	97 51 50 61	963,06	1,9	97 51 67 16	974,98	2,20	97 51 51 32	816,68	2,20	97 51 67 17	828,60
CM 5-11	1,9	96 93 54 75	1.010,38	1,9	97 51 67 18	1.022,30	2,20	96 93 54 76	864,00	2,20	97 51 67 19	875,91
CM 5-12	-	-	-	-	-	-	3,20	96 93 54 77	1.032,85	3,20	96 80 67 89	1.044,77
CM 5-13	-	-	-	-	-	-	3,20	96 93 54 78	1.068,26	3,20	96 80 67 90	1.080,17
CM 10-1	0,67	97 51 66 60	523,06	0,67	97 51 67 20	546,89	0,65	96 94 31 83	509,45	0,65	96 80 69 82	533,28
CM 10-2	1,30	96 94 32 17	721,87	1,30	96 94 32 32	745,70	1,20	96 94 32 19	587,40	1,20	96 80 69 83	611,23
CM 10-3	1,90	96 94 32 50	882,38	1,90	96 80 69 81	906,21	2,20	96 94 32 51	736,00	2,20	96 80 69 84	759,83
CM 10-4	-	-	-	-	-	-	3,20	96 94 32 61	968,17	3,20	96 80 69 85	992,00
CM 10-5	-	-	-	-	-	-	3,20	96 94 32 69	1.020,26	3,20	96 94 32 70	1.044,09
CM 10-6	-	-	-	-	-	-	4,00	97 51 53 03	1.094,47	4,00	97 51 67 21	1.118,30
CM 10-7	-	-	-	-	-	-	5,80	96 93 54 89	1.166,64	5,80	97 51 67 22	1.190,47
CM 10-8	-	-	-	-	-	-	5,80	96 93 54 90	1.393,36	5,80	96 80 69 87	1.417,19
CM 15-1	1,20	97 51 66 61	981,96	1,20	97 51 67 23	1.005,79	1,20	96 80 69 98	847,49	1,20	97 51 67 24	871,32
CM 15-2	1,90	97 51 66 62	1.116,43	1,90	97 51 67 25	1.140,26	2,20	97 51 66 63	970,04	2,20	97 51 67 26	993,87
CM 15-3	-	-	-	-	-	-	4,00	97 51 66 64	1.120,51	4,00	97 51 67 27	1.144,34
CM 15-4	-	-	-	-	-	-	5,80	97 51 66 65	1.280,34	5,80	96 80 69 99	1.304,17
CM 25-1	1,90	97 51 66 66	1.053,28	1,90	97 51 67 28	1.077,11	2,20	96 98 78 78	906,89	2,20	96 80 70 08	930,72
CM 25-2	-	-	-	-	-	-	4,00	97 51 66 67	1.267,23	4,00	97 51 67 29	1.291,06
CM 25-3	-	-	-	-	-	-	5,80	97 51 66 68	1.568,34	5,80	97 51 67 30	1.592,17
CM 25-4	-	-	-	-	-	-	7,40	97 51 66 69	1.817,02	7,40	96 80 70 09	1.840,85

Motors in 60 Hz or 50/60 Hz on request.

Horizontal centrifugal pump, non self-priming, with high efficiency electromotor (IP55) with integrated frequency converter.

Supply voltage 1 x 220 - 240 V or 3 x 380 - 480 V, 50/60 Hz, **Nominal speed: 3400 min⁻¹**

Mechanical seal in basic version SiC / SiC, elastomers Viton (AQQV) or EPDM (AQQE).

Pump mounted on baseplate, with axial suction and radial discharge. Pipe connection: **R = Whitworth-thread Rp**

CME A (cast iron) (Product Group: CW)

Type	(Cast Iron) 1 x 220 – 240 V 50/60 Hz (voltage type K)						(Cast Iron) 3 x 380 – 480 V 50/60 Hz (voltage type L)					
	Rated Power [kW]	Mechanical seal AQQE Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQV Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQE Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQV Product-No.	EUR
CME 1-2	0,55	97 50 30 97	733,79	0,55	97 51 67 48	740,60	-	-	-	-	-	-
CME 1-3	0,55	96 80 70 17	751,83	0,55	97 51 67 50	758,64	-	-	-	-	-	-
CME 1-4	0,55	97 51 67 31	791,66	0,55	97 51 67 52	798,47	-	-	-	-	-	-
CME 1-5	1,1	96 80 70 19	849,02	1,1	97 51 67 54	855,83	-	-	-	-	-	-
CME 3-2	0,55	97 51 67 32	739,06	0,55	97 51 67 60	745,87	-	-	-	-	-	-
CME 3-3	1,1	97 51 67 33	811,23	1,1	97 51 67 62	818,04	-	-	-	-	-	-
CME 3-4	1,1	97 51 67 34	836,43	1,1	97 51 67 64	843,23	-	-	-	-	-	-
CME 3-5	1,1	97 51 67 35	919,49	1,1	97 51 67 66	926,30	-	-	-	-	-	-
CME 5-2	1,1	97 51 67 36	791,32	1,1	97 51 67 72	798,13	-	-	-	-	-	-
CME 5-3	1,1	97 51 67 37	827,40	1,1	97 51 67 73	834,21	-	-	-	-	-	-
CME 5-4	-	-	-	-	-	-	1,5	97 51 67 38	1.150,30	1,5	97 51 67 74	1.157,11
CME 5-5	-	-	-	-	-	-	2,2	97 51 67 39	1.379,57	2,2	97 51 67 76	1.386,38
CME 10-1	1,1	97 51 67 41	902,64	1,1	96 80 69 48	916,26	-	-	-	-	-	-
CME 10-2	-	-	-	-	-	-	2,2	97 51 51 08	1.303,15	2,2	96 98 86 16	1.316,77
CME 10-3	-	-	-	-	-	-	4	97 51 67 42	1.736,51	4	96 80 69 49	1.750,13
CME 15-1	-	-	-	-	-	-	2,2	97 51 67 43	1.559,66	2,2	96 80 69 61	1.573,28
CME 15-2	-	-	-	-	-	-	4	97 51 41 74	1.880,85	4	97 51 67 84	1.894,47
CME 15-3	-	-	-	-	-	-	7,5	97 51 67 44	2.228,94	7,5	96 80 69 62	2.242,55
CME 25-1	-	-	-	-	-	-	3	97 51 67 46	1.865,19	3	97 51 67 86	1.878,81
CME 25-2	-	-	-	-	-	-	7,5	97 51 41 75	2.319,15	7,5	96 80 69 73	2.332,77

7

Horizontal centrifugal pump, non self-priming, with high efficiency electromotor (IP55) with integrated frequency converter.

Supply voltage 1 x 220 - 240 V or 3 x 380 - 480 V, 50/60 Hz, **NSpeed: 3400 min⁻¹**

Mechanical seal in basic version SiC / SiC, elastomers Viton (AQQV) or EPDM (AQQE).

Pump mounted on baseplate, with axial suction and radial discharge. Pipe connection: **R = Whitworth-thread Rp**

CME I (1.4301) (Product Group: CW)

Wetted parts stainless steel (EN 1.4301/AISI 304).

(1.4301) 1 x 220 - 240 V 50/60 Hz (voltage type K)

CME I (1.4301) 3 x 380 - 480 V 50/60 Hz (voltage type L)

Type	Rated Power [kW]	Mechanical seal AQQE Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQV Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQE Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQV Product-No.	EUR
CME 1-2	0,55	97 51 67 88	835,91	0,55	97 51 68 08	847,83	-	-	-	-	-	-
CME 1-3	0,55	97 51 67 89	855,83	0,55	97 51 68 09	867,74	-	-	-	-	-	-
CME 1-4	0,55	97 51 67 90	883,23	0,55	97 51 68 10	895,15	-	-	-	-	-	-
CME 1-5	1,10	97 51 67 91	937,19	1,10	97 51 68 11	949,11	-	-	-	-	-	-
CME 3-2	0,55	97 51 67 92	835,91	0,55	97 51 68 12	847,83	-	-	-	-	-	-
CME 3-3	1,10	97 51 67 93	906,38	1,10	97 51 68 13	918,30	-	-	-	-	-	-
CME 3-4	1,10	97 51 67 94	933,62	1,10	97 51 68 14	945,53	-	-	-	-	-	-
CME 3-5	1,10	97 51 67 95	980,94	1,10	97 51 68 15	992,85	-	-	-	-	-	-
CME 5-2	1,10	97 51 67 96	895,49	1,10	97 51 68 16	892,77	-	-	-	-	-	-
CME 5-3	1,10	97 51 67 97	931,91	1,10	97 51 68 17	943,83	-	-	-	-	-	-
CME 5-4	-	-	-	-	-	-	1,50	97 51 67 98	1.272,17	1,50	97 51 68 18	1.284,09
CME 5-5	-	-	-	-	-	-	2,20	97 51 67 99	1.451,40	2,20	97 51 68 19	1.463,32
CME 10-1	1,10	97 51 68 00	1.042,55	1,10	97 51 68 20	1.066,38	-	-	-	-	-	-
CME 10-2	-	-	-	-	-	-	2,20	97 51 68 01	1.450,89	2,20	97 50 20 68	1.474,72
CME 10-3	-	-	-	-	-	-	4,00	97 51 68 02	1.893,45	4,00	97 51 68 22	1.917,28
CME 10-5	-	-	-	-	-	-	5,50	97 57 63 51	2.013,11	-	-	-
CME 15-1	-	-	-	-	-	-	2,20	97 51 68 03	1.638,64	2,20	97 51 68 23	1.662,47
CME 15-2	-	-	-	-	-	-	4,00	97 51 68 04	2.081,02	4,00	97 51 68 24	2.104,85
CME 15-3	-	-	-	-	-	-	7,50	97 51 68 05	2.394,21	7,50	97 51 68 25	2.418,04
CME 25-1	-	-	-	-	-	-	3,00	97 51 68 06	2.037,28	3,00	97 51 68 26	2.061,11
CME 25-2	-	-	-	-	-	-	7,50	97 51 68 07	2.616,68	7,50	97 51 68 27	2.640,51

7

Horizontal centrifugal pump, non self-priming, with high efficiency electromotor (IP55) **with integrated frequency converter.**

Supply voltage 1 x 220 - 240 V or 3 x 380 - 480 V, 50/60 Hz, **Motor speed: 3400 min⁻¹**

Mechanical seal in basic version SiC / SiC, elastomers Viton (AQQV) or EPDM (AQQE).

Pump mounted on baseplate, with axial suction and radial discharge. Pipe connection: **R = Whitworth-tread Rp**

CME G (1.4401) (Product Group: CW)

Type	(1.4401) 1 x 220 – 240 V 50/60 Hz (voltage type K)						(1.4401) 3 x 380 – 480 V 50/60 Hz (voltage type L)					
	Rated Power [kW]	Mechanical seal AQQE Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQV Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQE Product-No.	EUR	Rated Power [kW]	Mechanical seal AQQV Product-No.	EUR
CME 1-2	0,55	97 51 56 85	909,79	0,55	97 51 67 49	921,70	-	-	-	-	-	-
CME 1-3	0,55	97 51 56 86	950,81	0,55	97 51 67 51	962,72	-	-	-	-	-	-
CME 1-4	0,55	97 51 56 87	987,91	0,55	97 51 67 53	999,83	-	-	-	-	-	-
CME 1-5	1,10	97 51 56 88	1.042,38	1,10	97 51 67 55	1.054,30	-	-	-	-	-	-
CME 1-6	1,10	97 51 53 12	1.061,11	1,10	97 51 67 56	1.073,02	-	-	-	-	-	-
CME 1-7	1,10	97 51 53 14	1.094,30	1,10	97 51 67 57	1.106,21	-	-	-	-	-	-
CME 1-8	1,10	96 93 58 97	1.145,36	1,10	97 51 67 58	1.157,28	-	-	-	-	-	-
CME 1-9	-	-	-	-	-	-	1,50	96 93 58 99	1.402,55	1,50	97 51 67 59	1.414,47
CME 3-2	0,55	97 51 56 89	924,77	0,55	97 51 67 61	936,68	-	-	-	-	-	-
CME 3-3	1,10	97 51 56 90	994,04	1,10	97 51 67 63	1.005,96	-	-	-	-	-	-
CME 3-4	1,10	97 51 56 92	1.021,96	1,10	97 51 67 65	1.033,87	-	-	-	-	-	-
CME 3-5	1,10	97 51 56 93	1.073,87	1,10	97 51 67 67	1.085,79	-	-	-	-	-	-
CME 3-6	-	-	-	-	-	-	1,50	97 51 53 28	1.329,53	1,50	97 51 67 68	1.341,45
CME 3-7	-	-	-	-	-	-	1,50	97 51 53 29	1.429,79	1,50	97 51 67 69	1.441,70
CME 3-8	-	-	-	-	-	-	2,20	96 93 59 13	1.603,57	2,20	97 51 67 70	1.615,49
CME 3-9	-	-	-	-	-	-	2,20	96 93 59 15	1.631,49	2,20	97 51 67 71	1.643,40
CME 5-2	1,10	97 51 68 47	994,04	1,10	96 80 68 63	1.005,96	-	-	-	-	-	-
CME 5-3	1,10	96 80 68 88	1.040,51	1,10	96 80 68 75	1.052,43	-	-	-	-	-	-
CME 5-4	-	-	-	-	-	-	1,50	97 51 68 50	1.375,83	1,50	97 51 67 75	1.387,74
CME 5-5	-	-	-	-	-	-	2,20	97 51 68 52	1.578,72	2,20	97 51 67 77	1.590,64
CME 5-6	-	-	-	-	-	-	2,20	97 51 53 31	1.643,74	2,20	97 51 67 78	1.655,66
CME 5-7	-	-	-	-	-	-	3,00	97 51 54 68	1.819,40	3,00	97 51 67 79	1.831,32
CME 5-8	-	-	-	-	-	-	3,00	96 93 59 37	1.978,04	3,00	97 51 67 80	1.989,96
CME 10-1	1,10	97 51 68 49	1.153,02	1,10	97 51 67 81	1.176,85	-	-	-	-	-	-
CME 10-2	-	-	-	-	-	-	2,20	97 51 68 53	1.585,36	2,20	96 80 69 88	1.609,19
CME 10-3	-	-	-	-	-	-	4,00	97 51 68 55	2.068,77	4,00	97 51 67 82	2.092,60
CME 10-4	-	-	-	-	-	-	5,50	97 51 53 35	2.185,87	5,50	97 51 67 83	2.209,70
CME 10-5	-	-	-	-	-	-	5,50	96 93 59 98	2.282,21	5,50	96 80 69 89	2.306,04
CME 15-1	-	-	-	-	-	-	2,20	97 51 68 57	1.791,66	2,20	96 80 70 00	1.815,49
CME 15-2	-	-	-	-	-	-	4,00	97 51 68 58	2.197,11	4,00	97 51 67 85	2.220,94
CME 15-3	-	-	-	-	-	-	7,50	97 51 68 59	2.564,43	7,50	96 80 70 01	2.588,26
CME 25-1	-	-	-	-	-	-	3,00	97 51 68 60	2.296,00	3,00	97 51 67 87	2.319,83
CME 25-2	-	-	-	-	-	-	7,50	97 51 68 71	2.807,83	7,50	96 80 70 10	2.831,66

7

Chapter 8

Coolant pumps



MTB 50 / MTB 65 (Product Group: CW)Single stage close coupled centrifugal pump with **semi-open** impeller, IEC motor in IP 55.

To 1,5 kW 3 x 220 – 240/380 – 415 V, from 2,2 kW 3 x 380 – 415 V delta, 50 Hz., from 3,0 kW with PTC thermistors acc DIN 44082.

Type	Rated Power [kW]	Product-No.	EUR
MTB 65-160-158	5,50	96 58 07 29	1.744,62
MTB 65-160-171	7,50	96 58 07 50	1.921,29
MTB 65-200-183	11,00	96 58 07 51	2.374,02
MTB 65-200-199	15,00	96 58 07 52	2.650,07

SPK 2 / SPK 4 (Product Group: GI)

Multistage immersible pump, seal tungsten-carbide/tungsten-carbide/Viton, Discharge connection Rp ¾, with electromotor

50 Hz

3 x 220 – 240 V D / 380 – 415 V, 50 Hz, IP 55

Type	Immersion Depth [mm]	Rated Power [kW]	Product-No.	EUR
SPK 2 - 15/ 1	434	0,06	3H DH 55 01	358,94
SPK 2 - 15/ 3	434	0,12	3H DH 55 03	407,55
SPK 2 - 15/ 5	434	0,18	3H DH 55 05	421,64
SPK 2 - 15/ 8	434	0,37	3H DH 05 08	466,61
SPK 2 - 15/11	434	0,37	3H DH 05 11	480,23
SPK 2 - 15/15	434	0,55	3H DH 05 15	516,48
SPK 2 - 19/ 1	518	0,06	3H DH 56 01	387,44
SPK 2 - 19/ 3	518	0,12	3H DH 56 03	436,05
SPK 2 - 19/ 5	518	0,18	3H DH 56 05	450,14
SPK 2 - 19/ 8	518	0,37	3H DH 06 08	495,11
SPK 2 - 19/11	518	0,37	3H DH 06 11	508,73
SPK 2 - 19/15	518	0,55	3H DH 06 15	544,98
SPK 2 - 19/19	518	0,75	3H DH 26 19	549,10
SPK 2 - 23/ 1	602	0,06	3H DH 57 01	415,94
SPK 2 - 23/ 3	602	0,12	3H DH 57 03	464,55
SPK 2 - 23/ 5	602	0,18	3H DH 57 05	478,64
SPK 2 - 23/ 8	602	0,37	3H DH 07 08	523,61
SPK 2 - 23/11	602	0,37	3H DH 07 11	537,23
SPK 2 - 23/15	602	0,55	3H DH 07 15	573,48
SPK 2 - 23/19	602	0,75	3H DH 27 19	577,60
SPK 2 - 23/23	602	0,75	3H DH 27 23	644,10
SPK 4 - 1/ 1	140	0,06	3H GH 50 01	275,50
SPK 4 - 3/ 1	182	0,06	3H GH 51 01	289,75
SPK 4 - 3/ 3	182	0,18	3H GH 51 03	319,99
SPK 4 - 5/ 1	224	0,06	3H GH 52 01	304,00
SPK 4 - 5/ 3	224	0,18	3H GH 52 03	334,24
SPK 4 - 8/ 1	287	0,06	3H GH 53 01	325,38
SPK 4 - 8/ 3	287	0,18	3H GH 53 03	355,62
SPK 4 - 8/ 5	287	0,37	3H GH 03 05	387,92
SPK 4 - 8/ 8	287	0,55	3H GH 03 08	431,46
SPK 4 - 11/ 1	350	0,06	3H GH 54 01	346,75
SPK 4 - 11/ 3	350	0,18	3H GH 54 03	376,99
SPK 4 - 11/ 5	350	0,37	3H GH 04 05	409,29
SPK 4 - 11/ 8	350	0,55	3H GH 04 08	452,83
SPK 4 - 11/11	350	0,75	3H GH 24 11	500,65
SPK 4 - 15/ 1	434	0,06	3H GH 55 01	375,25
SPK 4 - 15/ 3	434	0,18	3H GH 55 03	405,49
SPK 4 - 15/ 5	434	0,37	3H GH 05 05	437,79
SPK 4 - 15/ 8	434	0,55	3H GH 05 08	481,33
SPK 4 - 15/11	434	0,75	3H GH 25 11	529,15
SPK 4 - 15/15	434	1,1	3H GH 25 15	613,38
SPK 4 - 19/ 1	518	0,06	3H GH 56 01	403,75
SPK 4 - 19/ 3	518	0,18	3H GH 56 03	433,99
SPK 4 - 19/ 5	518	0,37	3H GH 06 05	466,29
SPK 4 - 19/ 8	518	0,55	3H GH 06 08	509,83
SPK 4 - 19/11	518	0,75	3H GH 26 11	557,65
SPK 4 - 19/15	518	1,1	3H GH 26 15	641,88
SPK 4 - 19/19	518	1,1	3H GH 26 19	671,97

SPK 8 (Product Group: GI)

Multistage immersible pump, shaft seal tungsten-carbide/tungsten-carbide/Viton, Discharge connection Rp 1¼, with electromotor

3 x 220 – 255 D / 380 – 440 V, 50 Hz, IP 55 (only 0,25 kW) 3 x 220 – 240 D / 380 – 415 V, 50 Hz, IP 55 (0,37 kW - 1,5 kW) 3 x 380 – 415 V D, 50 Hz, IP 55 (from 2,2 kW)

Type	Immersion Depth [mm]	Rated Power [kW]	50 Hz Product-No.	EUR
SPK 8 - 2/ 1	224	0,25	3H NH 02 01	467,88
SPK 8 - 2/ 2	224	0,37	3H NH 02 02	475,95
SPK 8 - 3/ 1	266	0,25	3H NH 10 01	482,13
SPK 8 - 3/ 2	266	0,37	3H NH 10 02	490,20
SPK 8 - 3/ 3	266	0,55	3H NH 10 03	504,29
SPK 8 - 5/ 1	350	0,25	3H NH 04 01	510,63
SPK 8 - 5/ 2	350	0,37	3H NH 04 02	518,70
SPK 8 - 5/ 3	350	0,55	3H NH 04 03	532,79
SPK 8 - 5/ 5	350	0,75	3H NH 24 05	544,83
SPK 8 - 7/ 1	434	0,25	3H NH 05 01	539,13
SPK 8 - 7/ 2	434	0,37	3H NH 05 02	547,20
SPK 8 - 7/ 3	434	0,55	3H NH 05 03	561,29
SPK 8 - 7/ 5	434	0,75	3H NH 25 05	573,33
SPK 8 - 7/ 7	434	1,1	3H NH 25 07	581,24
SPK 8 - 9/ 1	518	0,25	3H NH 06 01	567,63
SPK 8 - 9/ 2	518	0,37	3H NH 06 02	575,70
SPK 8 - 9/ 3	518	0,55	3H NH 06 03	589,79
SPK 8 - 9/ 5	518	0,75	3H NH 26 05	601,83
SPK 8 - 9/ 7	518	1,1	3H NH 26 07	609,74
SPK 8 - 9/ 9	518	1,5	3H NH 36 09	810,19
SPK 8 - 12/ 1	644	0,25	3H NH 08 01	610,38
SPK 8 - 12/ 2	644	0,37	3H NH 08 02	618,45
SPK 8 - 12/ 3	644	0,55	3H NH 08 03	632,54
SPK 8 - 12/ 5	644	0,75	3H NH 28 05	644,58
SPK 8 - 12/ 7	644	1,1	3H NH 28 07	652,49
SPK 8 - 12/ 9	644	1,5	3H NH 38 09	852,94
SPK 8 - 12/12	644	2,2	3H NH 38 12	907,41
SPK 8 - 15/ 1	770	0,25	3H NH 09 01	653,13
SPK 8 - 15/ 2	770	0,37	3H NH 09 02	661,20
SPK 8 - 15/ 3	770	0,55	3H NH 09 03	675,29
SPK 8 - 15/ 5	770	0,75	3H NH 29 05	687,33
SPK 8 - 15/ 7	770	1,1	3H NH 29 07	695,24
SPK 8 - 15/ 9	770	1,5	3H NH 39 09	895,69

MTH 2 (Product Group: GI)

Multistage close coupled immersible pump with shaft seal tungsten-carbide/tungsten-carbide/Viton. Discharge connection Rp ¾. with electromotor 3 x 220 – 240 D / 380 – 415 VV, 50 Hz or 3 x 220 – 255/380 – 440 YV, 60 Hz, IP 54

50 / 60 Hz

Type	Immersion Depth [mm]	Power Consumption [kw]	A-W-A-AUUV Product-No.	EUR
MTH 2- 30/ 1	145	255 / 315	43 64 11 31	294,80
MTH 2- 30/ 2	145	370 / 505	43 64 11 32	301,07
MTH 2- 30/ 3	145	480 / 700	43 64 11 33	304,08
MTH 2- 40/ 3	163	480 / 700	43 64 11 43	306,11
MTH 2- 40/ 4	163	620 / 900	43 64 11 44	310,13
MTH 2- 50/ 4	181	620 / 900	43 64 11 54	314,01
MTH 2- 50/ 5	181	715 / 1050	43 64 11 55	316,03
MTH 2- 60/ 1	199	255 / 315	43 64 11 61	300,87
MTH 2- 60/ 2	199	370 / 505	43 64 11 62	307,17
MTH 2- 60/ 3	199	480 / 700	43 64 11 63	310,14
MTH 2- 60/ 4	199	620 / 900	43 64 11 64	314,15
MTH 2- 60/ 5	199	715 / 1050	43 64 11 65	318,01
MTH 2- 70/ 7	217	948 / 1474	43 64 11 77	361,43
MTH 2- 80/ 3	235	480 / 700	43 64 11 83	314,21
MTH 2- 80/ 6	235	845 / 1280	43 64 11 86	325,03
MTH 2- 80/ 8	235	1054 / 1666	43 64 11 88	367,44
MTH 2- 90/ 5	253	715 / 1050	43 64 11 95	324,11
MTH 2- 90/ 7	253	948 / 1474	43 64 11 97	366,59

50 / 60 Hz

Type	Immersion Depth [mm]	Power Consumption [kw]	A-W-A-AUUV Product-No.	EUR
MTH 2- 90/ 9	253	1160	43 64 11 99	369,49
MTH 2-100/ 6	271	845 / 1280	43 64 11 06	328,84
MTH 2-110/ 1	289	255 / 315	43 64 11 11	311,44
MTH 2-110/ 2	289	370 / 505	43 64 11 12	316,00
MTH 2-110/ 4	289	620 / 900	43 64 11 14	324,11
MTH 2-110/ 5	289	715 / 1050	43 64 11 15	326,83
MTH 2-110/ 6	289	845 / 1280	43 64 11 16	330,46
MTH 2-110/ 8	289	1054 / 1666	43 64 11 18	371,09
MTH 2-110/11	289	1371	43 64 11 21	377,17

MTH 4 (Product Group: GI)

Multistage close coupled immersible pump with shaft seal tungsten-carbide/tungsten-carbide/Viton. Discharge connection Rp ¾. with electromotor 3 x 220 – 240 D / 380 – 415 VV, 50 Hz or 3 x 220 – 255/380 – 440 VV, 60 Hz, IP 54

50 / 60 Hz

Type	Immersion Depth [mm]	Power Consumption [kw]	A-W-A-AUUV Product-No.	EUR
MTH 4-30/3	172	760 /1170	44 64 11 33	323,24
MTH 4-40/1	199	340 / 475	44 64 11 41	316,87
MTH 4-40/2	199	540 / 800	44 64 11 42	320,53
MTH 4-40/4	199	960 /1510	44 64 11 44	327,75
MTH 4-50/2	226	540 / 800	44 64 11 52	323,24
MTH 4-50/4	226	960 /1510	44 64 11 54	329,54
MTH 4-50/5	226	1150 /	44 64 11 55	338,63
MTH 4-60/3	253	760 /1170	44 64 11 63	332,26
MTH 4-60/4	253	960 /1510	44 64 11 64	335,94
MTH 4-60/5	253	1150 /	44 64 11 65	341,34
MTH 4-60/6	253	1335 /	44 64 11 66	344,04
MTH 4-70/4	280	960 /1510	44 64 11 74	338,63
MTH 4-70/5	280	1150 /	44 64 11 75	344,93
MTH 4-70/6	280	1335 /	44 64 11 76	346,73
MTH 4-80/4	307	960 /1510	44 64 11 84	341,34
MTH 4-80/5	307	1150 /	44 64 11 85	347,65
MTH 4-80/6	307	1335 /	44 64 11 86	350,39

Multistage immersible pump with motor, IP 55, form V 1, from 3,0 kW with PTC thermistors acc. DIN 44082. Cartridge shaft seal with material combination tungsten-carbide/tungsten-carbide, elastomers in Viton-HUUV Discharge connection G 1¼

MTR 1s (Product Group: GI)

Version A-W-A-HUUV

50 Hz

3 x 220 – 240/380 – 415 V, 50 Hz, IP 55 to 1,5 kW

Type	Immersion Depth [mm]	Rated Power [kW]	Product-No.	EUR
MTR 1s -13/13	358	0,55	96 51 48 54	591,53
MTR 1s -25/25	574	0,75	96 51 48 62	721,68
MTR 1s -30/30	664	1,1	96 51 48 65	784,54

MTR 1 (Product Group: GI)

Version A-W-A-HUUV

50 Hz

3 x 220 – 240/380 – 415 V, 50 Hz, IP 55 to 1,5 kW 3 x 380 – 415 V D, 50 Hz, IP 55 from 2,2 kW

Type	Immersion Depth [mm]	Rated Power [kW]	Product-No.	EUR
MTR 1 - 3/ 3	178	0,37	96 51 48 69	569,53
MTR 1 - 4/ 4	196	0,37	96 51 48 70	574,28
MTR 1 - 5/ 5	214	0,37	96 51 48 71	578,23
MTR 1 - 6/ 6	232	0,37	96 51 48 72	584,73
MTR 1 - 7/ 7	250	0,37	96 51 48 73	588,84
MTR 1 - 8 / 8	268	0,55	96 51 48 74	599,45
MTR 1 - 9/ 9	286	0,55	96 51 48 75	610,38
MTR 1 -10/10	304	0,55	96 51 48 76	614,65
MTR 1 -11/11	322	0,55	96 51 48 77	618,93
MTR 1 -12/12	340	0,75	96 51 48 78	637,93
MTR 1 -13/13	358	0,75	96 51 48 80	644,58
MTR 1 -15/15	394	0,75	96 51 48 81	655,34
MTR 1 -17/17	430	1,1	96 51 48 82	702,37
MTR 1 -19/19	466	1,1	96 51 48 83	710,92
MTR 1 -21/21	502	1,1	96 51 48 84	721,68
MTR 1 -22/22	520	1,1	96 51 48 85	725,96
MTR 1 -23/23	538	1,1	96 51 48 86	732,29
MTR 1 -25/25	574	1,5	96 51 48 87	925,14
MTR 1 -26/26	592	1,5	96 51 48 88	931,48
MTR 1 -27/27	610	1,5	96 51 48 89	935,91
MTR 1 -30/30	664	1,5	96 51 48 90	959,50
MTR 1 -33/33	718	2,2	96 51 50 56	1.066,53
MTR 1 -36/36	772	2,2	96 51 50 57	1.081,42

Different immersion depth is possible with empty chambers.

Multistage immersible pump with motor, IP 55, form V 1, from 3,0 kW with PTC thermistors acc. DIN 44082.

Cartridge shaft seal with material tungsten-carbide/tungsten-carbidel, elastomers in Viton-HUUV. Discharge connection G 1¼

MTR 3 (Product Group: GI)

Version A-W-A-HUUV

50 Hz

3 x 220 – 240/380 – 415 V, 50 Hz, IP 55 to 1,5 kW 3 x 380 – 415 V D, 50 Hz, IP 55 from 2,2 kW

Type	Immersion Depth [mm]	Rated Power [kW]	Product-No.	EUR
MTR 3 - 3/ 3	178	0,37	96 51 48 94	558,92
MTR 3 - 4/ 4	196	0,37	96 51 48 95	565,25
MTR 3 - 5/ 5	214	0,37	96 51 48 96	569,53
MTR 3 - 6/ 6	232	0,55	96 51 48 97	588,84
MTR 3 - 7/ 7	250	0,55	96 51 48 98	595,33
MTR 3 - 8 / 8	268	0,75	96 51 48 99	611,64
MTR 3 - 9/ 9	286	0,75	96 51 49 00	618,93
MTR 3- 10/10	304	0,75	96 51 49 01	625,26
MTR 3 -11/11	322	0,75	96 51 49 02	629,53
MTR 3 -12/12	340	1,1	96 51 49 03	687,48
MTR 3 -13/13	358	1,1	96 51 49 04	691,76
MTR 3 -15/15	394	1,1	96 51 49 05	702,37
MTR 3 -17/17	430	1,5	96 51 49 06	910,10
MTR 3 -19/19	466	1,5	96 51 49 07	920,87
MTR 3 -21/21	502	2,2	96 51 50 58	993,70
MTR 3 -22/22	520	2,2	96 51 50 59	997,98
MTR 3 -23/23	538	2,2	96 51 50 80	1.004,31
MTR 3 -25/25	574	2,2	96 51 50 81	1.013,02
MTR 3 -26/26	592	2,2	96 51 50 82	1.019,35
MTR 3 -27/27	610	2,2	96 51 50 83	1.023,63
MTR 3 -30/30	664	3	96 51 50 84	1.092,18
MTR 3 -33/33	718	3	96 51 50 85	1.113,56
MTR 3 -36/36	772	3	96 51 50 86	1.128,44

MTR 5 (Product Group: GI)

Version A-W-A-HUUV

50 Hz

3 x 220 – 240/380 – 415 V, 50 Hz, IP 55 to 1,5 kW 3 x 380 – 415 V D, 50 Hz, IP 55 from 2,2 kW

Type	Immersion Depth [mm]	Rated Power [kW]	Product-No.	EUR
MTR 5 - 3/ 3	196	0,55	96 51 49 18	563,19
MTR 5 - 4/ 4	223	0,55	96 51 49 19	569,53
MTR 5 - 5/ 5	250	0,75	96 51 49 20	597,55
MTR 5 - 6/ 6	277	1,1	96 51 49 21	653,28
MTR 5 - 7/ 7	304	1,1	96 51 49 22	659,62
MTR 5 - 8/ 8	331	1,1	96 51 49 23	668,17
MTR 5 - 9/ 9	358	1,5	96 51 49 28	867,35
MTR 5 -10/10	385	1,5	96 51 49 29	875,74
MTR 5 -12/12	439	2,2	96 51 49 31	935,91
MTR 5 -14/14	493	2,2	96 51 50 88	948,58
MTR 5 -16/16	547	2,2	96 51 50 89	963,78
MTR 5 -17/17	583	3	96 51 50 90	1.027,90
MTR 5 -18/18	601	3	96 51 50 91	1.034,23
MTR 5 -19/19	628	3	96 51 50 92	1.042,94
MTR 5 -20/20	655	3	96 51 50 93	1.049,43
MTR 5 -21/21	682	4	96 51 50 94	1.053,71
MTR 5 -22/22	709	4	96 51 50 95	1.267,62
MTR 5 -24/24	763	4	96 51 50 97	1.282,82
MTR 5 -26/26	817	4	96 51 50 98	1.295,64
MTR 5 -29/29	898	4	96 51 50 99	1.317,02
MTR 5 -32/32	979	5,5	96 51 51 00	1.640,33

Different immersion depth is possible with empty chambers.

Multistage immersible pump with motor, IP 55, form V 1, from 3,0 kW with PTC thermistors acc. DIN 44082. Cartridge shaft seal with material combination tungsten-carbide/ tungsten-carbide, elastomers in Viton-HUUV. Discharge connection G2

MTR 10 (Product Group: GI)

Version A-W-A-HUUV

3 x 220 – 240/380 – 415 V V, 50 Hz, IP 55 to 1,5 kW 3 x 380 – 415 V D, 50 Hz, IP 55 from 2,2 kW

Type	Immersion Depth [mm]	Rated Power [kW]	50 Hz Product-No.	EUR
MTR 10 - 2/ 1	148	0,75	96 51 59 41	793,57
MTR 10 - 2/ 2	148	0,75	96 51 54 47	792,30
MTR 10 - 3/ 3	178	1,1	96 51 54 48	835,21
MTR 10 - 4/ 4	208	1,5	96 51 54 49	978,66
MTR 10 - 5/ 5	238	2,2	96 51 54 50	1.036,61
MTR 10 - 6/ 6	268	2,2	96 51 56 85	1.057,83
MTR 10 - 7/ 7	298	3	96 51 56 88	1.105,01
MTR 10 - 8/ 8	328	3	96 51 56 90	1.126,38
MTR 10 - 9/ 9	358	3	96 51 56 92	1.147,76
MTR 10 -10/10	388	4	96 51 56 95	1.415,50
MTR 10 -12/12	448	4	96 51 56 99	1.458,41
MTR 10 -14/14	508	5,5	96 51 57 03	1.719,50
MTR 10 -16/16	568	5,5	96 51 57 06	1.762,41
MTR 10 -18/18	628	7,5	96 51 57 09	1.813,87
MTR 10 -20/20	688	7,5	96 51 57 11	1.856,62
MTR 10 -22/22	748	7,5	96 51 57 14	1.899,37

MTR 15 (Product Group: GI)

3 x 220 – 240/380 – 415 Y V, 50 Hz, IP 55 to 1,5 kW 3 x 380 – 415 V D, 50 Hz, IP 55 from 2,2 kW

Type	Immersion Depth [mm]	Rated Power [kW]	50 Hz Product-No.	EUR
MTR 15- 2/ 1	178	1,1	96 51 59 95	836,00
MTR 15- 2/ 2	178	2,2	96 51 54 63	925,14
MTR 15- 3/ 3	223	3,00	96 51 57 29	1.027,90
MTR 15- 4/ 4	268	4,00	96 51 57 32	1.212,20
MTR 15- 5/ 5	313	4,00	96 51 57 35	1.242,13
MTR 15- 6/ 6	358	5,50	96 51 57 38	1.466,80
MTR 15- 7/ 7	403	5,50	96 51 57 40	1.496,88
MTR 15- 8/ 8	448	7,50	96 51 57 43	1.612,47
MTR 15- 9/ 9	493	7,50	96 51 57 46	1.642,55
MTR 15-10/10	538	11	96 51 57 48	2.460,50
MTR 15-12/12	628	11	96 51 57 52	2.520,51
MTR 15-14/14	718	11	96 51 57 55	2.582,58
MTR 15-16/16	808	15	96 51 57 57	3.289,22
MTR 15-17/17	853	15	96 51 57 59	3.319,14

MTR 20 (Product Group: GI)

3 x 220 – 240/380 – 415 Y V, 50 Hz, IP 55 to 1,5 kW 3 x 380 – 415 V D, 50 Hz, IP 55 from 2,2 kW

Type	Immersion Depth [mm]	Rated Power [kW]	50 Hz Product-No.	EUR
MTR 20- 2/ 1	178	1,10	96 51 54 76	891,89
MTR 20- 2/ 1	178	1,1	96 51 60 45	917,23
MTR 20- 2/ 2	178	2,2	96 51 54 77	1.017,13
MTR 20- 3/ 3	223	4,00	96 51 57 69	1.366,26
MTR 20- 4/ 4	268	5,50	96 51 57 71	1.616,74
MTR 20- 5/ 5	313	5,50	96 51 57 74	1.646,67
MTR 20- 6/ 6	358	7,50	96 51 57 76	1.775,23
MTR 20- 7/ 7	403	7,50	96 51 57 79	1.807,53
MTR 20- 8/ 8	448	11	96 51 57 81	2.779,54
MTR 20-10/10	538	11	96 51 57 83	2.841,77
MTR 20-12/12	628	15	96 51 57 86	3.588,94
MTR 20-14/14	718	15	96 51 57 89	3.651,17
MTR 20-16/16	808	18,5	96 51 57 91	4.231,62
MTR 20-17/17	853	18,5	96 51 57 94	4.293,53

Different immersion depth is possible with empty chambers.

Multistage immersible with IP 55 motor, form V 1, from 3,0 kW with PTC thermistors acc. DIN 44082
 Cartridge shaft seal with material combination tungsten-carbide/tungsten-carbide, elastomers in Viton-EUUV.
 Discharge connection DN 65 (MTR 32 + 45)
 DN 80 (MTR 64)

MTR 32 (Product Group: GI)

Multistage immersible pump with motor, IP 55, form V 1, from 3,0 kW with PTC thermistors acc. DIN 44082
 Cartridge shaft seal with material combination tungsten-carbide/tungsten-carbide, elastomers in Viton-EUUV.

Discharge connection DN 65 (MTR 32 + 45)
 DN 80 (MTR 64)

3 x 220 - 240 D / 380 - 415 Y or 3 x 380-415 VD from 2.2 kW

Type	Immersion Depth [mm]	Rated Power [kW]	50 Hz Product-No.	EUR
MTR 32- 2	223	4,00	96 42 95 69	1.614,84
MTR 32- 2/ 1	223	2,2	96 42 95 51	1.170,24
MTR 32- 2-2	223	3,00	96 42 95 68	1.373,23
MTR 32- 3	293	5,50	96 42 95 70	2.087,15
MTR 32- 4	363	7,50	96 42 95 71	2.599,20
MTR 32- 5	433	11	96 42 95 72	3.321,52
MTR 32- 6	503	11	96 42 95 73	3.502,49
MTR 32- 7	573	15	96 42 95 74	4.122,21
MTR 32- 8	643	15	96 42 95 75	4.303,34
MTR 32- 9	713	18,5	96 42 95 76	4.884,43

Immersible coolant pumps **MTR 32 / MTR 45 / MTR 64 / MTRE 1(S) / MTRE 3 / MTRE 5 / MTRE 10**

3 x 220 - 240 D / 380 - 415 Y or 3 x 380-415 VD from 2.2 kW

Type	Immersion Depth [mm]	Rated Power [kW]	50 Hz Product-No.	EUR
MTR 32-10	783	18,5	96 42 95 77	5.065,56
MTR 32-11	853	22	96 42 95 78	5.685,12
MTR 32-12	923	22	96 42 95 79	5.866,25

MTR 45 (Product Group: GI)

3 x 380 – 415 D V

Type	Immersion Depth [mm]	Rated Power [kW]	50 Hz Product-No.	EUR
MTR 45-2	244	7,50	96 42 96 47	2.518,29
MTR 45-2/1	244	4,00	96 42 96 45	1.556,42
MTR 45-2-2	244	5,50	96 42 96 46	2.014,63
MTR 45-3	324	11,00	96 42 96 48	3.345,58
MTR 45-4	404	15,00	96 42 96 49	4.154,83
MTR 45-5	484	18,50	96 42 96 50	4.944,75
MTR 45-6	564	22,00	96 42 96 51	5.610,23
MTR 45-7	644	30,00	96 42 96 52	6.116,26
MTR 45-8	724	30,00	96 42 96 53	6.514,78

MTR 64 (Product Group: GI)

3 x 380 – 415 D V

Type	Immersion Depth [mm]	Rated Power [kW]	50 Hz Product-No.	EUR
MTR 64-2	249	11	96 42 97 02	3.188,52
MTR 64-2/1	249	5,50	96 42 97 00	1.922,01
MTR 64-2-2	249	7,50	96 42 97 01	2.437,38
MTR 64-3	332	18,5	96 42 97 04	4.605,28
MTR 64-3-1	332	15	96 42 97 03	4.006,31
MTR 64-4	414	22	96 42 97 05	5.354,20
MTR 64-5	497	30	96 42 97 06	5.712,98

Different immersion depth is possible with empty chambers.

Multistage immersible pump, IEC Motor with integrated frequency converter and PI controller. Supply voltage 1 x 200–240 V (bis 1,1 kW) oder 3 x 400 V (from 1,5 kW) 50 Hz / 60 Hz, 2900 min⁻¹ IP 54

Cartridge shaft seal with material combination tungsten-carbide/tungsten-carbide, elastomers in Viton-HUUV

Discharge connection G 1¼ for MTRE 1s, 1,3 and 5

Discharge connection G 2 for MTRE 10, 15 and 20

MTRE 1 (Product Group: GI)

Type	Immersion Depth [mm]	Rated Power [kW]	Product-No.	EUR
MTRE 1- 5/ 5	214	0,37	96 52 03 00	1.062,73

MTRE 3 (Product Group: GI)

Type	Immersion Depth [mm]	Rated Power [kW]	Product-No.	EUR
MTRE 3-15/15	394	1,10	96 52 03 10	1.232,78
MTRE 3-36/36	772	3,00	96 52 03 15	2.270,03

MTRE 5 (Product Group: GI)

Type	Immersion Depth [mm]	Rated Power [kW]	Product-No.	EUR
MTRE 5-20/20	655	3,00	96 52 03 22	2.191,02

MTRE 10 (Product Group: GI)

Type	Immersion Depth [mm]	Rated Power [kW]	Product-No.	EUR
MTRE 10- 6/ 6	268	2,20	96 52 03 98	2.053,74
MTRE 10-22/22	748	7,50	96 52 04 07	3.745,53

MTRE 15 (Product Group: GI)

Type	Immersion Depth [mm]	Rated Power [kW]	Product-No.	EUR
MTRE 15- 5/ 5	313	4,00	96 52 04 11	2.556,29

Multistage immersible pump, IEC Motor with integrated frequency converter and PI controller. Supply voltage 3 x 400 V 50 Hz / 60 Hz, 2900 min-1 IP 54
Cartridge shaft seal with material combination tungsten-carbide/tungsten-carbide, elastomers in Viton-HJUV
Discharge connection DN 65 (MTRE 32 + 45)
DN 80 (MTRE 64)

MTRE 64 (Product Group: GI)

Type	Immersion Depth [mm]	Rated Power [kW]	Product-No.	EUR
MTRE 64-2/1-1	249	4,00	96 55 00 63	2.865,52

Different immersion depth is possible with empty chambers.

MTS 20 (Product Group: GI)

Screw spindle pums with motor, IP 55, form V 1, from 3,0 kW with PTC thermistors acc. DIN 44082
Standard materials for rotor and rotor housing hart-metal/hart-metal, elastomers in FKM
DQ-version for tank mounting (discharge over the tank) and suitable for max. 1 bar inlet pressure; discharge combi-connection acc. SAE and G (MTS 20 /40 SAE 1" G ¾; MTS 80 /140 SAE 1½" G 1¼)D 8.6 - for tank mounting (discharge over the tank) with mechanical seal, suitable for max 10 bar inlet pressure; inlet connection acc. SAE (MTS 20 / 40 - SAE 1½"; MTS 80/140 - SAE 2")

3 x 220 - 240 D / 380 - 415 Y or 3 x 380-415 VD from 2.2 kW

Type	Rated Power [kW]	Motor Type	50 Hz Product-No.	EUR
MTS 20- 80 R38	5,50	DQ	95 00 97 89	2.864,73
MTS 20- 60 R46	5,50	DQ	95 00 97 97	2.864,73
MTS 20- 30 R56	4,00	DQ	95 00 98 03	2.706,42
MTS 20- 40 R56	5,50	DQ	95 00 98 05	2.864,73
MTS 20- 50 R56	7,50	DQ	95 00 98 07	3.017,39

MTS 80 (Product Group: GI)

3 x 380 - 415 V D

Type	Rated Power [kW]	Motor Type	50 Hz Product-No.	EUR
MTS 80- 30 R36	7,50	DQ	95 00 98 31	4.329,13

Chapter 9

Submersible pumps



SP 3A / SP5 A / SP8A

Delivered with motor cable (flat, for drinking water) with plug to be connected to Grundfos cable coupling or cable kit; for MS 6000 free cable end for cable connection. MS motors from 5,5 kW to 30 kW, and all MS-R motors, include Tempcon to monitor motor temperature with MP 204. Tempcon for motors below 5,5 kW on request. Temperature sensor Pt100 see Accessories.
 1) = Please consider different pump diameter and connection.

SP 3A, SP 5A and SP 8A in N-version stainless steel 1.4401 and in R-version 1.4539 on request.
 Motors with special voltage on request. Pumps with integrated non-return valve.

SP 2A (Product Group: CW)

Pump Connection Rp 1½					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y (Direct) Product-No.	EUR
SP 2A - 6	MS 402 B	0,37	1,40	09 00 1K 06	516,42
SP 2A - 9	MS 402 B	0,37	1,40	09 00 1K 09	543,13
SP 2A - 13	MS 402 B	0,55	2,20	09 00 1K 13	598,47
SP 2A - 18	MS 402 B	0,75	2,30	09 00 1K 18	659,10
SP 2A - 23	MS 402 B	1,10	3,40	09 00 1K 23	745,06
SP 2A - 28	MS 402 B	1,50	4,20	09 00 1K 28	836,49
SP 2A - 33	MS 402 B	1,50	4,20	09 00 1K 33	880,94
SP 2A - 40	MS 402 B	2,20	5,50	09 10 1K 40	1.636,59
SP 2A - 48	MS 402 B	2,20	5,50	09 10 1K 48	1.835,55
SP 2A - 55	MS 4000	3,00	7,85	09 10 1K 55	2.217,41
SP 2A - 65	MS 4000	3,00	7,85	09 10 1K 65	2.504,92
SP 2A - 75	MS 4000	4,00	9,60	09 30 1K 75	4.969,65
SP 2A - 90	MS 4000	4,00	9,60	09 30 1K 90	5.636,78

SP 3A (Product Group: CW)

Pump Connection Rp 1¼					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y (Direct) Product-No.	EUR
SP 3A - 6	MS 402 B	0,37	1,40	10 00 1K 06	528,29
SP 3A - 9	MS 402 B	0,55	2,20	10 00 1K 09	558,50
SP 3A - 12	MS 402 B	0,75	2,30	10 00 1K 12	617,58
SP 3A - 15	MS 402 B	1,10	3,40	10 00 1K 15	685,73
SP 3A - 18	MS 402 B	1,10	3,40	10 00 1K 18	712,42
SP 3A - 22	MS 402 B	1,50	4,20	10 00 1K 22	793,40
SP 3A - 25	MS 402 B	1,50	4,20	10 00 1K 25	821,65
SP 3A - 29	MS 402 B	2,20	5,50	10 00 1K 29	932,99
SP 3A - 33	MS 402 B	2,20	5,50	10 00 1K 33	1.006,61
SP 3A - 39	MS 4000	3,00	7,85	10 10 1K 39	1.860,43
SP 3A - 45	MS 4000	3,00	7,85	10 10 1K 45	1.993,87
SP 3A - 52	MS 4000	4,00	9,60	10 10 1K 52	2.235,36
SP 3A - 60	MS 4000	4,00	9,60	10 10 1K 60	2.478,46

SP 5A (Product Group: CW)

Pump Connection Rp 1½					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y (Direct) Product-No.	EUR
SP 5A - 4	MS 402 B	0,37	1,40	05 00 1K 04	522,37
SP 5A - 6	MS 402 B	0,55	2,20	05 00 1K 06	543,71
SP 5A - 8	MS 402 B	0,75	2,30	05 00 1K 08	593,90
SP 5A - 12	MS 402 B	1,1	3,40	05 00 1K 12	670,93
SP 5A - 17	MS 402 B	1,5	4,20	05 00 1K 17	760,83
SP 5A - 21	MS 402 B	2,2	5,50	05 00 1K 21	872,13
SP 5A - 25	MS 402 B	2,2	5,50	05 00 1K 25	909,29
SP 5A - 33	MS 4000	3,0	7,85	05 00 1K 33	1.203,27
SP 5A - 38	MS 4000	4,0	9,60	05 10 1K 38	2.204,57
SP 5A - 44	MS 4000	4,0	9,60	05 10 1K 44	2.382,46
SP 5A - 52 ¹⁾	MS 4000	5,5	13,00	05 17 1K 52	2.976,87

Pump Connection Rp 1½

Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y (Direct) Product-No.	EUR
SP 5A - 60 ¹⁾	MS 4000	5,5	13,00	05 17 1K 60	3.214,05
SP 5A - 75 ¹⁾	MS 6000	7,5	16,60	53 01 97 5	6.172,52
SP 5A - 85 ¹⁾	MS 6000	7,5	16,60	53 01 98 5	6.697,94

Delivered with motor cable (flat, for drinking water) with plug to be connected to Grundfos cable coupling or cable kit; for MS 6000 free cable end for cable connection. MS motors from 5,5 kW to 30 kW, and all MS-R motors, include Tempcon to monitor motor temperature with MP 204. Tempcon for motors below 5,5 kW on request. Temperature sensor Pt100 for MS 6000 motors see page 155.
 1) =Please consider different pump diameter and connection.

SP 3A, SP 5A and SP 8A in N-version stainless steel 1.4401 and in R-version stainless steel 1.4539 on request.

Motors with special voltage on request. Pumps with integrated non-return valve.

SP 8A (Product Group: CW)

Pump Connection Rp 2					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y (Direct) Product-No.	EUR
SP 8A - 5	MS 402 B	0,75	2,3	11 70 1K 05	634,13
SP 8A - 7	MS 402 B	1,1	3,4	11 70 1K 07	751,41
SP 8A - 10	MS 402 B	1,5	4,2	11 70 1K 10	910,28
SP 8A - 12	MS 402 B	2,2	5,5	11 70 1K 12	1.063,95
SP 8A - 15	MS 402 B	2,2	5,5	11 70 1K 15	1.176,74
SP 8A - 18	MS 4000	3	7,85	11 70 1K 18	1.539,24
SP 8A - 21	MS 4000	4	9,6	11 70 1K 21	1.737,98
SP 8A - 25	MS 4000	4	9,6	11 70 1K 25	1.888,38
SP 8A - 30	MS 4000	5,5	13	11 17 1K 30	2.438,82
SP 8A - 37	MS 4000	5,5	13	11 17 1K 37	2.707,23
SP 8A - 44	MS 4000	7,5	18,8	11 17 1K 44	3.392,12
SP 8A - 44 ¹⁾	MS 6000	7,5	16,6	11 70 19 44	3.449,83
SP 8A - 50	MS 4000	7,5	18,8	11 17 1K 50	3.639,43
SP 8A - 50 ¹⁾	MS 6000	7,5	16,6	11 70 19 50	3.697,12
SP 8A - 58 ¹⁾	MS 6000	9,2	20,2	11 72 19 58	5.794,98
SP 8A - 66 ¹⁾	MS 6000	11	24,6	11 72 19 66	6.273,87
SP 8A - 73 ¹⁾	MS 6000	11	24,6	11 72 19 73	6.659,50
SP 8A - 82 ¹⁾	MS 6000	13	29	11 72 19 82	7.227,48
SP 8A - 91 ¹⁾	MS 6000	15	33,5	11 72 19 91	7.840,33
SP 8A - 100 ¹⁾	MS 6000	15	33,5	11 72 19 92	8.325,86
SP 8A - 110 ¹⁾	MS 6000	18,5	41,5	11 72 19 93	8.920,06

SP 14A (Product Group: CW)

Pump Connection Rp 2					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y (Direct) Product-No.	EUR
SP 14A - 5	MS 402 B	1,5	4,20	07 10 1K 05	917,79
SP 14A - 7	MS 402 B	2,2	5,50	07 10 1K 07	1.101,56
SP 14A - 10	MS 4000	3,0	7,85	07 10 1K 10	1.487,81
SP 14A - 13	MS 4000	4,0	9,60	07 10 1K 13	1.753,02
SP 14A - 18	MS 4000	5,5	13,00	07 10 1K 18	2.165,97
SP 14A - 25 ¹⁾	MS 4000	7,5	18,80	07 10 1K 25	2.959,45
SP 14A - 25 ¹⁾	MS 6000	7,5	16,60	71 61 92 5	3.233,57



SP17 to SP 215

Delivered with motor cable (flat, for drinking water) with plug (MS 402 B and MS 4000) to be connected to Grundfos cable coupling or cable kit; for MS 6000 and MS6 (both flat cable) and MMS motors (single wires) free cable end for cable connection.
MS motors from 5,5 kW to 30 kW, and all MS-R motors, include Tempcon to monitor motor temperature with MP 204 / MP 205.

Tempcon for motors smaller than 5,5 kW on request. Temperature sensor Pt100 for MS 6000 and MMS motors see Accessories.

Versions with MMS 8000 motor instead of MMS 6000 motor, e.g. for horizontal installation on request. Motors with special voltage on request.

>For operation with frequency converter please consider special requirements. For use with freq. converter, MMS motors have to be used with PE/PA-winding.

¹⁾ = Please consider different pump diameter and connection.

SP 17 to SP 215 in N-version stainless steel 1.4401 on request.

SP 17 to SP 215 in R-version stainless steel 1.4539 on request. Pumps with integrated non-return valve.

SP 17 (Product Group: WS)

Direct

G 2					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y (Direct) Product-No.	EUR
SP 17 - 1	MS 402 B	0,55	2,20	12 A0 19 01	735,59
SP 17 - 2	MS 402 B	1,10	3,40	12 A0 19 02	882,71
SP 17 - 3	MS 402 B	2,20	5,50	12 A0 19 03	1.093,48
SP 17 - 4	MS 402 B	2,20	5,50	12 A0 19 04	1.181,74
SP 17 - 5	MS 4000	3,00	7,85	12 A0 19 05	1.547,01
SP 17 - 6	MS 4000	4,00	9,60	12 A0 19 06	1.755,63
SP 17 - 7	MS 4000	4,00	9,60	12 A0 19 07	1.841,59
SP 17 - 8	MS 4000	5,50	13	12 A0 19 08	2.046,81
SP 17 - 8	MS 6000	5,50	12,2	12 AA 19 08	2.498,96
SP 17 - 9	MS 4000	5,50	13	12 A0 19 09	2.135,09
SP 17 - 9	MS 6000	5,50	12,2	12 AA 19 09	2.587,26
SP 17 - 10	MS 4000	5,50	13	12 A0 19 10	2.222,21
SP 17 - 10	MS 6000	5,50	12,2	12 AA 19 10	2.674,38
SP 17 - 11	MS 4000	7,50	18,8	12 AA 19 11	2.728,32
SP 17 - 11	MS 6000	7,50	16,6	12 A0 19 11	2.788,23
SP 17 - 12	MS 4000	7,50	18,8	12 AA 19 12	2.810,83
SP 17 - 12	MS 6000	7,50	16,6	12 A0 19 12	2.870,74
SP 17 - 13	MS 4000	7,50	18,8	12 AA 19 13	2.892,28
SP 17 - 13	MS 6000	7,50	16,6	12 A0 19 13	2.952,16
SP 17 - 14	MS 6000	9,20	20,2	12 A0 19 14	3.212,33
SP 17 - 15	MS 6000	9,20	20,2	12 A0 19 15	3.312,11
SP 17 - 16	MS 6000	9,20	20,2	12 A0 19 16	3.388,90
SP 17 - 17	MS 6000	9,20	20,2	12 A0 19 17	3.465,71
SP 17 - 18	MS 6000	11	24,6	12 A0 19 18	3.586,54
SP 17 - 19	MS 6000	11	24,6	12 A0 19 19	3.662,22
SP 17 - 20	MS 6000	11	24,6	12 A0 19 20	3.756,22
SP 17 - 21	MS 6000	13	29	12 A0 19 21	3.980,18
SP 17 - 22	MS 6000	13	29	12 A0 19 22	4.106,30
SP 17 - 23	MS 6000	13	29	12 A0 19 23	4.182,01
SP 17 - 24	MS 6000	13	29	12 A0 19 24	4.256,51
SP 17 - 25	MS 6000	15	33,5	12 A0 19 25	4.420,07
SP 17 - 26	MS 6000	15	33,5	12 A0 19 26	4.533,54
SP 17 - 27	MS 6000	15	33,5	12 A0 19 27	4.639,04
SP 17 - 28	MS 6000	18,5	41,5	12 A0 19 28	4.953,22
SP 17 - 29	MS 6000	18,5	41,5	12 A0 19 29	5.024,33
SP 17 - 30	MS 6000	18,5	41,5	12 A0 19 30	5.095,42
SP 17 - 31	MS 6000	18,5	41,5	12 A0 19 31	5.211,19
SP 17 - 32	MS 6000	18,5	41,5	12 A0 19 32	5.307,48
SP 17 - 33	MS 6000	18,5	41,5	12 A0 19 33	5.378,57
SP 17 - 34	MS 6000	22	48,5	12 A0 19 34	5.562,50
SP 17 - 35	MS 6000	22	48,5	12 A0 19 35	5.633,60
SP 17 - 36	MS 6000	22	48,5	12 A0 19 36	5.704,66
SP 17 - 37	MS 6000	22	48,5	12 A0 19 37	5.775,76
SP 17 - 38	MS 6000	22	48,5	12 A0 19 38	5.846,82
SP 17 - 39	MS 6000	22	48,5	12 A0 19 39	5.917,91
SP 17 - 40	MS 6000	22	48,5	12 A0 19 40	5.989,01
SP 17 - 43 ¹⁾	MS 6000	26	57,5	12 A4 19 43	7.268,69

Direct

G 2					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y (Direct) Product-No.	EUR
SP 17 - 45 ¹⁾	MS 6000	26	57,5	12 A4 19 45	7.381,07
SP 17 - 48 ¹⁾	MS 6000	26	57,5	12 A4 19 48	7.550,73

Delivered with motor cable (flat, for drinking water) with plug (MS 402 B and MS 4000) to be connected to Grundfos cable coupling or cable kit; for MS 6000 and MS6 (both flat cable) and MMS motors (single wires) free cable end for cable connection.

MS motors from 5,5 kW to 30 kW, and all MS-R motors, include Tempcon to monitor motor temperature with MP 204 / MP 205.

Motor temperature with MP 204.

Tempcon for motors below 5,5 kW on request. Temperature sensor Pt100 for MS 6000 and MMS-motors see page 157.

Versions with MMS 8000 motors instead of MMS 6000 motor, or for horizontal installation on request. Motors with extra voltage on request.

For operation with frequency converter please consider special requirements. For use with freq. converter, MMS motors have to be used with PE/PA-winding.

¹⁾ = Please consider different pump diameter and connection.

SP 17 to SP 215 in N-version stainless steel 1.4401 on request.

SP 17 to SP 215 in R-version stainless steel 1.4539 on request.

SP 17 (Product Group: WS)

Star / Delta

Rp 2½					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 VD Product-No.	EUR
SP 17 - 8	MS 6000	5,5	12,2	12 AB 69 08	2.666,52
SP 17 - 9	MS 6000	5,5	12,2	12 AB 69 09	2.759,34
SP 17 - 10	MS 6000	5,5	12,2	12 AB 69 10	2.851,09
SP 17 - 11	MS 6000	7,5	16,6	12 A1 69 11	2.970,41
SP 17 - 12	MS 6000	7,5	16,6	12 A1 69 12	3.057,56
SP 17 - 13	MS 6000	7,5	16,6	12 A1 69 13	3.142,36
SP 17 - 14	MS 6000	9,2	20,2	12 A1 69 14	3.416,17
SP 17 - 15	MS 6000	9,2	20,2	12 A1 69 15	3.520,49
SP 17 - 16	MS 6000	9,2	20,2	12 A1 69 16	3.600,74
SP 17 - 17	MS 6000	9,2	20,2	12 A1 69 17	3.682,14
SP 17 - 18	MS 6000	11	24,6	12 A1 69 18	3.808,63
SP 17 - 19	MS 6000	11	24,6	12 A1 69 19	3.887,73
SP 17 - 20	MS 6000	11	24,6	12 A1 69 20	3.987,48
SP 17 - 21	MS 6000	13	29	12 A1 69 21	4.221,80
SP 17 - 22	MS 6000	13	29	12 A1 69 22	4.354,77
SP 17 - 23	MS 6000	13	29	12 A1 69 23	4.433,90
SP 17 - 24	MS 6000	13	29	12 A1 69 24	4.511,87
SP 17 - 25	MS 6000	15	33,5	12 A1 69 25	4.684,50
SP 17 - 26	MS 6000	15	33,5	12 A1 69 26	4.803,72
SP 17 - 27	MS 6000	15	33,5	12 A1 69 27	4.913,81
SP 17 - 28	MS 6000	18,5	41,5	12 A1 69 28	5.243,48
SP 17 - 29	MS 6000	18,5	41,5	12 A1 69 29	5.318,01
SP 17 - 30	MS 6000	18,5	41,5	12 A1 69 30	5.392,52
SP 17 - 31	MS 6000	18,5	41,5	12 A1 69 31	5.515,19
SP 17 - 32	MS 6000	18,5	41,5	12 A1 69 32	5.616,10

Star / Delta

Rp 2½					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 VD Product-No.	EUR
SP 17 - 33	MS 6000	18,5	41,5	12 A1 69 33	5.690,63
SP 17 - 34	MS 6000	22	48,5	12 A1 69 34	5.884,02
SP 17 - 35	MS 6000	22	48,5	12 A1 69 35	5.958,53
SP 17 - 36	MS 6000	22	48,5	12 A1 69 36	6.033,02
SP 17 - 37	MS 6000	22	48,5	12 A1 69 37	6.107,55
SP 17 - 38	MS 6000	22	48,5	12 A1 69 38	6.182,06
SP 17 - 39	MS 6000	22	48,5	12 A1 69 39	6.256,57
SP 17 - 40	MS 6000	22	48,5	12 A1 69 40	6.331,13
SP 17 - 43 ¹⁾	MS 6000	26	57,5	12 A5 69 43	7.675,56
SP 17 - 45 ¹⁾	MS 6000	26	57,5	12 A5 69 45	7.792,52
SP 17 - 48 ¹⁾	MS 6000	26	57,5	12 A5 69 48	7.971,37

SP 30 (Product Group: WS)

Direct

Rp 3					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y Product-No.	EUR
SP 30 - 1	MS 402 B	1,10	3,40	13 A0 19 01	829,98
SP 30 - 2	MS 402 B	2,20	5,50	13 A0 19 02	1.062,51
SP 30 - 3	MS 4000	3,00	7,85	13 A0 19 03	1.399,08
SP 30 - 4	MS 4000	4,00	9,60	13 A0 19 04	1.595,08
SP 30 - 5	MS 4000	5,50	13	13 A0 19 05	1.855,33
SP 30 - 5	MS 6000	5,50	12,2	13 AA 19 05	2.307,53
SP 30 - 6	MS 4000	5,50	13	13 A0 19 06	2.016,98
SP 30 - 6	MS 6000	5,50	12,2	13 AA 19 06	2.469,16
SP 30 - 7	MS 4000	7,50	18,8	13 AA 19 07	2.496,71
SP 30 - 7	MS 6000	7,50	16,6	13 A0 19 07	2.556,62
SP 30 - 8	MS 4000	7,50	18,8	13 AA 19 08	2.602,19
SP 30 - 8	MS 6000	7,50	16,6	13 A0 19 08	2.662,11
SP 30 - 9	MS 6000	9,20	20,2	13 A0 19 09	2.901,66
SP 30 - 10	MS 6000	9,20	20,2	13 A0 19 10	3.002,54
SP 30 - 11	MS 6000	9,20	20,2	13 A0 19 11	3.103,44
SP 30 - 12	MS 6000	11	24,6	13 A0 19 12	3.248,32
SP 30 - 13	MS 6000	11	24,6	13 A0 19 13	3.412,27
SP 30 - 14	MS 6000	13	29	13 A0 19 14	3.682,11
SP 30 - 15	MS 6000	13	29	13 A0 19 15	3.783,00
SP 30 - 16	MS 6000	15	33,5	13 A0 19 16	3.974,07
SP 30 - 17	MS 6000	15	33,5	13 A0 19 17	4.073,84
SP 30 - 18	MS 6000	18,5	41,5	13 A0 19 18	4.415,54
SP 30 - 19	MS 6000	18,5	41,5	13 A0 19 19	4.515,29
SP 30 - 20	MS 6000	18,5	41,5	13 A0 19 20	4.671,18
SP 30 - 21	MS 6000	18,5	41,5	13 A0 19 21	4.871,79
SP 30 - 22	MS 6000	22	48,5	13 A0 19 22	5.090,18
SP 30 - 23	MS 6000	22	48,5	13 A0 19 23	5.189,88
SP 30 - 24	MS 6000	22	48,5	13 A0 19 24	5.288,51
SP 30 - 25	MS 6000	22	48,5	13 A0 19 25	5.385,95
SP 30 - 26	MS 6000	22	48,5	13 A0 19 26	5.483,42
SP 30 - 27	MS 6000	26	57,5	13 A0 19 27	5.843,62
SP 30 - 28	MS 6000	26	57,5	13 A0 19 28	5.939,91
SP 30 - 29	MS 6000	26	57,5	13 A0 19 29	6.036,22
SP 30 - 30	MS 6000	26	57,5	13 A0 19 30	6.131,38
SP 30 - 31	MS 6000	26	57,5	13 A0 19 31	6.226,54
SP 30 - 32	MS 6000	30	65	13 A0 19 32	6.530,27
SP 30 - 33	MS 6000	30	65	13 A0 19 33	6.624,35
SP 30 - 34	MS 6000	30	65	13 A0 19 34	6.718,32
SP 30 - 35	MS 6000	30	65	13 A0 19 35	6.812,32

Direct

Rp 3					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y Product-No.	EUR
SP 30 - 39 ¹⁾	MMS 6000	37	80	13 A4 03 39	9.065,49
SP 30 - 43 ¹⁾	MMS 6000	37	80	13 A4 03 43	9.590,60
SP 30 - 49 ¹⁾	MMS 8000	45	96,5	13 A5 03 49	11.760,87

SP 30 (Product Group: WS)

Star / Delta

Rp 3					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 VD Product-No.	EUR
SP 30 - 5	MS 6000	5,5	12,2	13 AB 69 05	2.465,84
SP 30 - 6	MS 6000	5,5	12,2	13 AB 69 06	2.635,52
SP 30 - 7	MS 6000	7,5	16,6	13 A1 69 07	2.727,32
SP 30 - 8	MS 6000	7,5	16,6	13 A1 69 08	2.838,58
SP 30 - 9	MS 6000	9,2	20,2	13 A1 69 09	3.089,42
SP 30 - 10	MS 6000	9,2	20,2	13 A1 69 10	3.196,04
SP 30 - 11	MS 6000	9,2	21,8	13 A1 69 11	3.301,50
SP 30 - 12	MS 6000	11	24,6	13 A1 69 12	3.453,20
SP 30 - 13	MS 6000	11	24,6	13 A1 69 13	3.626,34
SP 30 - 14	MS 6000	13	29	13 A1 69 14	3.908,81
SP 30 - 15	MS 6000	13	29	13 A1 69 15	4.015,43
SP 30 - 16	MS 6000	15	33,5	13 A1 69 16	4.215,59
SP 30 - 17	MS 6000	15	33,5	13 A1 69 17	4.319,94
SP 30 - 19	MS 6000	18,5	41,5	13 A1 69 19	4.783,73
SP 30 - 20	MS 6000	18,5	41,5	13 A1 69 20	4.947,70
SP 30 - 21	MS 6000	18,5	41,5	13 A1 69 21	5.158,66
SP 30 - 22	MS 6000	22	48,5	13 A1 69 22	5.387,55
SP 30 - 23	MS 6000	22	48,5	13 A1 69 23	5.491,87
SP 30 - 24	MS 6000	22	48,5	13 A1 69 24	5.596,23
SP 30 - 25	MS 6000	22	48,5	13 A1 69 25	5.698,20
SP 30 - 26	MS 6000	22	48,5	13 A1 69 26	5.800,27
SP 30 - 27	MS 6000	26	57,5	13 A1 69 27	6.178,26
SP 30 - 28	MS 6000	26	57,5	13 A1 69 28	6.280,29
SP 30 - 29	MS 6000	26	57,5	13 A1 69 29	6.381,18
SP 30 - 30	MS 6000	26	57,5	13 A1 69 30	6.480,93
SP 30 - 31	MS 6000	26	57,5	13 A1 69 31	6.580,68
SP 30 - 32	MS 6000	30	65	13 A1 69 32	6.880,83
SP 30 - 33	MS 6000	30	65	13 A1 69 33	6.979,43
SP 30 - 34	MS 6000	30	65	13 A1 69 34	7.078,05
SP 30 - 35	MS 6000	30	65	13 A1 69 35	7.176,65
SP 30 - 39 ¹⁾	MMS 6000	37	80	13 A4 53 39	9.507,17
SP 30 - 43 ¹⁾	MMS 6000	37	80	13 A4 53 43	9.979,94
SP 30 - 46 ¹⁾	MMS 8000	45	96,5	13 A5 53 46	11.642,06
SP 30 - 49 ¹⁾	MMS 8000	45	96,5	13 A5 53 49	12.234,69

SP 46 (Product Group: WS)

Direct

G 2					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y Product-No.	EUR
SP 46 - 1B	MS 402	1,10	3,40	15 A2 19 C1	1.036,34
SP 46 - 1	MS 402	2,20	5,50	15 A2 19 01	1.144,61
SP 46 - 2BB	MS 402	2,20	5,50	15 A2 19 D2	1.198,50
SP 46 - 2	MS 4000	3,00	7,85	15 A2 19 02	1.466,99
SP 46 - 3C	MS 4000	4,00	9,60	15 A2 19 F3	1.724,73
SP 46 - 3	MS 4000	5,50	13,00	15 A2 19 03	1.843,70
SP 46 - 4C	MS 4000	5,50	13,00	15 A2 19 F4	1.926,41
SP 46 - 4C	MS 6000	5,50	12,20	15 AC 19 F4	2.337,30
SP 46 - 4	MS 6000	7,50	16,60	15 A2 19 04	2.439,25
SP 46 - 5	MS 4000	7,50	18,80	15 AC 19 05	2.555,20
SP 46 - 5	MS 6000	7,50	16,60	15 A2 19 05	2.614,53
SP 46 - 6	MS 6000	9,20	20,20	15 A2 19 06	2.921,98
SP 46 - 7	MS 6000	11	24,60	15 A2 19 07	3.135,73
SP 46 - 8C	MS 6000	11	24,60	15 A2 19 F8	3.247,61
SP 46 - 8	MS 6000	13	29,00	15 A2 19 08	3.373,13
SP 46 - 9C	MS 6000	13	29,00	15 A2 19 F9	3.528,13
SP 46 - 9	MS 6000	15	33,50	15 A2 19 09	3.693,51
SP 46 - 10	MS 6000	15	33,50	15 A2 19 10	3.866,12
SP 46 - 11	MS 6000	18,5	41,50	15 A2 19 11	4.280,21
SP 46 - 12	MS 6000	18,5	41,50	15 A2 19 12	4.451,80
SP 46 - 13	MS 6000	22	48,50	15 A2 19 13	4.799,50
SP 46 - 14	MS 6000	22	48,50	15 A2 19 14	4.973,65
SP 46 - 15	MS 6000	22	48,50	15 A2 19 15	5.147,27
SP 46 - 16	MS 6000	26	57,50	15 A2 19 16	5.584,32
SP 46 - 17	MS 6000	26	57,50	15 A2 19 17	5.756,92
SP 46 - 18	MS 6000	30	65,00	15 A2 19 18	6.138,71
SP 46 - 19	MS 6000	30	65,00	15 A2 19 19	6.231,94
SP 46 - 20	MS 6000	30	65,00	15 A2 19 20	6.358,49
SP 46 - 22	MMS 6000	37	80,00	15 A2 03 22	7.300,59
SP 46 - 23	MMS 6000	37	80,00	15 A2 03 23	7.464,82
SP 46 - 24	MMS 6000	37	80,00	15 A2 03 24	7.628,50
SP 46 - 26 ¹⁾	MMS 8000	45	96,50	15 A4 03 26	9.830,77
SP 46 - 28 ¹⁾	MMS 8000	45	96,50	15 A4 03 28	10.014,08

SP 46 (Product Group: WS)

Star / Delta

Rp 3					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 VD Product-No.	EUR
SP 46 - 5	MS 6000	7,5	16,6	15 A3 69 05	2.788,19
SP 46 - 6	MS 6000	9,2	20,2	15 A3 69 06	3.110,95
SP 46 - 7	MS 6000	11	24,6	15 A3 69 07	3.335,47
SP 46 - 8C	MS 6000	11	24,6	15 A3 69 F8	3.366,53
SP 46 - 8	MS 6000	13	29	15 A3 69 08	3.584,70
SP 46 - 9C	MS 6000	13	29	15 A3 69 F9	3.650,50
SP 46 - 9	MS 6000	15	33,5	15 A3 69 09	3.921,08
SP 46 - 10	MS 6000	15	33,5	15 A3 69 10	4.102,32
SP 46 - 11	MS 6000	18,5	41,5	15 A3 69 11	4.537,06
SP 46 - 12	MS 6000	18,5	41,5	15 A3 69 12	4.717,26
SP 46 - 13	MS 6000	22	48,5	15 A3 69 13	5.082,37
SP 46 - 14	MS 6000	22	48,5	15 A3 69 14	5.265,23
SP 46 - 15	MS 6000	22	48,5	15 A3 69 15	5.447,55
SP 46 - 16	MS 6000	26	57,5	15 A3 69 16	5.906,36
SP 46 - 17	MS 6000	26	57,5	15 A3 69 17	6.087,60
SP 46 - 18	MS 6000	30	65	15 A3 69 18	6.552,40

Star / Delta

Rp 3					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 VD Product-No.	EUR
SP 46 - 19	MS 6000	30	65	15 A3 69 19	6.567,79
SP 46 - 20	MS 6000	30	65	15 A3 69 20	6.700,67
SP 46 - 21	MMS 6000	37	80	15 A3 53 21	7.431,53
SP 46 - 22	MMS 6000	37	80	15 A3 53 22	7.604,50
SP 46 - 24	MMS 6000	37	80	15 A3 53 24	7.948,75

SP 60 (Product Group: WS)

(Direct)

Rp 4					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y Product-No.	EUR
SP 60 - 1A	MS 402	1,50	4,20	14 A0 19 A1	1.344,41
SP 60 - 1	MS 402	2,20	5,50	14 A0 19 01	1.453,34
SP 60 - 2B	MS 4000	3,00	7,85	14 A0 19 C2	1.747,21
SP 60 - 2	MS 4000	4,00	9,60	14 A0 19 02	1.866,43
SP 60 - 3	MS 4000	5,50	13	14 A0 19 03	2.131,48
SP 60 - 4	MS 4000	7,50	18,8	14 A0 19 04	2.608,07
SP 60 - 4	MS 6000	7,50	16,6	14 AA 19 04	2.747,72
SP 60 - 5	MS 6000	9,20	20,2	14 A0 19 05	3.028,13
SP 60 - 6	MS 6000	11	24,6	14 A0 19 06	3.217,65
SP 60 - 7	MS 6000	13	29	14 A0 19 07	3.449,29
SP 60 - 8B	MS 6000	13	29	14 A0 19 C8	3.546,67
SP 60 - 8	MS 6000	15	33,5	14 A0 19 08	3.682,68
SP 60 - 9B	MS 6000	15	33,5	14 A0 19 C9	3.778,31
SP 60 - 9	MS 6000	18,5	41,5	14 A0 19 09	4.070,28
SP 60 - 10	MS 6000	18,5	41,5	14 A0 19 10	4.212,93
SP 60 - 11	MS 6000	22	48,5	14 A0 19 11	4.526,91
SP 60 - 12	MS 6000	22	48,5	14 A0 19 12	4.728,31
SP 60 - 13	MS 6000	26	57,5	14 A0 19 13	5.137,76
SP 60 - 14	MS 6000	26	57,5	14 A0 19 14	5.285,33
SP 60 - 15	MS 6000	26	57,5	14 A0 19 15	5.433,05
SP 60 - 16	MS 6000	30	65	14 A0 19 16	5.799,12
SP 60 - 17	MS 6000	30	65	14 A0 19 17	5.874,64
SP 60 - 19	MMS 6000	37	80	14 A0 03 19	6.736,77
SP 60 - 20	MMS 6000	37	80	14 A0 03 20	6.877,84
SP 60 - 21	MMS 6000	37	80	14 AA 03 21	7.018,76
SP 60 - 22	MMS 8000	45	96,5	14 A0 03 22	8.647,22

9

SP 60 (Product Group: WS)

Star / Delta

Pump connection Rp 4					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 VD Product-No.	EUR
SP 60 - 4	MS 6000	7,5	16,6	14 AB 69 04	2.957,67
SP 60 - 6	MS 6000	11	24,6	14 A1 69 06	3.449,29
SP 60 - 7	MS 6000	13	29	14 A1 69 07	3.692,65
SP 60 - 8	MS 6000	15	33,5	14 A1 69 08	3.937,75
SP 60 - 9B	MS 6000	15	33,5	14 A1 69 C9	4.038,45
SP 60 - 9	MS 6000	18,5	41,5	14 A1 69 09	4.343,88
SP 60 - 10	MS 6000	18,5	41,5	14 A1 69 10	4.494,93
SP 60 - 11	MS 6000	22	48,5	14 A1 69 11	4.823,94
SP 60 - 12	MS 6000	22	48,5	14 A1 69 12	5.035,32
SP 60 - 13	MS 6000	26	57,5	14 A1 69 13	5.466,78
SP 60 - 14	MS 6000	26	57,5	14 A1 69 14	5.621,15
SP 60 - 15	MS 6000	26	57,5	14 A1 69 15	5.777,27
SP 60 - 16	MS 6000	30	65	14 A1 69 16	6.129,72
SP 60 - 17	MS 6000	30	65	14 A1 69 17	6.208,57
SP 60 - 18	MMS 6000	37	80	14 A1 53 18	6.854,25
SP 60 - 19	MMS 6000	37	80	14 A1 53 19	7.005,30
SP 60 - 20	MMS 6000	37	80	14 A1 53 20	7.153,03
SP 60 - 22	MMS 8000	45	96,5	14 A1 53 22	9.258,07

SP 77 (Product Group: WS)

Direct

Rp 5					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y (Direct) Product-No.	EUR
SP 77 - 1	MS 6000	5,5	12,20	16 A0 19 01	2.943,67
SP 77 - 2B	MS 6000	5,5	12,20	16 A0 19 C2	3.127,24
SP 77 - 2	MS 6000	7,5	16,60	16 A0 19 02	3.237,03
SP 77 - 3B	MS 6000	9,2	20,20	16 A0 19 C3	3.599,87
SP 77 - 3	MS 6000	11	24,60	16 A0 19 03	3.736,24
SP 77 - 4B	MS 6000	13	29,00	16 A0 19 C4	3.988,21
SP 77 - 4	MS 6000	15	33,50	16 A0 19 04	4.168,06
SP 77 - 5	MS 6000	18,5	41,50	16 A0 19 05	4.551,43
SP 77 - 6	MS 6000	22	48,50	16 A0 19 06	4.930,61
SP 77 - 7	MS 6000	26	57,50	16 A0 19 07	5.453,43
SP 77 - 8B	MS 6000	26	57,50	16 A0 19 C8	5.644,73
SP 77 - 8	MS 6000	30	65,00	16 A0 19 08	5.921,52
SP 77 - 9	MS 6000	30	65,00	16 A0 19 09	6.179,35
SP 77 - 15	MMS 8000	55	114	16 A0 03 15	9.963,82
SP 77 - 16	MMS 8000	63	132	16 A0 03 16	10.438,47
SP 77 - 17	MMS 8000	63	132	16 A0 03 17	10.684,40
SP 77 - 18	MMS 8000	63	132	16 A0 03 18	10.929,77
SP 77 - 19	MMS 8000	75	152	16 A0 03 19	11.726,28
SP 77 - 20	MMS 8000	75	152	16 A0 03 20	12.134,87

SP 77 (Product Group: WS)

Star / Delta

Rp 5					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V D (Star / Delta) Product-No.	EUR
SP 77 - 2B	MS 6000	5,5	12,20	16 A1 69 C2	3.326,85
SP 77 - 2	MS 6000	7,5	16,60	16 A1 69 02	3.441,79
SP 77 - 3B	MS 6000	9,2	20,20	16 A1 69 C3	3.823,16
SP 77 - 3	MS 6000	11	24,60	16 A1 69 03	3.965,95
SP 77 - 4B	MS 6000	13	29,00	16 A1 69 C4	4.230,92
SP 77 - 4	MS 6000	15	33,50	16 A1 69 04	4.419,34
SP 77 - 5	MS 6000	18,5	41,50	16 A1 69 05	4.821,90
SP 77 - 6	MS 6000	22	48,50	16 A1 69 06	5.220,06
SP 77 - 7	MS 6000	26	57,50	16 A1 69 07	5.768,97
SP 77 - 8B	MS 6000	26	57,50	16 A1 69 C8	5.951,26
SP 77 - 8	MS 6000	30	65,00	16 A1 69 08	6.241,85
SP 77 - 9	MS 6000	30	65,00	16 A1 69 09	6.512,50
SP 77 - 10	MMS 6000	37	80,00	16 A1 53 10	7.216,49
SP 77 - 12	MMS 8000	45	96,50	16 A1 53 12	9.090,31
SP 77 - 13	MMS 8000	55	114	16 A1 53 13	9.837,74
SP 77 - 14	MMS 8000	55	114	16 A1 53 14	10.097,57
SP 77 - 15	MMS 8000	55	114	16 A1 53 15	10.356,84
SP 77 - 16	MMS 8000	63	132	16 A1 53 16	10.843,82
SP 77 - 17	MMS 8000	63	132	16 A1 53 17	11.102,05
SP 77 - 18	MMS 8000	63	132	16 A1 53 18	11.359,64
SP 77 - 19	MMS 8000	75	152	16 A1 53 19	12.168,44
SP 77 - 20	MMS 8000	75	152	16 A1 53 20	12.597,44

SP 95 (Product Group: WS)

Direct

G 2					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y Product-No.	EUR
SP 95 - 1	MS 6000	5,50	12,2	19 00 19 01	3.073,04
SP 95 - 2BB	MS 6000	5,50	12,2	19 00 19 D2	3.177,69
SP 95 - 2A	MS 6000	7,50	16,6	19 00 19 A2	3.252,56
SP 95 - 2	MS 6000	9,20	20,2	19 00 19 02	3.583,64
SP 95 - 3BB	MS 6000	9,20	20,2	19 00 19 D3	3.688,15
SP 95 - 3B	MS 6000	11	24,6	19 00 19 C3	3.836,46
SP 95 - 3	MS 6000	13	29	19 00 19 03	4.009,29
SP 95 - 4B	MS 6000	15	33,5	19 00 19 C4	4.219,43
SP 95 - 4	MS 6000	18,5	41,5	19 00 19 04	4.521,08
SP 95 - 5	MS 6000	22	48,5	19 00 19 05	4.936,26
SP 95 - 6	MS 6000	26	57,5	19 00 19 06	5.495,12
SP 95 - 7	MS 6000	30	65	19 00 19 07	5.894,64
SP 95 - 8	MMS 6000	37	80,00	19 00 03 08	6.716,28
SP 95 - 10	MMS 8000	45	96,50	19 00 03 10	8.576,65
SP 95 - 11	MMS 8000	55	114	19 00 03 11	9.343,39
SP 95 - 12	MMS 8000	55	114	19 00 03 12	9.620,44
SP 95 - 13	MMS 8000	55	114	19 00 03 13	9.896,97
SP 95 - 14	MMS 8000	63	132	19 00 03 14	10.401,36
SP 95 - 15	MMS 8000	75	152	19 00 03 15	11.228,60
SP 95 - 16	MMS 8000	75	152	19 00 03 16	11.503,61
SP 95 - 17	MMS 8000	75	152	19 00 03 17	11.778,08
SP 95 - 18	MMS 8000	92	186	19 00 03 18	13.000,12
SP 95 - 19	MMS 8000	92	186	19 00 03 19	13.273,57
SP 95 - 20	MMS 8000	92	186	19 00 03 20	13.546,51

SP 95 (Product Group: WS)

Star / Delta

Rp 5					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 VD Product-No.	EUR
SP 95 - 2A	MS 6000	7,5	16,6	19 01 69 A2	3.506,97
SP 95 - 2	MS 6000	9,2	20,2	19 01 69 02	3.805,67
SP 95 - 3	MS 6000	13	29	19 01 69 03	4.252,66
SP 95 - 4B	MS 6000	15	33,5	19 01 69 C4	4.473,57
SP 95 - 4	MS 6000	18,5	41,5	19 01 69 04	4.790,00
SP 95 - 5	MS 6000	22	48,5	19 01 69 05	5.225,98
SP 95 - 6	MS 6000	26	57,5	19 01 69 06	5.812,70
SP 95 - 7	MS 6000	30	65	19 01 69 07	6.213,62
SP 95 - 10	MMS 8000	45	96,5	19 01 53 10	8.926,87
SP 95 - 11	MMS 8000	55	114	19 01 53 11	9.705,39
SP 95 - 12	MMS 8000	55	114	19 01 53 12	9.996,28
SP 95 - 13	MMS 8000	55	114	19 01 53 13	10.286,71
SP 95 - 14	MMS 8000	63	132	19 01 53 14	10.804,84
SP 95 - 15	MMS 8000	75	152	19 01 53 15	11.645,88
SP 95 - 16	MMS 8000	75	152	19 01 53 16	11.934,60
SP 95 - 17	MMS 8000	75	152	19 01 53 17	12.222,86
SP 95 - 18	MMS 8000	92	186	19 01 53 18	13.460,66
SP 95 - 19	MMS 8000	92	186	19 01 53 19	13.747,80
SP 95 - 20	MMS 8000	92	186	19 01 53 20	14.034,46

SP 125 (Product Group: WS)

Direct

Rp 6					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y Product-No.	EUR
SP 125-1-A	MS 6000	7,5	16,6	17 A0 19 A1	3.515,21
SP 125-1	MS 6000	11	24,6	17 A0 19 01	3.919,43
SP 125-2-AA	MS 6000	13	29	17 A0 19 B2	4.167,10
SP 125-2-A	MS 6000	18,5	41,5	17 A0 19 A2	4.681,08
SP 125-2	MS 6000	22	48,5	17 A0 19 02	4.837,83
SP 125-3-AA	MS 6000	22	48,5	17 A0 19 B3	5.005,47
SP 125-3-A	MS 6000	26	57,5	17 A0 19 A3	5.441,41
SP 125-3	MS 6000	30	65	17 A0 19 03	5.751,27
SP 125-4	MMS 6000	37	80	17 A2 03 04	6.733,54
SP 125-10-AA	MMS 8000	92	186	17 A0 03 B0	12.677,92

SP 125 (Product Group: WS)

Star / Delta

Rp 6					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V D Product-No.	EUR
SP 125-1-A	MS 6000	7,5	16,6	17 A1 69 A1	3.733,90
SP 125-2-A	MS 6000	18,5	41,5	17 A1 69 A2	4.958,02
SP 125-2	MS 6000	22	48,5	17 A1 69 02	5.122,59
SP 125-3-AA	MS 6000	22	48,5	17 A1 69 B3	5.298,70
SP 125-3-A	MS 6000	26	57,5	17 A1 69 A3	5.756,30
SP 125-3	MS 6000	30	65	17 A1 69 03	6.063,06
SP 125-4-AA	MMS 6000	37	80	17 A3 53 B4	6.681,38
SP 125-4-A	MMS 6000	37	80	17 A3 53 A4	6.850,64
SP 125-5-A	MMS 8000	45	96,5	17 A1 53 A5	8.695,43
SP 125-6-AA	MMS 8000	55	114	17 A1 53 B6	9.504,37
SP 125-7-AA	MMS 8000	63	132	17 A1 53 B7	10.214,78
SP 125-9-AA	MMS 8000	92	186	17 A1 53 B9	12.660,57

SP 160 (Product Group: WS)

Direct

Rp 6					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y Product-No.	EUR
SP 160-1-A	MS 6000	9,2	20,2	20 02 19 A1	3.693,09
SP 160-1	MS 6000	13,0	29	20 02 19 01	3.994,86
SP 160-2-AA	MS 6000	18,5	41,5	20 02 19 B2	4.513,24
SP 160-2-A	MS 6000	22,0	48,5	20 02 19 A2	4.825,98
SP 160-2	MS 6000	26,0	57,5	20 02 19 02	5.163,92
SP 160-3-AA	MS 6000	30,0	65	20 02 19 B3	5.430,77
SP 160-3-A	MMS 6000	37,0	80	20 02 03 A3	6.223,66
SP 160-3	MMS 6000	37,0	80	20 02 03 03	6.396,46
SP 160-4-AA	MMS 8000	45,0	96,50	20 02 03 B4	7.872,95
SP 160-4-A	MMS 8000	45,0	96,50	20 02 03 A4	8.050,85
SP 160-4	MMS 8000	55,0	114	20 02 03 04	8.634,39
SP 160-5-A	MMS 8000	55,0	114	20 02 03 A5	8.977,53
SP 160-5	MMS 8000	63,0	132	20 02 03 05	9.374,76
SP 160-6	MMS 8000	75,0	152	20 02 03 06	10.437,98
SP 160-7	MMS 8000	92,0	186	20 02 03 07	11.897,04
SP 160-8	MMS 8000	92,0	186	20 02 03 08	12.407,52
SP 160-9	MMS 8000	110	224	20 02 03 09	14.021,16

SP 160 (Product Group: WS)

Star / Delta

Rp 6					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 VD Product-No.	EUR
SP 160-1-A	MS 6000	9,20	20,2	20 03 69 A1	3.920,63
SP 160-2-AA	MS 6000	18,50	41,5	20 03 69 B2	4.781,81
SP 160-2-A	MS 6000	22,00	48,5	20 03 69 A2	5.110,19
SP 160-2	MS 6000	26,00	57,5	20 03 69 02	5.464,95
SP 160-3-AA	MS 6000	30,00	65	20 03 69 B3	5.726,00
SP 160-3-A	MMS 6000	37,00	80	20 03 53 A3	6.473,66
SP 160-5-AA	MMS 8000	55,00	114	20 03 53 B5	9.138,43
SP 160-5-A	MMS 8000	55,00	114	20 03 53 A5	9.321,26
SP 160-6-A	MMS 8000	75,00	152	20 03 53 A6	10.638,56
SP 160-7-AA	MMS 8000	75,00	152	20 03 53 B7	10.992,86



SP 215 (Product Group: WS)

Direct

Rp 6					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y Product-No.	EUR
SP 215-1-A	MS 6000	15,00	33,50	18 A0 19 A1	4.165,92
SP 215-1	MS 6000	18,50	41,50	18 A0 19 01	4.537,36
SP 215-2-A	MMS 6000	37,00	80,00	18 A2 03 A2	6.174,48
SP 215-2	MMS 8000	45,00	96,50	18 A0 03 02	7.714,41
SP 215-3-AA	MMS 8000	55,00	114	18 A0 03 B3	8.439,26
SP 215-3	MMS 8000	63,00	132	18 A0 03 03	9.378,27
SP 215-4-AA	MMS 8000	75,00	152	18 A0 03 B4	9.930,30
SP 215-4	MMS 8000	75,00	152	18 A0 03 04	10.129,80
SP 215-5	MMS 8000	92,00	186	18 A0 03 05	11.739,45
SP 215-6-AA	MMS 8000	110	224	18 A0 03 B6	13.060,44
SP 215-6	MMS 8000	110	224	18 A0 03 06	13.500,07

SP 215 (Product Group: WS)

Star / Delta

Rp 6					
Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 VD Product-No.	EUR
SP 215-1-A	MS 6000	15,00	34,00	18 A1 69 A1	4.417,09
SP 215-2-AA	MS 6000	30,00	66,50	18 A3 69 B2	5.665,53
SP 215-2-A	MMS 6000	37,00	80,00	18 A3 53 A2	6.422,44
SP 215-3-AA	MMS 8000	55,00	114	18 A1 53 B3	9.520,27
SP 215-3-A	MMS 8000	55,00	114	18 A1 53 A3	9.010,47
SP 215-3	MMS 8000	63,00	132	18 A1 53 03	9.485,15
SP 215-4	MMS 8000	75,00	152	18 A1 53 04	10.492,05
SP 215-5-AA	MMS 8000	92,00	186	18 A1 53 B5	11.672,05
SP 215-5-A	MMS 8000	92,00	186	18 A1 53 A5	11.908,28
SP 215-5	MMS 8000	92,00	186	18 A1 53 05	12.136,98
SP 215-6-AA	MMS 8000	110	224	18 A1 53 B6	13.701,23

SQE-NE environmental pumps (Product Group: DC)

SQE 2-NE and SQE 5-NE stainless-steel 1.4401 without motor cable, cable kits see below. Voltage: 1 x 200 - 240 V, 50 - 60 Hz

Type	Motor Type	Rated Power [kW]	Without check valve Product-No.	EUR
SQE 2 - 65 NE	MSE 3-NE	1,15	97 77 84 05	972,76
SQE 2 - 75 NE	MSE 3-NE	1,15	97 77 84 06	1.089,50

Cable kits for environmental pumps (Product Group: DC)

for SQE-NE pumps version C made of:

PTFE cable (3 round single wires 3,3 mm²) connected with motor plug.

Cable Sets	Product-No.	EUR
23 m	97 77 82 83	570,89
38 m	97 77 82 85	906,29

Cable kits for drinking water (Product Group: DC)

for submersible pumps SQE-NE and SQ/SQE, Mod. C

Kit contains flat cable for drinking water (3x1,5 mm²) connected to motor plug.

Cable Sets	Product-No.	EUR
1,5 m	97 77 83 18	40,07
5 m	97 77 83 19	63,37
10 m	97 77 83 20	90,37
15 m	97 77 83 21	112,74
20 m	97 77 83 22	136,96
30 m	97 77 83 23	183,55
40 m	97 77 83 24	229,20
50 m	97 77 83 25	276,70
60 m	97 77 83 26	331,67
70 m	97 77 83 27	378,27
80 m	97 77 83 28	425,78
90 m	97 77 83 29	472,36
100 m	97 77 83 30	518,95

SP-NE 3A environmental pumps (Product Group: WS)

Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y (Direct) Product-No.	EUR
SP 3A - 6 NE	MS 4000 RE	0,75	1,84	10 22 19 06	1.455,32
SP 3A - 9 NE	MS 4000 RE	0,75	1,84	10 22 19 09	1.518,16
SP 3A - 12 NE	MS 4000 RE	0,75	1,84	10 22 19 12	1.544,07
SP 3A - 15 NE	MS 4000 RE	1,1	2,75	10 22 19 15	1.608,71
SP 3A - 18 NE	MS 4000 RE	1,1	2,75	10 22 19 18	1.654,03
SP 3A - 22 NE	MS 4000 RE	1,5	4,00	10 22 19 22	1.716,82
SP 3A - 25 NE	MS 4000 RE	1,5	4,00	10 22 19 25	1.762,14
SP 3A - 29 NE	MS 4000 RE	2,2	6,05	10 22 19 29	1.867,67

SP-NE 5A environmental pumps (Product Group: WS)

Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y (Direct) Product-No.	EUR
SP 5A - 4 NE	MS 4000 RE	0,75	1,84	52 21 90 4	1.430,11
SP 5A - 6 NE	MS 4000 RE	0,75	1,84	52 21 90 6	1.475,48
SP 5A - 8 NE	MS 4000 RE	0,75	1,84	52 21 90 8	1.505,67
SP 5A - 12 NE	MS 4000 RE	1,1	2,75	52 21 91 2	1.583,54
SP 5A - 17 NE	MS 4000 RE	1,5	4,00	52 21 91 7	1.661,44
SP 5A - 21 NE	MS 4000 RE	2,2	6,05	52 21 92 1	1.750,58
SP 5A - 25 NE	MS 4000 RE	2,2	6,05	52 21 92 5	1.811,02
SP 5A - 33 NE	MS 4000 RE	3,0	7,85	52 21 93 3	1.973,64

SP-NE 8A environmental pumps (Product Group: WS)

Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y (Direct) Product-No.	EUR
SP 8A - 5 NE	MS 4000 RE	0,75	1,84	11 22 19 05	1.558,60
SP 8A - 7 NE	MS 4000 RE	1,1	2,75	11 22 19 07	1.701,88
SP 8A - 10 NE	MS 4000 RE	1,5	4,00	11 22 19 10	1.893,05
SP 8A - 12 NE	MS 4000 RE	2,2	6,05	11 22 19 12	2.047,69
SP 8A - 15 NE	MS 4000 RE	2,2	6,05	11 22 19 15	2.236,57
SP 8A - 18 NE	MS 4000 RE	3,0	7,85	11 22 19 18	2.467,18
SP 8A - 21 NE	MS 4000 RE	4,0	9,60	11 22 19 21	2.798,08
SP 8A - 25 NE	MS 4000 RE	4,0	9,60	11 22 19 25	3.049,88

SP-NE 17 environmental pumps (Product Group: WS)

Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	3 x 400 V Y (Direct) Product-No.	EUR
SP 17 - 1 NE	MS 4000 RE	0,75	1,84	12 C9 19 01	1.874,70
SP 17 - 2 NE	MS 4000 RE	1,1	2,75	12 C9 19 02	2.050,81
SP 17 - 3 NE	MS 4000 RE	2,2	6,05	12 C9 19 03	2.241,16
SP 17 - 4 NE	MS 4000 RE	2,2	6,05	12 C9 19 04	2.396,61
SP 17 - 5 NE	MS 4000 RE	3,0	7,85	12 C9 19 05	2.686,51
SP 17 - 6 NE	MS 4000 RE	4,0	9,60	12 C9 19 06	3.052,92
SP 17 - 7 NE	MS 4000 RE	4,0	9,60	12 C9 19 07	3.204,56
SP 17 - 8 NE	MS 4000 RE	5,5	13,00	12 C9 19 08	3.528,19
SP 17 - 9 NE	MS 4000 RE	5,5	13,00	12 C9 19 09	3.683,67
SP 17 - 10 NE	MS 4000 RE	5,5	13,00	12 C9 19 10	3.836,61

„Motor cable“ are not included in the product number above.

Pump part without non-return valve.

Single phase version (only as 2,2 kW motor) for additional price available.

All MS 4000 RE motors include temperature converter (Tempcon) to monitor the winding temperature with MP 204.

Motor protection and dry running protection in connection with MP 204 (page 162).

motors with extra voltage on request.

MP 1 environmental pumps for sampling (Product Group: WS)

Type	Model for	Length of Cable [m]	Product-No.	EUR
MP1 2" Sampling pump system	Submersible pump for purging and sampling in connection with subsoil water monitoring for installation in a 2" well. Alle MP 1 „dry“ versions. Before start-up motor to be filled up with demineralised water (appr. 25 ml).	1m*	95 06 54 14	1.181,06
MP1 2" Sampling pump system	Submersible pump for purging and sampling in connection with subsoil water monitoring for installation in a 2" well. Alle MP 1 „dry“ versions. Before start-up motor to be filled up with demineralised water (appr. 25 ml).	10	95 06 53 94	1.201,04
MP1 2" Sampling pump system	Submersible pump for purging and sampling in connection with subsoil water monitoring for installation in a 2" well. Alle MP 1 „dry“ versions. Before start-up motor to be filled up with demineralised water (appr. 25 ml).	20	95 06 53 95	1.297,35
MP1 2" Sampling pump system	Submersible pump for purging and sampling in connection with subsoil water monitoring for installation in a 2" well. Alle MP 1 „dry“ versions. Before start-up motor to be filled up with demineralised water (appr. 25 ml).	30	95 06 53 96	1.391,48
MP1 2" Sampling pump system	Submersible pump for purging and sampling in connection with subsoil water monitoring for installation in a 2" well. Alle MP 1 „dry“ versions. Before start-up motor to be filled up with demineralised water (appr. 25 ml).	40	95 06 53 97	1.487,73
MP1 2" Sampling pump system	Submersible pump for purging and sampling in connection with subsoil water monitoring for installation in a 2" well. Alle MP 1 „dry“ versions. Before start-up motor to be filled up with demineralised water (appr. 25 ml).	50	95 06 53 98	1.581,91
MP1 2" Sampling pump system	Submersible pump for purging and sampling in connection with subsoil water monitoring for installation in a 2" well. Alle MP 1 „dry“ versions. Before start-up motor to be filled up with demineralised water (appr. 25 ml).	60	95 06 53 99	1.678,13
MP1 2" Sampling pump system	Submersible pump for purging and sampling in connection with subsoil water monitoring for installation in a 2" well. Alle MP 1 „dry“ versions. Before start-up motor to be filled up with demineralised water (appr. 25 ml).	70	95 06 54 00	1.772,32
MP1 2" Sampling pump system	Submersible pump for purging and sampling in connection with subsoil water monitoring for installation in a 2" well. Alle MP 1 „dry“ versions. Before start-up motor to be filled up with demineralised water (appr. 25 ml).	80	95 06 54 01	1.868,56
MP1 2" Sampling pump system	Submersible pump for purging and sampling in connection with subsoil water monitoring for installation in a 2" well. Alle MP 1 „dry“ versions. Before start-up motor to be filled up with demineralised water (appr. 25 ml).	90	95 06 54 02	1.964,84

Frequency converter for MP1 (Product Group: WS)

Type	Model for	Length of Cable [m]	Product-No.	EUR
Frequency for MP 1	1 x 220-240 V - 15% / + 10%, 50/60 Hz, PE drive alone	-	96 76 59 42	1.068,94
Frequency for MP 1	Frequency converter with 2 m supply cable and Schuko plug	-	96 83 52 07	1.153,78
Frequency for MP 1	Frequency converter with coffer incl. cabinet (IP65) with 2 m supply cable and Schuko plug	-	96 82 47 21	1.382,82

Cable accessories (Product Group: WS)

Type	Model for	Diameter of Connector [mm]	Product-No.	EUR
Kit, Cable Term.	for MS402 and MS4000 to 7,5 kW for cable to 4 x 2,5 mm ²	24	79 99 01	38,00
Cable Term. cpl	cast	24	79 99 51	121,32
Cable coupling¹⁾	for MS402 and MS4000 to 7,5 kW for cable to 4 x 6,0 mm ²	30	79 99 02	82,63
Cable connector M 1	[for 4 - and 6 „motors and cables up to 4 x 10 mm ²] minimum size for MS 6000 motors	46	00 ID 89 04	47,12
Cable connector M 3	[6 „- to 10“- motors and cables up to 4 x 35 mm ²]	52	00 ID 89 06	102,49
Cable connector M 4	for 8“- to 12“-motors and cable to 4 X 70 mm ²	77	91 07 07 00	183,27
Cable connector M 6	[for 8 „- 12“- motors and cables Ø 50 mm OD to 80]	144	96 49 69 19	450,33

¹⁾ = detachable connection

Accessories for cable connection M 0 to M 6 (Product Group: WS)

Type	Cable Width [mm]	Number of Connections	Product-No.	EUR
Al-screw connector for low voltage cables are connected by bolted together	16 – 95	4	96 62 60 22	14,84
Al-screw connector for low voltage cables are connected by bolted together	70 – 240	4	96 62 60 28	36,83

²⁾ Diameter of round cable, more wires

Cable accessories (Product Group: WS)

Type	Dimension [mm]	Product-No.	EUR
Shrink sleeve KM with compression fittings (Press technology)	4 x [1,5 – 4,0], 3 x [1,5 – 6,0]	11 62 51	16,42
Shrink sleeve KM with compression fittings (Press technology)	4 x [6,0 – 10,0], 3 x [10,0 – 16,0]	11 62 52	23,92
Shrink sleeve KM with compression fittings (Press technology)	4 x [16,0 – 25,0], 3 x [16,0]	11 62 55	24,30
Shrink sleeve KM with compression fittings (Press technology)	3 x [1,5 – 6,0]	11 62 53	27,93
Shrink sleeve KM with compression fittings (Press technology)Shrink sleeve KM with compression fittings (Press technology)	3 x [10,0 – 25,0]	11 62 54	42,26
Shrink sleeve KM with compression fittings (Press technology)Shrink sleeve KM with compression fittings (Press technology)	4 x [1,5 – 4,0]	11 62 57	27,22
Shrink sleeve KM with compression fittings (Press technology)Shrink sleeve KM with compression fittings (Press technology)	4 x [6,0 – 16,0]	11 62 58	39,36
Shrink sleeve KM with compression fittings (Press technology)Shrink sleeve KM with compression fittings (Press technology)	1 x [35,0 – 120,0]	11 62 56	35,99

Cable termination kit KM (Product Group: WS)

suitable for	Cable Width [mm]	Number of Conductors	Product-No.	EUR
Compression fittings	6 – 50	4	96 63 68 67	63,33
Compression fittings	16 – 95	4	96 63 68 68	101,24
Compression fittings	35 – 185	4	96 63 72 78	163,37

Accessories for cable termination kit KM (Product Group: WS)

Description	Type	Cable Width [mm]	Number of Conductors	Product-No.	EUR
For reduction of single-conductor cable (such as by MMS motors) of 3 or 4 strands in a round cable	Reducing compression fitting	10 – 50	3	96 63 73 18	45,62
For reduction of single-conductor cable (such as by MMS motors) of 3 or 4 strands in a round cable	Reducing compression fitting	16 – 95	4	96 63 73 30	52,36
For reduction of single-conductor cable (such as by MMS motors) of 3 or 4 strands in a round cable	Reducing compression fitting	16 – 70	3	96 63 73 31	56,48
For reduction of single-conductor cable (such as by MMS motors) of 3 or 4 strands in a round cable	Reducing compression fitting	16 – 70	4	96 63 73 32	63,19

Pt 100 temperature sensor (Product Group: WS)

for MS6 (R), MS 6000 (R), MMS 6 and MMS 8" motors"

Type	Description	packed, single unit	Product-No.	EUR
PT 100	Cable length 20 m		96 91 32 37	122,87
PT 100	Cable length 40 m		96 91 32 53	212,20
PT 100	Cable length 100 m		96 91 32 63	480,21

*) Pump mounting on request, when ordered with an SP pump

Connection flange (Product Group: WS)

with 4 cable slots; material: stainless-steel DIN-Nr. 1.4308 (for SP-pumps)

Connection	Adaptor	PN	not mounted Product-No.	EUR
R 2 ½	DN 50	16/40	12 01 25	85,29
R 2 ½	DN 65	16/40	12 01 26	115,09
R 2 ½	DN 80	16/40	12 01 27	169,04
R 3	DN 65	16/40	13 01 87	151,05
R 3	DN 80	16/40	13 01 88	142,06
R 3	DN 100	16/40	13 01 89	187,01
R 4	DN 100	16/40	14 00 71	187,01
R 5	DN 100	16/40	16 01 48	266,13
R 5	DN 125	16/40	16 01 49	240,95
R 5	DN 150	16/40	16 01 50	329,06
R 6	DN 125	16/40	17 01 59	320,09
R 6	DN 150	16/40	17 01 60	311,09
R 6	DN 150	16/40	17 01 64	356,04
R 6	DN 200	16	17 01 61	444,14
R 6	DN 200	40	17 01 62	640,14

¹⁾ Pump mounting on request, when ordered with an SP pump **Adapter flange** material: stainless steel, DIN. **1.4517 (for SPN- and SPR-pumps)** on request

Motor protector MP 204/MP 205 (Product Group: CW)

Monitors motor temperature (Tempcon, Pt-sensor and PTC/termalswitch), over-/underload, over-/undervoltage, insulation resistance, missing phase, current unbalance, operating hours, motorstarts etc.

Type	IP- Protection Class	Ampere Range	Voltage [V]	Product-No.	EUR
MP204	IP 20	3 – 120 A*	100 – 480 VAC	96 07 99 27	466,48

* for higher current 3 single turn transformers required

Current transformer for MP 204/MP 205 (Product Group: CW)

Type	Ampere Range	Product-No.	EUR
Current transformers MP204 3 pieces	200 A	96 09 52 81	279,93
Current transformers MP204 3 pieces	300 A	96 09 52 82	294,27
Current transformers MP204 3 pieces	500 A	96 09 52 83	351,72
Current transformers MP204 3 pieces	750 A	96 09 52 84	366,10
Current transformers MP204 3 pieces	1000 A	96 09 52 85	387,59

Chapter 10

Pumps and boosters for domestic water supply



Constant pressure kit with pump (Product Group: DC)

Type	Content	Description	Product-No.	EUR
SQE 3 - 65	Submersible pump SQE 3 - 65	with 40 m submersible cable 3 x 1.5 mm ² flat, 20 cable ties to fix the submersible cable to the pump riser. Diaphragm pressure vessel 8 l / 10 bar with pressure sensor 0-6 with 2 m cable, ball valve ¾ with drain and pressure gauge 0 - 10 bar, CU 301	96 52 45 01	1.477,33
SQE 5 - 70	Submersible pump SQE 5 - 70	with 40 m submersible cable 3 x 1.5 mm ² flat, 20 cable ties to fix the submersible cable to the pump riser. Diaphragm pressure vessel 8 l / 10 bar with pressure sensor 0-6 with 2 m cable, ball valve ¾ with drain and pressure gauge 0 - 10 bar, CU 301	96 52 45 03	1.608,55

Constant pressure kit without pump (Product Group: DC)

Type	Content	Product-No.	EUR
for all SQE	Diaphragm pressure vessel 8 l/10 bar, 0-6 bar pressure sensor with 2 m cable, ball valve ¾ with drain and pressure gauge 0 - 10 bar, 20 cable ties, CU 301	96 52 45 04	489,30

Water supply kit with pump (Product Group: DC)

Type	Content	Product-No.	EUR
SQ 3 - 40	Submersible Pump SQ 3 - 40 with 30 m submersible cable 3 x 1.5 mm ² flat and fitted connectors, 10 cable connectors for attaching the submersible cable to the pump riser. Pressure manager PM1 / 1.5 fully wired with extension cable 1,5 m, Schuko and clutch. Diaphragm tank 18 l / 10 bar, ball valve ¾ ¼ with drainage and pressure gauge, pressure gauge 10, Tee 1 - ¾ - 1, nipple and wall mount for diaphragm tank.	96 16 09 08	963,63

Garden irrigation kit with pump (Product Group: DC)

Type	Content	Description	Product-No.	EUR
SQ 3 - 40	Submersible pump SQ 3 - 40	with 30 m submersible cable 3 x 1.5 mm ² flat and fitted connectors, 10 cable ties to fix the submersible cable to the pump riser. Pressure switch PM1 / 1.5 (at SQ 5-50 with PM 2) fully wired with 1.5 m extension cable, grounding plug and coupling	96 16 09 07	892,43

SQ with fix cable lengths (Product Group: DC)

f ree cable end

Type	Model for	Product-No.	EUR
SQ 1 - 65	with 30 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 21	769,99
SQ 1 - 80	with 30 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 28	928,66
SQ 2 - 35	with 15 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 23	666,25
SQ 2 - 55	with 15 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 31	702,43
SQ 2 - 55	with 10 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 30	683,66
SQ 2 - 55	with 30 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 32	757,42
SQ 2 - 55	with 60 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 33	869,86
SQ 2 - 70	with 30 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 34	823,91
SQ 2 - 70	with 80 m submersible cable 3 x 2,5 mm ² flat, complete	96 52 44 35	934,91
SQ 2 - 85	with 40 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 43	942,40
SQ 2 - 85	with 80 m submersible cable 3 x 2,5 mm ² flat, complete	96 52 44 44	1.241,11
SQ 3 - 40	with 15 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 26	676,18
SQ 3 - 40	with 30 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 27	731,13
SQ 3 - 55	with 30 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 38	823,67
SQ 3 - 65	with 40 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 40	942,40
SQ 3 - 65	with 30 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 39	904,89
SQ 3 - 80	with 30 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 45	1.088,63
SQ 3 - 80	with 50 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 46	1.140,29
SQ 3 - 95	with 70 m submersible cable 3 x 2,5 mm ² flat, complete	96 52 44 47	1.217,23
SQ 5 - 35	with 15 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 41	767,39
SQ 5 - 50	with 30 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 50	904,89
SQ 5 - 50	with 15 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 49	849,90
SQ 5 - 60	with 30 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 51	1.122,40
SQ 5 - 70	with 30 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 52	1.154,87
SQ 7 - 40	with 15 m submersible cable 3 x 1,5 mm ² flat, complete	96 52 44 53	1.134,88

SQ 1 (Product Group: DC)

Pump connection Rp 1¼

Pump Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	1 x 200 – 240 V Product-No.	EUR
SQ 1-35	MS 3	0,70	2,9	96 51 01 78	561,17
SQ 1-50	MS 3	0,70	4	96 51 01 79	606,16

Pump Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	1 x 200 – 240 V Product-No.	EUR
SQ 1-65	MS 3	0,70	5,2	96 51 01 90	652,45
SQ 1-80	MS 3	1,15	6	96 51 01 91	787,41
SQ 1-95	MS 3	1,15	7	96 51 01 92	819,91
SQ 1-110	MS 3	1,15	8,1	96 51 01 93	852,44
SQ 1-125	MS 3	1,68	9,3	96 51 01 94	1.016,13
SQ 1-140	MS 3	1,68	10,3	96 51 01 95	1.049,87
SQ 1-155	MS 3	1,85	11	96 51 01 96	1.082,38

SQE 1 (Product Group: DC)

Pump connection Rp 1¼

Pump Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	1 x 200 – 240 V Product-No.	EUR
SQE 1-35	MSE 3	0,70	2,9	96 51 00 71	616,19
SQE 1-50	MSE 3	0,70	4	96 51 01 41	668,67
SQE 1-65	MSE 3	0,70	5,2	96 51 01 42	718,66
SQE 1-80	MSE 3	1,15	6	96 51 01 43	866,15
SQE 1-95	MSE 3	1,15	7	96 51 01 44	902,43
SQE 1-110	MSE 3	1,15	8,1	96 51 01 45	937,38
SQE 1-125	MSE 3	1,68	9,3	96 51 01 46	1.118,61
SQE 1-140	MSE 3	1,68	10,3	96 51 01 47	1.154,87
SQE 1-155	MSE 3	1,85	11	96 51 01 48	1.191,14

SQ 2 (Product Group: DC)

Pump connection Rp 1¼

Pump Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	1 x 200 – 240 V Product-No.	EUR
SQ 2- 35	MS 3	0,70	3,6	96 51 01 98	579,97
SQ 2- 55	MS 3	0,70	5,2	96 51 01 99	616,19
SQ 2- 70	MS 3	1,15	6,4	96 51 02 00	682,40
SQ 2- 85	MS 3	1,15	7,9	96 51 02 01	763,71
SQ 2-100	MS 3	1,68	9,5	96 51 02 02	947,39
SQ 2-115	MS 3	1,85	10,6	96 51 02 03	981,13

SQE 2 (Product Group: DC)

Pump connection Rp 1¼

Pump Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	1 x 200 – 240 V Product-No.	EUR
SQE 2- 35	MSE 3	0,70	3,6	96 51 01 50	639,92
SQE 2- 55	MSE 3	0,70	5,2	96 51 01 51	678,69
SQE 2- 70	MSE 3	1,15	6,4	96 51 01 52	751,16
SQE 2- 85	MSE 3	1,15	7,9	96 51 01 53	839,91
SQE 2-100	MSE 3	1,68	9,5	96 51 01 54	1.042,41
SQE 2-115	MSE 3	1,85	10,6	96 51 01 55	1.078,65

SQ 3 (Product Group: DC)

Pump connection Rp 1¼

Pump Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	1 x 200 – 240 V Product-No.	EUR
SQ 3 - 30	MS 3	0,70	3,6	96 51 02 04	557,43
SQ 3 - 40	MS 3	0,70	5,1	96 51 02 05	589,96
SQ 3 - 55	MS 3	1,15	6,3	96 51 02 06	682,40
SQ 3 - 65	MS 3	1,15	7,8	96 51 02 07	763,71
SQ 3 - 80	MS 3	1,68	9,3	96 51 02 08	947,39
SQ 3 - 105	MS 3	1,85	11,7	96 51 02 10	1.013,64
SQ 3 - 95	MS 3	1,68	10,7	96 51 02 09	981,13

SQE 3 (Product Group: DC)

Pump connection Rp 1¼

Pump Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	1 x 200 – 240 V Product-No.	EUR
SQE 3 - 30	MSE 3	0,70	3,6	96 51 01 56	613,64
SQE 3 - 40	MSE 3	0,70	5,1	96 51 01 57	649,91
SQE 3 - 55	MSE 3	1,15	6,3	96 51 01 58	751,16
SQE 3 - 80	MSE 3	1,68	9,3	96 51 01 60	1.042,41
SQE 3 - 95	MSE 3	1,68	10,7	96 51 01 61	1.078,65
SQE 3 - 105	MSE 3	1,85	11,7	96 51 01 62	1.114,89
SQE 3 - 65	MSE 3	1,15	7,8	96 51 01 59	839,91

SQ 5 (Product Group: DC)

Pump connection Rp 1½

Pump Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	1 x 200 – 240 V Product-No.	EUR
SQ 5- 15	MS 3	0,70	2,7	96 51 02 11	551,22
SQ 5- 25	MS 3	0,70	4,7	96 51 02 12	573,67
SQ 5- 50	MS 3	1,68	8,7	96 51 02 14	763,71
SQ 5- 60	MS 3	1,68	10,6	96 51 02 15	981,13
SQ 5- 70	MS 3	1,85	12	96 51 02 17	1.013,64
SQ 5- 35	MS 3	1,15	6,5	96 51 02 13	682,40

SQE 5 (Product Group: DC)

Pump connection Rp 1½

Pump Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	1 x 200 – 240 V Product-No.	EUR
SQE 5- 15	MSE 3	0,70	2,7	96 51 01 63	606,16
SQE 5- 25	MSE 3	0,70	4,7	96 51 01 64	632,42
SQE 5- 35	MSE 3	1,15	6,5	96 51 01 65	751,16
SQE 5- 50	MSE 3	1,68	8,7	96 51 01 66	839,91
SQE 5- 60	MSE 3	1,68	10,6	96 51 01 67	1.078,65
SQE 5- 70	MSE 3	1,85	12	96 51 01 68	1.114,89

SQ 7 (Product Group: DC)

Pump connection Rp 1½

Pump Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	1 x 200 – 240 V Product-No.	EUR
SQ 7- 15	MS 3	0,70	3,7	96 51 02 18	754,90
SQ 7- 30	MS 3	1,15	6,4	96 51 02 19	819,91
SQ 7- 40	MS 3	1,68	9,3	96 51 02 20	1.049,87

SQ with motor cable 1,5 m, 3 x 1,5 mm² flat, free cable end

*) Nominal current 1/1 at 1 x 230 V, 50 Hz

SQE 7 (Product Group: DC)

Pump connection Rp 1½

Pump Type	Motor Type	Rated Power [kW]	Motor Power Rating [A]	1 x 200 – 240 V Product-No.	EUR
SQE 7- 15	MSE 3	0,70	3,7	96 51 01 69	829,87
SQE 7- 30	MSE 3	1,15	6,4	96 51 01 70	902,43
SQE 7- 40	MSE 3	1,68	9,3	96 51 01 71	1.154,87

SQE with motor cable 1,5 m, 3 x 1,5 mm² flat, free cable end
for SQE required: CU 300 or CU 301, sensors, R 100

To control an SQE, a CU 300 or CU 301 with pressure transmitter is required (Product Group: DC)

(see also constant pressure package wo. pump)

Type	Description	Product-No.	EUR
CU 300	universal control for SQE	96 42 70 37	292,11
CU 301	control for SQE, only pressure boosting	96 43 67 53	259,80

Accessories (Product Group: DC)

Type	Model for	Product-No.	EUR
Pressure Manager PM 1 / 1,5	cut-in pressure 1,5 bar, Q max. 5 m ³ /h. max. load of contact 6 A	96 84 86 93	72,55
Pressure Manager PM 1 / 2,2	cut-in pressure 2,2 bar, Q max. 5 m ³ /h. max. load of contact 6 A	96 84 87 22	72,55
Pressure Manager PM 2	cut-in pressure 1,5 to 5 bar adjustable, Q max. 7 m ³ /h. max. load of contact 10 A	96 84 87 40	123,87

Cable connection (Product Group: DC)

suitable for	Description	Model for	Product-No.	EUR
for submersible cable	for the water-tight connection of the motor cable with the submersible cable	3 x 1,5 mm ² , 3 x 2,5 mm ²	96 02 14 62	22,34

Flow sleeve (Product Group: DC)

suitable for	Description	Product-No.	EUR
Cooling jacket individually	Stainless steel 1.4301	91 07 19 33	89,17

Pumps and home boosters (Product Group: DC)

Type	Model for	Power Consumption [kw]	Max. Flow Rate	Max. Head	Connection	Voltage [V]	Pieces per Pallet	Product-No.	EUR
Hydrojet JP5 24-l tank	Complete unit ready for plug-in with JP5 and 24 l membrane tank	775	3,5	40	G 1	1 x 220 – 230 V	8	46 51 BP BE	411,94
Hydrojet JP5 60-l tank	Complete unit ready for plug-in with JP5 and 60 l membrane tank	775	3,5	40	G 1	1 x 220 – 230 V	2	46 51 BQ BE	512,60
Hydrojet JP6 24-l tank	Complete unit ready for plug-in with JP6 and 24 l membrane tank	1400	4,5	48	G 1	1 x 220 – 230 V	8	46 61 BP BE	435,32
Hydrojet JP6 60-l tank	Complete home booster, ready for plug-in, with JP6 and 60 l membrane tank	1400	4,5	48	G 1	1 x 220 – 230 V	2	46 61 BQ BE	535,98
MQ 3-25	Complete booster unit with multistage self-priming pump, with integrated control and membrane tank. Integrated dry-running protection with automatic reset function. Complete with non-return valve and Schuko plug.	600	3,4	23	G 1	1 x 220 – 230 V	15	96 51 55 20	421,00
MQ 3-35	Complete booster unit with multistage self-priming pump, with integrated control and membrane tank. Integrated dry-running protection with automatic reset function. Complete with non-return valve and Schuko plug.	850	4,0	36	G 1	1 x 220 – 230 V	15	96 51 54 12	439,54
MQ 3-45	Complete booster unit with multistage self-priming pump, with integrated control and membrane tank. Integrated dry-running protection with automatic reset function. Complete with non-return valve and Schuko plug.	1000	4,0	44	G 1	1 x 220 – 230 V	15	96 51 54 15	459,67

Accessories (Product Group: DC)

Type	Model for	Product-No.	EUR
Pressure Manager PM 1/1,5	cut-in pressure 1,5 bar, Q max. 5 m ³ /h. max. load of contact 6 A	96 84 86 93	72,55
Pressure Manager PM 1/2,2	cut-in pressure 2,2 bar, Q max. 5 m ³ /h. max. load of contact 6 A	96 84 87 22	72,55
Pressure Manager PM 2	cut-in pressure 1,5 to 5 bar adjustable, Q max. 7 m ³ /h. max. load of contact 10 A	96 84 87 40	123,87

Multistage 5" submersible pumps
Rain water unit RMQ (Product Group: DC)

Compact indoor control system for rainwater utilisation incl. an MQ 3-35 or MQ 3-45 pump, float switch (RMQ-B) or level sensor (RMQ-A) with 20 m cable, 1,5 m supply cable + Schuko plug.

Type	Model for	Voltage [V]	Dimension [mm]	Product-No.	EUR
RMQ 3-35 B	Automatic and manual change between rainwater and drinking water mode	1 x 220 – 230 V	483 x 685 x 396	96 49 47 77	1.429,40
RMQ 3-45 B	Automatic and manual change between rainwater and drinking water mode	1 x 220 – 230 V	483 x 685 x 396	96 49 49 21	1.449,88
RMQ 3-45 A	additional LED level indication, acoustic and visual alarm signal, LED filter control	1 x 220 – 230 V	483 x 685 x 396	96 49 47 78	1.818,63

SB submersible booster pump (Product Group: DC)

The SB pump is a submersible booster pump for the pumping of clean water. It is especially suitable for rainwater applications. The pump is available in two main versions: with integrated suction strainer (1 mm mesh) or with side inlet which includes a flexible suction hose with floating suction strainer (1 mm mesh). In both versions, the pump is available with or without float switch. The float switch can be used for automatic operation or dry-running protection of the pump. With 15 m supply cable and Schuko-plug.

Type	Model for	Voltage [V]	Dimension [mm]	Product-No.	EUR
SB 3-35 M	Version M without float switch and integrated suction strainer	1 x 220-230 V	150 x 392 x 150	97 68 67 00	282,98
SB 3-35 A	Version A with float switch and integrated suction strainer	1 x 220-230 V	150 x 392 x 150	97 68 67 01	293,09
SB 3-35 MW	Version MW without float switch, with side inlet, flexible hose with float strainer	1 x 220-230 V	150 x 392 x 150	97 68 67 02	362,15
SB 3-35 AW	Version AW with float switch, with side inlet, flexible hose with float strainer	1 x 220-230 V	150 x 392 x 150	97 68 67 03	373,94
SB 3-45 M	Version M without float switch and integrated suction strainer	1 x 220-230 V	150 x 417 x 150	97 68 67 04	311,61
SB 3-45 A	Version A with float switch and integrated suction strainer	1 x 220-230 V	150 x 417 x 150	97 68 67 05	323,40
SB 3-45 MW	Version MW without float switch, with side inlet, flexible hose with float strainer	1 x 220-230 V	150 x 417 x 150	97 68 67 06	380,67
SB 3-45 AW	Version AW with float switch, with side inlet, flexible hose with float strainer	1 x 220-230 V	150 x 417 x 150	97 68 67 07	394,15

Accessories (Product Group: DC)

Type	Model for	Product-No.	EUR
Pressure Manager PM 1 / 1,5	cut-in pressure 1,5 bar, Q max. 5 m ³ /h. max. load of contact 6 A	96 84 86 93	72,55
Pressure Manager PM 1 / 2,2	cut-in pressure 2,2 bar, Q max. 5 m ³ /h. max. load of contact 6 A	96 84 87 22	72,55
Pressure Manager PM 2	cut-in pressure 1,5 to 5 bar adjustable, Q max. 7 m ³ /h. max. load of contact 10 A	96 84 87 40	123,87

SPO multistage 5" submersible pumps

Pump for water supply, dewatering, pressure boosting in domestic area

SPO with strainer, 1 x 220 – 240 V, 50 Hz (Product Group: DC)

Pump Type	Rated Power [kW]	Motor Power [kW]	Nominal Current	Floating Switch	Length of Cable [m]	Plug with/without	Weight [kg]	Product-No.	EUR
SPO 3-40	0,75	1	4,6	Excl.	20	Schuko	16,8	96 58 71 12	482,02
SPO 3-50	0,75	1	6,1	Excl.	20	Schuko	16,9	96 58 71 13	491,44
SPO 3-65	1	1,36	6,1	Excl.	20	Schuko	18,7	96 58 71 14	528,87
SPO 3-75	1,20	1,6	8,7	Excl.	20	Schuko	20,9	96 58 71 15	566,31
SPO 5-45	0,75	1	5,9	Excl.	20	Schuko	17,2	96 58 71 17	491,44
SPO 5-55	1	1,36	7,4	Excl.	20	Schuko	19	96 58 71 18	528,87
SPO 5-70	1,20	1,6	8,8	Excl.	20	Schuko	21,2	96 58 71 19	566,31
SPO 3-40 A	0,75	1	4,6	Incl.	20	Schuko	17,1	96 58 71 31	500,75
SPO 3-50 A	0,75	1	6,1	Incl.	20	Schuko	17,2	96 58 71 32	510,14
SPO 3-65 A	1	1,36	7,1	Incl.	20	Schuko	19	96 58 71 33	547,55
SPO 3-75 A	1,20	1,6	8,7	Incl.	20	Schuko	21,2	96 58 71 34	587,33
SPO 5-45 A	0,75	1	5,9	Incl.	20	Schuko	17,5	96 58 71 35	510,14
SPO 5-55 A	1	1,36	7,4	Incl.	20	Schuko	19,3	96 58 71 36	547,55
SPO 5-70 A	1,20	1,6	8,8	Incl.	20	Schuko	21,5	96 58 71 37	587,33

SPO with strainer, 3 x 380 – 415 V, 50 Hz (Product Group: DC)

Pump Type	Rated Power [kW]	Motorleistung (P2) [hp]	Nominal Current	Floating Switch	Length of Cable [m]	Kabelstecker	Weight [kg]	Product-No.	EUR
SPO 3-50	0,75	1	2,2	Excl.	20	without	16,9	96 58 71 39	484,38
SPO 3-65	1	1,36	2,7	Excl.	20	without	18,7	96 58 71 50	519,50
SPO 3-75	1,20	1,6	3,5	Excl.	20	without	20,9	96 58 71 51	549,89
SPO 5-45	0,75	1	2,2	Excl.	20	without	17,2	96 58 71 53	484,38
SPO 5-55	1	1,36	2,8	Excl.	20	without	19	96 58 71 54	519,50
SPO 5-70	1,20	1,6	3,4	Excl.	20	without	21,2	96 58 71 55	549,89

SPO with baseplate, 1 x 220 – 240 V, 50 Hz (Product Group: DC)

Pump Type	Rated Power [kW]	Motorleistung (P2) [hp]	Nominal Current	Floating Switch	Length of Cable [m]	Plug with/without	Weight [kg]	Product-No.	EUR
SPO 3-50 B	0,75	1	6,1	Excl.	4	without	16,4	96 58 72 23	538,22
SPO 3-50 B	0,75	1	6,1	Excl.	20	Schuko	18,2	96 58 72 50	572,59
SPO 3-65 B	1	1,36	7,1	Excl.	4	without	18,2	96 58 72 27	577,98
SPO 3-65 B	1	1,36	7,1	Excl.	20	Schuko	20	96 58 72 51	612,41
SPO 5-55 B	1	1,36	7,4	Excl.	4	without	18,5	96 58 72 29	577,98
SPO 5-55 B	1	1,36	7,4	Excl.	20	Schuko	20,3	96 58 72 53	612,41
SPO 5-70 B	1,20	1,36	8,8	Excl.	4	without	20,7	96 58 72 30	615,41
SPO 5-70 B	1,20	1,36	8,8	Excl.	20	Schuko	22,5	96 58 72 54	649,86
SPO 3-50 C	0,75	1	6,1	Incl.	4	without	16,7	96 58 72 46	559,25
SPO 3-50 C	0,75	1	6,1	Incl.	20	Schuko	28,5	96 58 72 59	593,68
SPO 3-65 C	1	1,36	7,1	Incl.	4	without	18,5	96 58 72 47	596,71
SPO 3-65 C	1	1,36	7,1	Incl.	20	Schuko	20,3	96 58 72 61	631,13
SPO 5-55 C	1	1,36	7,4	Incl.	4	without	18,8	96 58 72 48	596,71
SPO 5-55 C	1	1,36	7,4	Incl.	20	Schuko	20,6	96 58 72 63	631,13
SPO 5-70 C	1,20	1,36	8,8	Incl.	4	without	21	96 58 72 49	636,47
SPO 5-70 C	1,20	1,36	8,8	Incl.	20	Schuko	22,8	96 58 72 65	670,90

SPO with baseplate, 3 x 380 – 415 V, 50 Hz (Product Group: DC)

Pump Type	Rated Power [kW]	Motorleistung (P2) [hp]	Nominal Current	Floating Switch	Length of Cable [m]	Plug with/without	Weight [kg]	Product-No.	EUR
SPO 3-50 B	0,75	1	2,2	Excl.	4	without	16,4	96 58 72 73	538,22
SPO 3-65 B	1	1,36	2,7	Excl.	4	without	18,2	96 58 72 78	575,64
SPO 5-55 B	1	1,36	2,8	Excl.	4	without	18,5	96 58 72 79	575,64
SPO 5-70 B	1,20	1,36	3,4	Excl.	4	without	20,7	96 58 72 80	603,74

Chapter 11

Pressure boosters



Hydro Multi-S booster unit with CM(I) / CR pumps

Hydro Multi-S booster unit with CM(I) pumps (Product Group: CW)

GRUNDFOS Hydro Multi-S booster sets are designed for the transfer and pressure boosting of clean water in blocks of flats, hotels, schools, etc.

Hydro Multi-S consists of 2 or 3 identical CR or CM(I) pumps connected in parallel and mounted on a common base frame, with a control cabinet with integrated controller and provided with all the necessary fittings. The booster set is fitted with an on/off switch for the supply voltage.

The Hydro Multi-S booster set is delivered with dry-running protection. The GRUNDFOS Hydro Multi-S booster set is factory-tested and ready for operation.

To ensure stable operation, the booster set must be fitted with a suitable diaphragm tank.

Pump Type	Motor Power Rating each Motor [kW]	Hydro Multi-S with 2 pumps Product-No.	EUR	Hydro Multi-S with 3 pumps Product-No.	EUR
CM3-4	0,46	91 04 70 58	2.923,73	91 04 70 76	4.032,62
CM3-6	0,65	91 04 70 64	2.962,18	91 04 70 82	4.090,31
CM3-8	1,2	91 04 70 70	3.073,64	91 04 70 88	4.258,38
CM5-4	0,84	91 04 70 94	3.049,28	-	-
CM5-7	1,58	91 04 71 00	3.495,65	91 04 71 16	4.873,94
CM10-3	2,2	91 04 71 26	3.858,99	91 04 71 37	5.392,53
CM10-4	3,2	91 04 71 29	4.019,04	91 04 71 40	5.633,47
CM3-4I	0,46	91 04 70 57	3.357,91	91 04 70 75	4.582,27
CM3-6I	0,65	91 04 70 63	3.400,93	91 04 70 81	4.646,80
CM3-8I	1,2	91 04 70 69	3.609,66	91 04 70 87	4.960,77
CM5-4I	0,84	91 04 70 93	3.570,79	-	-
CM5-7I	1,58	91 04 70 99	3.945,92	91 04 71 15	5.352,00
CM5-9I	2,2	91 04 71 04	4.076,04	91 04 71 20	5.547,17
CM10-3I	2,2	91 04 71 25	4.510,04	91 04 71 36	6.249,64
CM10-4I	3,2	91 04 71 28	4.669,96	91 04 71 39	6.490,37
CM10-5I	3,2	91 04 71 31	4.758,52	91 04 71 42	6.623,22

Hydro Multi-S booster unit with CR pumps (Product Group: CW)

GRUNDFOS Hydro Multi-S booster sets are designed for the transfer and pressure boosting of clean water in blocks of flats, hotels, schools, etc.

Hydro Multi-S consists of 2 or 3 identical CR or CM(I) pumps connected in parallel and mounted on a common base frame, with a control cabinet with integrated controller and provided with all the necessary fittings. The booster set is fitted with an on/off switch for the supply voltage.

The Hydro Multi-S booster set is delivered with dry-running protection. The GRUNDFOS Hydro Multi-S booster set is factory-tested and ready for operation.

To ensure stable operation, the booster set must be fitted with a suitable diaphragm tank.

Pump Type	Motor Power Rating each Motor [kW]	Multi-S with 2 pumps Product-No.	EUR	Multi-S with 3 pumps Product-No.	EUR
CR 3-10	0,75	95 92 28 83	4.432,91	95 92 29 18	5.746,17
CR 3-12	1,1	95 92 28 84	4.518,93	95 92 29 19	5.878,09
CR 3-15	1,1	95 92 28 85	4.610,70	95 92 29 20	6.015,71
CR 3-7	0,55	95 92 28 82	4.312,49	95 92 29 17	5.566,49
CR 5-10	1,5	95 92 28 87	4.983,46	95 92 29 22	6.652,27
CR 5-13	2,2	95 92 27 90	5.390,61	95 92 27 94	7.263,96
CR 5-15	2,2	95 92 27 91	5.453,71	95 92 27 95	7.355,73
CR 5-8	1,1	95 92 28 86	4.465,42	95 92 29 21	5.874,23
CR 10-10	4	95 92 27 92	6.726,81	95 92 27 96	9.200,38
CR 10-4	1,5	95 92 28 88	5.394,45	95 92 29 23	7.200,87
CR 10-6	2,2	95 92 28 89	5.816,90	95 92 29 24	7.833,61
CR 10-8	3	95 92 28 90	6.210,69	95 92 29 25	8.424,29
CR 15-3	3	95 92 28 91	6.447,72	95 92 29 26	8.688,09
CR 15-5	4	95 92 28 92	6.988,68	95 92 29 27	9.500,49
CR 15-7	5,5	95 92 27 93	7.474,24	95 92 27 97	10.228,80

Hydro Multi-E (Product Group: CW)

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5, with non-selfpriming vertical centrifugal pumps CRI(E), pumps are equipped with a service-friendly cartridge shaft seal (SiC/EPDM). Booster unit mounted on stainless steel baseplate, with stainless steel piping and cabling, in factory assembled and tested. Stainless steel manifolds according to the requirements of drinking water standards. Diaphragm pressure tank acc. DIN 4807, manifolds, valves with DVGW approval. System nominal pressure max. 10 bar (16 bar on request). Hydro Multi-E boosters are equipped with dry running protection (pressure switch on inlet side, setting range 0,22–4 bar). Other dry running protection possibilities see options.

Control variant: all pumps with variable speed with integrated frequency converter in motor, with integrated motor protection and monitoring functions, control, signals and parameters to be set with soft-touch panel or infrared remote controller.

Power supply: for Multi-E with nominal power to 1,1 kW/pump = 3 x 400 V / 230 V, + 6 % / -10 %, 50/60 Hz, for Multi-E with nominal power from 1,5 kW/pump = 3 x 400 V, + 6 % / -10 %, 50/60 Hz

Pump Type	Motor Power Rating each Motor [kW]	Multi-E with 2 pumps Product-No.	EUR	Multi-E with 3 pumps Product-No.	EUR	Multi-E with 4 pumps Product-No.	EUR
CRIE 1 - 7	0,37	96 15 22 97	5.104,60	96 15 23 20	6.746,84	96 15 23 43	8.238,82
CRIE 1 -11	0,55	96 15 22 98	5.265,04	96 15 23 21	6.987,47	96 15 23 44	8.559,67
CRIE 1 -15	0,75	96 15 22 99	5.457,55	96 15 23 22	7.276,23	96 15 23 45	8.944,70
CRIE 1 -19	1,1	96 15 23 00	5.635,47	96 15 23 23	7.543,15	96 15 23 46	9.300,58
CRIE 3 - 5	0,37	96 15 23 01	5.597,54	96 15 23 24	7.223,72	96 15 23 47	8.699,68
CRIE 3 - 7	0,55	96 15 23 02	5.693,20	96 15 23 25	7.367,55	96 15 23 48	8.891,71
CRIE 3 -10	0,75	96 15 23 03	5.852,30	96 15 23 26	7.606,22	96 15 23 49	9.209,91
CRIE 3 -15	1,1	96 15 23 04	6.127,26	96 15 23 27	8.018,66	96 15 23 50	9.759,85
CRIE 5 - 4	0,55	96 15 23 05	5.706,92	96 15 23 28	7.478,23	96 15 23 51	9.249,53
CRIE 5 - 8	1,1	96 15 23 06	5.936,47	96 15 23 29	7.822,51	96 15 23 52	9.708,56
CRIE 5 -10	1,5	96 15 23 07	6.614,66	96 15 23 30	8.839,82	96 15 23 53	11.064,97
CRIE 5 -16	2,2	96 15 23 08	7.264,79	96 15 23 31	9.815,00	96 15 23 54	12.365,19
CRIE 10 - 3	1,1	96 15 23 09	6.557,43	-	-	96 15 23 55	10.753,33
CRIE 10 - 4	1,5	96 15 23 10	7.193,79	96 15 23 33	9.609,92	96 15 23 56	12.026,04
CRIE 10 - 6	2,2	96 15 23 11	7.751,61	96 15 23 34	10.446,65	96 15 23 57	13.141,68
CRIE 10 - 9	3	96 15 23 12	8.326,90	96 15 23 35	11.309,60	96 15 23 58	14.292,28
CRIE 15 - 2	2,2	96 15 23 13	8.046,90	96 15 23 36	10.790,70	96 15 23 59	13.459,43
CRIE 15 - 3	3	96 15 23 14	8.563,54	96 15 23 37	11.565,66	96 15 23 60	14.492,72
CRIE 15 - 5	4	96 15 23 15	9.286,40	96 15 23 38	12.649,96	96 15 23 61	15.938,42
CRIE 15 - 7	5,5	96 15 23 16	9.962,94	96 15 23 39	13.664,79	96 15 23 62	17.291,50
CRIE 20 - 2	2,2	96 15 23 17	8.647,80	96 15 23 40	11.895,48	96 15 23 63	15.143,22
CRIE 20 - 3	4	96 15 23 18	9.823,84	96 15 23 41	13.659,59	96 15 23 64	17.495,31
CRIE 20 - 5	5,5	96 15 23 19	10.563,83	96 15 23 42	14.769,55	96 15 23 65	18.975,27
CRE 1-7	0,37	96 09 03 71	5.157,96	96 09 03 82	7.035,68	-	-
CRE 1-11	0,55	96 09 03 72	5.178,90	96 09 03 83	7.069,18	-	-
CRE 1-15	0,75	96 09 03 73	5.201,91	96 09 03 84	7.102,66	-	-
CRE 3-5	0,37	96 09 03 75	5.317,07	96 09 03 86	7.284,80	-	-
CRE 3-7	0,55	96 09 03 76	5.379,85	96 09 03 87	7.368,50	-	-
CRE 3-10	0,75	96 09 03 77	5.505,45	96 09 03 88	7.556,91	-	-
CRE 3-15	1,1	96 09 03 78	5.610,12	96 09 03 89	7.745,31	-	-
CRE 5-4	0,55	96 09 03 79	5.568,26	96 09 03 90	7.661,62	-	-
CRE 5-8	1,1	96 09 03 80	5.610,12	96 09 03 91	7.682,50	-	-
CRE 5-5	0,75	96 49 59 91	5.578,72	96 49 59 92	7.672,02	-	-
CRE 5-10	1,5	96 56 65 55	7.312,49	96 56 65 57	10.231,50	-	-
CRE 5-16	2,2	96 56 65 58	7.422,08	96 56 65 59	10.462,65	-	-
CRE 10-4	1,5	96 56 65 60	7.852,44	96 56 65 61	11.128,14	-	-
CRE 10-3	1,1	96 51 39 14	6.491,43	96 51 39 15	8.925,92	-	-
CRE 10-6	2,2	96 56 65 62	8.037,77	96 56 65 63	11.271,58	-	-
CRE 10-9	3	96 56 65 64	8.370,51	96 56 65 65	11.729,87	-	-
CRE 15-2	2,2	96 56 65 66	8.577,73	96 56 65 67	11.996,88	-	-
CRE 15-3	3	96 56 65 68	9.199,39	96 56 65 69	12.867,60	-	-
CRE 15-5	4	96 56 65 70	9.677,59	96 56 65 71	13.686,50	-	-
CRE 15-7	5,5	96 56 65 72	10.857,17	96 56 65 73	15.521,59	-	-
CRE 20-2	2,2	96 56 65 74	9.625,79	96 56 65 75	13.995,35	-	-
CRE 20-3	4	96 56 65 76	10.743,57	96 56 65 77	15.864,33	-	-
CRE 20-5	5,5	96 56 65 78	11.721,91	96 56 65 79	17.348,73	-	-

Comissioning- und maintenance costs see Service.

11

Modules for BUS Communication (Product Group: CW)

Type	Description	Product-No.	EUR
CIU 100 LON Pump Module	External module to connect Hydro Multi-E to LonWorks networks	96 75 37 35	322,82
CIU 150 Profibus-Module	External module to connect Hydro Multi-E to Profibus-DP networks	96 75 30 81	322,82
CIU 200 MODbus-Module	External module to connect Hydro Multi-E on Modbus RTU networks	96 75 30 82	322,82
CIU 250 GSM-Module	External module for wireless communication via SMS / GSM / GPRS to connect Hydro Multi-E	96 78 71 06	581,08
GSM Antenna	GSM quad band antenna for CIM & CIU 250 GSM module	96 09 52 88	84,62
CIU 300 BACnet MS/TP-Module	External module to connect Hydro Multi-E to BACnet MS / TP networks	96 89 37 69	322,82

Hydro MPC with CRI(E) 3 (Product Group: CW)

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5, with non-selfpriming vertical centrifugal pumps CRI(E), pumps are equipped with a service-friendly cartridge shaft seal (SiC/SiC, EPDM) and cast iron split coupling (>7,5 kW). Stainless steel mainfolds (1.4571) for quiet and hygienic operation. Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW. Booster unit mounted on stainless steel baseplate, with piping and cabling. Factory test with disinfected water and basic parameters. Pumps with Grundfos electric motors (CRIE with integrated frequency converter) efficiency class IE3 (from 1,1 kW) for efficient operation. Pump curves stored in frequency converter to ensure optimal pump control. Highly flexible control unit with backlit graphical panel (320 x 240 Pixel) and user interface. Control with integrated PID controller to maintain constant pressure through continuously variable adjustment of the speed of each individual pump. Integrated VNC server for 1:1 remote control/management of the MPC control via ether-/internet connection. Energy saving mode for low-flow operation (sleep-mode). Free programmable in/outputs for operating and alarm signals. Additional communication module (IO351B) see Accessories

- Control Hydro MPC-E: all pumps with variable speed with integrated frequency converter in motor.
- Control Hydro MPC-S: all pumps with constant nominal speed and pressure controlled cascade operation.
- Power supply: 3 x 400 V/PE, 50 Hz
- Operating pressure: 16 bar (40 bar on request)
- Medium temperature: max. 70 °C; 25 °C acc. TrinkwV2001; higher temperatures on request

Dry running protection see Accessories

Hydro MPC unit require a diaphragm tank acc DIN 4807 part 5: see Accessories

Type	Motor Power Rating each Motor [kW]	Hydro MPC-E Product-No.	EUR	Hydro MPC-S Product-No.	EUR
2 CRI (E) 3 - 10	0,75	96 57 57 66	7.324,82	96 57 58 60	6.075,42
2 CRIE 3 - 15	1,10	91 04 41 42	7.676,25	-	-
2 CRIE 3 - 19	1,50	91 04 41 43	8.612,74	-	-
2 CRI (E) 3 - 5	0,37	91 04 41 40	7.000,47	91 04 40 65	5.802,21
2 CRI (E) 3 - 7	0,55	91 04 41 41	7.122,14	91 04 40 66	5.876,79
3 CRI (E) 3 - 10	0,75	91 04 41 46	9.527,46	91 04 40 69	7.998,51
3 CRIE 3 - 15	1,10	91 04 41 47	10.054,62	-	-
3 CRIE 3 - 19	1,50	91 04 41 48	11.459,36	-	-
3 CRI (E) 3 - 5	0,37	91 04 41 44	9.040,93	91 04 40 67	7.588,71
3 CRI (E) 3 - 7	0,55	91 04 41 45	9.223,46	91 04 40 68	7.700,61
4 CRI (E) 3 - 10	0,75	91 04 41 51	11.542,30	91 04 40 72	9.921,62
4 CRIE 3 - 15	1,10	91 04 41 52	12.245,23	-	-
4 CRIE 3 - 19	1,50	91 04 41 53	14.118,18	-	-
4 CRI (E) 3 - 5	0,37	91 04 41 49	10.893,62	91 04 40 70	9.375,24
4 CRI (E) 3 - 7	0,55	91 04 41 50	11.136,98	91 04 40 71	9.524,42
5 CRI 3 - 10	0,75	-	-	91 04 40 74	11.432,21
5 CRI 3 - 5	0,37	-	-	91 04 42 18	11.224,35
5 CRI 3 - 7	0,55	-	-	91 04 40 73	11.411,44
6 CRI 3 - 10	0,75	-	-	91 04 40 77	12.679,38
6 CRI 3 - 5	0,37	-	-	91 04 40 75	12.263,66
6 CRI 3 - 7	0,55	-	-	91 04 40 76	12.523,48

Customised solutions on request: e.g. Booster units and pumps of stainless steel, another size combinations (e.g. pilot pump), another dimension of suction and discharge manifolds, additional controls, custom boosters,...

Commissioning- und maintenance costs see Service.

11

Hydro MPC with CRI(E) 5 (Product Group: CW)

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5, with non-selfpriming vertical centrifugal pumps CRI(E), pumps are equipped with a service-friendly cartridge shaft seal (SiC/SiC,EPDM) and cast iron split coupling (>7,5 kW). Stainless steel mainfolds (1.4571) for quiet and hygienic operation. Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW. Booster unit mounted on stainless steel baseplate, with piping and cabling. Factory test with disinfected water and basic parameters. Pumps with Grundfos electric motors (CRIE with integrated frequency converter) efficiency class IE3 (from 1,1 kW) for efficient operation. Pump curves stored in frequency converter to ensure optimal pump control. Highly flexible control unit with backlit graphical panel (320 x 240 Pixel) and user interface. Control with integrated PID controller to maintain constant pressure through continuously variable adjustment of the speed of each individual pump. Integrated VNC server for 1:1 remote control/management of the MPC control via ether-/internet connection. Energy saving mode for low-flow operation (sleep-mode). Free programmable in/outputs for operating and alarm signals. Additional communication module (IO351B) see Accessories

- Control Hydro MPC-E: all pumps with variable speed with integrated frequency converter in motor.
- Control Hydro MPC-S: all pumps with constant nominal speed and pressure controlled cascade operation.
- Power supply: 3 x 400 V/PE, 50 Hz
- Operating pressure: 16 bar (40 bar on request)
- Medium temperature: max. 70 °C; 25 °C acc. TrinkwV2001; higher temperatures on request

Dry running protection see Accessories

Hydro MPC unit require a diaphragm tank acc DIN 4807 part 5: see Accessories

Type	Motor Power Rating each Motor [kW]	Hydro MPC-E Product-No.	EUR	Hydro MPC-S Product-No.	EUR
2 CRI (E) 5 - 10	1,50	96 57 57 69	8.276,76	96 57 58 62	6.376,72
2 CRI (E) 5 - 16	2,20	91 04 41 56	9.095,12	91 04 40 80	6.823,48
2 CRI (E) 5 - 4	0,55	96 57 57 68	7.136,50	96 57 58 61	5.794,38
2 CRI (E) 5 - 5	0,75	91 04 41 54	7.269,88	91 04 40 78	5.920,34
2 CR (IE) 5 - 8	1,10	91 04 41 55	7.428,63	91 04 40 79	6.084,24
3 CRI (E) 5 - 10	1,50	96 57 57 77	11.070,03	96 57 58 68	8.521,01
3 CRI (E) 5 - 16	2,20	91 04 41 59	12.297,55	91 04 40 83	9.191,10
3 CRI (E) 5 - 4	0,55	91 04 41 57	9.359,66	91 04 40 81	7.647,48
3 CRI (E) 5 - 5	0,75	91 04 41 58	9.559,70	91 04 40 82	7.836,42
3 CRI (E) 5 - 8	1,10	96 57 57 76	9.797,78	96 57 58 67	8.082,26
4 CRI (E) 5 - 10	1,50	96 57 57 97	13.863,31	91 04 40 87	10.665,30
4 CRI (E) 5 - 16	2,20	91 04 41 63	15.499,99	91 04 40 88	11.558,74
4 CRI (E) 5 - 4	0,55	91 04 41 60	11.582,79	91 04 40 84	9.500,61
4 CRI (E) 5 - 5	0,75	91 04 41 61	11.849,55	91 04 40 85	9.752,51
4 CRI (E) 5 - 8	1,10	91 04 41 62	12.166,97	91 04 40 86	10.080,27

Customised solutions on request: e.g. Booster units and pumps of stainless steel, another size combinations (e.g. pilot pump), another dimension of suction and discharge manifolds, additional controls, custom boosters,...

Comissioning- und maintenance costs see Service.

Hydro MPC with CRI(E) 10 (Product Group: CW)

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5, with non-selfpriming vertical centrifugal pumps CRI(E), pumps are equipped with a service-friendly cartridge shaft seal (SiC/SiC,EPDM) and cast iron split coupling (>7,5 kW). Stainless steel mainfolds (1.4571) for quiet and hygienic operation. Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW. Booster unit mounted on stainless steel baseplate, with piping and cabling. Factory test with disinfected water and basic parameters. Pumps with Grundfos electric motors (CRIE with integrated frequency converter) efficiency class IE3 (from 1,1 kW) for efficient operation. Pump curves stored in frequency converter to ensure optimal pump control. Highly flexible control unit with backlit graphical panel (320 x 240 Pixel) and user interface. Control with integrated PID controller to maintain constant pressure through continuously variable adjustment of the speed of each individual pump. Integrated VNC server for 1:1 remote control/management of the MPC control via ether-/internet connection. Energy saving mode for low-flow operation (sleep-mode). Free programmable in/outputs for operating and alarm signals. Additional communication module (IO351B) see Accessories

- Control Hydro MPC-E: all pumps with variable speed with integrated frequency converter in motor.
- Control Hydro MPC-S: all pumps with constant nominal speed and pressure controlled cascade operation.
- Power supply: 3 x 400 V/PE, 50 Hz
- Operating pressure: 16 bar (40 bar on request)
- Medium temperature: max. 70 °C; 25 °C acc. TrinkwV2001; higher temperatures on request

Dry running protection see Accessories

Hydro MPC unit require a diaphragm tank acc DIN 4807 part 5: see Accessories

Type	Motor Power Rating each Motor [kW]	Hydro MPC-E Product-No.	EUR	Hydro MPC-S Product-No.	EUR
2 CRIE 10 - 12	4,00	91 04 41 66	11.437,46	-	-
2 CRIE 10 - 14	5,50	91 04 41 67	12.124,71	-	-
2 CRI (E) 10 - 3	1,10	96 57 57 70	8.203,12	96 57 58 63	7.220,94
2 CRI (E) 10 - 4	1,50	91 04 41 64	8.997,70	91 04 40 91	7.457,21
2 CRI (E) 10 - 6	2,20	96 57 57 71	9.697,78	96 57 58 64	7.779,99
2 CRI (E) 10 - 9	3,00	91 04 41 65	10.423,62	91 04 40 92	8.228,09
3 CRIE 10 - 12	4,00	91 04 41 70	15.698,11	-	-
3 CRIE 10 - 14	5,50	91 04 41 71	16.727,11	-	-
3 CRI (E) 10 - 3	1,10	96 57 57 78	10.841,40	96 57 58 69	9.402,68
3 CRI (E) 10 - 4	1,50	91 04 41 68	12.033,25	91 04 40 93	9.757,12
3 CRI (E) 10 - 6	2,20	96 57 57 79	13.083,42	96 57 58 70	10.241,25
3 CRI (E) 10 - 9	3,00	91 04 41 69	14.172,15	91 04 40 94	10.913,41

Type	Motor Power Rating each Motor [kW]	Hydro MPC-E Product-No.	EUR	Hydro MPC-S Product-No.	EUR
4 CRIE 10 - 12	4,00	91 04 41 75	19.956,87	-	-
4 CRIE 10 - 14	5,50	91 04 41 76	21.179,34	-	-
4 CRI (E) 10 - 3	1,10	91 04 41 72	13.479,71	91 04 40 95	11.584,41
4 CRI (E) 10 - 4	1,50	91 04 41 73	15.068,82	91 04 40 96	12.057,02
4 CRI (E) 10 - 6	2,20	96 57 57 98	16.469,06	91 04 40 97	12.702,54
4 CRI (E) 10 - 9	3,00	91 04 41 74	17.920,66	91 04 40 98	13.598,76
5 CRIE 10 - 12	4,00	95 00 87 27	24.134,41	-	-
5 CRI (E) 10 - 4	1,50	95 00 87 47	18.104,39	-	-
5 CRI (E) 10 - 6	2,20	95 00 87 48	19.854,68	-	-
5 CRI 10 - 9	3,00	95 00 87 26	21.669,21	91 04 40 99	16.284,11
5 CRI (E) 10 - 3	1,10	96 94 09 23	16.117,98	-	-
6 CRIE 10 - 12	4,00	95 00 87 54	28.375,99	-	-
6 CRI (E) 10 - 4	1,50	95 00 87 74	21.139,96	-	-
6 CRI (E) 10 - 6	2,20	95 00 87 75	23.240,32	-	-
6 CRI 10 - 9	3,00	95 00 87 53	25.417,72	91 04 42 16	18.969,43
6 CRI (E) 10 - 3	1,10	96 94 09 24	18.756,27	-	-

Customised solutions on request: e.g. Booster units and pumps of stainless steel, another size combinations (e.g. pilot pump), another dimension of suction and discharge manifolds, additional controls, custom boosters,...
 Comissioning- und maintenance costs see Service.

Hydro MPC with CRI(E) 15 (Product Group: CW)

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5, with non-selfpriming vertical centrifugal pumps CRI(E), pumps are equipped with a service-friendly cartridge shaft seal (SiC/SiC, EPDM) and cast iron split coupling (>7,5 kW). Stainless steel manifolds (1.4571) for quiet and hygienic operation. Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW. Booster unit mounted on stainless steel baseplate, with piping and cabling. Factory test with disinfected water and basic parameters. Pumps with Grundfos electric motors (CRIE with integrated frequency converter) efficiency class IE3 (from 1,1 kW) for efficient operation. Pump curves stored in frequency converter to ensure optimal pump control. Highly flexible control unit with backlit graphical panel (320 x 240 Pixel) and user interface. Control with integrated PID controller to maintain constant pressure through continuously variable adjustment of the speed of each individual pump. Integrated VNC server for 1:1 remote control/management of the MPC control via ether-/internet connection. Energy saving mode for low-flow operation (sleep-mode). Free programmable in/outputs for operating and alarm signals. Additional communication module (IO351B) see Accessories.

- Control Hydro MPC-E: all pumps with variable speed with integrated frequency converter in motor.
- Control Hydro MPC-S: all pumps with constant nominal speed and pressure controlled cascade operation.
- Power supply: 3 x 400 V/PE, 50 Hz
- Operating pressure: 16 bar (40 bar on request)
- Medium temperature: max. 70 °C; 25 °C acc. TrinkwV2001; higher temperatures on request

Dry running protection see Accessories
 Hydro MPC unit require a diaphragm tank acc DIN 4807 part 5: see Accessories

Type	Motor Power Rating each Motor [kW]	Hydro MPC-E Product-No.	EUR	Hydro MPC-S Product-No.	EUR
2 CRIE 15 - 10	11,00	91 04 41 82	18.448,46	-	-
2 CRIE 15 - 2	2,20	91 04 41 77	10.500,26	-	-
2 CRI (E) 15 - 3	3,00	91 04 41 78	11.169,19	91 04 41 00	9.959,10
2 CRI (E) 15 - 5	4,00	91 04 41 79	12.109,38	91 04 41 01	10.647,46
2 CRI (E) 15 - 7	5,50	91 04 41 80	13.309,74	91 04 41 02	11.455,30
2 CRIE 15 - 9	7,50	91 04 41 81	14.759,06	-	-
3 CRIE 15 - 10	11,00	91 04 41 87	26.016,12	-	-
3 CRIE 15 - 2	2,20	91 04 41 83	14.120,23	-	-
3 CRI (E) 15 - 3	3,00	91 04 41 84	15.123,61	91 04 41 03	12.701,58
3 CRI (E) 15 - 5	4,00	96 57 57 90	16.533,91	96 57 58 71	13.734,10
3 CRI (E) 15 - 7	5,50	91 04 41 85	18.334,43	91 04 41 04	14.945,86
3 CRIE 15 - 9	7,50	91 04 41 86	20.508,41	-	-
4 CRIE 15 - 10	11,00	91 04 41 92	33.487,15	-	-
4 CRIE 15 - 2	2,20	91 04 41 88	17.643,55	-	-
4 CRI (E) 15 - 3	3,00	91 04 41 89	18.981,39	91 04 41 05	15.651,77
4 CRI (E) 15 - 5	4,00	96 57 57 99	20.861,78	91 04 41 06	17.028,46
4 CRI (E) 15 - 7	5,50	91 04 41 90	23.262,47	91 04 41 07	18.644,14
4 CRIE 15 - 9	7,50	91 04 41 91	26.161,11	-	-
5 CRI (E) 15 - 3	3,00	95 00 87 49	22.839,16	-	-
5 CRI (E) 15 - 5	4,00	95 00 87 29	25.189,65	-	-
5 CRI 15 - 7	5,50	95 00 87 30	28.190,51	91 04 41 08	22.550,12
5 CRIE 15 - 9	7,50	95 00 87 31	31.813,82	-	-

Type	Motor Power Rating each Motor [kW]	Hydro MPC-E Product-No.	EUR	Hydro MPC-S Product-No.	EUR
5 CRIE 15 - 2	2,20	96 94 09 28	21.166,86	-	-
6 CRI (E) 15 - 3	3,00	95 00 87 76	26.696,94	-	-
6 CRI (E) 15 - 5	4,00	95 00 87 56	29.517,53	-	-
6 CRI 15 - 7	5,50	95 00 87 57	33.118,55	91 04 41 09	26.456,10
6 CRIE 15 - 9	7,50	95 00 87 58	37.466,52	-	-
6 CRIE 15 - 2	2,20	96 94 09 29	24.690,18	-	-

Customised solutions on request: e.g. Booster units and pumps of stainless steel, another size combinations (e.g. pilot pump), another dimension of suction and discharge manifolds, additional controls, custom boosters,...

Comissioning- und maintenance costs see Service.

Hydro MPC with CRI(E) 20 (Product Group: CW)

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5, with non-selfpriming vertical centrifugal pumps CRI(E), pumps are equipped with a service-friendly cartridge shaft seal (SiC/SiC,EPDM) and cast iron split coupling (>7,5 kW). Stainless steel manifolds (1.4571) for quiet and hygienic operation. Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW. Booster unit mounted on stainless steel baseplate, with piping and cabling. Factory test with disinfected water and basic parameters. Pumps with Grundfos electric motors (CRIE with integrated frequency converter) efficiency class IE3 (from 1,1 kW) for efficient operation. Pump curves stored in frequency converter to ensure optimal pump control. Highly flexible control unit with backlit graphical panel (320 x 240 Pixel) and user interface. Control with integrated PID controller to maintain constant pressure through continuously variable adjustment of the speed of each individual pump. Integrated VNC server for 1:1 remote control/management of the MPC control via ether-/internet connection. Energy saving mode for low-flow operation (sleep-mode). Free programmable in/outputs for operating and alarm signals. Additional communication module (IO351B) see Accessories.

- Control Hydro MPC-E: all pumps with variable speed with integrated frequency converter in motor.
- Control Hydro MPC-S: all pumps with constant nominal speed and pressure controlled cascade operation.
- Power supply: 3 x 400 V/PE, 50 Hz
- Operating pressure: 16 bar (40 bar on request)
- Medium temperature: max. 70 °C; 25 °C acc. TrinkwV2001; higher temperatures on request

Dry running protection see Accessories

Hydro MPC unit require a diaphragm tank acc DIN 4807 part 5: see Accessories

Type	Motor Power Rating each Motor [kW]	Hydro MPC-E Product-No.	EUR	Hydro MPC-S Product-No.	EUR
2 CRI (E) 20 - 10	11	96 94 09 35	18.265,62	-	-
2 CRI (E) 20 - 2	2,2	96 94 09 30	11.271,70	-	-
2 CRI (E) 20 - 3	4,00	91 04 41 93	12.799,06	91 04 41 10	10.559,87
2 CRI (E) 20 - 5	5,50	96 57 57 72	14.017,97	96 57 58 65	11.387,20
2 CRI (E) 20 - 7	7,50	91 04 41 94	15.504,47	91 04 41 11	12.331,44
3 CRI (E) 20 - 10	11	96 94 09 36	26.029,36	-	-
3 CRI (E) 20 - 2	2,2	96 94 09 31	15.538,48	-	-
3 CRI (E) 20 - 3	4,00	91 04 41 95	17.829,53	91 04 41 12	14.610,98
3 CRI (E) 20 - 5	5,50	96 57 57 91	19.657,93	96 57 58 72	15.851,98
3 CRI (E) 20 - 7	7,50	91 04 41 96	21.887,65	91 04 41 13	17.268,32
4 CRI (E) 20 - 10	11	96 94 09 37	33.793,08	-	-
4 CRI (E) 20 - 2	2,2	96 94 09 32	19.805,24	-	-
4 CRI (E) 20 - 3	4,00	91 04 41 97	22.859,98	91 04 41 14	18.662,08
4 CRI (E) 20 - 5	5,50	96 57 58 00	25.297,83	91 04 41 15	20.316,76
4 CRI (E) 20 - 7	7,50	91 04 42 17	28.270,80	91 04 41 16	22.205,22
5 CRI (E) 20 - 3	4,00	95 00 87 33	27.697,13	-	-
5 CRI 20 - 5	5,50	95 00 87 34	30.744,43	91 04 41 17	24.989,24
5 CRI (E) 20 - 7	7,50	95 00 87 35	34.460,64	-	-
5 CRI (E) 20 - 10	11	96 94 09 38	41.363,52	-	-
6 CRI (E) 20 - 3	4,00	95 00 87 60	32.534,30	-	-
6 CRI 20 - 5	5,50	95 00 87 61	36.191,08	91 04 41 18	29.661,71
6 CRI (E) 20 - 7	7,50	95 00 87 62	40.650,53	-	-
6 CRI (E) 20 - 10	11	96 94 09 39	48.933,96	-	-
6 CRI (E) 20 - 2	2,2	96 94 09 34	27.952,22	-	-

Customised solutions on request: e.g. Booster units and pumps of stainless steel, another size combinations (e.g. pilot pump), another dimension of suction and discharge manifolds, additional controls, custom boosters,...

Comissioning- und maintenance costs see Service.

Hydro MPC with CR(E) 32 (Product Group: CW)

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5, with non-selfpriming vertical centrifugal pumps CR(E), pumps are equipped with a service-friendly cartridge shaft seal (SiC/SiC,EPDM) and cast iron split coupling (>7,5 kW). Stainless steel manifolds (1.4571) for quiet and hygienic operation. Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW. Booster unit mounted on stainless steel baseplate, with piping and cabling. Factory test with disinfected water and basic parameters. Pumps with Grundfos electric motors (CRE with integrated frequency converter) efficiency class IE3 (from 1,1 kW) for efficient operation. Pump curves stored in frequency converter to ensure optimal pump control. Highly flexible control unit with backlit graphical panel (320 x 240 Pixel) and user interface. Control with integrated PID controller to maintain constant pressure through continuously variable adjustment of the speed of each individual pump. Integrated VNC server for 1:1 remote control/management of the MPC control via ether-/internet connection. Energy saving mode for low-flow operation (sleep-mode). Free programmable in/outputs for operating and alarm signals. Additional communication module (IO351B) see Accessories.

- Control Hydro MPC-E: all pumps with variable speed with integrated frequency converter in motor.
- Control Hydro MPC-S: all pumps with constant nominal speed and pressure controlled cascade operation.
- Power supply: 3 x 400 V/PE, 50 Hz
- Operating pressure: 16 bar (40 bar on request)
- Medium temperature: max. 70 °C; 25 °C acc. TrinkwV2001; higher temperatures on request

Dry running protection see Accessories

Hydro MPC unit require a diaphragm tank acc DIN 4807 part 5: see Accessories

Type	Motor Power Rating each Motor [kW]	Hydro MPC-E Product-No.	EUR	Hydro MPC-S Product-No.	EUR
2 CRE 32 - 2	4,00	91 04 41 98	14.558,48	-	-
2 CRE 32 - 3	5,50	91 04 41 99	15.949,93	-	-
2 CR (E) 32 - 4	7,50	91 04 42 00	17.647,70	91 04 41 19	13.186,35
2 CRE 32 - 5	11	91 04 42 01	21.964,59	-	-
2 CRE 32 - 6	11	91 04 42 02	21.715,48	-	-
2 CRE 32 - 8	15	96 94 09 40	23.170,11	-	-
3 CRE 32 - 8	15	96 94 09 41	32.417,35	-	-
3 CRE 32 - 2	4,00	91 04 42 03	19.499,91	-	-
3 CRE 32 - 3	5,50	91 04 42 04	21.587,08	-	-
3 CR (E) 32 - 4	7,50	96 57 57 92	24.133,77	96 57 58 73	18.838,82
3 CRE 32 - 5	11	91 04 42 05	30.593,44	-	-
3 CRE 32 - 6	11	91 04 42 06	30.235,42	-	-
4 CRE 32 - 2	4,00	91 04 42 07	24.441,33	-	-
4 CRE 32 - 3	5,50	91 04 42 08	27.224,25	-	-
4 CR (E) 32 - 4	7,50	96 57 58 01	30.619,81	91 04 41 20	24.491,30
4 CRE 32 - 5	11	91 04 42 09	39.222,33	-	-
4 CRE 32 - 6	11	91 04 42 10	38.755,35	-	-
4 CRE 32 - 8	15	96 94 09 42	41.664,59	-	-
5 CRE 32 - 2	4,00	95 00 87 36	29.382,76	-	-
5 CRE 32 - 3	5,50	95 00 87 37	32.861,41	-	-
5 CR 32 - 4	7,50	95 00 87 38	37.105,85	91 04 41 21	30.143,77
5 CRE 32 - 6	11	95 00 87 40	47.275,27	-	-
5 CRE 32 - 8	15	96 94 09 43	50.911,83	-	-
6 CRE 32 - 2	4,00	95 00 87 63	34.324,17	-	-
6 CRE 32 - 3	5,50	95 00 87 64	38.498,58	-	-
6 CR 32 - 4	7,50	95 00 87 65	43.591,91	91 04 41 22	35.796,24
6 CRE 32 - 6	11	95 00 87 67	55.795,20	-	-
6 CRE 32 - 8	15	96 94 09 44	60.159,09	-	-

Customised solutions on request: e.g. Booster units and pumps of stainless steel, another size combinations (e.g. pilot pump), another dimension of suction and discharge manifolds, additional controls, custom boosters,...

Comissioning- und maintenance costs see Service.

Hydro MPC with CR(E) 45 (Product Group: CW)

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5, with non-selfpriming vertical centrifugal pumps CR(E), pumps are equipped with a service-friendly cartridge shaft seal (SiC/SiC,EPDM) and cast iron split coupling (>7,5 kW). Stainless steel manifolds (1.4571) for quiet and hygienic operation. Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW. Booster unit mounted on stainless steel baseplate, with piping and cabling. Factory test with disinfected water and basic parameters. Pumps with Grundfos electric motors (CRE with integrated frequency converter) efficiency class IE3 (from 1,1 kW) for efficient operation. Pump curves stored in frequency converter to ensure optimal pump control. Highly flexible control unit with backlit graphical panel (320 x 240 Pixel) and user interface. Control with integrated PID controller to maintain constant pressure through continuously variable adjustment of the speed of each individual pump. Integrated VNC server for 1:1 remote control/management of the MPC control via ether-/internet connection. Energy saving mode for low-flow operation (sleep-mode). Free programmable in/outputs for operating and alarm signals. Additional communication module (IO351B) see Accessories.

- Control Hydro MPC-E: all pumps with variable speed with integrated frequency converter in motor.
- Control Hydro MPC-S: all pumps with constant nominal speed and pressure controlled cascade operation.
- Power supply: 3 x 400 V/PE, 50 Hz
- Operating pressure: 16 bar (40 bar on request)
- Medium temperature: max. 70 °C; 25 °C acc. TrinkwV2001; higher temperatures on request

Dry running protection see Accessories

Hydro MPC unit require a diaphragm tank acc DIN 4807 part 5: see Accessories

Type	Motor Power Rating each Motor [kW]	Hydro MPC-E Product-No.	EUR	Hydro MPC-S Product-No.	EUR
2 CR (E) 45 - 2-2	5,50	96 75 55 50	18.398,22	-	-
2 CR (E) 45 - 3	11,00	91 04 42 11	24.916,26	91 04 41 23	17.072,90
3 CR (E) 45 - 2	7,50	95 00 87 15	28.777,93	-	-
3 CR (E) 45 - 2-2	5,50	95 00 87 20	26.106,99	-	-
3 CR (E) 45 - 3	11,00	96 57 57 93	34.370,93	91 04 41 24	26.459,96
3 CR (E) 45 - 4	15,00	96 57 57 94	37.866,02	-	-
3 CR (E) 45 - 5	18,50	96 94 09 45	40.850,03	-	-
3 CR (E) 45 - 6	22,00	96 94 09 49	44.342,90	-	-
4 CR (E) 45 - 2	7,50	95 00 87 22	37.010,57	-	-
4 CR (E) 45 - 2-2	5,50	95 00 87 23	33.449,31	-	-
4 CR (E) 45 - 3	11,00	96 57 58 02	44.467,88	91 04 41 25	34.803,05
4 CR (E) 45 - 4	15,00	96 57 58 03	49.128,02	-	-
4 CR (E) 45 - 5	18,50	96 94 09 46	53.106,68	-	-
4 CR (E) 45 - 6	22,00	96 94 09 50	57.763,84	-	-
5 CR (E) 45 - 2	7,50	95 00 87 41	45.243,19	-	-
5 CR (E) 45 - 2-2	5,50	95 00 87 50	40.791,64	-	-
5 CR (E) 45 - 3	11,00	95 00 87 42	54.564,85	91 04 41 26	43.146,12
5 CR (E) 45 - 4	15,00	95 00 87 43	60.390,03	-	-
5 CR (E) 45 - 5	18,50	96 94 09 47	65.363,37	-	-
5 CR (E) 45 - 6	22,00	96 94 09 51	71.184,81	-	-
6 CR (E) 45 - 2	7,50	95 00 87 68	53.475,84	-	-
6 CR (E) 45 - 2-2	5,50	95 00 87 77	48.133,94	-	-
6 CR (E) 45 - 3	11,00	95 00 87 69	64.661,82	91 04 41 27	51.489,19
6 CR (E) 45 - 4	15,00	95 00 87 70	71.652,03	-	-
6 CR (E) 45 - 5	18,50	96 94 09 48	77.620,00	-	-
6 CR (E) 45 - 6	22,00	96 94 09 52	84.605,75	-	-

Customised solutions on request:

- e.g. Booster units and pumps of stainless steel, another size combinations (e.g. pilot pump),
- another dimension of suction and discharge manifolds, additional controls, custom boosters,...
- Commissioning- und maintenance costs see Service.

Hydro MPC with CR(E) 64 (Product Group: CW)

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5, with non-selfpriming vertical centrifugal pumps CR(E), pumps are equipped with a service-friendly cartridge shaft seal (SiC/SiC,EPDM) and cast iron split coupling (>7,5 kW). Stainless steel manifolds (1.4571) for quiet and hygienic operation. Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW. Booster unit mounted on stainless steel baseplate, with piping and cabling. Factory test with disinfected water and basic parameters. Pumps with Grundfos electric motors (CRE with integrated frequency converter) efficiency class IE3 (from 1,1 kW) for efficient operation. Pump curves stored in frequency converter to ensure optimal pump control. Highly flexible control unit with backlit graphical panel (320 x 240 Pixel) and user interface. Control with integrated PID controller to maintain constant pressure through continuously variable adjustment of the speed of each individual pump. Integrated VNC server for 1:1 remote control/management of the MPC control via ether-/internet connection. Energy saving mode for low-flow operation (sleep-mode). Free programmable in/outputs for operating and alarm signals. Additional communication module (IO351B) see Accessories.

- Control Hydro MPC-E: all pumps with variable speed with integrated frequency converter in motor.
- Control Hydro MPC-S: all pumps with constant nominal speed and pressure controlled cascade operation.
- Power supply: 3 x 400 V/PE, 50 Hz
- Operating pressure: 16 bar (40 bar on request)
- Medium temperature: max. 70 °C; 25 °C acc. TrinkwV2001; higher temperatures on request

Dry running protection see Accessories

Hydro MPC unit require a diaphragm tank acc DIN 4807 part 5: see Accessories

Type	Motor Power Rating each Motor [kW]	Hydro MPC-E Product-No.	EUR
3 CR(E) 64 - 1	5,50	95 00 87 16	27.409,07
3 CR(E) 64 - 2 - 2	7,50	95 00 87 17	30.022,31
3 CR(E) 64 - 5 - 1	30	96 94 09 64	46.630,58
3 CR(E) 64 - 2	11	96 94 09 56	33.147,07
3 CR(E) 64 - 3 - 1	15	91 04 42 13	38.854,28
3 CR(E) 64 - 4	22	96 94 09 60	44.988,83
3 CR(E) 64 - 4 - 2	18,5	96 57 57 95	43.257,98
4 CR(E) 64 - 2 - 2	7,50	95 00 87 24	38.583,73
4 CR(E) 64 - 5 - 1	30	96 94 09 65	60.728,09
4 CR(E) 64 - 1	5,50	96 94 09 53	35.099,40
4 CR(E) 64 - 2	11	96 94 09 57	42.750,10
4 CR(E) 64 - 3 - 1	15	91 04 42 14	50.359,67
4 CR(E) 64 - 4	22	96 94 09 61	58.539,12
4 CR(E) 64 - 4 - 2	18,5	96 57 58 04	56.231,29
5 CR(E) 64 - 2 - 2	7,50	95 00 87 51	47.145,15
5 CR(E) 64 - 3 - 1	15	95 00 87 44	61.865,08
5 CR(E) 64 - 4 - 2	18,5	95 00 87 45	69.204,62
5 CR(E) 64 - 5-1	30	96 94 09 66	74.825,59
5 CR(E) 64 - 1	5,50	96 94 09 54	42.789,73
5 CR(E) 64 - 2	11	96 94 09 58	52.353,10
5 CR(E) 64 - 4	22	96 94 09 62	72.089,37
6 CR(E) 64 - 2 - 2	7,50	95 00 87 78	55.706,57
6 CR(E) 64 - 3 - 1	15	95 00 87 71	73.370,50
6 CR(E) 64 - 4 - 2	18,5	95 00 87 72	82.177,93
6 CR(E) 64 - 5-1	30	96 94 09 67	88.923,10
6 CR(E) 64 - 1	5,50	96 94 09 55	50.480,07
6 CR(E) 64 - 2	11	96 94 09 59	61.956,10
6 CR(E) 64 - 4	22	96 94 09 63	85.639,64

Customised solutions on request:

- e.g. Booster units and pumps of stainless steel, another size combinations (e.g. pilot pump),
- another dimension of suction and discharge manifolds, additional controls, custom boosters,...
- Commissioning- und maintenance costs see Service.

Hydro MPC with CR(E) 90 (Product Group: CW)

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5, with non-selfpriming vertical centrifugal pumps CR(E), pumps are equipped with a service-friendly cartridge shaft seal (SiC/SiC,EPDM) and cast iron split coupling (>7,5 kW). Stainless steel manifolds (1.4571) for quiet and hygienic operation. Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW. Booster unit mounted on stainless steel baseplate, with piping and cabling. Factory test with disinfected water and basic parameters. Pumps with Grundfos electric motors (CRE with integrated frequency converter) efficiency class IE3 (from 1,1 kW) for efficient operation. Pump curves stored in frequency converter to ensure optimal pump control. Highly flexible control unit with backlit graphical panel (320 x 240 Pixel) and user interface. Control with integrated PID controller to maintain constant pressure through continuously variable adjustment of the speed of each individual pump. Integrated VNC server for 1:1 remote control/management of the MPC control via ether-/internet connection. Energy saving mode for low-flow operation (sleep-mode). Free programmable in/outputs for operating and alarm signals. Additional communication module (IO351B) see Accessories.

- Control Hydro MPC-E: all pumps with variable speed with integrated frequency converter in motor.
- Control Hydro MPC-S: all pumps with constant nominal speed and pressure controlled cascade operation.
- Power supply: 3 x 400 V/PE, 50 Hz
- Operating pressure: 16 bar (40 bar on request)
- Medium temperature: max. 70 °C; 25 °C acc. TrinkwV2001; higher temperatures on request

Dry running protection see Accessories

Hydro MPC unit require a diaphragm tank acc DIN 4807 part 5: see Accessories

Type	Motor Power Rating each Motor [kW]	Hydro MPC-E Product-No.	EUR
3 CR(E) 90 - 4	30,00	96 94 09 86	49.438,89
3 CR(E) 90 - 4 - 2	30,00	96 94 09 82	49.438,89
3 CR(E) 90 - 5 - 1	37,00	96 94 09 90	54.968,77
3 CR(E) 90 - 2 - 2	15,00	96 94 09 72	40.594,53
3 CR(E) 90 - 1	11,00	96 94 09 68	36.726,63
3 CR(E) 90 - 3 - 1	22,00	96 57 57 96	48.781,00
3 CR(E) 90 - 2	18,50	96 94 09 76	44.707,42
4 CR(E) 90 - 4	30,00	96 94 09 87	64.695,45
4 CR(E) 90 - 4 - 2	30,00	96 94 09 83	64.695,45
4 CR(E) 90 - 5 - 1	37,00	96 94 09 91	72.068,63
4 CR(E) 90 - 2 - 2	15,00	96 94 09 73	52.902,97
4 CR(E) 90 - 1	11,00	96 94 09 69	47.745,74
4 CR(E) 90 - 3 - 1	22,00	96 57 58 05	63.818,27
4 CR(E) 90 - 2	18,50	96 94 09 77	58.386,85
5 CR(E) 90 - 4	30,00	96 94 09 88	79.952,02
5 CR(E) 90 - 4 - 2	30,00	96 94 09 84	79.952,02
5 CR(E) 90 - 5 - 1	37,00	96 94 09 92	89.168,50
5 CR(E) 90 - 2 - 2	15,00	96 94 09 74	65.211,42
5 CR(E) 90 - 1	11,00	96 94 09 70	58.764,88
5 CR(E) 90 - 3 - 1	22,00	96 94 09 80	78.855,56
5 CR(E) 90 - 2	18,50	96 94 09 78	72.066,24
6 CR(E) 90 - 4	30,00	96 94 09 89	95.208,58
6 CR(E) 90 - 4 - 2	30,00	96 94 09 85	95.208,58
6 CR(E) 90 - 5 - 1	37,00	96 94 09 93	106.268,36
6 CR(E) 90 - 2 - 2	15,00	96 94 09 75	77.519,85
6 CR(E) 90 - 1	11,00	96 94 09 71	69.784,04
6 CR(E) 90 - 3 - 1	22,00	96 94 09 81	93.892,81
6 CR(E) 90 - 2	18,50	96 94 09 79	85.745,64

Customised solutions on request:

- e.g. Booster units and pumps of stainless steel, another size combinations (e.g. pilot pump),
- another dimension of suction and discharge manifolds, additional controls, custom boosters,...
- Commissioning- und maintenance costs see Service.

Hydro MPC with CR(E) 120 (Product Group: CW)

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5, with non-selfpriming vertical centrifugal pumps CR(E), pumps are equipped with a service-friendly cartridge shaft seal (SiC/SiC,EPDM) and cast iron split coupling (>7,5 kW). Stainless steel manifolds (1.4571) for quiet and hygienic operation. Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW. Booster unit mounted on stainless steel baseplate, with piping and cabling. Factory test with disinfected water and basic parameters. Pumps with Grundfos electric motors (CRE with integrated frequency converter) efficiency class IE3 (from 1,1 kW) for efficient operation. Pump curves stored in frequency converter to ensure optimal pump control. Highly flexible control unit with backlit graphical panel (320 x 240 Pixel) and user interface. Control with integrated PID controller to maintain constant pressure through continuously variable adjustment of the speed of each individual pump. Integrated VNC server for 1:1 remote control/management of the MPC control via ether-/internet connection. Energy saving mode for low-flow operation (sleep-mode). Free programmable in/outputs for operating and alarm signals. Additional communication module (IO351B) see Accessories.

- Control Hydro MPC-E: all pumps with variable speed with integrated frequency converter in motor.
- Control Hydro MPC-S: all pumps with constant nominal speed and pressure controlled cascade operation.
- Power supply: 3 x 400 V/PE, 50 Hz
- Operating pressure: 16 bar (40 bar on request)
- Medium temperature: max. 70 °C; 25 °C acc. TrinkwV2001; higher temperatures on request

Dry running protection see Accessories

Hydro MPC unit require a diaphragm tank acc DIN 4807 part 5: see Accessories

Type	Motor Power Rating each Motor [kW]	Hydro MPC-E/F* Product-No.	EUR
3 CR (E) 120-2	22,00	96 82 35 42	66.762,01
3 CR (E) 120-2-1	18,50	96 82 35 31	63.816,91
4 CR (E) 120-2	22,00	96 82 35 45	91.212,40
4 CR (E) 120-2-1	18,50	96 82 35 44	87.300,00
5 CR (E) 120-3	30,00	96 94 10 00	112.717,45
5 CR (E) 120-4-1	37,00	96 94 10 04	122.382,60
5 CR (E) 120-5-1	45,00	96 94 10 08	139.905,10
5 CR (E) 120-2	22,00	96 94 09 96	70.939,95
5 CR (E) 120-2-1	18,50	96 94 09 94	65.794,84
6 CR (E) 120-3	30,00	96 94 10 01	130.224,15
6 CR (E) 120-4-1	37,00	96 94 10 05	147.267,25
6 CR (E) 120-5-1	45,00	96 94 10 09	162.487,61
6 CR (E) 120-2	22,00	96 94 09 97	130.830,06
6 CR (E) 120-2-1	18,50	96 94 09 95	77.079,72
3 CR (E) 120-3	30,00	96 81 80 94	75.664,60
3 CR (E) 120-4-1	37,00	96 81 80 95	85.239,10
3 CR (E) 120-5-1	45,00	96 81 80 96	94.047,69
4 CR (E) 120-3	30,00	96 82 34 69	102.502,04
4 CR (E) 120-4-1	37,00	96 82 34 70	114.618,93
4 CR (E) 120-5-1	45,00	96 82 34 71	129.289,91

* ^ 30 kW: External freq. converter in cabinet (MPC-F)

Customised solutions on request:

e.g. Booster units and pumps of stainless steel, another size combinations (e.g. pilot pump), another dimension of suction and discharge manifolds, additional controls, custom boosters, ...
Comissioning- und maintenance costs see Service.

Hydro MPC with CR(E) 150 (Product Group: CW)

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5, with non-selfpriming vertical centrifugal pumps CR(E), pumps are equipped with a service-friendly cartridge shaft seal (SiC/SiC,EPDM) and cast iron split coupling (>7,5 kW). Stainless steel manifolds (1.4571) for quiet and hygienic operation. Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW. Booster unit mounted on stainless steel baseplate, with piping and cabling. Factory test with disinfected water and basic parameters. Pumps with Grundfos electric motors (CRE with integrated frequency converter) efficiency class IE3 (from 1,1 kW) for efficient operation. Pump curves stored in frequency converter to ensure optimal pump control. Highly flexible control unit with backlit graphical panel (320 x 240 Pixel) and user interface. Control with integrated PID controller to maintain constant pressure through continuously variable adjustment of the speed of each individual pump. Integrated VNC server for 1:1 remote control/management of the MPC control via ether-/internet connection. Energy saving mode for low-flow operation (sleep-mode). Free programmable in/outputs for operating and alarm signals. Additional communication module (IO351B) see Accessories.

Control Hydro MPC-E: all pumps with variable speed with integrated frequency converter in motor.
 Control Hydro MPC-S: all pumps with constant nominal speed and pressure controlled cascade operation.
 Power supply: 3 x 400 V/PE, 50 Hz
 Operating pressure: 16 bar (40 bar on request)
 Medium temperature: max. 70 °C; 25 °C acc. TrinkwV2001; higher temperatures on request

Dry running protection see Accessories

Hydro MPC unit require a diaphragm tank acc DIN 4807 part 5: see Accessories

Type	Motor Power Rating each Motor [kW]	Hydro MPC-E/F* Product-No.	EUR	Hydro MPC-S Product-No.	EUR
3 CR (E) 150-2-1	22,00	96 82 35 51	76.296,96	-	-
4 CR (E) 150-2-1	22,00	96 82 35 54	106.519,69	-	-
5 CR (E) 150-3	37,00	96 94 10 18	140.775,40	-	-
5 CR (E) 150-3-2	30,00	96 94 10 14	130.619,00	-	-
5 CR (E) 150-4-1	45,00	96 94 10 22	155.457,12	-	-
5 CR (E) 150-5-2	55,00	96 94 10 26	175.328,45	-	-
5 CR (E) 150-2-1	22,00	96 94 10 10	69.659,71	-	-
6 CR (E) 150-3	37,00	96 94 10 19	167.684,97	-	-
6 CR (E) 150-3-2	30,00	96 94 10 15	149.915,79	-	-
6 CR (E) 150-4-1	45,00	96 94 10 23	183.578,32	-	-
6 CR (E) 150-5-2	55,00	96 94 10 27	205.357,73	-	-
6 CR (E) 150-2-1	22,00	96 94 10 11	81.433,65	-	-
3 CR (E) 150-3	37,00	96 82 34 97	98.049,40	96 81 29 75	72.255,38
3 CR (E) 150-3-2	30,00	96 82 34 96	88.625,95	-	-
3 CR (E) 150-4-1	45,00	96 82 34 98	107.267,82	-	-
3 CR (E) 150-5-2	55,00	96 82 34 99	120.664,49	-	-
4 CR (E) 150-3	37,00	96 82 35 18	134.841,91	-	-
4 CR (E) 150-3-2	30,00	96 82 35 16	122.869,08	-	-
4 CR (E) 150-4-1	45,00	96 82 35 19	146.449,64	-	-
4 CR (E) 150-5-2	55,00	96 82 35 20	165.566,24	-	-

* ^ 30 kW: External freq. converter in cabinet (MPC-F)

Customised solutions on request:

e.g. Booster units and pumps of stainless steel, another size combinations (e.g. pilot pump), another dimension of suction and discharge manifolds, additional controls, custom boosters, ...
 Commissioning- und maintenance costs see Service.

Communication / Signals (Product Group: CW)

Bus communication module

Type	Description	Product-No.	EUR
GSM- Antenne	GSM quad band antenna for CIM & CIU 250 GSM module	96 09 52 88	84,62
CIU 300 BACnet MS/TP -Module	External module to connect HydroMPC / ControlMPC with GENIbus module to BACnet MS / TP networks Note: CIU modules only in conjunction with option: GENIbus MPC module (96020339) possible	96 89 37 69	322,82
CIU 150 Profibus -Module	External module to connect HydroMPC / ControlMPC / CR_Monitor with GENIbus module to Profibus-DP networks	96 75 30 81	322,82
CIU 200 MODbus -Module	External module to connect HydroMPC / ControlMPC / CR_Monitor with GENIbus module to MODbus RTU networks	96 75 30 82	322,82
CIU 250 GSM - Module	External module for wireless communication via SMS / GSM / GPRS to connect HydroMPC / ControlMPC / CR monitor GENIbus module	96 78 71 06	581,08
CIU 110 LON Module HydroMPC	External Module for connecting HydroMPC / ControlMPC with GENIbus module to LonWorks networks	96 75 37 36	322,82

Chapter 12

Dosing



Digital diaphragm dosing pump with variable-speed drive (stepper motor), dosing flow can be adjusted by means of an adjustment knob from 0.1-100%, universal chemical resistance due to full-PTFE diaphragm, click-stop mounting plate allows installation in three different positions

Control variant DDE-B: dosing volume set manually

Additional functions: none

Inputs: none

Outputs: none

Setting range: 1:1000 (e.g. 0,006 l/h bis 6,0 l/h)

Accuracy of repeatability: ± 5 %

Medium temperature: -10 to +45 °C (for PVDF and stainless steel higher temp. on request)

Supply voltage: 1 x 110 – 240 VAC, 50 – 60 Hz, IP65, 1,5 m cable with EU (Schuko) plug

Max. suction lift (operating): 6 m

Max. viscosity wo. spring-loaded valves: 50 mPas; Max. viscosity with spring-loaded valves: DDE 6-10: 600 mPas; DDE 15-4: 500 mPas

Connection set (PP/PVC/PVDF): hose 4/6 mm, 6/9 mm, 6/12 mm, 9/12 mm

Connection set stainless steel variant: internal thread Rp ¼"

DDE B pumps - adjustment knob to set dosing quantity (0,1 – 100 %) (Product Group: DD)

Performance Max. Q [l/h]	Performance Min. Q [l/h]	Performance Max. p [bar]	Material of Pump Head	Material of Sealing	Material of Valve Ball	Spring loaded valve	Name Code	Control Option DDE-B Product-No.	EUR
6,0	0,006	10	PP	EPDM	Ceramics	No	DDE 6-10 B-PP/E/C-X-31U2U2FG	97 72 09 05	249,60
6,0	0,006	10	PP	EPDM	Ceramics	Yes	DDE 6-10 B-PP/E/C-X-32U2U2FG	97 72 09 07	261,00
6,0	0,006	10	PP	FKM	Ceramics	No	DDE 6-10 B-PP/V/C-X-31U2U2FG	97 72 09 09	249,60
6,0	0,006	10	PP	FKM	Ceramics	Yes	DDE 6-10 B-PP/V/C-X-32U2U2FG	97 72 09 21	261,00
6,0	0,006	10	PVC	EPDM	Ceramics	No	DDE 6-10 B-PVC/E/C-X-31U2U2FG	97 72 09 23	266,10
6,0	0,006	10	PVC	EPDM	Ceramics	Yes	DDE 6-10 B-PVC/E/C-X-32U2U2FG	97 72 09 25	277,50
6,0	0,006	10	PVC	FKM	Ceramics	No	DDE 6-10 B-PVC/V/C-X-31U2U2FG	97 72 09 27	266,10
6,0	0,006	10	PVC	FKM	Ceramics	Yes	DDE 6-10 B-PVC/V/C-X-32U2U2FG	97 72 09 29	277,50
6,0	0,006	10	PVC	PTFE	Ceramics	No	DDE 6-10 B-PVC/T/C-X-31U2U2FG	97 72 09 31	328,50
6,0	0,006	10	PVC	PTFE	Ceramics	Yes	DDE 6-10 B-PVC/T/C-X-32U2U2FG	97 72 09 33	339,90
6,0	0,006	10	PVDF	EPDM	Ceramics	No	DDE 6-10 B-PV/E/C-X-31U2U2FG	97 72 09 35	318,60
6,0	0,006	10	PVDF	EPDM	Ceramics	Yes	DDE 6-10 B-PV/E/C-X-32U2U2FG	97 72 09 37	330,00
6,0	0,006	10	PVDF	FKM	Ceramics	No	DDE 6-10 B-PV/V/C-X-31U2U2FG	97 72 09 39	318,60
6,0	0,006	10	PVDF	FKM	Ceramics	Yes	DDE 6-10 B-PV/V/C-X-32U2U2FG	97 72 09 41	330,00
6,0	0,006	10	PVDF	PTFE	Ceramics	No	DDE 6-10 B-PV/T/C-X-31U2U2FG	97 72 09 43	381,00
6,0	0,006	10	PVDF	PTFE	Ceramics	Yes	DDE 6-10 B-PV/T/C-X-32U2U2FG	97 72 09 45	392,40
6,0	0,006	10	Stainless Steel	PTFE	Stainless Steel	No	DDE 6-10 B-SS/T/SS-X-31AAFG	97 72 09 47	709,50
6,0	0,006	10	Stainless Steel	PTFE	Stainless Steel	Yes	DDE 6-10 B-SS/T/SS-X-32AAFG	97 72 09 48	720,90
15,0	0,015	4	PP	EPDM	Ceramics	No	DDE 15-4 B-PP/E/C-X-31U2U2FG	97 72 09 83	348,15
15,0	0,015	4	PP	EPDM	Ceramics	Yes	DDE 15-4 B-PP/E/C-X-32U2U2FG	97 72 09 85	359,55
15,0	0,015	4	PP	FKM	Ceramics	No	DDE 15-4 B-PP/V/C-X-31U2U2FG	97 72 09 87	348,15
15,0	0,015	4	PP	FKM	Ceramics	Yes	DDE 15-4 B-PP/V/C-X-32U2U2FG	97 72 09 89	359,55
15,0	0,015	4	PVC	EPDM	Ceramics	No	DDE 15-4 B-PVC/E/C-X-31U2U2FG	97 72 09 91	364,65
15,0	0,015	4	PVC	EPDM	Ceramics	Yes	DDE 15-4 B-PVC/E/C-X-32U2U2FG	97 72 09 93	376,05
15,0	0,015	4	PVC	FKM	Ceramics	No	DDE 15-4 B-PVC/V/C-X-31U2U2FG	97 72 09 95	364,65
15,0	0,015	4	PVC	FKM	Ceramics	Yes	DDE 15-4 B-PVC/V/C-X-32U2U2FG	97 72 09 97	376,05
15,0	0,015	4	PVC	PTFE	Ceramics	No	DDE 15-4 B-PVC/T/C-X-31U2U2FG	97 72 09 99	427,05
15,0	0,015	4	PVC	PTFE	Ceramics	Yes	DDE 15-4 B-PVC/T/C-X-32U2U2FG	97 72 10 01	438,45
15,0	0,015	4	PVDF	EPDM	Ceramics	No	DDE 15-4 B-PV/E/C-X-31U2U2FG	97 72 10 03	417,15
15,0	0,015	4	PVDF	EPDM	Ceramics	Yes	DDE 15-4 B-PV/E/C-X-32U2U2FG	97 72 10 05	428,55
15,0	0,015	4	PVDF	FKM	Ceramics	No	DDE 15-4 B-PV/V/C-X-31U2U2FG	97 72 10 07	417,15
15,0	0,015	4	PVDF	FKM	Ceramics	Yes	DDE 15-4 B-PV/V/C-X-32U2U2FG	97 72 10 09	428,55
15,0	0,015	4	PVDF	PTFE	Ceramics	No	DDE 15-4 B-PV/T/C-X-31U2U2FG	97 72 10 11	479,55
15,0	0,015	4	PVDF	PTFE	Ceramics	Yes	DDE 15-4 B-PV/T/C-X-32U2U2FG	97 72 10 13	490,95
15,0	0,015	4	Stainless Steel	PTFE	Stainless Steel	No	DDE 15-4 B-SS/T/SS-X-31AAFG	97 72 10 15	808,05
15,0	0,015	4	Stainless Steel	PTFE	Stainless Steel	Yes	DDE 15-4 B-SS/T/SS-X-32AAFG	97 72 10 16	819,45

¹⁾ Viscosity limits: see type description above

Digital diaphragm dosing pump with variable-speed drive (stepper motor), dosing flow can be adjusted by means of an adjustment knob from 0.1-100%, universal chemical resistance due to full-PTFE diaphragm, click-stop mounting plate allows installation in three different positions

Control variant DDE-P: manual operation, proportional dosing (pulse signal)

Main functions: 100 % deaeration, manual or pulse operation, tank level input

Inputs: ext. start/stop, pulse signal 1:n, 1 level input

Output: none

Multicolour LED for: standby, operation, ext. stop, pre-empty, empty, alarm

Setting range: 1:1000 (e.g. 0,006 l/h bis 6,0 l/h)

Accuracy of repeatability: ± 5 %

Medium temperature: -10 to +45 °C (for PVDF and stainless steel higher temp. on request)

Supply voltage: 1 x 110 – 240 VAC, 50 – 60 Hz, IP65, 1,5 m cable with EU (Schuko) plug

Max. suction lift (operating): 6 m

Max. viscosity wo. spring-loaded valves: 50 mPas; Max. viscosity with spring-loaded valves: DDE 6-10: 600 mPas; DDE 15-4: 500 mPas

Connection set (PP/PVC/PVDF): hose 4/6 mm, 6/9 mm, 6/12 mm, 9/12 mm

Connection set stainless steel variant: internal thread Rp ¼"

DDE P pumps - pulse / adjustment knob to set dosing quantity (0,1 – 100 %) (Product Group: DD)

Performance Max. Q [l/h]	Performance Min. Q [l/h]	Performance Max. p [bar]	Material of Pump Head	Material of Sealing	Material of Valve Ball	Spring loaded valve	Name Code	Control Option DDE-P Product-No.	EUR
6,0	0,006	10	PP	EPDM	Ceramics	No	DDE 6-10 P-PP/E/C-X-31U2U2FG	97 72 09 49	308,70
6,0	0,006	10	PP	EPDM	Ceramics	Yes	DDE 6-10 P-PP/E/C-X-32U2U2FG	97 72 09 51	320,10
6,0	0,006	10	PP	FKM	Ceramics	No	DDE 6-10 P-PP/V/C-X-31U2U2FG	97 72 09 53	308,70
6,0	0,006	10	PP	FKM	Ceramics	Yes	DDE 6-10 P-PP/V/C-X-32U2U2FG	97 72 09 55	320,10
6,0	0,006	10	PVC	EPDM	Ceramics	No	DDE 6-10 P-PVC/E/C-X-31U2U2FG	97 72 09 57	325,20
6,0	0,006	10	PVC	EPDM	Ceramics	Yes	DDE 6-10 P-PVC/E/C-X-32U2U2FG	97 72 09 59	336,60
6,0	0,006	10	PVC	FKM	Ceramics	No	DDE 6-10 P-PVC/V/C-X-31U2U2FG	97 72 09 61	325,20
6,0	0,006	10	PVC	FKM	Ceramics	Yes	DDE 6-10 P-PVC/V/C-X-32U2U2FG	97 72 09 63	336,60
6,0	0,006	10	PVC	PTFE	Ceramics	No	DDE 6-10 P-PVC/T/C-X-31U2U2FG	97 72 09 65	387,60
6,0	0,006	10	PVC	PTFE	Ceramics	Yes	DDE 6-10 P-PVC/T/C-X-32U2U2FG	97 72 09 67	399,00
6,0	0,006	10	PVDF	EPDM	Ceramics	No	DDE 6-10 P-PV/E/C-X-31U2U2FG	97 72 09 69	377,70
6,0	0,006	10	PVDF	EPDM	Ceramics	Yes	DDE 6-10 P-PV/E/C-X-32U2U2FG	97 72 09 71	389,10
6,0	0,006	10	PVDF	FKM	Ceramics	No	DDE 6-10 P-PV/V/C-X-31U2U2FG	97 72 09 73	377,70
6,0	0,006	10	PVDF	FKM	Ceramics	Yes	DDE 6-10 P-PV/V/C-X-32U2U2FG	97 72 09 75	389,10
6,0	0,006	10	PVDF	PTFE	Ceramics	No	DDE 6-10 P-PV/T/C-X-31U2U2FG	97 72 09 77	440,10
6,0	0,006	10	PVDF	PTFE	Ceramics	Yes	DDE 6-10 P-PV/T/C-X-32U2U2FG	97 72 09 79	451,50
6,0	0,006	10	Stainless Steel	PTFE	Stainless Steel	No	DDE 6-10 P-SS/T/SS-X-31AAFG	97 72 09 81	768,60
6,0	0,006	10	Stainless Steel	PTFE	Stainless Steel	Yes	DDE 6-10 P-SS/T/SS-X-32AAFG	97 72 09 82	780,00
15,0	0,015	4	PP	EPDM	Ceramics	No	DDE 15-4 P-PP/E/C-X-31U2U2FG	97 72 10 17	407,25
15,0	0,015	4	PP	EPDM	Ceramics	Yes	DDE 15-4 P-PP/E/C-X-32U2U2FG	97 72 10 19	418,65
15,0	0,015	4	PP	FKM	Ceramics	No	DDE 15-4 P-PP/V/C-X-31U2U2FG	97 72 10 21	407,25
15,0	0,015	4	PP	FKM	Ceramics	Yes	DDE 15-4 P-PP/V/C-X-32U2U2FG	97 72 10 23	418,65
15,0	0,015	4	PVC	EPDM	Ceramics	No	DDE 15-4 P-PVC/E/C-X-31U2U2FG	97 72 10 25	423,75
15,0	0,015	4	PVC	EPDM	Ceramics	Yes	DDE 15-4 P-PVC/E/C-X-32U2U2FG	97 72 10 27	435,15
15,0	0,015	4	PVC	FKM	Ceramics	No	DDE 15-4 P-PVC/V/C-X-31U2U2FG	97 72 10 29	423,75
15,0	0,015	4	PVC	FKM	Ceramics	Yes	DDE 15-4 P-PVC/V/C-X-32U2U2FG	97 72 10 31	435,15
15,0	0,015	4	PVC	PTFE	Ceramics	No	DDE 15-4 P-PVC/T/C-X-31U2U2FG	97 72 10 33	486,15
15,0	0,015	4	PVC	PTFE	Ceramics	Yes	DDE 15-4 P-PVC/T/C-X-32U2U2FG	97 72 10 35	497,55
15,0	0,015	4	PVDF	EPDM	Ceramics	No	DDE 15-4 P-PV/E/C-X-31U2U2FG	97 72 10 37	476,25
15,0	0,015	4	PVDF	EPDM	Ceramics	Yes	DDE 15-4 P-PV/E/C-X-32U2U2FG	97 72 10 39	487,65
15,0	0,015	4	PVDF	FKM	Ceramics	No	DDE 15-4 P-PV/V/C-X-31U2U2FG	97 72 10 41	476,25
15,0	0,015	4	PVDF	FKM	Ceramics	Yes	DDE 15-4 P-PV/V/C-X-32U2U2FG	97 72 10 43	487,65
15,0	0,015	4	PVDF	PTFE	Ceramics	No	DDE 15-4 P-PV/T/C-X-31U2U2FG	97 72 10 45	538,65
15,0	0,015	4	PVDF	PTFE	Ceramics	Yes	DDE 15-4 P-PV/T/C-X-32U2U2FG	97 72 10 47	550,05
15,0	0,015	4	Stainless Steel	PTFE	Stainless Steel	No	DDE 15-4 P-SS/T/SS-X-31AAFG	97 72 10 49	867,15
15,0	0,015	4	Stainless Steel	PTFE	Stainless Steel	Yes	DDE 15-4 P-SS/T/SS-X-32AAFG	97 72 10 50	878,55

¹⁾ Viscosity limits: see type description above

Digital diaphragm dosing pump with variable-speed drive (stepper motor), dosing flow can be adjusted by means of an adjustment knob from 0.1-100%, universal chemical resistance due to full-PTFE diaphragm, click-stop mounting plate allows installation in three different positions

Control variant DDE-PR: manual operation, proportional dosing (pulse signal)

Additional functions: 100% deaeration, manual or pulse operation, tank level input

Inputs: ext. start/stop, pulse signal 1:n, 1 level input

Output relays: relay 1: alarm; relay 2: pre-empty or stroke or pulse input = pulse output

Multicolour LED for: standby, operation, ext. stop, pre-empty, empty, alarm

Setting range: 1:1000 (e.g.. 0,006 l/h bis 6,0 l/h)

Accuracy of repeatability: ± 5 %

Medium temperature: -10 to +45 °C (for PVDF and stainless steel higher temp. on request)

Supply voltage: 1 x 110 – 240 VAC, 50 – 60 Hz, IP65, 1,5 m cable with EU (Schuko) plug

Max. suction lift (operating): 6 m

Max. viscosity wo. spring-loaded valves: 50 mPas; Max. viscosity with spring-loaded valves: DDE 6-10: 600 mPas; DDE 15-4: 500 mPas

Connection set (PP/PVC/PVDF): hose 4/6 mm, 6/9 mm, 6/12 mm, 9/12 mm

Connection set stainless steel variant: internal thread Rp ¼"

DDC A - display position: front (mountable to left/right) (Product Group: DD)

Performance Max. Q [l/h]	Performance Min. Q [l/h]	Performance Max. p [bar]	Material of Pump Head	Material of Sealing	Material of Valve Ball	Spring loaded valve	Name Code	Control Option DDC-A Product-No.	EUR
6,0	0,006	10	PP	EPDM	Ceramics	No	DDC 6-10 A-PP/E/C-F-31U2U2FG	97 72 13 24	445,20
6,0	0,006	10	PP	EPDM	Ceramics	Yes	DDC 6-10 A-PP/E/C-F-32U2U2FG	97 72 13 26	456,60
6,0	0,006	10	PP	FKM	Ceramics	No	DDC 6-10 A-PP/V/C-F-31U2U2FG	97 72 13 28	445,20
6,0	0,006	10	PP	FKM	Ceramics	Yes	DDC 6-10 A-PP/V/C-F-32U2U2FG	97 72 13 30	456,60
6,0	0,006	10	PVC	EPDM	Ceramics	No	DDC 6-10 A-PVC/E/C-F-31U2U2FG	97 72 13 32	461,70
6,0	0,006	10	PVC	EPDM	Ceramics	Yes	DDC 6-10 A-PVC/E/C-F-32U2U2FG	97 72 13 34	473,10
6,0	0,006	10	PVC	FKM	Ceramics	No	DDC 6-10 A-PVC/V/C-F-31U2U2FG	97 72 13 36	461,70
6,0	0,006	10	PVC	FKM	Ceramics	Yes	DDC 6-10 A-PVC/V/C-F-32U2U2FG	97 72 13 38	473,10
6,0	0,006	10	PVC	PTFE	Ceramics	No	DDC 6-10 A-PVC/T/C-F-31U2U2FG	97 72 13 40	524,10
6,0	0,006	10	PVC	PTFE	Ceramics	Yes	DDC 6-10 A-PVC/T/C-F-32U2U2FG	97 72 13 42	535,50
6,0	0,006	10	PVDF	EPDM	Ceramics	No	DDC 6-10 A-PV/E/C-F-31U2U2FG	97 72 13 44	514,20
6,0	0,006	10	PVDF	EPDM	Ceramics	Yes	DDC 6-10 A-PV/E/C-F-32U2U2FG	97 72 13 46	525,60
6,0	0,006	10	PVDF	FKM	Ceramics	No	DDC 6-10 A-PV/V/C-F-31U2U2FG	97 72 13 48	514,20
6,0	0,006	10	PVDF	FKM	Ceramics	Yes	DDC 6-10 A-PV/V/C-F-32U2U2FG	97 72 13 50	525,60
6,0	0,006	10	PVDF	PTFE	Ceramics	No	DDC 6-10 A-PV/T/C-F-31U2U2FG	97 72 13 52	576,60
6,0	0,006	10	PVDF	PTFE	Ceramics	Yes	DDC 6-10 A-PV/T/C-F-32U2U2FG	97 72 13 54	588,00
6,0	0,006	10	Stainless Steel	PTFE	Stainless Steel	No	DDC 6-10 A-SS/T/SS-F-31AAFG	97 72 13 56	905,10
6,0	0,006	10	Stainless Steel	PTFE	Stainless Steel	Yes	DDC 6-10 A-SS/T/SS-F-32AAFG	97 72 13 57	916,50

¹⁾ Viscosity limits: see type description above

DDC-A (0 – 15 l/h) (Product Group: DD)

Performance Max. Q [l/h]	Performance Min. Q [l/h]	Performance Max. p [bar]	Material of Pump Head	Material of Sealing	Material of Valve Ball	Spring loaded valve	Name Code	Control Option DDC-A Product-No.	EUR
9,0	0,009	7	PP	EPDM	Ceramics	No	DDC 9-7 A-PP/E/C-F-31U2U2FG	97 72 13 93	445,20
9,0	0,009	7	PP	EPDM	Ceramics	Yes	DDC 9-7 A-PP/E/C-F-32U2U2FG	97 72 13 95	456,60
9,0	0,009	7	PP	FKM	Ceramics	No	DDC 9-7 A-PP/V/C-F-31U2U2FG	97 72 13 97	445,20
9,0	0,009	7	PP	FKM	Ceramics	Yes	DDC 9-7 A-PP/V/C-F-32U2U2FG	97 72 13 99	456,60
9,0	0,009	7	PVC	EPDM	Ceramics	No	DDC 9-7 A-PVC/E/C-F-31U2U2FG	97 72 14 01	461,70
9,0	0,009	7	PVC	EPDM	Ceramics	Yes	DDC 9-7 A-PVC/E/C-F-32U2U2FG	97 72 14 03	473,10
9,0	0,009	7	PVC	FKM	Ceramics	No	DDC 9-7 A-PVC/V/C-F-31U2U2FG	97 72 14 05	461,70
9,0	0,009	7	PVC	FKM	Ceramics	Yes	DDC 9-7 A-PVC/V/C-F-32U2U2FG	97 72 14 07	473,10
9,0	0,009	7	PVC	PTFE	Ceramics	No	DDC 9-7 A-PVC/T/C-F-31U2U2FG	97 72 14 09	524,10
9,0	0,009	7	PVC	PTFE	Ceramics	Yes	DDC 9-7 A-PVC/T/C-F-32U2U2FG	97 72 14 11	535,50
9,0	0,009	7	PVDF	EPDM	Ceramics	No	DDC 9-7 A-PV/E/C-F-31U2U2FG	97 72 14 13	514,20
9,0	0,009	7	PVDF	EPDM	Ceramics	Yes	DDC 9-7 A-PV/E/C-F-32U2U2FG	97 72 14 15	525,60
9,0	0,009	7	PVDF	FKM	Ceramics	No	DDC 9-7 A-PV/V/C-F-31U2U2FG	97 72 14 17	514,20
9,0	0,009	7	PVDF	FKM	Ceramics	Yes	DDC 9-7 A-PV/V/C-F-32U2U2FG	97 72 14 19	525,60
9,0	0,009	7	PVDF	PTFE	Ceramics	No	DDC 9-7 A-PV/T/C-F-31U2U2FG	97 72 14 21	576,60
9,0	0,009	7	PVDF	PTFE	Ceramics	Yes	DDC 9-7 A-PV/T/C-F-32U2U2FG	97 72 14 23	588,00
9,0	0,009	7	Stainless Steel	PTFE	Stainless Steel	No	DDC 9-7 A-SS/T/SS-F-31AAFG	97 72 14 25	905,10
9,0	0,009	7	Stainless Steel	PTFE	Stainless Steel	Yes	DDC 9-7 A-SS/T/SS-F-32AAFG	97 72 14 26	916,50
15,0	0,015	4	PP	EPDM	Ceramics	No	DDC 15-4 A-PP/E/C-F-31U2U2FG	97 72 14 61	543,75

12

DDC-A (0 – 15 l/h) DDC-AR (0 – 15 l/h)

Performance Max. Q [l/h]	Performance Min. Q [l/h]	Performance Max. p [bar]	Material of Pump Head	Material of Sealing	Material of Valve Ball	Spring loaded valve	Name Code	Control Option DDC-A Product-No.	EUR
15,0	0,015	4	PP	EPDM	Ceramics	Yes	DDC 15-4 A-PP/E/C-F-32U2U2FG	97 72 14 63	555,15
15,0	0,015	4	PP	FKM	Ceramics	No	DDC 15-4 A-PP/V/C-F-31U2U2FG	97 72 14 65	543,75
15,0	0,015	4	PP	FKM	Ceramics	Yes	DDC 15-4 A-PP/V/C-F-32U2U2FG	97 72 14 67	555,15
15,0	0,015	4	PVC	EPDM	Ceramics	No	DDC 15-4 A-PVC/E/C-F-31U2U2FG	97 72 14 69	560,25
15,0	0,015	4	PVC	EPDM	Ceramics	Yes	DDC 15-4 A-PVC/E/C-F-32U2U2FG	97 72 14 71	571,65
15,0	0,015	4	PVC	FKM	Ceramics	No	DDC 15-4 A-PVC/V/C-F-31U2U2FG	97 72 14 73	560,25
15,0	0,015	4	PVC	FKM	Ceramics	Yes	DDC 15-4 A-PVC/V/C-F-32U2U2FG	97 72 14 75	571,65
15,0	0,015	4	PVC	PTFE	Ceramics	No	DDC 15-4 A-PVC/T/C-F-31U2U2FG	97 72 14 77	622,65
15,0	0,015	4	PVC	PTFE	Ceramics	Yes	DDC 15-4 A-PVC/T/C-F-32U2U2FG	97 72 14 79	634,05
15,0	0,015	4	PVDF	EPDM	Ceramics	No	DDC 15-4 A-PV/E/C-F-31U2U2FG	97 72 14 81	612,75
15,0	0,015	4	PVDF	EPDM	Ceramics	Yes	DDC 15-4 A-PV/E/C-F-32U2U2FG	97 72 14 83	624,15
15,0	0,015	4	PVDF	FKM	Ceramics	No	DDC 15-4 A-PV/V/C-F-31U2U2FG	97 72 14 85	612,75
15,0	0,015	4	PVDF	FKM	Ceramics	Yes	DDC 15-4 A-PV/V/C-F-32U2U2FG	97 72 14 87	624,15
15,0	0,015	4	PVDF	PTFE	Ceramics	No	DDC 15-4 A-PV/T/C-F-31U2U2FG	97 72 14 89	675,15
15,0	0,015	4	PVDF	PTFE	Ceramics	Yes	DDC 15-4 A-PV/T/C-F-32U2U2FG	97 72 14 91	686,55
15,0	0,015	4	Stainless Steel	PTFE	Stainless Steel	No	DDC 15-4 A-SS/T/SS-F-31AAFG	97 72 14 93	1.003,65
15,0	0,015	4	Stainless Steel	PTFE	Stainless Steel	Yes	DDC 15-4 A-SS/T/SS-F-32AAFG	97 72 14 94	1.015,05

¹⁾ Viscosity limits: see type description above

Digital diaphragm dosing pump with stepper motor, settings with user-friendly click-wheel, graphical display with background light in four colours for status (warning: yellow; alarm:red; operation:green; settings:white) with multi-language plain text menu, universal chemical resistance due to full-PTFE diaphragm, click-stop mounting plate allows installation in three different positions

Control variant DDC-AR: manual operation, proportional control (pulse or analog)

Main functions: Automatic deaeration, anti-cavitation function (extended suction stroke length: 100 %, 50 %, 25 %), calibration

Service menu, adjustable output relay

Inputs: ext. start/stop, pulse signal, analog signal, 2 level inputs,

Outputs: 2 output relay for alarm/warning/operation/stroke signal

Setting range: 1:1000 (e.g. 0,006 l/h bis 6,0 l/h)

Accuracy of repeatability: ± 1 %

Medium temperature: -10 to +45 °C (for PVDF and stainless steel higher temp. on request)

Supply voltage: 1 x 110 – 240 VAC, 50 – 60 Hz, IP65, 1,5 m cable with EU (Schuko) plug

Max. suction lift (operating): 6 m

Max. viscosity wo. spring-loaded valves: DDC 6-10/9-7: 50 mPas; DDC 300 mPas; Max. viscosity with spring-loaded valves: DDC6-10: 2500 mPas; DDC 9-7/15-4: 2000 mPas

Connection set (PP/PVC/PVDF): hose 4/6 mm, 6/9 mm, 6/12 mm, 9/12 mm

Connection set stainless steel variant: internal thread Rp ¼"

DDC AR - display position: front (mountable to left/right) (Product Group: DD)

Performance Min. Q [l/h]	Performance Max. Q [l/h]	Performance Max. p [bar]	Material of Pump Head	Material of Sealing	Material of Valve Ball	Spring loaded valve	Name Code	Control Option DDC-AR Product-No.	EUR
0,006	6,0	10	PP	EPDM	Ceramics	No	DDC 6-10 AR-PP/E/C-F-31U2U2FG	97 72 13 58	576,60
0,006	6,0	10	PP	EPDM	Ceramics	Yes	DDC 6-10 AR-PP/E/C-F-32U2U2FG	97 72 13 60	588,00
0,006	6,0	10	PP	FKM	Ceramics	No	DDC 6-10 AR-PP/V/C-F-31U2U2FG	97 72 13 62	576,60
0,006	6,0	10	PP	FKM	Ceramics	Yes	DDC 6-10 AR-PP/V/C-F-32U2U2FG	97 72 13 64	588,00
0,006	6,0	10	PVC	EPDM	Ceramics	No	DDC 6-10 AR-PVC/E/C-F-31U2U2FG	97 72 13 66	593,10
0,006	6,0	10	PVC	EPDM	Ceramics	Yes	DDC 6-10 AR-PVC/E/C-F-32U2U2FG	97 72 13 68	604,50
0,006	6,0	10	PVC	FKM	Ceramics	No	DDC 6-10 AR-PVC/V/C-F-31U2U2FG	97 72 13 70	593,10
0,006	6,0	10	PVC	FKM	Ceramics	Yes	DDC 6-10 AR-PVC/V/C-F-32U2U2FG	97 72 13 72	604,50
0,006	6,0	10	PVC	PTFE	Ceramics	No	DDC 6-10 AR-PVC/T/C-F-31U2U2FG	97 72 13 74	655,50
0,006	6,0	10	PVC	PTFE	Ceramics	Yes	DDC 6-10 AR-PVC/T/C-F-32U2U2FG	97 72 13 77	666,90
0,006	6,0	10	PVDF	EPDM	Ceramics	No	DDC 6-10 AR-PV/E/C-F-31U2U2FG	97 72 13 79	645,60
0,006	6,0	10	PVDF	EPDM	Ceramics	Yes	DDC 6-10 AR-PV/E/C-F-32U2U2FG	97 72 13 81	657,00
0,006	6,0	10	PVDF	FKM	Ceramics	No	DDC 6-10 AR-PV/V/C-F-31U2U2FG	97 72 13 83	645,60
0,006	6,0	10	PVDF	FKM	Ceramics	Yes	DDC 6-10 AR-PV/V/C-F-32U2U2FG	97 72 13 85	657,00
0,006	6,0	10	PVDF	PTFE	Ceramics	No	DDC 6-10 AR-PV/T/C-F-31U2U2FG	97 72 13 87	708,00
0,006	6,0	10	PVDF	PTFE	Ceramics	Yes	DDC 6-10 AR-PV/T/C-F-32U2U2FG	97 72 13 89	719,40
0,006	6,0	10	Stainless Steel	PTFE	Stainless Steel	No	DDC 6-10 AR-SS/T/SS-F-31AAFG	97 72 13 91	1.036,50
0,006	6,0	10	Stainless Steel	PTFE	Stainless Steel	Yes	DDC 6-10 AR-SS/T/SS-F-32AAFG	97 72 13 92	1.047,90

¹⁾ Viscosity limits: see type description above

DDC-AR (0 – 15 l/h) (Product Group: DD)

Performance Max. Q [l/h]	Performance Min. Q [l/h]	Performance Max. p [bar]	Material of Pump Head	Material of Sealing	Material of Valve Ball	Spring loaded valve	Name Code	Control Option DDC-AR Product-No.	EUR
9,0	0,009	7	PP	EPDM	Ceramics	No	DDC 9-7 AR-PP/E/C-F-31U2U2FG	97 72 14 27	576,60
9,0	0,009	7	PP	EPDM	Ceramics	Yes	DDC 9-7 AR-PP/E/C-F-32U2U2FG	97 72 14 29	588,00
9,0	0,009	7	PP	FKM	Ceramics	No	DDC 9-7 AR-PPN/C-F-31U2U2FG	97 72 14 31	576,60
9,0	0,009	7	PP	FKM	Ceramics	Yes	DDC 9-7 AR-PPN/C-F-32U2U2FG	97 72 14 33	588,00
9,0	0,009	7	PVC	EPDM	Ceramics	No	DDC 9-7 AR-PVC/E/C-F-31U2U2FG	97 72 14 35	593,10
9,0	0,009	7	PVC	EPDM	Ceramics	Yes	DDC 9-7 AR-PVC/E/C-F-32U2U2FG	97 72 14 37	604,50
9,0	0,009	7	PVC	FKM	Ceramics	No	DDC 9-7 AR-PVCN/C-F-31U2U2FG	97 72 14 39	593,10
9,0	0,009	7	PVC	FKM	Ceramics	Yes	DDC 9-7 AR-PVCN/C-F-32U2U2FG	97 72 14 41	604,50
9,0	0,009	7	PVC	PTFE	Ceramics	No	DDC 9-7 AR-PVC/T/C-F-31U2U2FG	97 72 14 43	655,50
9,0	0,009	7	PVC	PTFE	Ceramics	Yes	DDC 9-7 AR-PVC/T/C-F-32U2U2FG	97 72 14 45	666,90
9,0	0,009	7	PVDF	EPDM	Ceramics	No	DDC 9-7 AR-PV/E/C-F-31U2U2FG	97 72 14 47	645,60
9,0	0,009	7	PVDF	EPDM	Ceramics	Yes	DDC 9-7 AR-PV/E/C-F-32U2U2FG	97 72 14 49	657,00
9,0	0,009	7	PVDF	FKM	Ceramics	No	DDC 9-7 AR-PVN/C-F-31U2U2FG	97 72 14 51	645,60
9,0	0,009	7	PVDF	FKM	Ceramics	Yes	DDC 9-7 AR-PVN/C-F-32U2U2FG	97 72 14 53	657,00
9,0	0,009	7	PVDF	PTFE	Ceramics	No	DDC 9-7 AR-PV/T/C-F-31U2U2FG	97 72 14 55	708,00
9,0	0,009	7	PVDF	PTFE	Ceramics	Yes	DDC 9-7 AR-PV/T/C-F-32U2U2FG	97 72 14 57	719,40
9,0	0,009	7	Stainless Steel	PTFE	Stainless Steel	No	DDC 9-7 AR-SS/T/SS-F-31AAFG	97 72 14 59	1.036,50
9,0	0,009	7	Stainless Steel	PTFE	Stainless Steel	Yes	DDC 9-7 AR-SS/T/SS-F-32AAFG	97 72 14 60	1.047,90
15,0	0,015	4	PP	EPDM	Ceramics	No	DDC 15-4 AR-PP/E/C-F-31U2U2FG	97 72 14 95	675,15
15,0	0,015	4	PP	EPDM	Ceramics	Yes	DDC 15-4 AR-PP/E/C-F-32U2U2FG	97 72 14 97	686,55
15,0	0,015	4	PP	FKM	Ceramics	No	DDC 15-4 AR-PPN/C-F-31U2U2FG	97 72 14 99	675,15
15,0	0,015	4	PP	FKM	Ceramics	Yes	DDC 15-4 AR-PPN/C-F-32U2U2FG	97 72 15 01	686,55
15,0	0,015	4	PVC	EPDM	Ceramics	No	DDC 15-4 AR-PVC/E/C-F-31U2U2FG	97 72 15 03	691,65
15,0	0,015	4	PVC	EPDM	Ceramics	Yes	DDC 15-4 AR-PVC/E/C-F-32U2U2FG	97 72 15 05	703,05
15,0	0,015	4	PVC	FKM	Ceramics	No	DDC 15-4 AR-PVCN/C-F-31U2U2FG	97 72 15 07	691,65
15,0	0,015	4	PVC	FKM	Ceramics	Yes	DDC 15-4 AR-PVCN/C-F-32U2U2FG	97 72 15 09	703,05
15,0	0,015	4	PVC	PTFE	Ceramics	No	DDC 15-4 AR-PVC/T/C-F-31U2U2FG	97 72 15 11	754,05
15,0	0,015	4	PVC	PTFE	Ceramics	Yes	DDC 15-4 AR-PVC/T/C-F-32U2U2FG	97 72 15 13	765,45
15,0	0,015	4	PVDF	EPDM	Ceramics	No	DDC 15-4 AR-PV/E/C-F-31U2U2FG	97 72 15 15	744,15
15,0	0,015	4	PVDF	EPDM	Ceramics	Yes	DDC 15-4 AR-PV/E/C-F-32U2U2FG	97 72 15 17	755,55
15,0	0,015	4	PVDF	FKM	Ceramics	No	DDC 15-4 AR-PVN/C-F-31U2U2FG	97 72 15 19	744,15
15,0	0,015	4	PVDF	FKM	Ceramics	Yes	DDC 15-4 AR-PVN/C-F-32U2U2FG	97 72 15 21	755,55
15,0	0,015	4	PVDF	PTFE	Ceramics	No	DDC 15-4 AR-PV/T/C-F-31U2U2FG	97 72 15 23	806,55
15,0	0,015	4	PVDF	PTFE	Ceramics	Yes	DDC 15-4 AR-PV/T/C-F-32U2U2FG	97 72 15 25	817,95
15,0	0,015	4	Stainless Steel	PTFE	Stainless Steel	No	DDC 15-4 AR-SS/T/SS-F-31AAFG	97 72 15 27	1.135,05
15,0	0,015	4	Stainless Steel	PTFE	Stainless Steel	Yes	DDC 15-4 AR-SS/T/SS-F-32AAFG	97 72 15 28	1.146,45

¹⁾ Viscosity limits: see type description above

Digital diaphragm dosing pump with variable-speed drive (stepper motor), settings with user-friendly click-wheel, graphical display with background light in four colours for status (warning: yellow; alarm:red; operation:green; settings:white) with multi-language plain text menu, universal chemical resistance due to full-PTFE diaphragm, click-stop mounting plate allows installation in three different positions

Control variant DDA-AR: manual operation, proportional control (pulse or analog), batch function (pulse/timer cycle or week)

Main functions: Automatic deaeration, anti-cavitation function (extended suction stroke length: 100 %, 50 %, 25 %), calibration, service menu, scaling of analog input, adjustable output relay

Inputs: ext. start/stop, pulse signal, analog signal, 2 level inputs

outputs: 2 output relay for alarm warning operation stroke signal, scaling of analog output, onnection option profibus e-box

Setting range: 1:3000 (DDA 7,5 – 16); 1:1000 (DDA 12 – 10; 17 – 7; 30 – 4)

Accuracy of repeatability: ± 1 %

Medium temperature: -10 to +45 °C (for PVDF and stainless steel higher temp. on request)

Supply voltage: 1 x 110 – 240 VAC, 50 – 60 Hz, IP65, 1,5 m cable with EU (Schuko) plug

Max. suction lift (operating): 6 m

Max. viscosity wo. spring-loaded valves: DDA 7.5-16: 50 mPas; DDA 12-10/17-7: 300 mPas; DDA 30-4: 150 mPas;

Max. viscosity with spring-loaded valves: DDA 7.5-16/12-10: 2500 mPas; DDA 17-7: 2000 mPas; DDA 30-4: 1500 mPas

Connection set (PP/PVC/PVDF): hose 4/6 mm, 6/9 mm, 6/12 mm, 9/12 mm

Connection set stainless steel variant: internal thread Rp ¼"

Options: Profibus DP

Extension module for digital in/outputs

DDA AR - display position: front (mountable to left/right) (Product Group: DD)

Performance Max. Q [l/h]	Performance Min. Q [l/h]	Performance Max. p [bar]	Material of Pump Head	Material of Sealing	Material of Valve Ball	Spring loaded valve	Name Code	Control Option DDA-AR Product-No.	EUR
7,5	0,0025	16	PP	EPDM	Ceramics	No	DDA 7.5-16 AR-PP/E/C-F-31U2U2FG	97 72 19 38	777,90
7,5	0,0025	16	PP	EPDM	Ceramics	Yes	DDA 7.5-16 AR-PP/E/C-F-32U2U2FG	97 72 19 40	789,30
7,5	0,0025	16	PP	FKM	Ceramics	No	DDA 7.5-16 AR-PP/V/C-F-31U2U2FG	97 72 19 42	777,90
7,5	0,0025	16	PP	FKM	Ceramics	Yes	DDA 7.5-16 AR-PP/V/C-F-32U2U2FG	97 72 19 44	789,30
7,5	0,0025	16	PVC*	EPDM	Ceramics	No	DDA 7.5-16 AR-PVC/E/C-F-31U2U2FG	97 72 19 46	794,40
7,5	0,0025	16	PVC*	EPDM	Ceramics	Yes	DDA 7.5-16 AR-PVC/E/C-F-32U2U2FG	97 72 19 48	805,80
7,5	0,0025	16	PVC*	FKM	Ceramics	No	DDA 7.5-16 AR-PVC/V/C-F-31U2U2FG	97 72 19 50	794,40
7,5	0,0025	16	PVC*	FKM	Ceramics	Yes	DDA 7.5-16 AR-PVC/V/C-F-32U2U2FG	97 72 19 52	805,80
7,5	0,0025	16	PVC*	PTFE	Ceramics	No	DDA 7.5-16 AR-PVC/T/C-F-31U2U2FG	97 72 19 54	856,80
7,5	0,0025	16	PVC*	PTFE	Ceramics	Yes	DDA 7.5-16 AR-PVC/T/C-F-32U2U2FG	97 72 19 56	868,20
7,5	0,0025	16	PVDF	EPDM	Ceramics	No	DDA 7.5-16 AR-PV/E/C-F-31U2U2FG	97 72 19 58	846,90
7,5	0,0025	16	PVDF	EPDM	Ceramics	Yes	DDA 7.5-16 AR-PV/E/C-F-32U2U2FG	97 72 19 60	858,30
7,5	0,0025	16	PVDF	FKM	Ceramics	No	DDA 7.5-16 AR-PV/V/C-F-31U2U2FG	97 72 19 62	846,90
7,5	0,0025	16	PVDF	FKM	Ceramics	Yes	DDA 7.5-16 AR-PV/V/C-F-32U2U2FG	97 72 19 64	858,30
7,5	0,0025	16	PVDF	PTFE	Ceramics	No	DDA 7.5-16 AR-PV/T/C-F-31U2U2FG	97 72 19 66	909,30
7,5	0,0025	16	PVDF	PTFE	Ceramics	Yes	DDA 7.5-16 AR-PV/T/C-F-32U2U2FG	97 72 19 68	920,70
7,5	0,0025	16	Stainless Steel	PTFE	Stainless Steel	No	DDA 7.5-16 AR-SS/T/SS-F-31AAF	97 72 19 70	1.237,80
7,5	0,0025	16	Stainless Steel	PTFE	Stainless Steel	Yes	DDA 7.5-16 AR-SS/T/SS-F-32AAF	97 72 19 71	1.249,20
12,0	0,012	10	PP	EPDM	Ceramics	No	DDA 12-10 AR-PP/E/C-F-31U2U2FG	97 72 20 40	881,40
12,0	0,012	10	PP	EPDM	Ceramics	Yes	DDA 12-10 AR-PP/E/C-F-32U2U2FG	97 72 20 42	892,80
12,0	0,012	10	PP	FKM	Ceramics	No	DDA 12-10 AR-PP/V/C-F-31U2U2FG	97 72 20 44	881,40
12,0	0,012	10	PP	FKM	Ceramics	Yes	DDA 12-10 AR-PP/V/C-F-32U2U2FG	97 72 20 46	892,80
12,0	0,012	10	PVC	EPDM	Ceramics	No	DDA 12-10 AR-PVC/E/C-F-31U2U2FG	97 72 20 48	897,90
12,0	0,012	10	PVC	EPDM	Ceramics	Yes	DDA 12-10 AR-PVC/E/C-F-32U2U2FG	97 72 20 50	909,30
12,0	0,012	10	PVC	FKM	Ceramics	No	DDA 12-10 AR-PVC/V/C-F-31U2U2FG	97 72 20 52	897,90
12,0	0,012	10	PVC	FKM	Ceramics	Yes	DDA 12-10 AR-PVC/V/C-F-32U2U2FG	97 72 20 54	909,30
12,0	0,012	10	PVC	PTFE	Ceramics	No	DDA 12-10 AR-PVC/T/C-F-31U2U2FG	97 72 20 56	960,30
12,0	0,012	10	PVC	PTFE	Ceramics	Yes	DDA 12-10 AR-PVC/T/C-F-32U2U2FG	97 72 20 58	971,70
12,0	0,012	10	PVDF	EPDM	Ceramics	No	DDA 12-10 AR-PV/E/C-F-31U2U2FG	97 72 20 60	950,40
12,0	0,012	10	PVDF	EPDM	Ceramics	Yes	DDA 12-10 AR-PV/E/C-F-32U2U2FG	97 72 20 62	961,80
12,0	0,012	10	PVDF	FKM	Ceramics	No	DDA 12-10 AR-PV/V/C-F-31U2U2FG	97 72 20 64	950,40
12,0	0,012	10	PVDF	FKM	Ceramics	Yes	DDA 12-10 AR-PV/V/C-F-32U2U2FG	97 72 20 66	961,80
12,0	0,012	10	PVDF	PTFE	Ceramics	No	DDA 12-10 AR-PV/T/C-F-31U2U2FG	97 72 20 68	1.012,80
12,0	0,012	10	PVDF	PTFE	Ceramics	Yes	DDA 12-10 AR-PV/T/C-F-32U2U2FG	97 72 20 70	1.024,20
12,0	0,012	10	Stainless Steel	PTFE	Stainless Steel	No	DDA 12-10 AR-SS/T/SS-F-31AAF	97 72 20 72	1.341,30
12,0	0,012	10	Stainless Steel	PTFE	Stainless Steel	Yes	DDA 12-10 AR-SS/T/SS-F-32AAF	97 72 20 73	1.352,70

¹⁾ Viscosity limits: see type description above

DDA-AR (0 – 30 l/h) (Product Group: DD)

Performance Max. Q [l/h]	Performance Min. Q [l/h]	Performance Max. p [bar]	Material of Pump Head	Material of Sealing	Material of Valve Ball	Spring loaded valve	Name Code	Control Option DDA-AR Product-No.	EUR
17,0	0,017	7	PP	EPDM	Ceramics	No	DDA 17-7 AR-PP/E/C-F-31U2U2FG	97 72 21 42	881,40
17,0	0,017	7	PP	EPDM	Ceramics	Yes	DDA 17-7 AR-PP/E/C-F-32U2U2FG	97 72 21 44	892,80
17,0	0,017	7	PP	FKM	Ceramics	No	DDA 17-7 AR-PP/N/C-F-31U2U2FG	97 72 21 46	881,40
17,0	0,017	7	PP	FKM	Ceramics	Yes	DDA 17-7 AR-PP/N/C-F-32U2U2FG	97 72 21 48	892,80
17,0	0,017	7	PVC	EPDM	Ceramics	No	DDA 17-7 AR-PVC/E/C-F-31U2U2FG	97 72 21 50	897,90
17,0	0,017	7	PVC	EPDM	Ceramics	Yes	DDA 17-7 AR-PVC/E/C-F-32U2U2FG	97 72 21 52	909,30
17,0	0,017	7	PVC	FKM	Ceramics	No	DDA 17-7 AR-PVC/N/C-F-31U2U2FG	97 72 21 54	897,90
17,0	0,017	7	PVC	FKM	Ceramics	Yes	DDA 17-7 AR-PVC/N/C-F-32U2U2FG	97 72 21 56	909,30
17,0	0,017	7	PVC	PTFE	Ceramics	No	DDA 17-7 AR-PVC/T/C-F-31U2U2FG	97 72 21 58	960,30
17,0	0,017	7	PVC	PTFE	Ceramics	Yes	DDA 17-7 AR-PVC/T/C-F-32U2U2FG	97 72 21 60	971,70
17,0	0,017	7	PVDF	EPDM	Ceramics	No	DDA 17-7 AR-PV/E/C-F-31U2U2FG	97 72 21 62	950,40
17,0	0,017	7	PVDF	EPDM	Ceramics	Yes	DDA 17-7 AR-PV/E/C-F-32U2U2FG	97 72 21 64	961,80
17,0	0,017	7	PVDF	FKM	Ceramics	No	DDA 17-7 AR-PV/N/C-F-31U2U2FG	97 72 21 66	950,40
17,0	0,017	7	PVDF	FKM	Ceramics	Yes	DDA 17-7 AR-PV/N/C-F-32U2U2FG	97 72 21 68	961,80
17,0	0,017	7	PVDF	PTFE	Ceramics	No	DDA 17-7 AR-PV/T/C-F-31U2U2FG	97 72 21 70	1.012,80
17,0	0,017	7	PVDF	PTFE	Ceramics	Yes	DDA 17-7 AR-PV/T/C-F-32U2U2FG	97 72 21 72	1.024,20
17,0	0,017	7	Stainless Steel	PTFE	Stainless Steel	No	DDA 17-7 AR-SS/T/SS-F-31AAFG	97 72 21 74	1.341,30
17,0	0,017	7	Stainless Steel	PTFE	Stainless Steel	Yes	DDA 17-7 AR-SS/T/SS-F-32AAFG	97 72 21 75	1.352,70
30,0	0,03	4	PP	EPDM	Ceramics	No	DDA 30-4 AR-PP/E/C-F-31U2U2FG	97 72 22 44	967,50
30,0	0,03	4	PP	EPDM	Ceramics	Yes	DDA 30-4 AR-PP/E/C-F-32U2U2FG	97 72 22 46	978,90
30,0	0,03	4	PP	FKM	Ceramics	No	DDA 30-4 AR-PP/N/C-F-31U2U2FG	97 72 22 48	967,50
30,0	0,03	4	PP	FKM	Ceramics	Yes	DDA 30-4 AR-PP/N/C-F-32U2U2FG	97 72 22 50	978,90
30,0	0,03	4	PVC	EPDM	Ceramics	No	DDA 30-4 AR-PVC/E/C-F-31U2U2FG	97 72 22 52	984,00
30,0	0,03	4	PVC	EPDM	Ceramics	Yes	DDA 30-4 AR-PVC/E/C-F-32U2U2FG	97 72 22 54	995,40
30,0	0,03	4	PVC	FKM	Ceramics	No	DDA 30-4 AR-PVC/N/C-F-31U2U2FG	97 72 22 56	984,00
30,0	0,03	4	PVC	FKM	Ceramics	Yes	DDA 30-4 AR-PVC/N/C-F-32U2U2FG	97 72 22 58	995,40
30,0	0,03	4	PVC	PTFE	Ceramics	No	DDA 30-4 AR-PVC/T/C-F-31U2U2FG	97 72 22 60	1.046,40
30,0	0,03	4	PVC	PTFE	Ceramics	Yes	DDA 30-4 AR-PVC/T/C-F-32U2U2FG	97 72 22 62	1.057,80
30,0	0,03	4	PVDF	EPDM	Ceramics	No	DDA 30-4 AR-PV/E/C-F-31U2U2FG	97 72 22 64	1.036,50
30,0	0,03	4	PVDF	EPDM	Ceramics	Yes	DDA 30-4 AR-PV/E/C-F-32U2U2FG	97 72 22 66	1.047,90
30,0	0,03	4	PVDF	FKM	Ceramics	No	DDA 30-4 AR-PV/N/C-F-31U2U2FG	97 72 22 68	1.036,50
30,0	0,03	4	PVDF	FKM	Ceramics	Yes	DDA 30-4 AR-PV/N/C-F-32U2U2FG	97 72 22 70	1.047,90
30,0	0,03	4	PVDF	PTFE	Ceramics	No	DDA 30-4 AR-PV/T/C-F-31U2U2FG	97 72 22 72	1.098,90
30,0	0,03	4	PVDF	PTFE	Ceramics	Yes	DDA 30-4 AR-PV/T/C-F-32U2U2FG	97 72 22 74	1.110,30
30,0	0,03	4	Stainless Steel	PTFE	Stainless Steel	No	DDA 30-4 AR-SS/T/SS-F-31AAFG	97 72 22 76	1.427,40
30,0	0,03	4	Stainless Steel	PTFE	Stainless Steel	Yes	DDA 30-4 AR-SS/T/SS-F-32AAFG	97 72 22 77	1.438,80

¹⁾ Viscosity limits: see type description above

²⁾ PVC dosing head for max. 10 bar

Digital diaphragm dosing pump with variable-speed drive (stepper motor), settings with user-friendly click-wheel, graphical display with background light in four colours for status (warning: yellow; alarm:red; operation:green; settings:white) with multi-language plain text menu, universal chemical resistance due to full-PTFE diaphragm, click-stop mounting plate allows installation in three different positions

Control variant DDA-AR: manual operation, proportional control (pulse or analog), batch function (pulse/timer cycle or week)

Main functions: **FlowControl FC (selective dosing malfunction detection eith pressure monitoring min/max)**

Automatic deaeration, anti-cavitation function (extended suction stroke length: 100 %, 50 %, 25 %), calibration, service menu, scaling of analog input, adjustable output relay

Inputs: ext. start/stop, pulse signal, analog signal, 2 level inputs

Outputs: 2 output relay for alarm/warning/operation/stroke signal, scaling of analog output

for pressure or flowrate, connection option for Profibus e-box

Setting range: 1:3000 (DDA 7,5 – 16); 1:1000 (DDA 12 – 10; 17 – 7; 30 – 4) Accuracy of repeatability: ± 1 %

Medium temperature: -10 to +45 °C (for PVDF and stainless steel higher temp. on request)

Supply voltage: 1 x 110 – 240 VAC, 50 – 60 Hz, IP65, 1,5 m cable with EU (Schuko) plug

Max. suction lift (operating): 6 m

Max. viscosity wo. spring-loaded valves: DDA 7.5-16: 50 mPas; DDA 12-10/17-7: 300 mPas; DDA 30-4: 150 mPas;

Max. viscosity with spring-loaded valves: DDA 7.5-16/12-10: 2500 mPas; DDA 17-7: 2000 mPas; DDA 30-4: 1500 mPas

Connection set (PP/PVC/PVDF): hose 4/6 mm, 6/9 mm, 6/12 mm, 9/12 mm

Connection set stainless steel variant: internal thread Rp ¼"

Options: Profibus DP

Extension module for digital in/outputs

DDA-FC - display position: front (mountable to left/right) (Product Group: DD)

Performance Max. Q [l/h]	Performance Min. Q [l/h]	Performance Max. p [bar]	Material of Pump Head	Material of Sealing	Material of Valve Ball	Spring loaded valve	Name Code	Control Option DDA-FC Product-No.	EUR
7,5	0,0025	16	PP	EPDM	Ceramics	No	DDA 7.5-16 FC-PP/E/C-F-31U2U2FG	97 72 19 72	975,00
7,5	0,0025	16	PP	EPDM	Ceramics	Yes	DDA 7.5-16 FC-PP/E/C-F-32U2U2FG	97 72 19 74	986,40
7,5	0,0025	16	PP	FKM	Ceramics	No	DDA 7.5-16 FC-PP/V/C-F-31U2U2FG	97 72 19 76	975,00
7,5	0,0025	16	PP	FKM	Ceramics	Yes	DDA 7.5-16 FC-PP/V/C-F-32U2U2FG	97 72 19 78	986,40
7,5	0,0025	16	PVC*	EPDM	Ceramics	No	DDA 7.5-16 FC-PVC/E/C-F-31U2U2FG	97 72 19 80	991,50
7,5	0,0025	16	PVC*	EPDM	Ceramics	Yes	DDA 7.5-16 FC-PVC/E/C-F-32U2U2FG	97 72 19 82	1.002,90
7,5	0,0025	16	PVC*	FKM	Ceramics	No	DDA 7.5-16 FC-PVC/V/C-F-31U2U2FG	97 72 19 84	991,50
7,5	0,0025	16	PVC*	FKM	Ceramics	Yes	DDA 7.5-16 FC-PVC/V/C-F-32U2U2FG	97 72 19 86	1.002,90
7,5	0,0025	16	PVC*	PTFE	Ceramics	No	DDA 7.5-16 FC-PVC/T/C-F-31U2U2FG	97 72 19 88	1.053,90
7,5	0,0025	16	PVC*	PTFE	Ceramics	Yes	DDA 7.5-16 FC-PVC/T/C-F-32U2U2FG	97 72 19 90	1.065,30
7,5	0,0025	16	PVDF	EPDM	Ceramics	No	DDA 7.5-16 FC-PV/E/C-F-31U2U2FG	97 72 19 92	1.044,00
7,5	0,0025	16	PVDF	EPDM	Ceramics	Yes	DDA 7.5-16 FC-PV/E/C-F-32U2U2FG	97 72 19 94	1.055,40
7,5	0,0025	16	PVDF	FKM	Ceramics	No	DDA 7.5-16 FC-PV/V/C-F-31U2U2FG	97 72 19 96	1.044,00
7,5	0,0025	16	PVDF	FKM	Ceramics	Yes	DDA 7.5-16 FC-PV/V/C-F-32U2U2FG	97 72 19 98	1.055,40
7,5	0,0025	16	PVDF	PTFE	Ceramics	No	DDA 7.5-16 FC-PV/T/C-F-31U2U2FG	97 72 20 00	1.106,40
7,5	0,0025	16	PVDF	PTFE	Ceramics	Yes	DDA 7.5-16 FC-PV/T/C-F-32U2U2FG	97 72 20 02	1.117,80
7,5	0,0025	16	Stainless Steel	PTFE	Stainless Steel	No	DDA 7.5-16 FC-SS/T/SS-F-31AAFG	97 72 20 04	1.434,90
7,5	0,0025	16	Stainless Steel	PTFE	Stainless Steel	Yes	DDA 7.5-16 FC-SS/T/SS-F-32AAFG	97 72 20 05	1.446,30
12,0	0,012	10	PP	EPDM	Ceramics	No	DDA 12-10 FC-PP/E/C-F-31U2U2FG	97 72 20 74	1.078,50
12,0	0,012	10	PP	EPDM	Ceramics	Yes	DDA 12-10 FC-PP/E/C-F-32U2U2FG	97 72 20 76	1.089,90
12,0	0,012	10	PP	FKM	Ceramics	No	DDA 12-10 FC-PP/V/C-F-31U2U2FG	97 72 20 78	1.078,50
12,0	0,012	10	PP	FKM	Ceramics	Yes	DDA 12-10 FC-PP/V/C-F-32U2U2FG	97 72 20 80	1.089,90
12,0	0,012	10	PVC	EPDM	Ceramics	No	DDA 12-10 FC-PVC/E/C-F-31U2U2FG	97 72 20 82	1.095,00
12,0	0,012	10	PVC	EPDM	Ceramics	Yes	DDA 12-10 FC-PVC/E/C-F-32U2U2FG	97 72 20 84	1.106,40
12,0	0,012	10	PVC	FKM	Ceramics	No	DDA 12-10 FC-PVC/V/C-F-31U2U2FG	97 72 20 86	1.095,00
12,0	0,012	10	PVC	FKM	Ceramics	Yes	DDA 12-10 FC-PVC/V/C-F-32U2U2FG	97 72 20 88	1.106,40
12,0	0,012	10	PVC	PTFE	Ceramics	No	DDA 12-10 FC-PVC/T/C-F-31U2U2FG	97 72 20 90	1.157,40
12,0	0,012	10	PVC	PTFE	Ceramics	Yes	DDA 12-10 FC-PVC/T/C-F-32U2U2FG	97 72 20 92	1.168,80
12,0	0,012	10	PVDF	EPDM	Ceramics	No	DDA 12-10 FC-PV/E/C-F-31U2U2FG	97 72 20 94	1.147,50
12,0	0,012	10	PVDF	EPDM	Ceramics	Yes	DDA 12-10 FC-PV/E/C-F-32U2U2FG	97 72 20 96	1.158,90
12,0	0,012	10	PVDF	FKM	Ceramics	No	DDA 12-10 FC-PV/V/C-F-31U2U2FG	97 72 20 98	1.147,50
12,0	0,012	10	PVDF	FKM	Ceramics	Yes	DDA 12-10 FC-PV/V/C-F-32U2U2FG	97 72 21 00	1.158,90
12,0	0,012	10	PVDF	PTFE	Ceramics	No	DDA 12-10 FC-PV/T/C-F-31U2U2FG	97 72 21 02	1.209,90
12,0	0,012	10	PVDF	PTFE	Ceramics	Yes	DDA 12-10 FC-PV/T/C-F-32U2U2FG	97 72 21 04	1.221,30
12,0	0,012	10	Stainless Steel	PTFE	Stainless Steel	No	DDA 12-10 FC-SS/T/SS-F-31AAFG	97 72 21 06	1.538,40
12,0	0,012	10	Stainless Steel	PTFE	Stainless Steel	Yes	DDA 12-10 FC-SS/T/SS-F-32AAFG	97 72 21 07	1.549,80

¹⁾ Viscosity limits: see type description above

²⁾ PVC dosing head for max. 10 bar

DDA-FC (0 – 30 l/h) (Product Group: DD)

Performance Max. Q [l/h]	Performance Min. Q [l/h]	Performance Max. p [bar]	Material of Pump Head	Material of Sealing	Material of Valve Ball	Spring loaded valve	Name Code	Control Option DDA-FC Product-No.	EUR
17,0	0,017	7	PP	EPDM	Ceramics	No	DDA 17-7 FC-PP/E/C-F-31U2U2FG	97 72 21 76	1.078,50
17,0	0,017	7	PP	EPDM	Ceramics	Yes	DDA 17-7 FC-PP/E/C-F-32U2U2FG	97 72 21 78	1.089,90
17,0	0,017	7	PP	FKM	Ceramics	No	DDA 17-7 FC-PPN/C-F-31U2U2FG	97 72 21 80	1.078,50
17,0	0,017	7	PP	FKM	Ceramics	Yes	DDA 17-7 FC-PPN/C-F-32U2U2FG	97 72 21 82	1.089,90
17,0	0,017	7	PVC	EPDM	Ceramics	No	DDA 17-7 FC-PVC/E/C-F-31U2U2FG	97 72 21 84	1.095,00
17,0	0,017	7	PVC	EPDM	Ceramics	Yes	DDA 17-7 FC-PVC/E/C-F-32U2U2FG	97 72 21 86	1.106,40
17,0	0,017	7	PVC	FKM	Ceramics	No	DDA 17-7 FC-PVCN/C-F-31U2U2FG	97 72 21 88	1.095,00
17,0	0,017	7	PVC	FKM	Ceramics	Yes	DDA 17-7 FC-PVCN/C-F-32U2U2FG	97 72 21 90	1.106,40
17,0	0,017	7	PVC	PTFE	Ceramics	No	DDA 17-7 FC-PVC/T/C-F-31U2U2FG	97 72 21 92	1.157,40
17,0	0,017	7	PVC	PTFE	Ceramics	Yes	DDA 17-7 FC-PVC/T/C-F-32U2U2FG	97 72 21 94	1.168,80
17,0	0,017	7	PVDF	EPDM	Ceramics	No	DDA 17-7 FC-PV/E/C-F-31U2U2FG	97 72 21 96	1.147,50
17,0	0,017	7	PVDF	EPDM	Ceramics	Yes	DDA 17-7 FC-PV/E/C-F-32U2U2FG	97 72 21 98	1.158,90
17,0	0,017	7	PVDF	FKM	Ceramics	No	DDA 17-7 FC-PVN/C-F-31U2U2FG	97 72 22 00	1.147,50
17,0	0,017	7	PVDF	FKM	Ceramics	Yes	DDA 17-7 FC-PVN/C-F-32U2U2FG	97 72 22 02	1.158,90
17,0	0,017	7	PVDF	PTFE	Ceramics	No	DDA 17-7 FC-PV/T/C-F-31U2U2FG	97 72 22 04	1.209,90
17,0	0,017	7	PVDF	PTFE	Ceramics	Yes	DDA 17-7 FC-PV/T/C-F-32U2U2FG	97 72 22 06	1.221,30
17,0	0,017	7	Stainless Steel	PTFE	Stainless Steel	No	DDA 17-7 FC-SS/T/SS-F-31AAFG	97 72 22 08	1.538,40
17,0	0,017	7	Stainless Steel	PTFE	Stainless Steel	Yes	DDA 17-7 FC-SS/T/SS-F-32AAFG	97 72 22 09	1.549,80
30,0	0,03	4	PP	EPDM	Ceramics	No	DDA 30-4 FC-PP/E/C-F-31U2U2FG	97 72 22 78	1.164,60
30,0	0,03	4	PP	EPDM	Ceramics	Yes	DDA 30-4 FC-PP/E/C-F-32U2U2FG	97 72 22 80	1.176,00
30,0	0,03	4	PP	FKM	Ceramics	No	DDA 30-4 FC-PPN/C-F-31U2U2FG	97 72 22 82	1.164,60
30,0	0,03	4	PP	FKM	Ceramics	Yes	DDA 30-4 FC-PPN/C-F-32U2U2FG	97 72 22 84	1.176,00
30,0	0,03	4	PVC	EPDM	Ceramics	No	DDA 30-4 FC-PVC/E/C-F-31U2U2FG	97 72 22 86	1.181,10
30,0	0,03	4	PVC	EPDM	Ceramics	Yes	DDA 30-4 FC-PVC/E/C-F-32U2U2FG	97 72 22 89	1.192,50
30,0	0,03	4	PVC	FKM	Ceramics	No	DDA 30-4 FC-PVCN/C-F-31U2U2FG	97 72 22 91	1.181,10
30,0	0,03	4	PVC	FKM	Ceramics	Yes	DDA 30-4 FC-PVCN/C-F-32U2U2FG	97 72 22 93	1.192,50
30,0	0,03	4	PVC	PTFE	Ceramics	No	DDA 30-4 FC-PVC/T/C-F-31U2U2FG	97 72 22 95	1.243,50
30,0	0,03	4	PVC	PTFE	Ceramics	Yes	DDA 30-4 FC-PVC/T/C-F-32U2U2FG	97 72 22 97	1.254,90
30,0	0,03	4	PVDF	EPDM	Ceramics	No	DDA 30-4 FC-PV/E/C-F-31U2U2FG	97 72 22 99	1.233,60
30,0	0,03	4	PVDF	EPDM	Ceramics	Yes	DDA 30-4 FC-PV/E/C-F-32U2U2FG	97 72 23 01	1.245,00
30,0	0,03	4	PVDF	FKM	Ceramics	No	DDA 30-4 FC-PVN/C-F-31U2U2FG	97 72 23 03	1.233,60
30,0	0,03	4	PVDF	FKM	Ceramics	Yes	DDA 30-4 FC-PVN/C-F-32U2U2FG	97 72 23 05	1.245,00
30,0	0,03	4	PVDF	PTFE	Ceramics	No	DDA 30-4 FC-PV/T/C-F-31U2U2FG	97 72 23 07	1.296,00
30,0	0,03	4	PVDF	PTFE	Ceramics	Yes	DDA 30-4 FC-PV/T/C-F-32U2U2FG	97 72 23 09	1.307,40
30,0	0,03	4	Stainless Steel	PTFE	Stainless Steel	No	DDA 30-4 FC-SS/T/SS-F-31AAFG	97 72 23 11	1.624,50
30,0	0,03	4	Stainless Steel	PTFE	Stainless Steel	Yes	DDA 30-4 FC-SS/T/SS-F-32AAFG	97 72 23 12	1.635,90

¹⁾ Viscosity limits: see type description above

²⁾ PVC dosing head for max. 10 bar

Digital diaphragm dosing pump with variable-speed drive (stepper motor), settings with user-friendly click-wheel, graphical display with background light in four colours for status (warning: yellow; alarm:red; operation:green; settings:white) with multi-language plain text menu, universal chemical resistance due to full-PTFE diaphragm, click-stop mounting plate allows installation in three different positions

Control variant DDA-AR: manual operation, proportional control (pulse or analog), batch function (pulse/timer cycle or week)

Main functions: **Flow Control Management FCM (selective dosing malfunction detection, integr. flowrate calculation, automatic adjustment of the pump speed according to the process conditions to maintain target flow, pressure monitoring min/max)**

Automatic deaeration, anti-cavitation function (extended suction stroke length: 100 %, 50 %, 25 %), calibration, service menu, scaling of analog input, adjustable output relay settings

Inputs: ext. start/stop, pulse signal, analog signal, 2 level inputs

Outputs: 2 output relay for alarm/warning/operation/stroke signal, scaling of analog output signal for pressure or flowrate, connection option for Profibus e-bus

Setting range: 1:3000 (DDA 7.5 – 16); 1:1000 (DDA 12 – 10; 17 – 7; 30 – 4)

Accuracy of repeatability: ± 1 %

Medium temperature: -10 to +45 °C (for PVDF and stainless steel higher temp. on request)

Supply voltage: 1 x 110 – 240 VAC, 50 – 60 Hz, IP65, 1,5 m cable with EU (Schuko) plug

Max. suction lift (operating): 6 m

Max. viscosity wo. spring-loaded valves: DDA 7.5-16: 50 mPas; DDA 12-10/17-7: 300 mPas; DDA 30-4: 150 mPas;

max. viscosity with spring-loaded valves: dda 7.5-16 12-10: 2500 mpas; 17-7: 2000 30-4: 1500 mpas

Connection set (PP/PVC/PVDF): hose 4/6 mm, 6/9 mm, 6/12 mm, 9/12 mm

Connection set stainless steel variant: internal thread Rp ¼"

Options: Profibus DP

Extension module for digital in/outputs

DDA-FCM - Display position: front (mountable to left/right) (Product Group: DD)

Performance Max. Q [l/h]	Performance Min. Q [l/h]	Performance Max. p [bar]	Material of Pump Head	Material of Sealing	Material of Valve Ball	Spring loaded valve	Name Code	Control Option DDA- FCM Product-No.	EUR
7,5	0,0025	16	PP	EPDM	Ceramics	No	DDA 7.5-16 FCM-PP/E/C-F-31U2U2FG	97 72 20 06	1.147,50
7,5	0,0025	16	PP	EPDM	Ceramics	Yes	DDA 7.5-16 FCM-PP/E/C-F-32U2U2FG	97 72 20 08	1.158,90
7,5	0,0025	16	PP	FKM	Ceramics	No	DDA 7.5-16 FCM-PP/V/C-F-31U2U2FG	97 72 20 10	1.147,50
7,5	0,0025	16	PP	FKM	Ceramics	Yes	DDA 7.5-16 FCM-PP/V/C-F-32U2U2FG	97 72 20 12	1.158,90
7,5	0,0025	16	PVC*	EPDM	Ceramics	No	DDA 7.5-16 FCM-PVC/E/C-F-31U2U2FG	97 72 20 14	1.164,00
7,5	0,0025	16	PVC*	EPDM	Ceramics	Yes	DDA 7.5-16 FCM-PVC/E/C-F-32U2U2FG	97 72 20 16	1.175,40
7,5	0,0025	16	PVC*	FKM	Ceramics	No	DDA 7.5-16 FCM-PVC/V/C-F-31U2U2FG	97 72 20 18	1.164,00
7,5	0,0025	16	PVC*	FKM	Ceramics	Yes	DDA 7.5-16 FCM-PVC/V/C-F-32U2U2FG	97 72 20 20	1.175,40
7,5	0,0025	16	PVC*	PTFE	Ceramics	No	DDA 7.5-16 FCM-PVC/T/C-F-31U2U2FG	97 72 20 22	1.226,40
7,5	0,0025	16	PVC*	PTFE	Ceramics	Yes	DDA 7.5-16 FCM-PVC/T/C-F-32U2U2FG	97 72 20 24	1.237,80
7,5	0,0025	16	PVDF	EPDM	Ceramics	No	DDA 7.5-16 FCM-PV/E/C-F-31U2U2FG	97 72 20 26	1.216,50
7,5	0,0025	16	PVDF	EPDM	Ceramics	Yes	DDA 7.5-16 FCM-PV/E/C-F-32U2U2FG	97 72 20 28	1.227,90
7,5	0,0025	16	PVDF	FKM	Ceramics	No	DDA 7.5-16 FCM-PV/V/C-F-31U2U2FG	97 72 20 30	1.216,50
7,5	0,0025	16	PVDF	FKM	Ceramics	Yes	DDA 7.5-16 FCM-PV/V/C-F-32U2U2FG	97 72 20 32	1.227,90
7,5	0,0025	16	PVDF	PTFE	Ceramics	No	DDA 7.5-16 FCM-PV/T/C-F-31U2U2FG	97 72 20 34	1.278,90
7,5	0,0025	16	PVDF	PTFE	Ceramics	Yes	DDA 7.5-16 FCM-PV/T/C-F-32U2U2FG	97 72 20 36	1.290,30
7,5	0,0025	16	Stainless Steel	PTFE	Stainless Steel	No	DDA 7.5-16 FCM-SS/T/SS-F-31AAFG	97 72 20 38	1.607,40
7,5	0,0025	16	Stainless Steel	PTFE	Stainless Steel	Yes	DDA 7.5-16 FCM-SS/T/SS-F-32AAFG	97 72 20 39	1.618,80
12,0	0,012	10	PP	EPDM	Ceramics	No	DDA 12-10 FCM-PP/E/C-F-31U2U2FG	97 72 21 08	1.251,00
12,0	0,012	10	PP	EPDM	Ceramics	No	DDA 12-10 FCM-PVC/E/C-F-31U2U2FG	97 72 21 16	1.267,50
12,0	0,012	10	PP	EPDM	Ceramics	Yes	DDA 12-10 FCM-PP/E/C-F-32U2U2FG	97 72 21 10	1.262,40
12,0	0,012	10	PP	EPDM	Ceramics	Yes	DDA 12-10 FCM-PVC/E/C-F-32U2U2FG	97 72 21 18	1.278,90
12,0	0,012	10	PP	FKM	Ceramics	No	DDA 12-10 FCM-PP/V/C-F-31U2U2FG	97 72 21 12	1.251,00
12,0	0,012	10	PP	FKM	Ceramics	No	DDA 12-10 FCM-PVC/V/C-F-31U2U2FG	97 72 21 20	1.267,50
12,0	0,012	10	PP	FKM	Ceramics	Yes	DDA 12-10 FCM-PP/V/C-F-32U2U2FG	97 72 21 14	1.262,40
12,0	0,012	10	PP	FKM	Ceramics	Yes	DDA 12-10 FCM-PVC/V/C-F-32U2U2FG	97 72 21 22	1.278,90
12,0	0,012	10	PP	PTFE	Ceramics	No	DDA 12-10 FCM-PVC/T/C-F-31U2U2FG	97 72 21 24	1.329,90
12,0	0,012	10	PP	PTFE	Ceramics	Yes	DDA 12-10 FCM-PVC/T/C-F-32U2U2FG	97 72 21 26	1.341,30
12,0	0,012	10	PVDF	EPDM	Ceramics	No	DDA 12-10 FCM-PV/E/C-F-31U2U2FG	97 72 21 28	1.320,00
12,0	0,012	10	PVDF	EPDM	Ceramics	Yes	DDA 12-10 FCM-PV/E/C-F-32U2U2FG	97 72 21 30	1.331,40
12,0	0,012	10	PVDF	FKM	Ceramics	No	DDA 12-10 FCM-PV/V/C-F-31U2U2FG	97 72 21 32	1.320,00
12,0	0,012	10	PVDF	FKM	Ceramics	Yes	DDA 12-10 FCM-PV/V/C-F-32U2U2FG	97 72 21 34	1.331,40
12,0	0,012	10	PVDF	PTFE	Ceramics	No	DDA 12-10 FCM-PV/T/C-F-31U2U2FG	97 72 21 36	1.382,40
12,0	0,012	10	PVDF	PTFE	Ceramics	Yes	DDA 12-10 FCM-PV/T/C-F-32U2U2FG	97 72 21 38	1.393,80
12,0	0,012	10	Stainless Steel	PTFE	Stainless Steel	No	DDA 12-10 FCM-SS/T/SS-F-31AAFG	97 72 21 40	1.710,90
12,0	0,012	10	Stainless Steel	PTFE	Stainless Steel	Yes	DDA 12-10 FCM-SS/T/SS-F-32AAFG	97 72 21 41	1.722,30

DDA-FCM (0 – 30 l/h) (Product Group: DD)

Performance Max. Q [l/h]	Performance Min. Q [l/h]	Performance Max. p [bar]	Material of Pump Head	Material of Sealing	Material of Valve Ball	Spring loaded valve	Name Code	Control Option DDA- FCM Product-No.	EUR
17,0	0,017	7	PP	EPDM	Ceramics	No	DDA 17-7 FCM-PP/E/C-F-31U2U2FG	97 72 22 10	1.251,00
17,0	0,017	7	PP	EPDM	Ceramics	Yes	DDA 17-7 FCM-PP/E/C-F-32U2U2FG	97 72 22 12	1.262,40
17,0	0,017	7	PP	FKM	Ceramics	No	DDA 17-7 FCM-PP/V/C-F-31U2U2FG	97 72 22 14	1.251,00
17,0	0,017	7	PP	FKM	Ceramics	Yes	DDA 17-7 FCM-PP/V/C-F-32U2U2FG	97 72 22 16	1.262,40
17,0	0,017	7	PVC	EPDM	Ceramics	No	DDA 17-7 FCM-PVC/E/C-F-31U2U2FG	97 72 22 18	1.267,50
17,0	0,017	7	PVC	EPDM	Ceramics	Yes	DDA 17-7 FCM-PVC/E/C-F-32U2U2FG	97 72 22 20	1.278,90
17,0	0,017	7	PVC	FKM	Ceramics	No	DDA 17-7 FCM-PVC/N/C-F-31U2U2FG	97 72 22 22	1.267,50
17,0	0,017	7	PVC	FKM	Ceramics	Yes	DDA 17-7 FCM-PVC/N/C-F-32U2U2FG	97 72 22 24	1.278,90
17,0	0,017	7	PVC	PTFE	Ceramics	No	DDA 17-7 FCM-PVC/T/C-F-31U2U2FG	97 72 22 26	1.329,90
17,0	0,017	7	PVC	PTFE	Ceramics	Yes	DDA 17-7 FCM-PVC/T/C-F-32U2U2FG	97 72 22 28	1.341,30
17,0	0,017	7	PVDF	EPDM	Ceramics	No	DDA 17-7 FCM-PV/E/C-F-31U2U2FG	97 72 22 30	1.320,00
17,0	0,017	7	PVDF	EPDM	Ceramics	Yes	DDA 17-7 FCM-PV/E/C-F-32U2U2FG	97 72 22 32	1.331,40
17,0	0,017	7	PVDF	FKM	Ceramics	No	DDA 17-7 FCM-PV/V/C-F-31U2U2FG	97 72 22 34	1.320,00
17,0	0,017	7	PVDF	FKM	Ceramics	Yes	DDA 17-7 FCM-PV/V/C-F-32U2U2FG	97 72 22 36	1.331,40
17,0	0,017	7	PVDF	PTFE	Ceramics	No	DDA 17-7 FCM-PV/T/C-F-31U2U2FG	97 72 22 38	1.382,40
17,0	0,017	7	PVDF	PTFE	Ceramics	Yes	DDA 17-7 FCM-PV/T/C-F-32U2U2FG	97 72 22 40	1.393,80
17,0	0,017	7	Stainless Steel	PTFE	Stainless Steel	No	DDA 17-7 FCM-SS/T/SS-F-31AAFG	97 72 22 42	1.710,90
17,0	0,017	7	Stainless Steel	PTFE	Stainless Steel	Yes	DDA 17-7 FCM-SS/T/SS-F-32AAFG	97 72 22 43	1.722,30
30,0	0,03	4	PP	EPDM	Ceramics	No	DDA 30-4 FCM-PP/E/C-F-31U2U2FG	97 72 23 13	1.337,10
30,0	0,03	4	PP	EPDM	Ceramics	Yes	DDA 30-4 FCM-PP/E/C-F-32U2U2FG	97 72 23 15	1.348,50
30,0	0,03	4	PP	FKM	Ceramics	No	DDA 30-4 FCM-PP/V/C-F-31U2U2FG	97 72 23 17	1.337,10
30,0	0,03	4	PP	FKM	Ceramics	Yes	DDA 30-4 FCM-PP/V/C-F-32U2U2FG	97 72 23 19	1.348,50
30,0	0,03	4	PVC	EPDM	Ceramics	No	DDA 30-4 FCM-PVC/E/C-F-31U2U2FG	97 72 23 31	1.353,60
30,0	0,03	4	PVC	EPDM	Ceramics	Yes	DDA 30-4 FCM-PVC/E/C-F-32U2U2FG	97 72 23 33	1.365,00
30,0	0,03	4	PVC	FKM	Ceramics	No	DDA 30-4 FCM-PVC/N/C-F-31U2U2FG	97 72 23 35	1.353,60
30,0	0,03	4	PVC	FKM	Ceramics	Yes	DDA 30-4 FCM-PVC/N/C-F-32U2U2FG	97 72 23 37	1.365,00
30,0	0,03	4	PVC	PTFE	Ceramics	No	DDA 30-4 FCM-PVC/T/C-F-31U2U2FG	97 72 23 39	1.416,00
30,0	0,03	4	PVC	PTFE	Ceramics	Yes	DDA 30-4 FCM-PVC/T/C-F-32U2U2FG	97 72 23 41	1.427,40
30,0	0,03	4	PVDF	EPDM	Ceramics	No	DDA 30-4 FCM-PV/E/C-F-31U2U2FG	97 72 23 43	1.406,10
30,0	0,03	4	PVDF	EPDM	Ceramics	Yes	DDA 30-4 FCM-PV/E/C-F-32U2U2FG	97 72 23 45	1.417,50
30,0	0,03	4	PVDF	FKM	Ceramics	No	DDA 30-4 FCM-PV/V/C-F-31U2U2FG	97 72 23 47	1.406,10
30,0	0,03	4	PVDF	FKM	Ceramics	Yes	DDA 30-4 FCM-PV/V/C-F-32U2U2FG	97 72 23 49	1.417,50
30,0	0,03	4	PVDF	PTFE	Ceramics	No	DDA 30-4 FCM-PV/T/C-F-31U2U2FG	97 72 23 51	1.468,50
30,0	0,03	4	PVDF	PTFE	Ceramics	Yes	DDA 30-4 FCM-PV/T/C-F-32U2U2FG	97 72 23 53	1.479,90
30,0	0,03	4	Stainless Steel	PTFE	Stainless Steel	No	DDA 30-4 FCM-SS/T/SS-F-31AAFG	97 72 23 55	1.797,00
30,0	0,03	4	Stainless Steel	PTFE	Stainless Steel	Yes	DDA 30-4 FCM-SS/T/SS-F-32AAFG	97 72 23 56	1.808,40

DME 60 to 940, control variant B

Setting range:	1:800 (e.g. 0,1875 ml/h bis 150 l/h)
Voltage/Motor:	Brushless DC motor, 1 x 110 – 240 VAC, 50 – 60 Hz, IP65, F
Supply plug:	1,5 m with EU (Schuko)-plug
Options:	> wide range of materials and valve variants > various hose connections > Profibus module

Control panel and display front mounted (Product Group: DD)

Performance Max. Q [l/h]	Max. Head	Material of Pump Head	Material of Sealing	Material of Valve Ball	Connection	Name Code	Control Option B Product-No.	EUR
60	10	PP	EPDM	Ceramics	Hose 19/27 – 25/34	DME 60-10 B-PP/E/C-F-31QQF	96 52 49 16	1.485,69
60	10	PP	FKM	Ceramics	Hose 19/27 – 25/34	DME 60-10 B-PP/V/C-F-31QQF	96 52 49 18	1.485,69
60	10	PVDF	PTFE	Ceramics	Hose 19/27 – 25/34	DME 60-10 B-PV/T/C-F-31QQF	96 58 37 31	1.747,62
150	4	PP	EPDM	Ceramics	Hose 19/27 – 25/34	DME 150-4 B-PP/E/C-F-31QQF	96 52 49 33	1.649,63
150	4	PP	FKM	Ceramics	Hose 19/27 – 25/34	DME 150-4 B-PP/V/C-F-31QQF	96 52 49 35	1.649,63
375	10	PP	FKM	Glass	Rp 11/4	DME 375-10 B-PP/V/G-F-31A2A2F	96 52 49 51	2.697,93
940	4	PP	EPDM	Glass	Rp 11/4	DME 940-4 B-PP/E/G-F-31A2A2F	96 52 49 66	3.294,66
940	4	PP	FKM	Glass	Rp 11/4	DME 940-4 B-PP/V/G-F-31A2A2F	96 52 49 68	3.305,18

DME 60 to 940, control variant AR

Setting range:	1:800 (e.g. 0,1875 ml/h bis 150 l/h)
Voltage/Motor:	Brushless DC motor, 1 x 110 – 240 VAC, 50 – 60 Hz, IP65, F
Supply plug:	1,5 m with EU (Schuko)-plug
Options:	> wide range of materials and valve variants > various hose connections > Profibus module

Control panel and display front mounted (Product Group: DD)

Performance Max. Q [l/h]	Max. Head	Material of Pump Head	Material of Sealing	Material of Valve Ball	Connection	Name Code	Control Option AR Product-No.	EUR
60	10	PP	EPDM	Ceramics	Hose 19/27 – 25/34	DME 60-10 AR-PP/E/C-F-31QQF	96 52 48 74	1.979,55
60	10	PP	FKM	Ceramics	Hose 19/27 – 25/34	DME 60-10 AR-PP/V/C-F-31QQF	96 52 49 10	1.979,55
60	10	PVDF	PTFE	Ceramics	Hose 19/27 – 25/34	DME 60-10 AR-PV/T/C-F-31QQF	96 58 14 75	2.241,48
150	4	PP	EPDM	Ceramics	Hose 19/27 – 25/34	DME 150-4 AR-PP/E/C-F-31QQF	96 52 49 25	2.145,53
150	4	PP	FKM	Ceramics	Hose 19/27 – 25/34	DME 150-4 AR-PP/V/C-F-31QQF	96 52 49 27	2.145,53
375	10	PP	EPDM	Glass	Rp 11/4	DME 375-10 AR-PP/E/G-F-31A2A2F	96 52 49 41	3.208,50
375	10	PP	FKM	Glass	Rp 11/4	DME 375-10 AR-PP/V/G-F-31A2A2F	96 52 49 43	3.219,02
375	10	PVDF	PTFE	Glass	Rp 11/4	DME 375-10 AR-PV/T/G-F-31A2A2F	95 90 50 43	3.719,45
940	4	PP	EPDM	Glass	Rp 11/4	DME 940-4 AR-PP/E/G-F-31A2A2F	96 52 49 58	3.813,65
940	4	PP	FKM	Glass	Rp 11/4	DME 940-4 AR-PP/V/G-F-31A2A2F	96 52 49 60	3.824,16

Accessories (Product Group: DD)

Part	Name Code	Product-No.	EUR
CIU 300 BACnet MS / TP module (module 1 for master pump)	DME 60-150;	96 65 52 31	393,38
Dosing, M12 with 0.5 m cable	DME 375-940;	96 65 52 32	518,28
Dosing, M12 with 0.5 m cable	DME 375-940;	96 65 52 33	518,28

DME 60 to 940, control variant B

Setting range: 1:800 (e.g. 0,1875 ml/h bis 150 l/h)
 Voltage/Motor: Brushless DC motor, 1 x 110 – 240 VAC, 50 – 60 Hz, IP65, F
 Supply plug: 1,5 m with EU (Schuko)-plug
 Options: > wide range of materials and valve variants
 > various hose connections
 > Profibus module

Control panel and display side mounted (Product Group: DD)

Performance Max. Q [l/h]	Max. Head	Material of Pump Head	Material of Sealing	Material of Valve Ball	Connection	Name Code	Control Option B Product-No.	EUR
60	10	PP	EPDM	Ceramics	19/27 – 25/34	DME 60-10 B-PP/E/C-S-31QQF	96 52 49 17	1.514,66
60	10	PP	FKM	Ceramics	19/27 – 25/34	DME 60-10 B-PP/V/C-S-31QQF	96 52 49 19	1.514,66
60	10	PVDF	PTFE	Ceramics	19/27 – 25/34	DME 60-10 B-PV/T/C-S-31QQF	97 52 56 02	1.767,84
150	4	PP	EPDM	Ceramics	19/27 – 25/34	DME 150-4 B-PP/E/C-S-31QQF	96 52 49 34	1.678,62
150	4	PP	FKM	Ceramics	19/27 – 25/34	DME 150-4 B-PP/V/C-S-31QQF	96 52 49 36	1.678,62
150	4	PVDF	PTFE	Ceramics	19/27 – 25/34	DME 150-4 B-PV/T/C-S-31QQF	97 52 56 03	1.943,79
375	10	PP	EPDM	Glass	Rp 11/4	DME 375-10 B-PP/E/G-S-31A2A2F	96 52 49 50	2.729,45
375	10	PP	FKM	Glass	Rp 11/4	DME 375-10 B-PP/V/G-S-31A2A2F	96 52 49 52	2.739,95
940	4	PP	EPDM	Glass	Rp 11/4	DME 940-4 B-PP/E/G-S-31A2A2F	96 52 49 67	3.336,69
940	4	PP	FKM	Glass	Rp 11/4	DME 940-4 B-PP/V/G-S-31A2A2F	96 52 49 69	3.347,19

DME 60 to 940, control variant AR

Setting range: 1:800 (e.g. 0,1875 ml/h bis 150 l/h)
 Voltage/Motor: Brushless DC motor, 1 x 110 – 240 VAC, 50 – 60 Hz, IP65, F
 Supply plug: 1,5 m with EU (Schuko)-plug
 Options: > wide range of materials and valve variants
 > various hose connections
 > Profibus module

Control panel and display side mounted (Product Group: DD)

Performance Max. Q [l/h]	Max. Head	Material of Pump Head	Material of Sealing	Material of Valve Ball	Connection	Name Code	Control Option AR Product-No.	EUR
60	10	PP	EPDM	Ceramics	19/27 – 25/34	DME 60-10 AR-PP/E/C-S-31QQF	96 52 48 79	2.008,55
60	10	PP	FKM	Ceramics	19/27 – 25/34	DME 60-10 AR-PP/V/C-S-31QQF	96 52 49 11	2.008,55
60	10	PVDF	PTFE	Ceramics	19/27 – 25/34	DME 60-10 AR-PV/T/C-S-31QQF	96 69 60 09	2.266,49
150	4	PP	EPDM	Ceramics	19/27 – 25/34	DME 150-4 AR-PP/E/C-S-31QQF	96 52 49 26	2.174,51
150	4	PP	FKM	Ceramics	19/27 – 25/34	DME 150-4 AR-PP/V/C-S-31QQF	96 52 49 28	2.174,51
150	4	PVDF	PTFE	Ceramics	19/27 – 25/34	DME 150-4 AR-PV/T/C-S-31QQF	96 80 43 57	2.439,69
375	10	PP	EPDM	Glass	Rp 11/4	DME 375-10 AR-PP/E/G-S-31A2A2F	96 52 49 42	3.250,53
375	10	PP	FKM	Glass	Rp 11/4	DME 375-10 AR-PP/V/G-S-31A2A2F	96 52 49 44	3.261,03
375	10	PVDF	PTFE	Glass	Rp 11/4	DME 375-10 AR-PV/T/G-S-31A2A2F	95 90 50 45	3.761,48
940	4	PP	EPDM	Glass	Rp 11/4	DME 940-4 AR-PP/E/G-S-31A2A2F	96 52 49 59	3.855,68
940	4	PP	FKM	Glass	Rp 11/4	DME 940-4 AR-PP/V/G-S-31A2A2F	96 52 49 61	3.866,18

Accessories (Product Group: DD)

Part	Name Code	Product-No.	EUR
Dosing, M12 with 0.5 m cable	DME 60-150;	96 65 52 31	393,38
Dosing, M12 with 0.5 m cable	DME 375-940;	96 65 52 32	518,28
Dosing, M12 with 0.5 m cable	DME 375-940;	96 65 52 33	518,28

DDI AR pumps

- Setting range: 1:800
 Voltage/Motor: EC-motor, 50 W, 1 x 110 – 240 VAC, 50 – 60 Hz, IP65
 Supply plug: 5 m with EU (Schuko)-plug
 > dosing of liquids with high viscosity
 > Profibus DP interface
 Options on request.:
 > diaphragm leaking monitoring
 > wide range of materials and valve variants
 > various hose connections

Control panel and display side mounted (Product Group: DD)

Performance Max. Q [l/h]	Max. Head	Material of Pump Head	Material of Sealing	Material of Valve Ball	Connection	Name Code	Control Option AR Product-No.	EUR
60	10	PP	EPDM	Ceramics	9/12 Hose	DDI 60-10 AR-PP/E/C-S-3166F	96 71 74 38	1.771,61
60	10	PP	FKM	Ceramics	9/12 Hose	DDI 60-10 AR-PP/V/C-S-3166F	96 68 47 89	1.774,04
60	10	Stainless Steel	PTFE	Stainless Steel	Rp 1/4	DDI 60-10 AR-SS/T/SS-S-31AAF	96 68 47 34	2.142,92
150	4	PP	EPDM FKM	Ceramics	20/25 Pipe	DDI 150-4 AR-PP/E/C-S-31B4B4F nicht konfigurierbar	95 71 45 56	2.063,96
150	4	PVDF	PTFE	Ceramics	20/25 Pipe	DDI 150-4 AR-PV/T/C-S-31B4B4F	96 71 72 68	2.622,83

Schl.: Hose, D: Discharge, S: Suction

Control panel and display side mounted (Product Group: DD)

Performance Max. Q [l/h]	Max. Head	Material of Pump Head	Material of Sealing	Material of Valve Ball	Connection	Name Code	Control Option AF Product-No.	EUR
60	10	PP	EPDM	Ceramics	9/12 Hose	DDI 60-10 AF-PP/E/C-S-3166F	96 69 43 96	2.355,48
60	10	PVC	EPDM	Ceramics	S: 9/12 Hose, D: 6/12 Hose o. 10/12 Pipe	DDI 60-10 AF-PVC/E/C-S-31B16F	96 69 58 46	2.327,04
150	4	PVC	EPDM FKM	Ceramics	13/20 Hose., 20/25 Pipe	nicht konfigurierbar DDI 150-4 AF-PVC/V/C-S-31B2B2F	96 68 46 92	2.644,44

Schl.: Hose, D: Discharge, S: Suction

Cables and plugs (Product Group: DD)

DDE-P, DDC, DDA

Function	Number of Contacts	Length of Cable [m]	Description	Product-No.	EUR
For input: Control cable (pulse or analog signal) and remote on / off	4	5	Cable with M12 plug, straight	96 60 90 16	26,27
Relay 1 and 2 for output	4	5	Circular connector, T-connector, connector: M12	96 60 90 19	26,27

Cables and plugs (Product Group: DD)

DME-Pumps

Function	Number of Contacts	Length of Cable [m]	Description	Product-No.	EUR
Control cable (pulse, 0/4 - 20 mA, batch, remote ON / OFF (0 only - 48 l / h), leakage (only 60 to 940 l / h))	5	2	Cable with plug	96 44 04 47	25,25
Control cable (pulse, 0/4 - 20 mA, batch, remote ON / OFF (0 only - 48 l / h), leakage (only 60 to 940 l / h))	5	5	Cable with plug	96 44 04 48	29,60
Control cable (pulse, 0/4 - 20 mA, batch, remote ON / OFF (0 only - 48 l / h), leakage (only 60 to 940 l / h))	5	5	Plug	96 44 04 49	18,23
Power-ON/OFF (DME 60 to 940 l / h)	5	2	Cable with plug	96 52 71 09	25,25
Power-ON/OFF (DME 60 to 940 l / h)	5	5	Cable with plug	96 52 71 11	29,79
Power-ON/OFF (DME 60 to 940 l / h)	5	5	Plug	96 60 64 01	18,23
Level sensor cable ¹⁾	4	2	Cable with plug	96 44 04 50	24,59
Level sensor cable ¹⁾	4	5	Cable with plug	96 44 04 51	27,54
Level sensor cable ¹⁾	4	5	Plug	96 44 04 52	19,08
Relaiskabel 2 (DME 60 – 940 l/h)	3	2	Cable with plug	96 53 42 14	39,11
Relay cable 2 (DME 60 to 940 l / h)	3	5	Cable with plug	96 53 42 15	48,39

¹⁾ In case of use of dosing moitor (DME/S 0 – 48 l/h) no level input possible.

Inlay sets (Product Group: DD)

Retrofit pump inlay kits for the integration of Grundfos standard pumps into installations with various sizes of hoses or pipes.

A pump connection kit includes:

> 2 sets of inlays (cone and ring). The given union nuts have to be used for fixing the connection.

Pump Type	Connection	Dimension [mm]	Material	Product-No.	EUR
DME 60 - 150	Hose	19/27 mm	PP	96 53 51 09	21,30
DME 60 - 150	Hose	25/34 mm	PVDF	96 53 51 10	35,49
DME 60 - 150	Internal Thread	Rp 3/4"	PVC	96 53 38 86	18,14
DME 375-940	Hose	32/41 mm	PP	96 53 51 11	85,88
DME 375-940	Hose	38/48 mm	PVDF	96 53 51 12	185,69
DME 375-940	Internal Thread	Rp 1 1/4"	PVC	96 53 47 99	40,98
DME 375-940	Union nuts for mounting of DME 375-940	2"	SS	96 73 19 14	119,16

Standard injection valves (Product Group: DD)

Injection units connect the dosing line with the process line. They ensure a minimum backpressure of 0.7 bar, and avoid backflow of the dosing liquid.

In general, they include: • Injection pipe. PP, PVC and PVDF versions can be shortened.

- Spring-loaded non-return valve with Tantal spring.
- Hose connection set: 4/6 mm, 6/9 mm, 6/12 mm, and 9/12 mm.
- Pipe connection set: threaded, Rp 1/4", female(stainless steel).

Performance Max. Q [l/h]	Max. Pressure [bar]	Material of Housing	Material of Sealing	Material of Valve Ball	Dimension L1 (mm)	Dimension L2 (mm)	Tube Connection Set	Product-No.	EUR
60l/h	16	PP	FKM	Ceramics	100	47	Yes	95 73 09 04	33,63
60l/h	16	PP	EPDM	Ceramics	100	47	Yes	95 73 09 08	33,63
60l/h	16	PVC	FKM	Ceramics	100	47	Yes	95 73 09 12	30,15
60l/h	16	PVDF	FKM	Ceramics	100	47	Yes	95 73 09 24	51,08

*) see chapter „Adapter“ for the required connections. Standard connection for injection valve is G5/8

Installation kits with/without level indication (Product Group: DD)

An installation kit includes the following parts:

- > Foot valve with strainer and weight. Valve ball: ceramic
- > Injection unit with spring-loaded non-return valve. Valve ball: ceramic
- > PE-PE discharge hose, 6 m
- > PVC suction hose, 2 m
- > PVC deaeration hose, 2 m

The switch mode is factory-set to NO, can be set to NC. The inputs can be set in the menu of DDA/DDC pumps.

Performance Max. Q [l/h]	Max. Pressure [bar]	Dimension of Tube [mm]	Dimension of Exhaust Tube [mm]	Material of Housing	Material of Sealing	Level Signal	Product-No.	EUR
7,5	13	4/6	4/6	PP	FKM	no	95 73 04 40	53,22
7,5	13	4/6	4/6	PP	EPDM	no	95 73 04 41	53,22
7,5	13	4/6	4/6	PVC	FKM	no	95 73 04 42	53,22
7,5	13	4/6	4/6	PVC	EPDM	no	95 73 04 43	53,22
7,5	13	4/6	4/6	PVC	EPDM	yes	95 73 04 67	100,46
7,5	13	4/6	4/6	PVC	PTFE	no	95 73 04 44	63,33
7,5	13	4/6	4/6	PVDF	FKM	no	95 73 04 45	70,07
7,5	13	4/6	4/6	PVDF	EPDM	no	95 73 04 46	70,07
7,5	13	4/6	4/6	PVDF	PTFE	no	95 73 04 47	78,50
30	12	6/9	4/6	PP	FKM	no	95 73 04 48	59,96
30	12	6/9	4/6	PP	EPDM	no	95 73 04 49	59,96
30	12	6/9	4/6	PVC	FKM	no	95 73 04 50	59,96
30	12	6/9	4/6	PVC	EPDM	no	95 73 04 51	59,96
30	12	6/9	4/6	PVC	PTFE	no	95 73 04 52	70,07
30	12	6/9	4/6	PVDF	FKM	no	95 73 04 53	76,80
30	12	6/9	4/6	PVDF	EPDM	no	95 73 04 54	76,80
30	12	6/9	4/6	PVDF	PTFE	no	95 73 04 55	86,96
60	9	9/12	4/6	PP	FKM	no	95 73 04 56	65,01
60	9	9/12	4/6	PP	EPDM	no	95 73 04 57	65,01
60	9	9/12	4/6	PVC	FKM	no	95 73 04 58	65,01
60	9	9/12	4/6	PVC	EPDM	no	95 73 04 59	65,01
60	9	9/12	4/6	PVC	PTFE	no	95 73 04 60	71,78
60	9	9/12	4/6	PVDF	FKM	no	95 73 04 61	78,50
60	9	9/12	4/6	PVDF	EPDM	no	95 73 04 62	78,50
60	9	9/12	4/6	PVDF	PTFE	no	95 73 04 63	88,67

Multi-function valves (Product Group: DD)

A multi-function valve is mounted directly on the pump discharge side. The top connection is for the discharge line. The side connection leads the relief liquid back into the tank.

> Loading pressure, adjustable from 1 to 4 bar, is factory-set to 3 bar.

> Relief pressure, adjustable from 7 to 16 bar, is factory-set to 10 bar or 16 bar

> Maximum system pressure 16 bar

> Hose connection set: 4/6 mm, 6/9 mm, 6/12 mm, and 9/12 mm.

Performance Max. Q [l/h]	Material of Housing	Connection	Material of Sealing	Material of Diaphragm	Overflow Pressure [bar]	Product-No.	EUR
60l/h	PVDF	PP	FKM	PTFE	10	95 70 45 85	126,81
60l/h	PVDF	PP	FKM	PTFE	16	95 73 08 21	126,81
60l/h	PVDF	PP	EPDM	PTFE	10	95 70 45 91	126,30
60l/h	PVDF	PP	EPDM	PTFE	16	95 73 08 22	126,30
60l/h	PVDF	PVC	FKM	PTFE	10	95 73 08 07	126,81
60l/h	PVDF	PVC	FKM	PTFE	16	95 73 08 23	126,81
60l/h	PVDF	PVDF	FKM	PTFE	10	95 73 08 10	131,27
60l/h	PVDF	PVDF	FKM	PTFE	16	95 73 08 26	131,27
60l/h	PVDF	PVDF	PTFE	PTFE	10	95 73 08 12	164,57
60l/h	PVDF	PVDF	PTFE	PTFE	16	95 73 08 28	164,57

Pressure relief valves (Product Group: DD)

Pressure relief valves are installed in the discharge line near the pump, using the 2 in-line connections. The side connection leads the relief liquid back into the tank.> Relief pressure, adjustable from 5 to 10 bar, is factory-set to 10 bar

> Relief pressure, adjustable from 7 to 16 bar, is factory-set to 16 bar

> Maximum system pressure 16 bar

> Hose connection set: 4/6 mm, 6/9 mm, 6/12 mm, and 9/12 mm.

> Pipe connection set: threaded, Rp 1/4", female (stainless steel)Numbers in brackets for stainless steel version

Performance Max. Q [l/h]	Material of Housing	Connection	Material of Sealing	Material of Diaphragm	Overflow Pressure [bar]	Product-No.	EUR
60l/h	PP	PP	FKM / EPDM	PTFE	10	95 73 07 57	82,20
60l/h	PP	PP	FKM / EPDM	PTFE	16	95 73 07 73	82,20
60l/h	PVC	PVC	FKM / EPDM	PTFE	10	95 73 07 58	82,20
60l/h	PVC	PVC	FKM / EPDM	PTFE	16	95 73 07 74	82,20
60l/h	PVDF	PVDF	FKM / EPDM	PTFE	10	95 73 07 60	118,64
60l/h	PVDF	PVDF	FKM / EPDM	PTFE	16	95 73 07 76	118,64

Pressure loading valves (Product Group: DD)

Pressure loading valves are installed in the discharge line after the pressure relief valve, and after the pulsation damper, if fitted.

> Loading pressure, adjustable from 1 to 5 bar, is factory-set to 3 bar.

> Maximum system pressure: 16 bar

> Hose connection set: 4/6 mm, 6/9 mm, 6/12 mm, and 9/12 mm.S

> Pipe connection set: threaded, Rp 1/4", stainless steel

Performance Max. Q [l/h]	Material of Housing	Connection	Material of Sealing	Material of Diaphragm	Holding Pressure [bar]	Product-No.	EUR
60l/h	PP	PP	FKM / EPDM	PTFE	10	95 73 07 41	71,76
60l/h	PVC	PVC	FKM / EPDM	PTFE	10	95 73 07 42	71,76
60l/h	PVDF	PVDF	FKM / EPDM	PTFE	10	95 73 07 44	101,30
60l/h	PVDF	PVDF	PTFE	PTFE	10	95 73 07 45	134,28
60l/h	Stainless Steel	Stainless steel	no gaskets	PTFE	10	95 73 07 51	184,65

Chapter 13

Drainage pumps



Drainage pumps from composite/stainless steel UNILIFT CC

Pump with composite sleeve and stainless steel motor 1 x 220 – 230 V, 50 Hz, with integrated cooling sleeve, 10 mm free passage. To pump down to 3 mm water level, for permanent or portable installation

Scope of supply: UNILIFT CC with Schuko plug and 10 m cable, non-return valve and discharge adapter for ¾", 1" or 1¼" AG
48 unit per pallet

Pump without float switch (...M1) (Product Group: DC)

Pump with composite sleeve and stainless steel motor 1 x 220 – 230 V, 50 Hz, with integrated cooling sleeve, 10 mm free passage. To pump down to 3 mm water level, for permanent or portable installation

Scope of supply: UNILIFT CC with Schuko plug and 10 m cable, non-return valve and discharge adapter for ¾", 1" or 1¼" AG
48 unit per pallet

Type	Voltage [V]	Rated Power [kW]	Nominal Current	Discharge Nozzle	Length of Cable [m]	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT CC 5 M1	1 x 230 V	0,24	1,0	R 1¼ AG	10	0	4,35	96 28 09 65	148,87
UNILIFT CC 7 M1	1 x 230 V	0,38	1,8	R 1¼ AG	10	0	4,6	96 28 09 67	175,95
UNILIFT CC 9 M1	1 x 230 V	0,78	3,5	R 1¼ AG	10	0	6,5	96 28 09 69	224,29

Pump with float switch (...A1) (Product Group: DC)

Type	Voltage [V]	Rated Power [kW]	Nominal Current	Discharge Nozzle	Length of Cable [m]	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT CC 5 A1	1 x 230 V	0,24	1,0	R 1¼ AG	10	Yes	4,35	96 28 09 66	158,57
UNILIFT CC 7 A1	1 x 230 V	0,38	1,8	R 1¼ AG	10	Yes	4,6	96 28 09 68	183,68
UNILIFT CC 9 A1	1 x 230 V	0,78	3,5	R 1¼ AG	10	Yes	6,5	96 28 09 70	237,82

MULTIBOX package (Product Group: DC)

Scope of supply: UNILIFT CC 7 A1, Storz C-coupling, 15 m discharge hose incl. stainless steel kink protection, non-return valve, adapter for hose connection (3 diameter), compact, universal filter- and carry-box. Box dimensions (W x H x D): 400x330x300 mm

24 units per pallet

Type	Voltage [V]	Rated Power [kW]	Nominal Current	Discharge Nozzle	Length of Cable [m]	Floating Switch	Weight [kg]	Product-No.	EUR
MULTIBOX CC 7 A1	1 x 230 V	0,38	1,8	R 1¼ AG/ Storz C	10	Yes	12,0	97 51 98 41	336,88

Stainless steel drainage pumps UNILIFT KP

Stainless steel submersible pump with cooling sleeve, 10 mm free passage, double mechanical seal and,

robust bearings, 1 x 220 – 230 V, 50 Hz, connection Rp 1¼, with Schuko plug

60 pumps in a pallet

Pump without float switch and 10 m supply cable (...M1) (Product Group: DC)

Type	Voltage [V]	Rated Power [kW]	Nominal Current	Discharge Nozzle	Length of Cable [m]	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT KP 150-M1	1 x 230 V	0,30	1,3	Rp 1¼ IG	10	0	6,2	01 1H 13 00	226,84
UNILIFT KP 250-M1	1 x 230 V	0,50	2,2	Rp 1¼ IG	10	0	7	01 2H 13 00	268,30
UNILIFT KP 350-M1	1 x 230 V	0,70	3,2	Rp 1¼ IG	10	0	7,7	01 3N 13 00	339,63

Pump with float switch and 3 m supply cable (...A1) (Product Group: DC)

Type	Voltage [V]	Rated Power [kW]	Nominal Current	Discharge Nozzle	Length of Cable [m]	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT KP 150-A1	1 x 230 V	0,30	1,3	Rp 1¼ IG	3	Yes	5,5	01 1H 16 00	225,54
UNILIFT KP 250-A1	1 x 230 V	0,50	2,2	Rp 1¼ IG	3	Yes	6,3	01 2H 16 00	267,00
UNILIFT KP 350-A1	1 x 230 V	0,70	3,2	Rp 1¼ IG	3	Yes	7	01 3N 16 00	338,31

Pump with float switch and 10 m supply cable (...A1) (Product Group: DC)

Type	Voltage [V]	Rated Power [kW]	Nominal Current	Discharge Nozzle	Length of Cable [m]	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT KP 150-A1	1 x 230 V	0,30	1,3	Rp 1¼ IG	10	Yes	6,3	01 1H 18 00	241,09
UNILIFT KP 250-A1	1 x 230 V	0,50	2,2	Rp 1¼ IG	10	Yes	7,2	01 2H 18 00	281,30
UNILIFT KP 350-A1	1 x 230 V	0,70	3,2	Rp 1¼ IG	10	Yes	7,9	01 3N 18 00	362,98

Pump with vertical level switch and 3 m cable length (...AV1) (Product Group: DC)

Type	Voltage [V]	Rated Power [kW]	Nominal Current	Discharge Nozzle	Length of Cable [m]	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT KP 150-AV1	1 x 230 V	0,30	1,3	Rp 1¼ IG	3	Yes	5,7	01 1H 14 00	238,50
UNILIFT KP 250-AV1	1 x 230 V	0,50	2,2	Rp 1¼ IG	3	Yes	6,5	01 2H 14 00	280,00
UNILIFT KP 350-AV1	1 x 230 V	0,70	3,2	Rp 1¼ IG	3	Yes	7,2	01 3N 14 00	391,44

Pump with vertical level switch and 10 m supply cable (...A1) (Product Group: DC)

Type	Voltage [V]	Rated Power [kW]	Nominal Current	Discharge Nozzle	Length of Cable [m]	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT KP 150-AV1	1 x 230 V	0,30	1,3	Rp 1¼ IG	10	Yes	6,5	01 1H 19 00	254,07
UNILIFT KP 250-AV1	1 x 230 V	0,50	2,2	Rp 1¼ IG	10	Yes	7,4	01 2H 19 00	295,53
UNILIFT KP 350-AV1	1 x 230 V	0,70	3,2	Rp 1¼ IG	10	Yes	8,1	01 3N 19 00	416,08

(UNILIFT KP...AV only for water without fibres and viscous deposits, incl. flap valve)

Drainage pumps from stainless steel UNILIFT AP 12

Stainless steel submersible pump with colling sleeve, mechanical shaft seal, free passage of 12 mm, vortex impeller, vertical discharge 1½" or 2" IG, with or without float switch, speed 2900 min⁻¹
24 pumps in a pallet

Pump without float switch (single phase) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 12.40.04.1	1 x 230 V	0,70/0,40	3,0	Rp 1½ IG	10	Schuko	0	11,6	96 01 10 16	437,65
UNILIFT AP 12.40.06.1	1 x 230 V	0,90/0,60	4,4	Rp 1½ IG	10	Schuko	0	11,6	96 00 17 20	456,36
UNILIFT AP 12.40.08.1	1 x 230 V	1,30/0,80	5,9	Rp 1½ IG	10	Schuko	0	13,2	96 00 18 69	509,98
UNILIFT AP 12.50.11.1	1 x 230 V	1,70/1,10	8,5	Rp 2 IG	10	Schuko	0	15,7	96 00 19 58	719,85

Pump with float switch and 3 m cable length (single phase) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 12.40.04.A1	1 x 230 V	0,70/0,40	3,0	Rp 1½ IG	3	Schuko	Yes	11	96 01 10 17	447,60
UNILIFT AP 12.40.06.A1	1 x 230 V	0,90/0,60	4,4	Rp 1½ IG	3	Schuko	Yes	11	96 00 17 35	471,32
UNILIFT AP 12.40.08.A1	1 x 230 V	1,30/0,80	5,9	Rp 1½ IG	3	Schuko	Yes	12,6	96 00 17 98	526,52
UNILIFT AP 12.50.11.A1	1 x 230 V	1,70/1,10	8,5	Rp 2 IG	3	Schuko	Yes	15,1	96 00 19 65	741,45

Pump with float switch and 10 m cable length (single phase) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 12.40.04.A1	1 x 230 V	0,70/0,40	3,0	Rp 1½ IG	10	Schuko	Yes	11,8	96 01 10 18	473,77
UNILIFT AP 12.40.06.A1	1 x 230 V	0,90/0,60	4,4	Rp 1½ IG	10	Schuko	Yes	11,8	96 01 09 79	503,71
UNILIFT AP 12.40.08.A1	1 x 230 V	1,30/0,80	5,9	Rp 1½ IG	10	Schuko	Yes	13,4	96 01 09 80	557,05
UNILIFT AP 12.50.11.A1	1 x 230 V	1,70/1,10	8,5	Rp 2 IG	10	Schuko	Yes	15,9	96 01 09 81	775,78

Pump without float switch (three phase) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 12.40.04.3	3 x 400 V	0,70/0,40	1,2	Rp 1½ IG	10	0	0	9,7	96 01 10 24	422,67
UNILIFT AP 12.40.06.3	3 x 400 V	0,90/0,60	1,6	Rp 1½ IG	10	0	0	10,7	96 00 16 52	441,38
UNILIFT AP 12.40.08.3	3 x 400 V	1,20/0,80	2,1	Rp 1½ IG	10	0	0	12	96 00 17 91	492,19
UNILIFT AP 12.50.11.3	3 x 400 V	1,70/1,20	3,2	Rp 2 IG	10	0	0	15,6	96 00 19 75	694,41

Pump with float switch and control box (three phase) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 12.40.04.A3	3 x 400 V	0,70/0,40	1,2	Rp 1½ IG	10	CEE	Yes	12,3	96 02 38 71	559,85
UNILIFT AP 12.40.06.A3	3 x 400 V	0,90/0,60	1,6	Rp 1½ IG	10	CEE	Yes	13,3	96 02 38 72	590,97
UNILIFT AP 12.40.08.A3	3 x 400 V	1,20/0,80	2,1	Rp 1½ IG	10	CEE	Yes	14,6	96 02 38 73	620,63
UNILIFT AP 12.50.11.A3	3 x 400 V	1,70/1,20	3,2	Rp 2 IG	10	CEE	Yes	18,2	96 02 38 74	830,46

13

Drainage pumps from stainless steel UNILIFT AP 35 and AP 35 B

Stainless steel submersible pump with 35 mm free passage, with or without integrated cooling sleeve, for installation either free-standing or on an auto-coupling system, speed 2900 min⁻¹

AP 35 with cooling sleeve and vertical discharge (internal thread), with or without float switch

AP 35 B without cooling sleeve and with horizontal discharge (external thread), with or without float switch

AP 35: 24 pumps in a pallet

AP 35 B: 30 pumps in a pallet

Pump without float switch (single phase) (Product Group: CW)

Stainless steel submersible pump with 35 mm free passage, with or without integrated cooling sleeve, for installation either free-standing or on an auto-coupling system, speed 2900 min⁻¹

AP 35 with cooling sleeve and vertical discharge (internal thread), with or without float switch

AP 35 B without cooling sleeve and with horizontal discharge (external thread), with or without float switch

AP 35: 24 units per pallet

AP 35 B: 30 units per pallet

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 35.40.06.1.V	1 x 230 V	1,00/0,60	4,0	Rp 1½ IG	10	Schuko	0	12,0	96 00 17 96	506,14
UNILIFT AP 35.40.08.1.V	1 x 230 V	1,30/0,70	5,5	Rp 1½ IG	10	Schuko	0	13,3	96 00 16 72	554,50
UNILIFT AP 35B.50.06.1.V	1 x 230 V	0,99/0,66	4,4	R 2 AG	10	Schuko	0	6,8	96 00 45 63	335,75
UNILIFT AP 35B.50.08.1.V	1 x 230 V	1,22/0,71	5,5	R 2 AG	10	Schuko	0	10,1	96 00 45 75	405,66

Pump with float switch and 3 m cable length (single phase) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 35.40.06.A1.V	1 x 230 V	1,00/0,60	4,0	Rp 1½ IG	3	Schuko	Yes	11,4	96 00 17 77	521,47
UNILIFT AP 35.40.08.A1.V	1 x 230 V	1,30/0,70	5,5	Rp 1½ IG	3	Schuko	Yes	12,7	96 00 18 97	571,08

Pump with float switch and 10 m cable length (single phase) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 35.40.06.A1.V	1 x 230 V	1,00/0,60	4,0	Rp 1½ IG	10	Schuko	Yes	12,2	96 01 09 82	562,14
UNILIFT AP 35.40.08.A1.V	1 x 230 V	1,30/0,70	5,5	Rp 1½ IG	10	Schuko	Yes	13,5	96 01 09 83	596,43
UNILIFT AP 35B.50.06.A1.V	1 x 230 V	0,99/0,66	4,4	R 2 AG	10	Schuko	Yes	6,8	96 46 83 56	393,56
UNILIFT AP 35B.50.08.A1.V	1 x 230 V	1,22/0,71	5,5	R 2 AG	10	Schuko	Yes	10,1	96 46 83 55	463,80

Pump without float switch (three phase) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 35.40.06.3.V	3 x 400 V	1,00/0,60	1,6	Rp 1½ IG	10	0	0	11,1	96 00 01 69	489,62
UNILIFT AP 35.40.08.3.V	3 x 400 V	1,30/0,70	2,0	Rp 1½ IG	10	0	0	12,1	96 00 17 18	535,42
UNILIFT AP 35B.50.06.3.V	3 x 400 V	0,99/0,66	1,6	R 2 AG	10	0	0	7,4	96 46 81 90	375,60
UNILIFT AP 35B.50.08.3.V	3 x 400 V	1,23/0,78	2,0	R 2 AG	10	0	0	8,4	96 46 81 93	446,16

Pump with float switch and control box (three phase) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 35.40.06.A3.V	3 x 400 V	1,00/0,60	1,6	Rp 1½ IG	10	CEE	Yes	13,7	96 02 38 75	620,63
UNILIFT AP 35.40.08.A3.V	3 x 400 V	1,30/0,70	2,0	Rp 1½ IG	10	CEE	Yes	14,7	96 02 38 76	671,51

Drainage pumps from stainless steel UNILIFT AP 50 and AP 50 B

Submersible pump with 50 mm free passage, with or without cooling sleeve, for compact free standing or auto coupling installation, speed 2900 min⁻¹

AP 50 with cooling sleeve and vertical discharge (internal thread) with or wo. float switch

AP 50 B without cooling sleeve and with horizontal discharge (ext. thread), with or wo. float switch

AP 50: 24 pumps in a pallet

AP 50 B: 30 pumps in a pallet

Pump without float switch (single phase) (Product Group: CW)

Stainless steel submersible pump with 50 mm free passage, with or without integrated cooling sleeve, for installation either free-standing or on an auto-coupling system, speed 2900 min⁻¹

AP 50 with cooling sleeve and vertical discharge (internal thread), with or without float switch

AP 50 B without cooling sleeve and with horizontal discharge (external thread), with or without float switch

AP 50: 24 units per pallet

AP 50 B: 30 units per pallet

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 50. 50.08.1.V	1 x 230 V	1,30/0,80	5,9	Rp 2 IG	10	Schuko	0	15,7	96 01 05 95	727,44
UNILIFT AP 50. 50.11.1.V	1 x 230 V	1,80/1,10	8,0	Rp 2 IG	10	Schuko	0	15,7	96 01 05 77	1.100,10
UNILIFT AP 50B.50.08.1.V	1 x 230 V	1,20/0,74	5,4	R 2 AG	10	Schuko	0	10,1	96 00 45 87	534,17
UNILIFT AP 50B.50.11.1.V	1 x 230 V	1,75/1,21	8,0	R 2 AG	10	Schuko	0	10,2	96 00 45 99	660,02

Pump with float switch and 3 m cable length (single phase) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 50. 50.08.A1.V	1 x 230 V	1,30/0,80	5,9	Rp 2 IG	3	Schuko	Yes	15,1	96 01 05 84	750,34
UNILIFT AP 50. 50.11.A1.V	1 x 230 V	1,80/1,10	8,0	Rp 2 IG	3	Schuko	Yes	15,1	96 01 05 66	1.134,42

Pump with float switch and 10 m cable length (single phase) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 50. 50.08.A1.V	1 x 230 V	1,30/0,80	5,9	Rp 2 IG	10	Schuko	Yes	15,9	96 01 09 84	792,76
UNILIFT AP 50. 50.11.A1.V	1 x 230 V	1,80/1,10	8,0	Rp 2 IG	10	Schuko	Yes	15,9	96 01 09 85	1.163,68
UNILIFT AP 50B.50.08.A1.V	1 x 230 V	1,20/0,74	5,4	R 2 AG	10	Schuko	Yes	10,1	96 46 83 54	598,53
UNILIFT AP 50B.50.11.A1.V	1 x 230 V	1,75/1,21	8,0	R 2 AG	10	Schuko	Yes	10,2	96 46 83 52	726,83

Pump without float switch (three phase) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 50. 50.08.3.V	3 x 400 V	1,20/0,80	2,0	Rp 2 IG	10	0	0	14,2	96 01 05 63	703,31
UNILIFT AP 50. 50.11.3.V	3 x 400 V	1,80/1,20	3,0	Rp 2 IG	10	0	0	15,6	96 01 05 62	1.065,77
UNILIFT AP 50B.50.08.3.V	3 x 400 V	1,20/0,80	2,0	R 2 AG	10	0	0	8,4	96 46 81 94	534,40
UNILIFT AP 50B.50.11.3.V	3 x 400 V	1,75/1,31	2,8	R 2 AG	10	0	0	9,7	96 46 81 95	629,81
UNILIFT AP 50B.50.15.3.V	3 x 400 V	2,15/1,50	3,0	R 2 AG	10	0	0	10,0	96 46 81 96	736,82

Pump with float switch and control box (three phase) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Length of Cable [m]	Plug	Floating Switch	Weight [kg]	Product-No.	EUR
UNILIFT AP 50. 50.08.A3.V	3 x 400 V	1,20/0,80	2,0	Rp 2 IG	10	CEE	Yes	16,5	96 02 38 77	848,29
UNILIFT AP 50. 50.11.A3.V	3 x 400 V	1,80/1,20	3,0	Rp 2 IG	10	CEE	Yes	17,9	96 02 38 78	1.209,43

Drainage pump with cast iron housing DP 10

Cast iron drainage pump DP 10

Pump with 10 m cable, free cable-end or control box with float switch, discharge horizontal as 2" AG or flange DN65, PN10

10 mm free passage, with/without Ex-protection

Speed n = 2900 min⁻¹

Pump without float switch (Product Group: CW)

Pump with 10 m cable, free cable-end or control box with float switch, discharge horizontal as 2 AG or flange DN65, PN10

10 mm free passage, with/without Ex-protection

Speed n = 2900 min⁻¹

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Control Unit with Floating Switch	Plug	Weight [kg]	Product-No.	EUR
DP10.50.09.2.1.502 ¹⁾	1 x 230 V	1,3/0,9	6,1	R 2 AG	0	0	39	96 10 42 00	1.177,19
DP10.50.09.2.50B	3 x 400 V	1,4/0,9	2,8	R 2 AG	0	0	39	96 10 42 04	1.177,19
DP10.50.15.2.50B	3 x 400 V	2,2/1,5	3,8	R 2 AG	0	0	39	96 10 42 08	1.339,57
DP10.65.26.2.50B	3 x 400 V	3,5/2,6	5,8	DN 65	0	0	61	96 10 65 42	1.593,49

Pump with float switch (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Control Unit with Floating Switch	Plug	Weight [kg]	Product-No.	EUR
DP10.50.09.A.2.1.502 ²⁾	1 x 230 V	1,3/0,9	6,1	R 2 AG	I	Schuko	40	96 10 42 02	1.447,69
DP10.50.09.A.2.50B ²⁾	3 x 400 V	1,4/0,9	2,8	R 2 AG	I	CEE	40	96 10 42 06	1.447,69
DP10.50.15.A.2.50B ²⁾	3 x 400 V	2,2/1,5	3,8	R 2 AG	I	CEE	40	96 10 42 10	1.610,06
DP10.65.26.A.2.50B ²⁾	3 x 400 V	3,5/2,6	5,8	DN 65	I	CEE	62	96 10 65 44	1.863,97

Pump (explosions-proof) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Control Unit with Floating Switch	Plug	Weight [kg]	Product-No.	EUR
DP10.50.09.EX.2.1.502 ¹⁾	1 x 230 V	1,3/0,9	6,1	R 2 AG	0	0	39	96 10 42 01	1.302,02
DP10.50.09.EX.2.50B	3 x 400 V	1,4/0,9	2,8	R 2 AG	0	0	39	96 10 42 05	1.302,02
DP10.50.15.EX.2.50B	3 x 400 V	2,2/1,5	3,8	R 2 AG	0	0	39	96 10 42 09	1.464,40
DP10.65.26.EX.2.50B	3 x 400 V	3,5/2,6	5,8	DN 65	0	0	61	96 10 65 43	1.718,32

¹⁾ Single phase version with free cable end, without capacitor. Operating capacitor (30 µF) required in control unit.

²⁾ Complete with control box, 10 m cable for float switch, 3 m supply cable with plug (Schuko or CEE).

Drainage pumps with cast iron housing DP 10 AUTOADAPT

Pump with 10 m cable, fully automatic control, free cable-end. Control with integrated level sensor. The unique AUTOADAPT-function swithes the pump automatically in and out.

The pump has got alarm relay output with potential-free contact. The DP 10 AUTOAdapt pump incorporates dry running protection, motor protection, automatic pump alternation up to 4 pumps, test run in programmed intervals, random start delay in case of general power shutdown.

Discharge horizontal as 2" AG or flange DN65, PN10

10 mm free passage. With/wo. ex-protection

speed n = 2900 min⁻¹

Pump with level sensor and AUTOADAPT-function (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	integrated Level Transmitter	Plug	Weight [kg]	Product-No.	EUR
DP10.50.09.E.2.1.502	1 x 230 V	1,3/0,9	6,1	R 2 AG	I	0	39	96 87 74 76	1.702,47
DP10.50.09.E.2.50B	3 x 400 V	1,4/0,9	2,8	R 2 AG	I	0	39	96 87 74 78	1.702,47
DP10.50.15.E.2.50B	3 x 400 V	2,2/1,5	3,8	R 2 AG	I	0	39	96 87 75 03	1.850,82
DP10.65.26.E.2.50B	3 x 400 V	3,5/2,6	5,8	DN65	I	0	61	96 87 75 06	2.143,14

Pump with level sensor and AUTOADAPT-function (explosion-proof) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	integrated Level Transmitter	Plug	Weight [kg]	Product-No.	EUR
DP10.50.09.E.Ex.2.1.502	1 x 230 V	1,3/0,9	6,1	R 2 AG	I	0	39	96 87 74 79	1.858,43
DP10.50.09.E.Ex.2.50B	3 x 400 V	1,4/0,9	2,8	R 2 AG	I	0	39	96 87 75 02	1.858,43
DP10.50.15.E.Ex.2.50B	3 x 400 V	2,2/1,5	3,8	R 2 AG	I	0	39	96 87 75 04	2.006,76
DP10.65.26.E.Ex.2.50B	3 x 400 V	3,5/2,6	5,8	DN65	I	0	61	96 87 75 07	2.299,10

Drainage pumps with cast iron housing EF 30

Pump with 10 m cable, free cable end or control box with float switch, Discharge horizontal as 2" AG, 30 mm free passage, with/wo. ex-protection speed n = 2900 min⁻¹

Pump without float switch (Product Group: CW)

Pump with 10 m cable, free cable-end or control box with float switch, discharge horizontal as 2 AG, 30 mm free passage, with/without Ex-protection Speed n = 2900 min⁻¹

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Control Unit with Floating Switch	Plug	Weight [kg]	Product-No.	EUR
EF30.50.06.2.1.502 ¹⁾	1 x 230 V	1,0/0,6	4,8	R 2 AG	0	0	38	96 10 65 46	860,56
EF30.50.06.2.50B	3 x 400 V	1,0/0,6	2,3	R 2 AG	0	0	38	96 10 65 50	860,56
EF30.50.09.2.1.502 ¹⁾	1 x 230 V	1,3/0,9	6,1	R 2 AG	0	0	39	96 11 51 11	923,42
EF30.50.09.2.50B	3 x 400 V	1,4/0,9	2,8	R 2 AG	0	0	39	96 11 51 15	923,42
EF30.50.11.2.1.502 ¹⁾	1 x 230 V	1,6/1,1	7,4	R 2 AG	0	0	39	96 10 65 54	987,73
EF30.50.11.2.50B	3 x 400 V	1,6/1,1	3,1	R 2 AG	0	0	39	96 10 65 58	987,73
EF30.50.15.2.50B	3 x 400 V	2,2/1,5	3,8	R 2 AG	0	0	39	96 10 41 96	1.071,66

Pump with float switch (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Control Unit with Floating Switch	Plug	Weight [kg]	Product-No.	EUR
EF30.50.06.A.2.1.502 ²⁾	1 x 230 V	1,0/0,6	4,8	R 2 AG	I	Schuko	39	96 10 65 48	1.131,09
EF30.50.06.A.2.50B ²⁾	3 x 400 V	1,0/0,6	2,3	R 2 AG	I	CEE	39	96 10 65 52	1.131,09
EF30.50.09.A.2.1.502 ²⁾	1 x 230 V	1,3/0,9	6,1	R 2 AG	I	Schuko	40	96 11 51 13	1.193,87
EF30.50.09.A.2.50B ²⁾	3 x 400 V	1,4/0,9	2,8	R 2 AG	I	CEE	40	96 11 51 17	1.193,87
EF30.50.11.A.2.1.502 ²⁾	1 x 230 V	1,6/1,1	7,4	R 2 AG	I	Schuko	40	96 10 65 56	1.258,23
EF30.50.11.A.2.50B ²⁾	3 x 400 V	1,6/1,1	3,1	R 2 AG	I	CEE	40	96 10 65 60	1.258,23
EF30.50.15.A.2.50B ²⁾	3 x 400 V	2,2/1,5	3,8	R 2 AG	I	CEE	40	96 10 41 98	1.342,18

Pump (explosions-proof) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Control Unit with Floating Switch	Plug	Weight [kg]	Product-No.	EUR
EF30.50.06.EX.2.1.502 ¹⁾	1 x 230 V	1,0/0,6	4,8	R 2 AG	0	0	38	96 10 65 47	985,42
EF30.50.06.EX.2.50B	3 x 400 V	1,0/0,6	2,3	R 2 AG	0	0	38	96 10 65 51	985,42
EF30.50.09.EX.2.1.502 ¹⁾	1 x 230 V	1,3/0,9	6,1	R 2 AG	0	0	39	96 11 51 12	1.048,23
EF30.50.09.EX.2.50B	3 x 400 V	1,4/0,9	2,8	R 2 AG	0	0	39	96 11 51 16	1.048,23
EF30.50.11.EX.2.1.502 ¹⁾	1 x 230 V	1,6/1,1	7,4	R 2 AG	0	0	39	96 10 65 55	1.112,58
EF30.50.11.EX.2.50B	3 x 400 V	1,6/1,1	3,1	R 2 AG	0	0	39	96 10 65 59	1.112,58
EF30.50.15.EX.2.50B	3 x 400 V	2,2/1,5	3,8	R 2 AG	0	0	39	96 10 41 97	1.196,48

¹⁾ Single phase version with free cable end, without capacitor. Operating capacitor (30 μF) in der Ansteuerung erforderlich.

²⁾ Complete with control box, 10 m cable for float switch, 3 m supply cable with plug (Schuko or CEE).

Drainage pumps with cast iron housing EF 30 AUTOADAPT

Pump with 10 m cable, fully automatic control, free cable-end. Control with integrated level sensor. The unique AUTOADAPT-function swithes the pump automatically in and out. The pump has got alarm relay output with potential-free contact. The EF 30 AUTOAdapt pump incorporates dry running protection, motor protection, automatic pump alternation up to 4 pumps, test run in programmed intervass, random start delay in case of general power shutdown..

Discharge horizontal as 2" AG
30 mm free passage, with/wo. ex-protection
speed n = 2900 min⁻¹

Pump with level sensor and AUTOADAPT-function (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	integrated Level Transmitter	Plug	Weight [kg]	Product-No.	EUR
EF30.50.06.E.2.1.502	1 x 230 V	1,0/0,6	4,8	R 2 AG	I	0	38	96 87 75 08	1.413,26
EF30.50.06.E.2.50B	3 x 400 V	1,0/0,6	2,3	R 2 AG	I	0	38	96 87 75 10	1.413,26
EF30.50.09.E.2.1.502	1 x 230 V	1,3/0,9	6,1	R 2 AG	I	0	39	96 87 75 15	1.470,66
EF30.50.09.E.2.50B	3 x 400 V	1,4/0,9	2,8	R 2 AG	I	0	39	96 87 75 16	1.470,66
EF30.50.11.E.2.1.502	1 x 230 V	1,6/1,1	7,4	R 2 AG	I	0	39	96 87 51 01	1.529,42
EF30.50.11.E.2.50B	3 x 400 V	1,6/1,1	3,1	R 2 AG	I	0	39	96 87 84 45	1.529,42
EF30.50.15.E.2.50B	3 x 400 V	2,2/1,5	3,8	R 2 AG	I	0	39	96 87 84 48	1.606,09

Pump with level sensor and AUTOADAPT-function (explosion-proof) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	integrated Level Transmitter	Plug	Weight [kg]	Product-No.	EUR
EF30.50.06.E.Ex.2.1.50Z	1 x 230 V	1,0/0,6	4,8	R 2 AG	I	0	39	96 87 75 12	1.569,23
EF30.50.06.E.Ex.2.50B	3 x 400 V	1,0/0,6	2,3	R 2 AG	I	0	39	96 87 75 14	1.569,23
EF30.50.09.E.Ex.2.1.50Z	1 x 230 V	1,3/0,9	6,1	R 2 AG	I	0	40	96 87 75 18	1.626,59
EF30.50.09.E.Ex.2.50B	3 x 400 V	1,4/0,9	2,8	R 2 AG	I	0	40	96 87 75 32	1.626,59
EF30.50.11.E.Ex.2.1.50Z	1 x 230 V	1,6/1,1	7,4	R 2 AG	I	0	40	96 87 84 46	1.685,39
EF30.50.11.E.Ex.2.50B	3 x 400 V	1,6/1,1	3,1	R 2 AG	I	0	40	96 87 84 47	1.685,39
EF30.50.15.E.Ex.2.50B	3 x 400 V	2,2/1,5	3,8	R 2 AG	I	0	40	96 87 84 49	1.762,01

Accessories (Product Group: CW)

	Pos.	Part	suitable for	Product-No.	EUR
	7 o.Abb	Ex-auxiliary relay (required for LC (D) 108 with Ex-pumps)	2 pump ON / OFF / ALARM with explosion protection	96 44 03 00	346,61
	14	0	Flange pump / outlet foot DN 65 / DN 65	96 09 09 92	209,60
				DN 65 / DN 80	96 10 22 38

Communication module for sewage pumps with AUTOADAPT (Product Group: CW)

Pos.	Part	Product-No.	EUR
22	CIU 202 data bus networks MODbus module Expansion module for AUTOADAPT pumps MODbus RTU	97 64 47 28	479,61
23	CIU 252 GSM - Module expansion module for AUTOADAPT pumps for wireless communication via SMS / GSM / GPRS	97 64 47 29	682,54
24	GSM antenna GSM quad-band antenna for CIU 252 GSM-Module	96 09 52 88	84,62
25	CIU 272 GRM - Module expansion module for sewage pumps AutoAdapt for wireless remote control via the Grundfos Remote Management	97 64 47 30	682,54

Sewage and drainage pumps with cast iron housing SL1.50**Single-channel impeller with 50 mm free passage**

Pump with 10 m cable, free cable end or control box with float switch, Discharge flange DN 65, PN 10, with/wo. ex-protection, speed n = 2900 min⁻¹

Pump without float switch (Product Group: CW)

Cast iron sewage pumps SL1.50

Single-channel impeller with 50 mm free passage

Pump with 10 m cable, free cable end or control box with float switch, discharge flange DN65, PN10, with/without Ex-protection, Speed n = 2900 min⁻¹

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Control Unit with Floating Switch	Plug	Weight [kg]	Product-No.	EUR
SL1.50.65.09.2.1.502¹⁾	1 x 230 V	1,3/0,9	6,1	DN 65	0	0	48	96 10 65 62	1.001,44
SL1.50.65.09.2.50B	3 x 400 V	1,4/0,9	2,8	DN 65	0	0	48	96 10 65 66	1.001,44
SL1.50.65.11.2.1.502¹⁾	1 x 230 V	1,6/1,1	7,4	DN 65	0	0	48	96 10 41 25	1.136,60
SL1.50.65.11.2.50B	3 x 400 V	1,6/1,1	3,1	DN 65	0	0	48	96 10 41 29	1.136,60
SL1.50.65.15.2.50B	3 x 400 V	2,2/1,5	3,8	DN 65	0	0	48	96 10 41 18	1.393,69

Pump with float switch (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Control Unit with Floating Switch	Plug	Weight [kg]	Product-No.	EUR
SL1.50.65.09.A.2.1.502²⁾	1 x 230 V	1,3/0,9	6,1	DN 65	I	Schuko	49	96 10 65 64	1.395,24
SL1.50.65.09.A.2.50B²⁾	3 x 400 V	1,4/0,9	2,8	DN 65	I	CEE	49	96 10 65 70	1.271,94
SL1.50.65.11.A.2.1.502²⁾	1 x 230 V	1,6/1,1	7,4	DN 65	I	Schuko	49	96 10 41 27	1.407,11
SL1.50.65.11.A.2.50B²⁾	3 x 400 V	1,6/1,1	3,1	DN 65	I	CEE	49	96 10 41 33	1.407,11
SL1.50.65.15.A.2.50B²⁾	3 x 400 V	2,2/1,5	3,8	DN 65	I	CEE	48	96 10 41 22	1.664,20

Pump (explosions-proof) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Control Unit with Floating Switch	Plug	Weight [kg]	Product-No.	EUR
SL1.50.65.09.EX.2.1.502¹⁾	1 x 230 V	1,3/0,9	6,1	DN 65	0	0	48	96 10 65 63	1.126,29
SL1.50.65.09.EX.2.50B	3 x 400 V	1,4/0,9	2,8	DN 65	0	0	48	96 10 65 68	1.126,29
SL1.50.65.11.EX.2.1.502¹⁾	1 x 230 V	1,6/1,1	7,4	DN 65	0	0	48	96 10 41 26	1.261,45
SL1.50.65.11.EX.2.50B	3 x 400 V	1,6/1,1	3,1	DN 65	0	0	48	96 10 41 31	1.261,45
SL1.50.65.15.EX.2.50B	3 x 400 V	2,2/1,5	3,8	DN 65	0	0	48	96 10 41 20	1.518,52

¹⁾ Single phase version with free cable end, without capacitor. Operating capacitor (30 µF) required in the control box.

²⁾ Complete with control box, 10 m cable for float switch, 3 m supply cable with plug (Schuko or CEE).

Sewage and drainage pumps with cast iron housing SL1.50 AUTOADAPT

Single-channel impeller with 50 mm free passage

Pump with 10 m cable, fully automatic control, free cable-end. Control with integrated level sensor. The unique AUTOADAPT-function swithes the pump automaticaly in and out. The pump has got alarm relay output with potential-free contact. The SL1.50 pump incorporates dry running protection, motor protection, automatic pump alternation up to 4 pumps, test run in programmed intervas, random start delay in case of general power shutdown.

Discharge flange DN65, PN10

with/wo. ex-protection

speed n = 2900 min⁻¹

Pump with level sensor and AUTOADAPT-function (Product Group: CW)

Cast iron sewage pumps SL1.50 AUTOAdapt

Single-channel impeller with 50 mm free passage

Pump with 10 m cable, fully automatic control, free cable-end. Control with integrated level sensor. The unique AUTOADAPT-function swithes the pump automaticaly in and out. The pump has got alarm relay output with potential-free contact. The SL1.50 pump incorporates dry running protection, motor protection, automatic pump alternation up to 4 pumps, test run in programmed intervas, random start delay in case of general power shutdown.

Discharge flange DN65, PN10

with/without Ex-protection

Speed n = 2900 min⁻¹

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	integrated Level Transmitter	Plug	Weight [kg]	Product-No.	EUR
SL1.50.65.09.E.2.1.502	1 x 230 V	1,3/0,9	6,1	DN 65	I	0	48	96 87 84 50	1.541,93
SL1.50.65.09.E.2.50B	3 x 400 V	1,4/0,9	2,8	DN 65	I	0	48	96 87 84 51	1.541,93
SL1.50.65.11.E.2.1.502	1 x 230 V	1,6/1,1	7,4	DN 65	I	0	48	96 87 84 54	1.665,41
SL1.50.65.11.E.2.50B	3 x 400 V	1,6/1,1	3,1	DN 65	I	0	48	96 87 84 55	1.665,41
SL1.50.65.15.E.2.50B	3 x 400 V	2,2/1,5	3,8	DN 65	I	0	48	96 87 84 58	1.900,24

Pump with level sensor and AUTOADAPT-function (explosion-proof) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	integrated Level Transmitter	Plug	Weight [kg]	Product-No.	EUR
SL1.50.65.09.E.Ex.2.1.502	1 x 230 V	1,3/0,9	6,1	DN 65	I	0	48	96 87 84 52	1.697,91
SL1.50.65.09.E.Ex.2.50B	3 x 400 V	1,4/0,9	2,8	DN 65	I	0	48	96 87 84 53	1.697,91
SL1.50.65.11.E.Ex.2.1.502	1 x 230 V	1,6/1,1	7,4	DN 65	I	0	48	96 87 84 56	1.821,37
SL1.50.65.11.E.Ex.2.50B	3 x 400 V	1,6/1,1	3,1	DN 65	I	0	48	96 87 84 57	1.821,37
SL1.50.65.15.E.Ex.2.50B	3 x 400 V	2,2/1,5	3,8	DN 65	I	0	48	96 87 84 72	2.056,19

Sewage and drainage pumps with cast iron housing SLV65

Vortex impeller with 65 mm free passage

Pump with 10 m cable, free cable end or control box with float switch, discharge flange DN65, PN10 with/wo. ex-protection
speed n = 2900 min⁻¹

Pump without float switch (Product Group: CW)

Cast iron sewage pumps SLV65

Vortex impeller with 65 mm free passage

Pump with 10 m cable, free cable end or control box with float switch, discharge flange DN65, PN10
with/without Ex-protection

Speed n = 2900 min⁻¹

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Control Unit with Floating Switch	Plug	Weight [kg]	Product-No.	EUR
SLV65.65.09.2.1.502 ¹⁾	1 x 230 V	1,3/0,9	6,1	-	0	0	41	96 11 51 19	988,40
SLV65.65.09.2.50B	3 x 400 V	1,4/0,9	2,8	DN 65	0	0	41	96 11 51 23	988,40
SLV65.65.11.2.1.502 ¹⁾	1 x 230 V	1,6/1,1	7,4	DN 65	0	0	41	96 10 65 73	1.109,56
SLV65.65.11.2.50B	3 x 400 V	1,6/1,1	3,1	DN 65	0	0	41	96 10 65 77	1.109,56
SLV65.65.15.2.50B	3 x 400 V	2,2/1,5	3,8	DN 65	0	0	41	96 10 41 92	1.366,64

Pump with float switch (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Control Unit with Floating Switch	Plug	Weight [kg]	Product-No.	EUR
SLV65.65.09.A.2.1.502 ²⁾	1 x 230 V	1,3/0,9	6,1	DN 65	I	Schuko	42	96 11 51 21	1.258,94
SLV65.65.09.A.2.50B ²⁾	3 x 400 V	1,4/0,9	2,8	DN 65	I	CEE	42	96 11 51 25	1.258,94
SLV65.65.11.A.2.1.502 ²⁾	1 x 230 V	1,6/1,1	7,4	DN 65	I	Schuko	42	96 10 65 75	1.380,06
SLV65.65.11.A.2.50B ²⁾	3 x 400 V	1,6/1,1	3,1	DN 65	I	CEE	42	96 10 65 79	1.380,06
SLV65.65.15.A.2.50B ²⁾	3 x 400 V	2,2/1,5	3,8	DN 65	I	CEE	42	96 10 41 94	1.637,13

Pump (explosions-proof) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	Control Unit with Floating Switch	Plug	Weight [kg]	Product-No.	EUR
SLV65.65.09.EX.2.1.5021, ³⁾	1 x 230 V	1,3/0,9	6,1	DN 65	0	0	41	96 11 51 20	1.113,27
SLV65.65.09.EX.2.50B ³⁾	3 x 400 V	1,4/0,9	2,8	DN 65	0	0	41	96 11 51 24	1.113,27
SLV65.65.11.EX.2.1.5021, ³⁾	1 x 230 V	1,6/1,1	7,4	DN 65	0	0	41	96 10 65 74	1.234,43
SLV65.65.11.EX.2.50B ³⁾	3 x 400 V	1,6/1,1	3,1	DN 65	0	0	41	96 10 65 78	1.234,43
SLV65.65.15.EX.2.50B ³⁾	3 x 400 V	2,2/1,5	3,8	DN 65	0	0	41	96 10 41 93	1.491,45

¹⁾ Single phase version with free cable end, without integrated capacitor. Operating capacitor (30 microF) required in control unit.

²⁾ Complete with control box, 10 m cable for float switch, 3 m supply cable with plug (Schuko or CEE).

³⁾ SLV65 can be used for sewage with faeces also (ex-version), however the piping must be DN 80.

Sewage and drainage pumps with cast iron housing SLV65 AUTOADAPT

Vortex impeller with 65 mm free passage

Pump with 10 m cable, fully automatic control, free cable-end. Control with integrated level sensor. The unique AUTOADAPT-function switches the pump automatically in and out. The pump has got alarm relay output with potential-free contact. The SLV65 AUTOAdapt pump incorporates dry running protection, motor protection, automatic pump alternation up to 4 pumps, test run in programmed intervals, random start delay in case of general power shutdown.

Discharge flange DN65, PN10

with/wo. ex-protection

speed n = 2900 min⁻¹

Pump with level sensor and AUTOADAPT-function (Product Group: CW)

Sewage pumps SLV65 AUTOAdapt, cast iron

Vortex impeller with 65 mm free passage

Pump with 10 m cable, fully automatic control, free cable-end. Control with integrated level sensor. The unique AUTOADAPT-function switches the pump automatically in and out.

The pump has got alarm relay output with potential-free contact. The SLV65 AUTOAdapt pump incorporates dry running protection, motor protection, automatic pump alternation up to 4 pumps, test run in programmed intervals, random start delay in case of general power shutdown.

Discharge flange DN65, PN10

with/without Ex-protection

Speed n = 2900 min⁻¹

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	integrated Level Transmitter	Plug	Weight [kg]	Product-No.	EUR
SLV65.65.09.E.2.1.502	1 x 230 V	1,3/0,9	6,1	DN 65	I	0	41	96 87 84 74	1.530,04
SLV65.65.09.E.2.50B	3 x 400 V	1,4/0,9	2,8	DN 65	I	0	41	96 87 84 75	1.530,04
SLV65.65.11.E.2.1.502	1 x 230 V	1,6/1,1	7,4	DN 65	I	0	41	96 88 26 85	1.640,69
SLV65.65.11.E.2.50B	3 x 400 V	1,6/1,1	3,1	DN 65	I	0	41	96 88 26 86	1.640,69
SLV65.65.15.E.2.50B	3 x 400 V	2,2/1,5	3,8	DN 65	I	0	41	96 87 85 03	1.875,53

Pump with level sensor and AUTOADAPT-function (explosion-proof) (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Discharge Nozzle	integrated Level Transmitter	Plug	Weight [kg]	Product-No.	EUR
SLV65.65.09.E.Ex.2.1.502³⁾	1 x 230 V	1,3/0,9	6,1	DN 65	I	0	41	96 87 84 76	1.686,01
SLV65.65.09.E.Ex.2.50B³⁾	3 x 400 V	1,4/0,9	2,8	DN 65	I	0	41	96 87 84 77	1.686,01
SLV65.65.11.E.Ex.2.1.502³⁾	1 x 230 V	1,6/1,1	7,4	DN 65	I	0	41	96 87 84 80	1.796,68
SLV65.65.11.E.Ex.2.50B³⁾	3 x 400 V	1,6/1,1	3,1	DN 65	I	0	41	96 87 84 81	1.796,68
SLV65.65.15.E.Ex.2.50B³⁾	3 x 400 V	2,2/1,5	3,8	DN 65	I	0	41	96 87 85 04	2.031,45

³⁾ SLV65 can be used for sewage with faeces also (ex-version), however the piping must be DN 80.

Accessories (Product Group: CW)

Pos.	Part	suitable for	Product-No.	EUR
7 o. Abb	Ex-auxiliary relay (required for LC (D) 108 with Ex-pumps)	with explosion protection	96 44 03 00	346,61
14	Auto-coupling with pump-side guide claw, shaft attachment	Flange pump / outlet foot DN 65 / DN 65	96 09 09 92	209,60
14	Autocoupling	DN 65 / DN 80	96 10 22 38	276,13

Communication module for sewage pumps with AUTOADAPT (Product Group: CW)

Pos.	Part	Product-No.	EUR
22	CIU 202 data bus networks MODbus module Expansion module for AUTOADAPT pumps MODbus RTU	97 64 47 28	479,61
23	CIU 252 GSM-Module expansion module for AUTOADAPT pumps for wireless communication via SMS / GSM / GPRS	97 64 47 29	682,54
24	GSM antenna GSM quad-band antenna for CIU 252 GSM-Module	96 09 52 88	84,62
25	CIU 272 GRM - Module expansion module for sewage pumps AutoAdapt for wireless remote control via the Grundfos Remote Management	97 64 47 30	682,54

Contractor pumps DW

with polypropylene sleeve pump with 20 m cable, motor with thermal switch, 3-ph. Motors with protection switch starting method: direct, speed = 2800 min⁻¹

Pump without level switch (Product Group: CW)

Contractor pumps DW with polypropylene sleeve pump with 20 m cable, motor with thermal switch, 3-phase motors including motor protection starting method: direct, speed = 2800 min⁻¹

Type	Voltage [V]	Nominal Current	Discharge Nozzle	Plug	Weight [kg]	Product-No.	EUR
DW.50.08.1	1 x 230 V	6	R 2 AG/ Storz C	Schuko	13	96 09 02 00	1.182,03
DW.50.08.3	3 x 400 V	2,5	R 2 AG/ Storz C	CEE, 16 A	13	96 09 02 02	1.344,33
DW.50.08.3	3 x 400V	2,5	Thread R 2	NONE	13	96 09 02 36	1.080,68

Pump with level switch (Product Group: CW)

Type	Voltage [V]	Nominal Current	Discharge Nozzle	Plug	Weight [kg]	Product-No.	EUR
DW.50.08.A1	1 x 230 V	6	R 2 AG/ Storz C	Schuko	13	96 09 02 01	1.317,50
DW.50.08.A1	1 x 230 V	6	Thread R 2	NONE	13	96 09 02 35	1.262,09
DW.50.08.A3	3 x 400 V	2,5	R 2 AG/ Storz C	CEE, 16 A	13	96 09 02 03	1.450,11
DW.50.08.A3	3 x 400V	2,5	Thread R 2	NONE	13	96 09 02 37	1.210,39

Contractor pumps DW

made of cast aluminium, direct start

pump with 20 m cable, motor with thermal switch, 3-phase motors to P2 = 11 kW incl. motor starter with phase sequence change. Starting method: direct, speed = 2800 min⁻¹

Pump with electrode level control (Product Group: CW)

Contractor pump DW in cast aluminium housing, direct start pump with 20 m cable, motor with thermal switch 3-phase motors up to P2 = 11 kW including motor protection and plug with phase sequence switch. Starting method: direct, speed = 2800 min⁻¹

Type	Voltage [V]	Nominal Current	Discharge Nozzle	Plug	Weight [kg]	Product-No.	EUR
DW.50.07.A1	1 x 230V	4,0	R 2 AG/ Storz C	Schuko	18	96 09 02 39	2.568,79
DW.50.07.A1	1 x 230V	4	Thread R 2	NONE	18	96 09 02 05	2.587,07
DW.50.09.A3	3 x 400V DOL	2,4	R 2 AG/ Storz C	CEE, 16 A	18	96 09 02 54	2.629,88
DW.50.09.A3	3 x 400V DOL	2,6	Thread R 2	NONE	18	96 09 02 07	2.387,87
DW.65.27.A	3 x 400V DOL	6,2	R 2½ AG/ Storz B	CEE, 16 A	33	96 09 02 55	3.163,43
DW.65.27.A3	3 x 400V DOL	6,2	Thread R 2 1/2	NONE	33	96 09 02 09	2.890,78
DW.65.39.A3.H	3 x 400V DOL	8,6	Thread R 2 1/2	NONE	38	96 09 02 11	3.665,89
DW.65.39.AH	3 x 400V DOL	8,6	R 2½ AG/ Storz B	CEE, 16 A	38	96 09 02 56	4.009,49
DW.100.39.A3	3 x 400V DOL	8,6	Thread R 4	NONE	38	96 09 02 13	3.638,15
DW.100.39.A3	3 x 400V DOL	8,6	R 4 / Storz A	CEE	38	96 09 02 57	3.946,04
DW.100.66.A3	3 x 400V DOL	12,5	Thread R 4	NONE	51	96 09 02 15	4.099,10
DW.100.66.A3	3 x 400V DOL	12,5	R 4 / Storz A	CEE	51	96 09 02 59	4.400,93
DW.100.110.A3.H	3 x 400V DOL	21	Thread R 4	NONE	110	96 09 02 17	8.660,61
DW.100.110.A3.H	3 x 400V Y/D	21	Thread R 4	NONE	110	96 09 02 21	8.963,77
DW.100.110.A3.H	3 x 400V DOL	21	R 4 / Storz A	CEE	110	96 09 02 60	9.135,34
DW.100.200.A3.H	3 x 400V DOL	40	Thread R 4	NONE	148	96 09 02 25	11.593,64
DW.100.200.A3.H	3 x 400V Y/D	40	Thread R 4	NONE	148	96 09 02 29	11.863,95
DW.100.66.A3.H	3 x 400V DOL	12,5	Thread R 4	NONE	51	96 09 02 33	4.322,58
DW.100.66.A3.H	3 x 400V DOL	12,5	R 4 / Storz A	CEE	51	96 09 02 58	4.714,58
DW.150.110.A	3 x 400V DOL	21	R 6 AG/ Storz F	CEE, 32 A	110	96 09 02 61	8.695,87
DW.150.110.A3	3 x 400V DOL	23	Thread R 6	NONE	110	96 09 02 19	8.150,60
DW.150.110.A3	3 x 400V Y/D	23	Thread R 6	NONE	110	96 09 02 23	8.456,13
DW.150.200.A3	3 x 400V DOL	41	Thread R 6	NONE	148	96 09 02 27	11.043,77
DW.150.200.A3	3 x 400V Y/D	41	Thread R 6	NONE	148	96 09 02 31	11.532,58

Pump without level switch (Product Group: CW)

Type	Voltage [V]	Nominal Current	Discharge Nozzle	Plug	Weight [kg]	Product-No.	EUR
DW.50.07.1	1 x 230 V	4,0	R 2 AG/ Storz C	Schuko	17	96 09 02 38	2.141,39
DW.50.07.1	1 x 230V	4	R 2	NONE	17	96 09 02 04	2.196,62
DW.50.07.1	1 x 230V	4	2" / Hose	SCHUKO	17	96 09 02 99	2.425,43
DW.50.09.3	3 x 400 V DOL	2,4	R 2 AG/ Storz C	CEE, 16 A	17	96 09 02 53	2.287,66
DW.50.09.3	3 x 400 V DOL	2,6	Thread R 2	NONE	17	96 09 02 06	2.040,88
DW.50.09.3	3 x 400 V DOL	2,6	2" / Hose	CEE	17	96 09 03 00	2.493,60
DW.65.27	3 x 400 V DOL	6,2	R 2½ AG/ Storz B	CEE, 16 A	33	96 09 02 40	2.747,57
DW.65.27.3	3 x 400 V DOL	6,2	Thread R 2 1/2	NONE	33	96 09 02 08	2.480,24
DW.65.27.3	3 x 400 V DOL	6,2	3" / Hose	CEE	33	96 09 03 01	3.111,70
DW.65.39.3.H	3 x 400 V DOL	8,6	Thread R 2 1/2	NONE	38	96 09 02 10	3.172,80
DW.65.39.3.H	3 x 400 V DOL	8,6	3" / Hose	CEE	38	96 09 03 02	3.750,31
DW.65.39.H	3 x 400 V DOL	8,6	R 2½ AG/ Storz B	CEE, 16 A	38	96 09 02 41	3.440,73
DW.100.39.3	3 x 400V DOL	8,6	Thread R 4	NONE	38	96 09 02 12	3.026,49
DW.100.39.3	3 x 400V DOL	8,6	R 4 / Storz A	CEE	38	96 09 02 42	3.393,74
DW.100.39.3	3 x 400V DOL	8,6	4" H	CEE	38	96 09 02 98	3.769,75
DW.100.66.3	3 x 400V DOL	12,5	R 4	NONE	51	96 09 02 14	3.698,16
DW.100.66.3	3 x 400V DOL	12,5	R 4 / Storz A	CEE	51	96 09 02 44	3.999,23

Type	Voltage [V]	Nominal Current	Discharge Nozzle	Plug	Weight [kg]	Product-No.	EUR
DW.100.66.3	3 x 400V DOL	12,5	4" H	CEE	51	96 09 03 04	4.531,26
DW.100.66.3.H	3 x 400V DOL	12,5	Thread R 4	NONE	51	96 09 02 32	4.009,49
DW.100.66.3.H	3 x 400V DOL	12,5	R 4 / Storz A	CEE	51	96 09 02 43	4.312,66
DW.100.66.3.H	3 x 400V DOL	12,5	4" / Hose	CEE	51	96 09 03 03	4.792,11
DW.100.110.3.H	3 x 400V DOL	21	Thread R 4	NONE	110	96 09 02 16	7.906,14
DW.100.110.3.H	3 x 400V Y/D	21	Thread R 4	NONE	110	96 09 02 20	8.366,82
DW.100.110.3.H	3 x 400V DOL	21	R 4 / Storz A	CEE	110	96 09 02 45	8.380,90
DW.100.110.3.H	3 x 400V Y/D	21	R 4 / Storz A	NONE	110	96 09 02 47	8.315,11
DW.100.110.3.H	3 x 400V DOL	21	4" / Hose	CEE	110	96 09 03 05	9.311,60
DW.100.110.3.H	3 x 400V DOL	21	Thread R 4	NONE	110	96 09 03 24	7.642,95
DW.100.200.3.H	3 x 400V DOL	40	Thread R 4	NONE	148	96 09 02 24	10.999,06
DW.100.200.3.H	3 x 400V Y/D	40	Thread R 4	NONE	148	96 09 02 28	11.078,97
DW.100.200.3.H	3 x 400V DOL	40	R 4 / Storz A	NONE	148	96 09 02 49	10.688,38
DW.100.200.3.H	3 x 400V Y/D	40	R 4 / Storz A	NONE	148	96 09 02 51	10.960,81
DW.100.200.3.H	3 x 400V DOL	40	R 4 / Storz A	NONE	148	96 09 02 68	11.093,07
DW.100.200.3.H	3 x 400V Y/D	40	R 4 / Storz A	NONE	148	96 09 02 70	10.712,09
DW.100.200.3.H	3 x 400V DOL	40	4" / Hose	NONE	148	96 09 03 06	11.652,41
DW.150.110	3 x 400V DOL	21	R 6 AG/ Storz F	CEE, 32 A	110	96 09 02 46	8.096,54
DW.150.110.3	3 x 400V DOL	23	Thread R 6	NONE	110	96 09 02 18	7.553,63
DW.150.110.3	3 x 400V DOL	23	Thread R 6	NONE	110	96 09 02 22	7.793,28
DW.150.110.3	3 x 400V Y/D	23	Thread R 6	NONE	110	96 09 02 73	7.419,69
DW.150.110.3	3 x 400V DOL	23	6" / Hose	CEE	110	96 09 03 07	8.996,67
DW.150.200	3 x 400V DOL	40	R 6 AG/ Storz F	CEE, 32 A	148	96 09 02 69	10.761,70
DW.150.200.3	3 x 400V DOL	41	Thread R 6	NONE	148	96 09 02 26	10.667,67
DW.150.200.3	3 x 400V Y/D	41	Thread R 6	NONE	148	96 09 02 30	10.937,95
DW.150.200.3	3 x 400V Y/D	41	R 6 / Storz F	NONE	148	96 09 02 71	11.031,96
DW.150.200.3	3 x 400V DOL	41	6" / Hose	NONE	148	96 09 03 08	11.360,97

Contractor pumps DW (Product Group: CW)

made of cast aluminium, star/delta start pump with 20 m cable and free cable-end, motor with thermal switch with free cable-end
Starting method: star/delta, speed = 2800 min-1 (external control required)

Type	Voltage [V]	Nominal Current	Discharge Nozzle	Weight [kg]	Product-No.	EUR
DW.150.110	3 x 400 V	21	R 6 AG/ Storz F	110	96 09 02 48	7.811,75
DW.150.200	3 x 400 V	40	R 6 AG/ Storz F	148	96 09 02 52	10.916,83

Contractor pumps DWK (Product Group: CW)

Grundfos DWK pump is a submersible pump for dewatering and drainage applications. The pump is suitable for pumping large quantities of underground and surface water-drainage water at high head-water with dirt from drainage pits. The compact design makes the pump suitable for both temporary and permanent installation.

Type	Voltage [V]	Nominal Current	Discharge Nozzle	Plug	Weight [kg]	Product-No.	EUR
DWK.O.6.50.075.5.0D.R	3 x 380-415 V DOL	2	50	no	39	96 92 27 19	750,45
DWK.O.6.50.15.5.0D.R	3 x 380-415 V DOL	3,6	50	no	41	96 92 27 21	777,99
DWK.O.6.80.15.5.0D.R	3 x 380-415 V DOL	3,6	80	no	41	96 92 27 23	816,88
DWK.O.6.50.22.5.0D.R	3 x 380-415 V DOL	5,1	50	no	45	96 92 27 25	832,24
DWK.O.6.80.22.5.0D.R	3 x 380-415 V DOL	3	80	no	45	96 92 27 27	873,85
DWK.O.10.80.37.5.0D.R	3 x 380-415 V DOL	8,2	80	no	81	96 92 27 29	1.209,45
DWK.O.10.100.37.5.0D.R	3 x 380-415 V DOL	8,2	100	no	81	96 92 27 31	1.269,92
DWK.O.13.80.55.5.0D.R	3 x 380-415 V DOL	11,9	80	no	110	96 92 27 33	1.599,07
DWK.O.13.100.55.5.0D.R	3 x 380-415 V DOL	11,9	100	no	110	96 92 27 35	1.679,04
DWK.O.13.100.75.5.0D.R	3 x 380-415 V DOL	16	100	no	156	96 92 27 37	1.753,41
DWK.O.13.150.75.5.0D.R	3 x 380-415 V DOL	16	150	no	156	96 92 27 39	1.841,08
DWK.O.13.100.110.5.0D.R	3 x 380-415 V DOL	23	100	no	190	96 92 27 41	2.293,90
DWK.O.13.150.110.5.0D.R	3 x 380-415 V DOL	23	150	no	190	96 92 27 43	2.362,72
DWK.O.13.100.150.5.0D.R	3 x 380-415 V DOL	31	100	no	195	96 92 27 45	2.417,45
DWK.O.13.150.150.5.0D.R	3 x 380-415 V DOL	31	150	no	195	96 92 27 46	2.489,98
DWK.O.13.80.55.5.1D.R	3 x 380-415 V Y/D	11,9	80	no	110	96 92 60 78	1.599,07
DWK.O.13.100.55.5.1D.R	3 x 380-415 V Y/D	11,9	100	no	110	96 92 60 80	1.679,04
DWK.O.13.100.75.5.1D.R	3 x 380-415 V Y/D	16	100	no	156	96 92 60 82	1.753,41
DWK.O.13.150.75.5.1D.R	3 x 380-415 V Y/D	16	150	no	156	96 92 60 84	1.841,08
DWK.O.13.100.110.5.1D.R	3 x 380-415 V Y/D	23	100	no	190	96 92 60 86	2.293,90
DWK.O.13.150.110.5.1D.R	3 x 380-415 V Y/D	23	150	no	190	96 92 60 88	2.362,72
DWK.O.13.100.150.5.1D.R	3 x 380-415 V Y/D	31	100	no	195	96 92 60 90	2.417,45
DWK.O.13.150.150.5.1D.R	3 x 380-415 V Y/D	31	100	no	195	96 92 60 92	2.489,98

DrainageDewatering pumps DPK (Product Group: CW)

Grundfos DPK pump is a submersible pump for drainage applications. The pump has semi-open impeller for 15 mm free passage and is suitable for pumping large quantities of underground and surface water-drainage water at high head. The compact design makes the pump suitable for both temporary and permanent installation. DPK pumps up to and including 2.2 kW are supplied with ring stand.

DPK pumps of 3.7 kW and up are supplied without ringstand.

Ring stand, elbow or auto coupling for these pumps.

As standard, DPK pumps have no discharge connection. If the installation connection is required, ask for an adapter. must be ordered as accessories.

Type	Voltage [V]	Nominal Current	Discharge Nozzle	Plug	Weight [kg]	Product-No.	EUR
DPK.10.50.075.5.0D	3 x 380-415 V DOL	3,6	50	no	31	96 88 40 78	550,41
DPK.10.50.15.5.0D	3 x 380-415 V DOL	3,6	50	no	35	96 88 40 80	571,16
DPK.15.80.55.5.0D	3 x 380-415 V DOL	11,9	80	no	113	96 88 40 86	1.379,12
DPK.15.100.75.5.0D	3 x 380-415 V DOL	16	100	no	118	96 88 40 88	1.479,19
DPK.20.100.110.5.0D	3 x 380-415 V DOL	23	100	no	166	96 88 40 90	2.125,88
DPK.10.80.22.5.0D	3 x 380-415 V DOL	3	80	no	40	96 88 41 12	602,73
DPK.15.80.37.5.0D	3 x 380-415 V DOL	8,2	80	no	60	96 88 41 14	912,94
DPK.15.80.55.5.1D	3 x 380-415 V Y/D	11,9	80	no	113	96 92 60 30	1.379,12
DPK.15.100.75.5.1D	3 x 380-415 V Y/D	16	100	no	118	96 92 60 32	1.479,19
DPK.20.100.110.5.1D	3 x 380-415 V Y/D	23	100	no	166	96 92 60 34	2.125,88
DPK.20.100.150.5.1D	3 x 380-415 V Y/D	31	100	no	177	96 92 60 36	2.200,46

POMONA PO07 - PO42 (Product Group: CW)

Selfpriming, robust waste water pump for stationary, portable and mobile use, with free passage up to 230 mm, made of cast iron with electric motors or combustion engines (diesel and gas).

Type	Model for	Connection	Motor data	Material of Impeller	Free Passage	Product-No.	EUR
PO 07	bare shaft	Suction and discharge G ¾ IG	Req motor 0.25 kW at 2900 min-1	GG 20	3 mm	L6 12 66 67	559,78
PO 07	bloc version with three phase motor, with handle, mounted on baseframe.	Suction and discharge G ¾ IG	1 x AC 230 V, 50 Hz 0.25 kW, In = 1.12 A 2900 min-1, IP 55	G-CuSn 10	3 mm	L6 12 66 59	824,66
PO 07	in bloc design with three-phase motor, with handle, mounted on a base plate.	Suction and discharge G ¾ IG	Three phase 3 x 400 V, 50 Hz 0.25 kW, In = 0.65 A 2900 min-1, IP 55	G-CuSn 10	3 mm	L6 12 66 61	733,10
PO 23	bare shaft	Suction and discharge G 2 IG	Req motor 1.5 kW at 2900 min-1	GG 20	10 mm	L6 12 47 37	1.079,34
PO 23	bare shaft	Suction and discharge G 2 IG	Req motor 1.5 kW at 2900 min-1	G-CuSn 10	10 mm	L6 12 47 10	1.182,99
PO 23	bloc version with three phase motor on carrying frame	Suction and discharge G 2 IG	1 x AC 230 V, 50 Hz 1.25 kW, In = 8 A 2900 min-1, IP 55	GG 20	10 mm	L6 12 46 73	2.044,69
PO 23	bloc version with three phase motor and base frame	Suction and discharge G 2 IG	Three phase 3 x 400 V, 50 Hz 1.5 kW 2900 min-1, IP 55	GG 20	10 mm	L6 12 46 83	1.732,25
PO 23	bloc version with three phase motor on carrying frame	Suction and discharge G 2 IG	Three phase 3 x 400 V, 50 Hz 1.5 kW 2900 min-1, IP 55	GG 20	10 mm	L6 12 46 72	1.501,20
PO 23	bloc version with three phase motor on carrying frame	Suction and discharge G 2 IG	Three phase 3 x 400 V, 50 Hz 1.5 kW 2900 min-1, IP 55	G-CuSn 10	10 mm	L6 12 46 74	1.507,30
PO 23	with coupling and 4-stroke petrol engine, starter, mounted on carrying frame.	Suction and discharge G 2 IG	Gasoline engine 4-stroke 4.85 kW 3600 min-1	GG 20	10 mm	L6 12 44 35	1.767,83
PO 32	bare shaft	Suction and Discharge G 3 IG	Req motor 11.0 kW 2900 min-1	GG 20	20 mm	L6 12 42 90	1.867,59
PO 32	bloc version with three phase motor and base frame	Suction and Discharge G 3 IG	Three phase 3 x 400 V, 50 Hz, 4.0 kW, In = 8.9 A 2900 min-1, IP 55	GG 20	20 mm	L6 12 56 28	3.297,58
PO 32	bloc version with three phase motor and base frame	Suction and Discharge G 3 IG	Three phase 3 x 400 V, 50 Hz, 4.0 kW, In = 8.9 A 2900 min-1, IP 55	G-CuSn 10	20 mm	L6 12 56 29	3.188,26
PO 32	bloc version with three phase motor on carrying frame	Suction and Discharge G 3 IG	Three phase 3 x 400 V, 50 Hz, 4.0 kW, In = 8.9 A 2900 min-1, IP 55	GG 20	20 mm	L6 12 39 86	3.458,42
PO 32	with coupling and 4-stroke diesel engine, starter, mounted on carrying frame.	Suction and Discharge G 3 IG	4-stroke diesel engine 4.6 kW 3000 min-1	GG 20	20 mm	L6 12 51 56	5.903,02
PO 32	with coupling and 4-stroke diesel engine, starter, automatic decompression, oil bath air filter, mounted on trolley.	Suction and Discharge G 3 IG	4-stroke diesel engine 4.6 kW 3000 min-1	GG 20	20 mm	L6 12 54 23	6.745,52
PO 42	bare shaft	Suction and discharge G 4 IG	Req motor 11,0 kW 2900 min-1	GG 20	30 mm	L6 12 34 39	2.846,68
PO 42	bare shaft	Suction and discharge G 4 IG	Req motor 11,0 kW 2900 min-1	G-CuSn 10	30 mm	L6 12 34 12	2.754,71
PO 42	with coupling and 4-stroke diesel engine with coupling and 4-stroke diesel engine, mit E-Starter mounted on baseframe.	Suction and discharge G 4 IG	4-stroke diesel engine 13.1 kW 3000 min-1	GG 20	30 mm	L6 24 00 04	15.178,56
PO 42	with coupling and 4-stroke diesel engine, with starter mounted on trolley.	Suction and discharge G 4 IG	4-stroke diesel engine 13.1 kW 3000 min-1	GG 20	30 mm	L6 24 00 22	17.999,82

Chapter 14

Sewage pumps



SEG sewage pumps with grinder system

Pump made of cast iron/stainless steel with 10 m cable, fully automatic control, free cable-end. Speed: 2900 min⁻¹
Discharge with combi-flange DN 40/50, PN 10, with/without Ex-protection.

Pump with explosion protection (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Connection	Coupling	Weight [kg]	Product-No.	EUR
SEG.40.09.Ex.2.1.502 ¹⁾	1 x 230 V	1,4 / 0,9	6,1	DN 40/50	Rp 1½ IG	38	96 07 58 94	1.341,98
SEG.40.09.Ex.2.50B	3 x 400 V	1,4 / 0,9	2,6	DN 40/50	Rp 1½ IG	38	96 07 58 98	1.341,98
SEG.40.12.Ex.2.1.502 ¹⁾	1 x 230 V	1,8 / 1,2	8,2	DN 40/50	Rp 1½ IG	38	96 07 59 02	1.341,98
SEG.40.12.Ex.2.50B	3 x 400 V	1,8 / 1,2	3,1	DN 40/50	Rp 1½ IG	38	96 07 59 06	1.341,98
SEG.40.15.Ex.2.50B	3 x 400 V	2,3 / 1,5	3,8	DN 40/50	Rp 1½ IG	38	96 07 59 10	1.461,57
SEG.40.26.Ex.2.50B	3 x 400 V	3,7 / 2,6	6,1	DN 40/50	Rp 1½ IG	57	96 07 59 14	1.779,13
SEG.40.31.Ex.2.50B	3 x 400 V	3,9 / 3,1	6,3	DN 40/50	Rp 1½ IG	65	96 07 59 16	1.840,04
SEG.40.40.Ex.2.50B	3 x 400 V	5,2 / 4,0	8,2	DN 40/50	Rp 1½ IG	65	96 07 59 18	2.146,68

Non explosion-proof pumps (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Connection	Coupling	Weight [kg]	Product-No.	EUR
SEG.40.09.2.1.502 ¹⁾	1 x 230 V	1,4 / 0,9	6,1	DN 40/50	Rp 1½ IG	38	96 07 58 93	1.213,63
SEG.40.09.2.50B	3 x 400 V	1,4 / 0,9	2,6	DN 40/50	Rp 1½ IG	38	96 07 58 97	1.213,63
SEG.40.12.2.1.502 ¹⁾	1 x 230 V	1,8 / 1,2	8,2	DN 40/50	Rp 1½ IG	38	96 07 59 01	1.213,63
SEG.40.12.2.50B	3 x 400 V	1,8 / 1,2	3,1	DN 40/50	Rp 1½ IG	38	96 07 59 05	1.213,63
SEG.40.15.2.50B	3 x 400 V	2,3 / 1,5	3,8	DN 40/50	Rp 1½ IG	38	96 07 59 09	1.370,26
SEG.40.26.2.50B	3 x 400 V	3,7 / 2,6	6,1	DN 40/50	Rp 1½ IG	57	96 07 59 13	1.700,77
SEG.40.31.2.50B	3 x 400 V	3,9 / 3,1	6,3	DN 40/50	Rp 1½ IG	65	96 07 59 15	1.761,74
SEG.40.40.2.50B	3 x 400 V	5,2 / 4,0	8,2	DN 40/50	Rp 1½ IG	65	96 07 59 17	2.055,35

¹⁾ Single phase version with free cable end, without integrated capacitor. Operating capacitor (30 microF) required in control unit.

SEG AUTOADAPT sewage pumps with grinder system

Pump made of cast iron/stainless steel with 10 m cable, fully automatic control, free cable-end. Control with integrated level sensor. The unique AUTOADAPT-function swithes the pump automatically in and out. The pump has got alarm relay output with potential-free contact. The SEG AUTOADAPT pumps incorporate dry running protection, motor protection, automatic pump alternation up to 4 pumps, test run in programmed intervals, random start delay in case of general power shutdown. Motor speed 2900 min⁻¹, with/without Ex-protection. Discharge with combi-flange DN 40/50, PN 10

Pump with level sensor and AUTOADAPT-function (explosion-proof) (Product Group: CW)

Sewage pumps with grinder system SEG AUTOADAPT

Pump made of cast iron/stainless steel with 10 m cable, fully automatic control, free cable-end. Control with integrated level sensor. The unique AUTOADAPT-function swithes the pump automatically in and out. The pump has got alarm relay output with potential-free contact. The SEG AUTOADAPT pump incorporates dry running protection, motor protection, automatic pump alternation up to 4 pumps, test run in programmed intervals, random start delay in case of general power shutdown.

Motor speed: 2900 min⁻¹, with/without Ex-protection.

Discharge with combi-flange DN 40/50, PN 10

Type	Voltage [V]	Performance	Nominal Current	Connection	Coupling	Weight [kg]	Product-No.	EUR
SEG.40.09.E.Ex.2.1.502	1 x 230 V	1,4 / 0,9	6,1	DN 40/50	Rp 1½ IG	38	96 87 85 07	1.894,93
SEG.40.09.E.Ex.2.50B	3 x 400 V	1,4 / 0,9	2,6	DN 40/50	Rp 1½ IG	38	96 87 85 08	1.894,93
SEG.40.12.E.Ex.2.1.502	1 x 230 V	1,8 / 1,2	8,2	DN 40/50	Rp 1½ IG	38	96 87 85 12	1.894,93
SEG.40.12.E.Ex.2.50B	3 x 400 V	1,8 / 1,2	3,1	DN 40/50	Rp 1½ IG	38	96 87 85 13	1.894,93
SEG.40.15.E.Ex.2.50B	3 x 400 V	2,3 / 1,5	3,8	DN 40/50	Rp 1½ IG	38	96 87 85 15	1.989,49
SEG.40.26.E.Ex.2.50B	3 x 400 V	3,7 / 2,6	6,1	DN 40/50	Rp 1½ IG	57	96 87 85 17	2.354,67
SEG.40.31.E.Ex.2.50B	3 x 400 V	3,9 / 3,1	6,3	DN 40/50	Rp 1½ IG	65	96 87 85 19	2.410,27
SEG.40.40.E.Ex.2.50B	3 x 400 V	5,2 / 4,0	8,2	DN 40/50	Rp 1½ IG	65	96 87 85 21	2.690,39

Pump with level sensor and AUTOADAPT-function (Product Group: CW)

Type	Voltage [V]	Performance	Nominal Current	Connection	Coupling	Weight [kg]	Product-No.	EUR
SEG.40.09.E.2.1.502	1 x 230 V	1,4 / 0,9	6,1	DN 40/50	Rp 1½ IG	38	96 87 85 05	1.735,77
SEG.40.09.E.2.50B	3 x 400 V	1,4 / 0,9	2,6	DN 40/50	Rp 1½ IG	38	96 87 85 06	1.735,77
SEG.40.12.E.2.1.502	1 x 230 V	1,8 / 1,2	8,2	DN 40/50	Rp 1½ IG	38	96 87 85 09	1.735,77
SEG.40.12.E.2.50B	3 x 400 V	1,8 / 1,2	3,1	DN 40/50	Rp 1½ IG	38	96 87 85 10	1.735,77
SEG.40.15.E.2.50B	3 x 400 V	2,3 / 1,5	3,8	DN 40/50	Rp 1½ IG	38	96 87 85 14	1.878,83
SEG.40.26.E.2.50B	3 x 400 V	3,7 / 2,6	6,1	DN 40/50	Rp 1½ IG	57	96 87 85 16	2.241,14
SEG.40.31.E.2.50B	3 x 400 V	3,9 / 3,1	6,3	DN 40/50	Rp 1½ IG	65	96 87 85 18	2.296,84
SEG.40.40.E.2.50B	3 x 400 V	5,2 / 4,0	8,2	DN 40/50	Rp 1½ IG	65	96 87 85 20	2.565,05

SLV cast iron sewage pumps

Hydraulic parts made of cast iron, with SuperVortex impeller. Easy to install and easy to service due to clamp connection of motor and pump unit. Pump with 10 m cable and free cable-end. Polyurethane-filled stainless steel cable connection to the motor. Pumps with/without sensors (analog sensor to measure water-in-oil content in oil chamber, insulation resistance, moisture in motor stator, complete with sensor module.)

65 mm free passage SLV.65, Ex-pump with discharge DN 65 (Product Group: CW)

Sewage pumps SLV

Hydraulic parts made of cast iron, with SuperVortex impeller. Easy to install and easy to service due to clamp connection of motor and pump unit. Pump with 10 m cable and free cable-end. Polyurethane-filled stainless steel cable connection to the motor. Pumps with/without sensors (analog sensor to measure water-in-oil content in oil chamber, insulation resistance, moisture in motor stator, complete with sensor module.) 65 mm free passage

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SLV.65.65.22.Ex.2.50D	3 x 380 – 415	Direct	2,8/2,2	4,9/43	2895	88	96 87 20 31	1.883,49	-	-
SLV.65.65.22.Ex.2.50D	3 x 380 – 415	Direct	2,8/ 2,2	4,9/43	2895	88	-	-	96 87 21 90	2.779,73
SLV.65.65.30.Ex.2.50D	3 x 380 – 415	Direct	3,8/3,0	6,8/59,8	2910	91	96 87 20 45	2.109,45	-	-
SLV.65.65.30.Ex.2.50D	3 x 380 – 415	Direct	3,8/ 3,0	6,8/59,8	2910	91	-	-	96 87 21 92	3.004,19
SLV.65.65.40.Ex.2.51D	3 x 380 – 415	Star / Delta	4,8/4,0	8,5/93	2925	117	96 87 20 50	2.512,85	-	-
SLV.65.65.40.Ex.2.51D	3 x 380 – 415	Star / Delta	4,8/ 4,0	8,5/93	2925	117	-	-	96 87 21 94	3.407,59

SLV.65, Ex-pump with discharge DN 80 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SLV.65.80.22.Ex.2.50D	3 x 380 – 415	Direct	2,8/2,2	4,9/43	2895	89	96 87 20 51	1.891,09	-	-
SLV.65.80.22.Ex.2.50D	3 x 380 – 415	Direct	2,8/ 2,2	4,9/43	2895	89	-	-	96 87 21 95	2.787,34
SLV.65.80.30.Ex.2.50D	3 x 380 – 415	Direct	3,8/3,0	6,8/59,8	2910	92	96 87 20 56	2.115,52	-	-
SLV.65.80.30.Ex.2.50D	3 x 380 – 415	Direct	3,8/ 3,0	6,8/59,8	2910	92	-	-	96 87 21 99	3.011,75
SLV.65.80.40.Ex.2.51D	3 x 380 – 415	Star / Delta	4,8/4,0	8,5/93	2925	117	96 87 20 59	2.520,41	-	-
SLV.65.80.40.Ex.2.51D	3 x 380 – 415	Star / Delta	4,8/ 4,0	8,5/93	2925	117	-	-	96 87 22 02	3.415,17

SLV.65 with discharge DN 65 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SLV.65.65.22.2.50D	3 x 380 – 415	Direct	2,8/2,2	4,9/43	2895	88	96 83 63 23	1.862,25	-	-
SLV.65.65.22.2.50D	3 x 380 – 415	Direct	2,8/ 2,2	4,9/43	2895	88	-	-	96 87 19 26	2.532,56
SLV.65.65.30.2.50D	3 x 380 – 415	Direct	3,8/3,0	6,8/59,8	2910	91	96 87 19 68	1.913,83	-	-
SLV.65.65.30.2.50D	3 x 380 – 415	Direct	3,8/ 3,0	6,8/59,8	2910	91	-	-	96 87 21 35	2.737,28
SLV.65.65.40.2.51D	3 x 380 – 415	Star / Delta	4,8/4,0	8,5/93	2925	117	96 87 19 71	2.270,21	-	-
SLV.65.65.40.2.51D	3 x 380 – 415	Star / Delta	4,8/ 4,0	8,5/93	2925	117	-	-	96 87 21 37	3.092,15

SLV.65 with discharge DN 80 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SLV.65.80.22.2.50D	3 x 380 – 415	Direct	2,8/2,2	4,9/43	2895	89	96 83 62 87	1.873,54	96 87 19 30	2.543,19
SLV.65.80.22.2.51D	3 x 380 – 415	Star / Delta	2,8/2,2	4,9/43	2990	89	96 87 19 74	1.873,54	-	-
SLV.65.80.30.2.50D	3 x 380 – 415	Direct	3,8/3,0	6,8/59,8	2910	92	96 83 63 03	1.924,44	96 87 19 31	2.746,38
SLV.65.80.40.2.51D	3 x 380 – 415	Star / Delta	4,8/4,0	8,5/93	2925	117	96 84 22 21	2.276,26	96 87 21 52	3.099,75

80 mm free passage SLV.80, Ex-pump with discharge DN 80 (Product Group: CW)

80 mm free passage

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SLV.80.80.11.Ex.4.50D	3 x 380 – 415	Direct	1,5/1,1	3,0/20	1440	94	96 85 79 18	1.873,54	96 83 71 99	2.696,33
SLV.80.80.110.Ex.2.51D	3 x 380 – 415	Star / Delta	12,6/11,0	21,4/166	2935	183	96 87 20 85	4.097,57	96 87 22 25	4.922,55
SLV.80.80.13.Ex.4.50D	3 x 380 – 415	Direct	1,8/1,3	3,6/26	1440	94	96 87 20 72	1.901,70	96 87 22 04	2.725,15
SLV.80.80.15.Ex.4.50D	3 x 380 – 415	Direct	2,1/1,5	3,9/26	1435	94	96 87 20 74	1.939,62	96 87 22 06	2.763,07
SLV.80.80.22.Ex.4.50D	3 x 380 – 415	Direct	2,9/2,2	5,3/38,3	1445	106	96 83 56 83	1.997,26	96 82 60 96	2.820,69
SLV.80.80.40.Ex.2.51D	3 x 380 – 415	Star / Delta	4,8/4,0	8,5/93	2925	134	96 87 20 79	2.608,39	96 87 22 09	3.061,81
SLV.80.80.40.Ex.4.51D	3 x 380 – 415	Star / Delta	4,9/4,0	9,7/51	1460	121	96 87 20 80	2.348,37	96 87 22 11	3.431,82
SLV.80.80.60.Ex.2.51D	3 x 380 – 415	Star / Delta	7,1/6,0	12,5/122	2945	140	96 87 20 81	3.051,20	96 87 22 22	3.874,65
SLV.80.80.75.Ex.2.51D	3 x 380 – 415	Star / Delta	8,9/7,5	15,1/122	2940	141	96 87 20 82	3.844,33	96 87 22 23	4.669,30
SLV.80.80.92.Ex.2.51D	3 x 380 – 415	Star / Delta	10,5/9,2	18/166	2935	183	96 87 20 84	3.979,30	96 87 22 24	4.802,77

SLV.80 with discharge DN 80 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SLV.80.80.11.4.50D	3 x 380 – 415	Direct	1,5/1,1	3,0/20	1440	94	96 83 62 66	1.781,91	96 83 72 16	2.537,11
SLV.80.80.110.2.51D	3 x 380 – 415	Star / Delta	12,6/11,0	21,4/166	2935	183	96 87 20 04	3.888,31	96 87 21 63	4.645,03
SLV.80.80.13.4.50D	3 x 380 – 415	Direct	1,8/1,3	3,6/26	1440	94	96 85 78 30	1.812,21	96 87 19 62	2.567,43
SLV.80.80.15.4.50D	3 x 380 – 415	Direct	2,1/1,5	3,9/26	1435	94	96 83 62 69	1.834,97	96 87 19 63	2.591,71
SLV.80.80.22.4.50D	3 x 380 – 415	Direct	2,9/2,2	5,3/38,3	1445	106	96 83 56 91	1.869,85	96 83 56 82	2.625,05
SLV.80.80.40.2.51D	3 x 380 – 415	Star / Delta	4,8/4,0	8,5/93	2925	134	96 87 19 92	2.371,82	96 87 21 57	3.127,02
SLV.80.80.40.4.51D	3 x 380 – 415	Star / Delta	4,9/4,0	9,7/51	1460	121	96 87 19 95	2.112,49	96 87 21 59	2.869,24
SLV.80.80.60.2.51D	3 x 380 – 415	Star / Delta	7,1/6,0	12,5/122	2945	140	96 87 37 84	2.775,20	96 87 21 60	3.530,41
SLV.80.80.75.2.51D	3 x 380 – 415	Star / Delta	8,9/7,5	15,1/122	2940	141	96 87 19 98	3.516,77	96 87 21 61	4.273,48
SLV.80.80.92.2.51D	3 x 380 – 415	Star / Delta	10,5/9,2	18/166	2935	183	96 87 20 03	3.695,72	96 87 21 62	4.452,45

100 mm free passage SLV.100, Ex-pump with discharge DN 100 (Product Group: CW)

100 mm free passage

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SLV.100.100.30.Ex.4.50D	3 x 380 – 415	Direct	3,7/3,0	7,2/50	1455	125	96 87 20 95	2.611,42	96 87 22 37	3.434,87
SLV.100.100.40.Ex.4.51D	3 x 380 – 415	Star / Delta	4,9/4,0	9,7/51	1460	130	96 87 20 97	2.784,31	96 87 22 40	3.607,76
SLV.100.100.55.Ex.4.51D	3 x 380 – 415	Star / Delta	6,5/5,5	11,8/81	1455	136	96 87 20 98	3.265,02	96 87 22 41	4.088,49
SLV.100.100.75.Ex.4.51D	3 x 380 – 415	Star / Delta	9,0/7,5	15,2/109	1455	179	96 87 20 99	3.958,06	96 87 22 42	4.781,52

SLV.100 with discharge DN 100 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SLV.100.100.30.4.50D	3 x 380 – 415	Direct	3,7/3,0	7,2/50	1455	125	96 83 63 05	2.388,48	-	-
SLV.100.100.30.4.50D	3 x 380 – 415	Direct	3,7/ 3,0	7,2/50	1455	125	-	-	96 87 19 65	3.128,55
SLV.100.100.30.4.51D	3 x 380 – 415	Star / Delta	3,7/3,0	7,2/50	1450	125	96 87 20 24	2.388,48	-	-
SLV.100.100.40.4.51D	3 x 380 – 415	Star / Delta	4,9/4,0	9,7/51	1460	130	96 87 20 26	2.531,04	-	-
SLV.100.100.40.4.51D	3 x 380 – 415	Star / Delta	4,9/ 4,0	9,7/51	1460	130	-	-	96 87 21 87	3.287,76
SLV.100.100.55.4.51D	3 x 380 – 415	Star / Delta	6,5/5,5	11,8/81	1455	136	96 87 20 28	3.036,02	-	-
SLV.100.100.55.4.51D	3 x 380 – 415	Star / Delta	6,5/ 5,5	11,8/81	1455	136	-	-	96 87 21 88	3.792,74
SLV.100.100.75.4.51D	3 x 380 – 415	Star / Delta	9,0/7,5	15,2/109	1455	179	96 87 20 29	3.683,59	-	-
SLV.100.100.75.4.51D	3 x 380 – 415	Star / Delta	9,0/ 7,5	15,2/109	1455	179	-	-	96 87 21 89	4.440,31

80 mm free passage SLV.80, Ex-pump with discharge DN 100 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR
SLV.80.100.11.Ex.4.50D	3 x 380 – 415	Direct	1,5/1,1	3/20	1450	95	96 87 20 87	1.906,25
SLV.80.100.110.Ex.2.51D	3 x 380 – 415	Star / Delta	12,5/11,0	21,4/166	2950	184	96 89 07 91	4.130,97
SLV.80.100.13.Ex.4.50D	3 x 380 – 415	Direct	1,8/1,3	3,6/26	1460	95	96 89 07 83	1.935,04
SLV.80.100.22.Ex.4.51D	3 x 380 – 415	Star / Delta	2,7/2,2	5,3/38,3	1460	107	96 87 22 46	2.153,28
SLV.80.100.60.Ex.2.51D	3 x 380 – 415	Star / Delta	6,9/6,0	12,5/122	2940	141	96 89 34 48	3.084,57

SLV.80 with discharge DN 100 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR
SLV.80.100.11.4.50D	3 x 380 – 415	Direct	1,5/1,1	3/20	1450	95	96 87 20 05	1.822,00
SLV.80.100.110.2.51D	3 x 380 – 415	Star / Delta	12,5/11,0	21,4/166	2950	184	96 89 07 89	3.929,28
SLV.80.100.13.4.50D	3 x 380 – 415	Direct	1,8/1,3	3,6/26	1460	95	96 89 04 80	1.853,29
SLV.80.100.15.4.50D	3 x 380 – 415	Direct	1,9/1,5	3,9/26	1450	95	96 87 20 08	1.875,37
SLV.80.100.22.4.50D	3 x 380 – 415	Direct	2,7/2,2	5,3/38,3	1460	107	96 87 22 44	1.910,34
SLV.80.100.40.2.51D	3 x 380 – 415	Star / Delta	4,8/4,0	8,5/93	2930	122	96 87 20 10	2.412,78
SLV.80.100.40.4.51D	3 x 380 – 415	Star / Delta	4,8/4,0	9,7/51	1460	135	96 87 20 22	2.153,28
SLV.80.100.60.2.51D	3 x 380 – 415	Star / Delta	6,9/6,0	12,5/122	2940	141	96 89 33 79	2.815,84
SLV.80.100.75.2.51D	3 x 380 – 415	Star / Delta	8,7/7,5	15,1/122	2920	141	96 87 20 11	3.557,51
SLV.80.100.92.2.51D	3 x 380 – 415	Star / Delta	10,5/9,2	18/166	2960	184	96 87 20 23	3.736,04

SL1 cast iron sewage pumps

Hydraulic parts made of cast iron, with single channel impeller. Easy to install and easy to service due to clamp connection of motor and pump unit. Pump with 10 m cable and free cable-end. Cable connected to the motor with stainless steel plug. Pumps with/without sensors (analog sensor to measure water-in-oil content in oil chamber, insulation resistance, moisture in motor stator, complete with sensor module.)

50 mm free passage SL1.50, Ex-pump with discharge DN 65 (Product Group: CW)

Sewage pumps SL1

Hydraulic parts made of cast iron, with single channel impeller. Easy to install and easy to service due to clamp connection of motor and pump unit. Pump with 10 m cable and free cable-end. Polyurethane-filled stainless steel cable connection to the motor. Pumps with/without sensors (analog sensor to measure water-in-oil content in oil chamber, insulation resistance, moisture in motor stator, complete with sensor module.)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SL1.50.65.22.Ex.2.50D	3 x 380 – 415	Direct	2,8/2,2	4,9/43	2895	86	96 87 19 60	1.762,17	96 87 19 85	2.658,42
SL1.50.65.30.Ex.2.50D	3 x 380 – 415	Direct	3,8/3,0	6,8/59,8	2910	89	96 85 78 82	1.988,13	96 87 20 14	2.884,40
SL1.50.65.40.Ex.2.51D	3 x 380 – 415	Star / Delta	4,8/4,0	8,5/93	2925	115	96 87 20 35	2.371,82	96 87 20 36	3.268,05

SL1.50, Ex-Pump with discharge DN 80 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SL1.50.80.22.Ex.2.50D	3 x 380 – 415	Direct	2,8/2,2	4,9/43	2895	87	96 87 20 38	1.771,28	96 87 20 39	2.666,01
SL1.50.80.30.Ex.2.50D	3 x 380 – 415	Direct	3,8/3,0	6,8/59,8	2910	90	96 87 20 64	1.995,71	96 87 20 65	2.890,44
SL1.50.80.40.Ex.2.51D	3 x 380 – 415	Star / Delta	4,8/4,0	8,5/93	2925	116	96 87 21 03	2.379,40	96 87 21 05	3.274,13

SL1.50 with discharge DN 65 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SL1.50.65.22.2.50D	3 x 380 – 415	Direct	2,8/2,2	4,9/43	2895	86	96 83 63 07	1.602,94	96 87 19 37	2.364,22
SL1.50.65.30.2.50D	3 x 380 – 415	Direct	3,8/3,0	6,8/59,8	2910	89	96 83 63 11	1.807,68	96 87 19 40	2.629,60
SL1.50.65.40.2.51D	3 x 380 – 415	Star / Delta	4,8/4,0	8,5/93	2925	115	96 87 20 32	2.157,98	96 87 20 34	2.978,42

SL1.50 with discharge DN 80 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SL1.50.80.22.2.50D	3 x 380 – 415	Direct	2,8/2,2	4,9/43	2895	87	96 83 62 86	1.634,79	96 87 19 52	2.456,74
SL1.50.80.30.2.50D	3 x 380 – 415	Direct	3,8/3,0	6,8/59,8	2910	90	96 83 62 89	1.836,48	96 87 19 53	2.658,42
SL1.50.80.40.2.51D	3 x 380 – 415	Star / Delta	4,8/4,0	8,5/93	2925	116	96 87 20 71	2.188,30	96 87 21 02	3.011,75

80 mm free passage SL1.80, Ex-pump with discharge DN 80 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SL1.80.80.15.Ex.4.50D	3 x 380 – 415	Direct	2,1/1,5	3,9/26	1435	95	96 87 21 44	2.029,08	96 87 21 45	2.852,53
SL1.80.80.22.Ex.4.50D	3 x 380 – 415	Direct	2,9/2,2	5,3/38,3	1445	107	96 83 72 27	2.164,05	96 83 72 23	2.987,51
SL1.80.80.30.Ex.4.50D	3 x 380 – 415	Direct	3,7/3,0	7,2/50	1455	137	96 87 21 80	2.943,52	96 87 22 12	3.768,50
SL1.80.80.40.Ex.4.51D	3 x 380 – 415	Star / Delta	4,9/4,0	9,7/51	1460	142	96 87 22 19	3.313,55	96 87 22 20	4.137,01
SL1.80.80.55.Ex.4.51D	3 x 380 – 415	Star / Delta	6,5/5,5	11,8/81	1455	149	96 87 22 52	3.824,61	96 87 22 53	4.648,08
SL1.80.80.75.Ex.4.51D	3 x 380 – 415	Star / Delta	9,0/7,5	15,2/109	1455	193	96 87 33 88	4.356,91	96 87 34 27	5.181,88

SL1.80, Ex-pump with discharge DN 100 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SL1.80.100.15.Ex.4.50D	3 x 380 – 415	Direct	2,1/1,5	3,9/26	1435	96	96 87 33 89	2.239,78	96 87 34 28	2.858,61
SL1.80.100.22.Ex.4.50D	3 x 380 – 415	Direct	2,9/2,2	5,3/38,3	1445	108	96 85 79 19	2.256,35	96 87 34 30	2.998,13
SL1.80.100.30.Ex.4.50D	3 x 380 – 415	Direct	3,7/3,0	7,2/50	1455	139	96 83 72 14	3.003,55	96 87 34 32	3.776,08
SL1.80.100.40.Ex.4.51D	3 x 380 – 415	Star / Delta	4,9/4,0	9,7/51	1460	143	96 87 34 14	3.321,93	96 87 34 35	4.146,11
SL1.80.100.55.Ex.4.51D	3 x 380 – 415	Star / Delta	6,5/5,5	11,8/81	1455	150	96 87 34 16	3.833,59	96 87 34 38	4.557,09
SL1.80.100.75.Ex.4.51D	3 x 380 – 415	Star / Delta	9,0/7,5	15,2/109	1455	194	96 87 34 17	4.365,45	96 87 34 39	5.081,79

SL1.80 with discharge DN 80 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SL1.80.80.15.4.50D	3 x 380 – 415	Direct	2,1/1,5	3,9/26	1435	95	96 87 21 30	1.844,06	96 87 21 43	2.599,28
SL1.80.80.22.4.50D	3 x 380 – 415	Direct	2,9/2,2	5,3/38,3	1445	107	96 83 66 05	1.966,90	96 83 72 25	2.722,12
SL1.80.80.30.4.50D	3 x 380 – 415	Direct	3,7/3,0	7,2/50	1455	137	96 87 21 77	2.678,14	96 87 21 79	3.434,87
SL1.80.80.40.4.51D	3 x 380 – 415	Star / Delta	4,9/4,0	9,7/51	1460	142	96 87 22 17	3.013,30	96 87 22 18	3.770,00
SL1.80.80.55.4.51D	3 x 380 – 415	Star / Delta	6,5/5,5	11,8/81	1455	149	96 87 37 71	3.475,84	96 87 22 55	4.231,04
SL1.80.80.75.4.51D	3 x 380 – 415	Star / Delta	9,0/7,5	15,2/109	1455	193	96 87 33 59	3.961,11	96 87 33 72	4.716,31

SL1.80 with discharge DN 100 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SL1.80.100.15.4.50D	3 x 380 – 415	Direct	2,1/1,5	3,9/26	1435	96	96 83 62 67	1.850,14	96 87 19 54	2.606,87
SL1.80.100.22.4.50D	3 x 380 – 415	Direct	2,9/2,2	5,3/38,3	1445	108	96 83 62 71	1.976,00	96 87 19 55	2.732,75
SL1.80.100.30.4.50D	3 x 380 – 415	Direct	3,7/3,0	7,2/50	1455	139	96 83 62 83	2.685,72	96 87 19 56	3.442,44
SL1.80.100.40.4.51D	3 x 380 – 415	Star / Delta	4,9/4,0	9,7/51	1460	143	96 87 33 58	3.020,87	96 87 33 75	3.776,08
SL1.80.100.55.4.51D	3 x 380 – 415	Star / Delta	6,5/5,5	11,8/81	1455	150	96 87 33 60	3.475,84	96 87 33 76	4.231,04
SL1.80.100.75.4.51D	3 x 380 – 415	Star / Delta	9,0/7,5	15,2/109	1455	194	96 87 33 61	3.994,46	96 87 33 77	4.751,20

100 mm free passage SL1.100, Ex-pump with discharge DN 100 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SL1.100.100.40.Ex.4.51D	3 x 380 – 415	Star / Delta	4,9/4,0	9,7/51	1460	155	96 87 34 20	3.606,23	96 87 34 41	4.429,70
SL1.100.100.55.Ex.4.51D	3 x 380 – 415	Star / Delta	6,5/5,5	11,8/81	1455	161	96 87 34 22	4.147,64	96 87 34 52	4.971,08
SL1.100.100.75.Ex.4.51D	3 x 380 – 415	Star / Delta	9,0/7,5	15,2/109	1455	202	96 87 34 23	4.664,74	96 87 34 53	5.488,22

SL1.100, Ex-pump with discharge DN 150 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SL1.100.150.40.Ex.4.51D	3 x 380 – 415	Star / Delta	4,9/4,0	10,0/67	1460	157	96 87 34 24	3.677,51	96 87 34 54	4.500,98
SL1.100.150.55.Ex.4.51D	3 x 380 – 415	Star / Delta	6,5/5,5	13,4/87	1455	163	96 87 34 25	4.191,62	96 87 34 55	5.015,06
SL1.100.150.75.Ex.4.51D	3 x 380 – 415	Star / Delta	9,0/7,5	17,3/107	1455	204	96 87 34 26	4.720,86	96 87 34 56	5.544,33

SL1.100 with discharge DN 100 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SL1.100.100.40.4.51D	3 x 380 – 415	Star / Delta	4,9/4,0	10,0/67	1460	155	96 87 33 64	3.389,58	96 87 33 80	4.114,27
SL1.100.100.55.4.51D	3 x 380 – 415	Star / Delta	6,5/5,5	13,4/87	1455	161	96 87 33 65	3.862,52	96 87 33 81	4.617,74
SL1.100.100.75.4.51D	3 x 380 – 415	Star / Delta	9,0/7,5	17,3/107	1455	202	96 87 33 66	4.341,74	96 87 33 82	5.098,48

SL1.100 with discharge DN 150 (Product Group: CW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SL1.100.150.40.4.51D	3 x 380 – 415	Star / Delta	4,9/4,0	10,0/67	1460	157	96 87 33 67	3.442,44	96 87 33 83	4.199,19
SL1.100.150.55.4.51D	3 x 380 – 415	Star / Delta	6,5/5,5	13,4/87	1455	163	96 87 33 68	3.912,57	96 87 33 84	4.669,30
SL1.100.150.75.4.51D	3 x 380 – 415	Star / Delta	9,0/7,5	17,3/107	1455	204	96 87 33 69	4.394,81	96 87 33 85	5.151,54

SEV sewage pumps with stainless steel motor sleeve

Hydraulic parts made of cast iron, with SuperVortex impeller. Easy to install and easy to service due to clamp connection of motor and pump unit. Pump with 10 m cable and free cable-end. Polyurethane-filled stainless steel cable connection to the motor. SE type range with unique cooling system, suitable for dry and wet installation.

Pumps with/without sensors (analog sensor to measure water-in-oil content in oil chamber, insulation resistance, moisture in motor stator, complete with sensor module.)

65 mm free passage SEV.65, Ex-pump with discharge DN 65 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SEV.65.65.22.Ex.2.50D	3 x 380 – 415	Direct	2.8/ 2.2	5.0/ 37	2895	89	96 04 77 01	2.342,04	96 17 76 97	3.394,16
SEV.65.65.30.Ex.2.50D	3 x 380 – 415	Direct	3.8/ 3.0	6.6/ 51	2910	92	96 04 77 17	2.543,78	96 17 76 98	3.595,91
SEV.65.65.40.Ex.2.51D	3 x 380 – 415	Star / Delta	4.8/ 4.0	8.6/ 71	2925	128	96 04 77 33	3.135,92	96 17 76 99	4.188,04

SEV.65, Ex-pump with discharge DN 80 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SEV.65.80.22.Ex.2.50D	3 x 380 – 415	Direct	2.8/ 2.2	5.0/ 37	2895	90	96 04 81 73	2.373,81	96 17 77 00	3.425,92
SEV.65.80.30.Ex.2.50D	3 x 380 – 415	Direct	3.8/ 3.0	6.6/ 51	2910	94	96 04 81 89	2.577,32	96 17 77 01	3.629,44
SEV.65.80.40.Ex.2.51D	3 x 380 – 415	Star / Delta	4.8/ 4.0	8.6/ 71	2925	126	96 04 82 05	3.173,02	96 17 77 02	4.225,13

SEV.65 with discharge DN 65 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SEV.65.65.22.2.50D	3 x 380 – 415	Direct	2.8/ 2.2	5.0/ 37	2895	89	96 04 76 97	2.138,07	96 17 76 53	3.104,28
SEV.65.65.30.2.50D	3 x 380 – 415	Direct	3.8/ 3.0	6.6/ 51	2910	92	96 04 77 13	2.316,18	96 17 76 54	3.282,41
SEV.65.65.40.2.51D	3 x 380 – 415	Star / Delta	4.8/ 4.0	8.6/ 71	2925	128	96 04 77 29	2.850,35	96 17 76 55	3.816,58

SEV.65 with discharge DN 80 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SEV.65.80.22.2.50D	3 x 380 – 415	Direct	2.8/ 2.2	5.0/ 37	2895	90	96 04 81 69	2.174,11	96 17 76 56	3.140,34
SEV.65.80.30.2.50D	3 x 380 – 415	Direct	3.8/ 3.0	6.6/ 51	2910	94	96 04 81 85	2.351,87	96 17 76 57	3.318,10
SEV.65.80.40.2.51D	3 x 380 – 415	Star / Delta	4.8/ 4.0	8.6/ 71	2925	126	96 04 82 01	2.887,43	96 17 76 58	3.853,69

80 mm free passage SEV.80, Ex-pump with discharge DN 80 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SEV.80.80.11.Ex.4.50D	3 x 380 – 415	Direct	1.5/1,1	2,8/13	1440	95	96 04 77 48	2.304,91	96 17 77 03	3.272,47
SEV.80.80.13.Ex.4.50D	3 x 380 – 415	Direct	1.8/1,3	3,8/22	1440	103	96 04 77 60	2.342,23	96 17 77 04	3.309,78
SEV.80.80.15.Ex.4.50D	3 x 380 – 415	Direct	2.1/1,5	4,2/22	1435	103	96 04 77 72	2.387,45	96 17 77 05	3.355,02
SEV.80.80.22.Ex.4.50D	3 x 380 – 415	Direct	2.9/2,2	5,9/32	1445	106	96 04 77 85	2.456,38	96 17 77 06	3.423,94
SEV.80.80.40.Ex.4.51D	3 x 380 – 415	Star / Delta	4.9/4	10/67	1460	143	96 04 78 01	2.769,20	96 17 77 07	3.970,22
SEV.80.80.40.Ex.2.51D	3 x 380 – 415	Star / Delta	4.8/4	8,6/71	2925	131	96 04 78 33	3.437,07	96 17 77 08	4.171,23
SEV.80.80.60.Ex.2.51D	3 x 380 – 415	Star / Delta	7.1/6	13,9/148	2945	141	96 04 78 49	3.749,87	96 17 77 09	4.717,46
SEV.80.80.75.Ex.2.51D	3 x 380 – 415	Star / Delta	8.9/7,5	16,2/152	2940	142	96 04 78 65	4.724,70	96 17 77 10	5.692,27
SEV.80.80.92.Ex.2.51D	3 x 380 – 415	Star / Delta	10.5/9,2	18,0/162	2935	190	96 04 72 04	4.893,36	96 17 77 11	5.860,95
SEV.80.80.110.Ex.2.51D	3 x 380 – 415	Star / Delta	12.6/11	21,7/162	2935	195	96 04 78 81	4.816,17	96 17 77 12	5.783,76

SEV.80 with discharge DN 80 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SEV.80.80.11.4.50D	3 x 380 – 415	Direct	1.5/1,1	2,8/13	1440	95	96 04 77 45	2.198,25	96 17 76 59	3.086,85
SEV.80.80.13.4.50D	3 x 380 – 415	Direct	1.8/1,3	3,8/22	1440	103	96 04 77 57	2.235,59	96 17 76 60	3.124,19
SEV.80.80.15.4.50D	3 x 380 – 415	Direct	2.1/1,5	4,2/22	1435	103	96 04 77 69	2.265,01	96 17 76 61	3.153,60
SEV.80.80.22.4.50D	3 x 380 – 415	Direct	2.9/2,2	5,9/32	1445	106	96 04 77 81	2.306,27	96 17 76 62	3.194,88
SEV.80.80.40.4.51D	3 x 380 – 415	Star / Delta	4.9/4	10/67	1460	143	96 04 77 97	2.621,11	96 17 76 63	3.509,71
SEV.80.80.40.2.51D	3 x 380 – 415	Star / Delta	4.8/4	8,6/71	2925	131	96 04 78 29	3.158,62	96 17 76 64	4.047,22
SEV.80.80.60.2.51D	3 x 380 – 415	Star / Delta	7.1/6	13,9/148	2945	141	96 04 78 45	3.424,09	96 17 76 65	4.312,67
SEV.80.80.75.2.51D	3 x 380 – 415	Star / Delta	8.9/7,5	16,2/152	2940	142	96 04 78 61	4.339,63	96 17 76 66	5.228,21
SEV.80.80.92.2.51D	3 x 380 – 415	Star / Delta	10.5/9,2	18/162	2935	190	96 04 72 07	4.559,64	96 17 76 67	5.448,25
SEV.80.80.110.2.51D	3 x 380 – 415	Star / Delta	12.6/11	21,7/162	2935	195	96 04 78 77	4.569,34	96 17 76 68	5.457,92

100 mm free passage SEV.100, Ex-pump with discharge DN 100 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SEV.100.100.30.Ex.4.50D	3 x 380 – 415	Direct	3.7/ 3.0	7.8/ 43	1455	133	96 04 78 97	3.207,58	96 17 77 13	4.175,16
SEV.100.100.40.Ex.4.51D	3 x 380 – 415	Star / Delta	4.9/ 4.0	10.0/ 67	1460	141	96 04 79 29	3.419,87	96 17 77 14	4.387,46
SEV.100.100.55.Ex.4.51D	3 x 380 – 415	Star / Delta	6.5/ 5.5	13.4/ 87	1455	146	96 04 79 45	4.014,92	96 17 77 15	4.982,50
SEV.100.100.75.Ex.4.51D	3 x 380 – 415	Star / Delta	9.0/ 7.5	17.3/107	1455	190	96 04 79 61	4.865,88	96 17 77 16	5.833,48

SEV.100 with discharge DN 100 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SEV.100.100.30.4.50D	3 x 380 – 415	Direct	3.7/ 3.0	7.8/ 43	1455	133	96 04 78 93	2.927,20	96 17 76 69	3.815,79
SEV.100.100.40.4.51D	3 x 380 – 415	Star / Delta	4.9/ 4.0	10.0/ 67	1460	141	96 04 79 25	3.121,72	96 17 76 70	4.010,30
SEV.100.100.55.4.51D	3 x 380 – 415	Star / Delta	6.5/ 5.5	13.4/ 87	1455	146	96 04 79 41	3.746,36	96 17 76 71	4.634,97
SEV.100.100.75.4.51D	3 x 380 – 415	Star / Delta	9.0/ 7.5	17.3/107	1455	190	96 04 79 57	4.544,02	96 17 76 72	5.432,64

SE1 sewage pumps with stainless steel motor sleeve

Hydraulic parts made of cast iron, with single channel impeller. Easy to install and easy to service due to clamp connection of motor and pump unit. Pump with 10 m cable and free cable-end. Polyurethane-filled stainless steel cable connection to the motor. Suitable for continuous operation in wet and dry installation.

50 mm free passage SE1.50, Ex-pump with discharge DN 65 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SE1.50.65.22.EX.2.50D	3 x 380 – 415	Direct	2.8/2.2	5.0/ 37	2895	86	96 04 75 11	2.362,48	96 17 76 73	3.414,60
SE1.50.65.30.EX.2.50D	3 x 380 – 415	Direct	3.8/3.0	6.6/ 51	2910	90	96 04 75 19	2.564,22	96 17 76 74	3.616,35
SE1.50.65.40.EX.2.51D	3 x 380 – 415	Star / Delta	4.8/4.0	8.6/ 71	2925	122	96 04 75 27	2.787,05	96 17 76 75	4.192,00

SE1.50, Ex-Pump with discharge DN 80 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SE1.50.80.22.Ex.2.50D	3 x 380 – 415	Direct	2.8/2.2	5.0/ 37	2895	87	96 04 79 83	2.369,30	96 17 76 76	3.421,41
SE1.50.80.30.Ex.2.50D	3 x 380 – 415	Direct	3.8/3.0	6.6/ 51	2910	91	96 04 79 91	2.574,61	96 17 76 77	3.626,72
SE1.50.80.40.Ex.2.51D	3 x 380 – 415	Star / Delta	4.8/4.0	8.6/ 71	2925	123	96 04 79 99	3.144,90	96 17 76 78	4.197,01

SE1.50 with discharge DN 65 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SE1.50.65.22.2.50D	3 x 380 – 415	Direct	2.8/2.2	5.0/ 37	2895	86	96 04 75 09	2.173,52	-	-
SE1.50.65.30.2.50D	3 x 380 – 415	Direct	3.8/3.0	6.6/ 51	2910	90	96 04 75 17	2.351,66	96 17 76 30	3.317,91
SE1.50.65.40.2.51D	3 x 380 – 415	Star / Delta	4.8/4.0	8.6/ 71	2925	122	96 04 75 25	2.886,51	96 17 76 31	3.852,76

SE1.50 with discharge DN 80 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SE1.50.80.22.2.50D	3 x 380 – 415	Direct	2.8/2.2	5.0/ 37	2895	87	96 04 79 81	2.210,38	96 17 76 32	3.176,66
SE1.50.80.30.2.50D	3 x 380 – 415	Direct	3.8/3.0	6.6/ 51	2910	91	96 04 79 89	2.387,78	96 17 76 33	3.354,01
SE1.50.80.40.2.51D	3 x 380 – 415	Star / Delta	4.8/4.0	8.6/ 71	2925	123	96 04 79 97	2.921,58	96 17 76 34	3.887,81

80 mm free passage SE1.80, Ex-pump with discharge DN 80 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SE1.80.80.15.Ex.4.50D	3 x 380 – 415	Direct	2.1/1.5	4.2/ 22	1435	98	96 04 75 37	2.622,17	96 17 76 79	3.589,75
SE1.80.80.22.Ex.4.50D	3 x 380 – 415	Direct	2.9/2.2	5.9/ 32	1445	100	96 04 75 53	2.815,96	96 17 76 80	3.783,55
SE1.80.80.30.Ex.4.50D	3 x 380 – 415	Direct	3.7/3.0	7.8/ 43	1455	143	96 04 75 69	3.520,18	96 17 76 81	4.487,75
SE1.80.80.40.Ex.4.51D	3 x 380 – 415	Star / Delta	4.9/4.0	10.0/ 67	1460	152	96 04 76 01	3.894,00	96 17 76 82	4.861,61
SE1.80.80.55.Ex.4.51D	3 x 380 – 415	Star / Delta	6.5/5.5	13.4/ 87	1455	157	96 04 76 17	4.494,31	96 17 76 83	5.461,90
SE1.80.80.75.Ex.4.51D	3 x 380 – 415	Star / Delta	9.0/7.5	17.3/107	1455	205	96 04 76 31	5.120,26	96 17 76 84	6.087,84

SE1.80, Ex-pump with discharge DN 100 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SE1.80.100.15.Ex.4.50D	3 x 380 – 415	Direct	2.1/1.5	4.2/ 22	1435	99	96 04 80 09	2.426,93	96 17 76 85	3.394,51
SE1.80.100.22.Ex.4.50D	3 x 380 – 415	Direct	2.9/2.2	5.9/ 32	1445	101	96 04 80 25	2.621,11	96 17 76 86	3.576,23
SE1.80.100.30.Ex.4.50D	3 x 380 – 415	Direct	3.7/3.0	7.8/ 43	1455	143	96 04 80 41	3.469,45	96 17 76 87	4.437,02
SE1.80.100.40.Ex.4.51D	3 x 380 – 415	Star / Delta	4.9/4.0	10.0/ 67	1460	153	96 04 80 73	3.903,88	96 17 76 88	4.871,49
SE1.80.100.55.Ex.4.51D	3 x 380 – 415	Star / Delta	6.5/5.5	13.4/ 87	1455	158	96 04 80 89	4.387,67	96 17 76 89	5.355,26
SE1.80.100.75.Ex.4.51D	3 x 380 – 415	Star / Delta	9.0/7.5	17.3/107	1455	204	96 04 81 03	5.003,75	96 17 76 90	5.971,32

SE1.80 with discharge DN 80 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SE1.80.80.15.4.50D	3 x 380 – 415	Direct	2.1/1.5	4.2/ 22	1435	98	96 04 75 33	2.404,96	96 17 76 35	3.293,56
SE1.80.80.22.4.50D	3 x 380 – 415	Direct	2.9/2.2	5.9/ 32	1445	100	96 04 75 49	2.582,96	96 17 76 36	3.471,57
SE1.80.80.30.4.50D	3 x 380 – 415	Direct	3.7/3.0	7.8/ 43	1455	143	96 04 75 65	3.208,15	96 17 76 37	4.096,75
SE1.80.80.40.4.51D	3 x 380 – 415	Star / Delta	4.9/4.0	10.0/ 67	1460	152	96 04 75 97	3.540,56	96 17 76 38	4.429,14
SE1.80.80.55.4.51D	3 x 380 – 415	Star / Delta	6.5/5.5	13.4/ 87	1455	157	96 04 76 13	4.083,58	96 17 76 39	4.972,16
SE1.80.80.75.4.51D	3 x 380 – 415	Star / Delta	9.0/7.5	17.3/107	1455	205	96 04 76 27	4.654,26	96 17 76 40	5.542,82

SE1.80 with discharge DN 100 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SE1.80.100.15.4.50D	3 x 380 – 415	Direct	2.1/1.5	4.2/ 22	1435	99	96 04 80 05	2.209,73	96 17 76 41	3.085,43
SE1.80.100.22.4.50D	3 x 380 – 415	Direct	2.9/2.2	5.9/ 32	1445	101	96 04 80 21	2.388,13	96 17 76 42	3.264,23
SE1.80.100.30.4.50D	3 x 380 – 415	Direct	3.7/3.0	7.8/ 43	1455	143	96 04 80 37	3.155,49	96 17 76 43	4.044,09
SE1.80.100.40.4.51D	3 x 380 – 415	Star / Delta	4.9/4.0	10.0/ 67	1460	153	96 04 80 69	3.548,42	96 17 76 44	4.437,02
SE1.80.100.55.4.51D	3 x 380 – 415	Star / Delta	6.5/5.5	13.4/ 87	1455	158	96 04 80 85	4.083,58	96 17 76 45	4.972,16
SE1.80.100.75.4.51D	3 x 380 – 415	Star / Delta	9.0/7.5	17.3/107	1455	204	96 04 80 99	4.693,71	96 17 76 46	5.582,31

100 mm free passage SE1.100, Ex-pump with discharge DN 100 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SE1.100.100.40.Ex.4.51D	3 x 380 – 415	Star / Delta	4.9/4.0	10.0/ 67	1460	157	96 04 76 45	4.237,59	96 17 76 91	5.205,15
SE1.100.100.55.Ex.4.51D	3 x 380 – 415	Star / Delta	6.5/5.5	13.4/ 87	1455	161	96 04 76 61	4.873,42	96 17 76 92	5.841,01
SE1.100.100.75.Ex.4.51D	3 x 380 – 415	Star / Delta	9.0/7.5	17.3/107	1455	204	96 04 76 75	5.481,63	96 17 76 93	6.449,20

SE1.100, Ex-Pump with discharge DN 150 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SE1.100.150.40.Ex.4.51D	3 x 380 – 415	Star / Delta	4.9/4.0	10.0/ 67	1460	161	96 04 81 17	4.320,52	96 17 76 94	5.288,11
SE1.100.150.55.Ex.4.51D	3 x 380 – 415	Star / Delta	6.5/5.5	13.4/ 87	1455	166	96 04 81 33	4.924,75	96 17 76 95	5.892,33
SE1.100.150.75.Ex.4.51D	3 x 380 – 415	Star / Delta	9.0/7.5	17.3/107	1455	210	96 04 81 47	5.546,80	96 17 76 96	6.514,36

SE1.100 with discharge DN 100 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SE1.100.100.40.4.51D	3 x 380 – 415	Star / Delta	4.9/4.0	10.0/ 67	1460	157	96 04 76 41	3.945,35	96 17 76 47	4.833,92
SE1.100.100.55.4.51D	3 x 380 – 415	Star / Delta	6.5/5.5	13.4/ 87	1455	161	96 04 76 57	4.537,74	96 17 76 48	5.426,32
SE1.100.100.75.4.51D	3 x 380 – 415	Star / Delta	9.0/7.5	17.3/107	1455	204	96 04 76 71	5.102,50	96 17 76 49	5.991,08

SE1.100 with discharge DN 150 (Product Group: WW)

Type	Voltage [V]	Type Switch On	Performance	Nominal Current	Rotation Speed	Weight [kg]	Pumps without sensor Product-No.	EUR	Pumps with sensor Product-No.	EUR
SE1.100.150.40.4.51D	3 x 380 – 415	Star / Delta	4.9/4.0	10.0/ 67	1460	161	96 04 81 13	4.046,05	96 17 76 50	4.934,63
SE1.100.150.55.4.51D	3 x 380 – 415	Star / Delta	6.5/5.5	13.4/ 87	1455	166	96 04 81 29	4.597,00	96 17 76 51	5.485,59
SE1.100.150.75.4.51D	3 x 380 – 415	Star / Delta	9.0/7.5	17.3/107	1455	210	96 04 81 43	5.163,69	96 17 76 52	6.052,29

Chapter 15

Compact lifting units



Small lifting stations for wastewater with faeces

according to DIN/EN 12050-3

SOLOLIFT2 WC-1/WC-3 (Product Group: DC)

Compact automatic lifting station for pumping of wastewater, to be connected to the back of a WC

SOLOLIFT2 WC-1 additionally 1 x wash basin

SOLOLIFT2 WC-3 additionally 1 x wash basin, 1 x shower und 1 x bidet alternativ 1 x Urinal.

Scope of supply: built-in pump with stainless steel grinder ring, control, built-in

non-return flap valve, venting valve with active carbon filter and overflow protection, flexible pipe connection with diameter 23, 25, 28, 32 und 40 mm. Including pipe connection accessories and sockets. Variable discharge connection: vertical or horizontal. Including pipe connection accessories and sockets. Ready for plug with 1,2 m cable and Schuko plug.

Voltage 1 x 230 – 240 V, 50 Hz

14 units/pallet

Type	Rated Power [kW]	Nominal Current	Discharge Nozzle	Additional Connections	Weight [kg]	Measure / Size [mm]	Product-No.	EUR
SOLOLIFT2 WC-1	0,62	3,0	Ø 23, 25, 28, 32, 40 mm	1 x Ø 32/40	7,3 kg	453 x 176 x 347	97 77 53 14	324,47
SOLOLIFT2 WC-3	0,62	3,0	Ø 23, 25, 28, 32, 40 mm	1 x Ø 32/40 2 x Ø 40/50	7,3 kg	453 x 176 x 347	97 77 53 15	393,62

SOLOLIFT2 CWC-3 (Product Group: DC)

Compact automatic lifting station for pumping of wastewater for installation in a hollow space behind a wall-hung toilet and additionally 1 x washbasin, 1 x shower and 1 x bidet, 1 x urinal.

Scope of supply: built-in pump with stainless steel grinder ring, control, non-return flap valve, venting valve with active carbon filter and overflow protection, flexible pipe connection with diameter 23, 25, 28, 32 und 40 mm. Including pipe connection accessories and sockets. Ready for plug with 1,2 m cable and Schuko plug.

Voltage 1 x 230 – 240 V, 50 Hz 16 units/pallet

Type	Rated Power [kW]	Nominal Current	Discharge Nozzle	Additional Connections	Weight [kg]	Measure / Size [mm]	Product-No.	EUR
SOLOLIFT2 CWC-3	0,62	3,0	Ø 23, 25, 28, 32, 40 mm	1 x Ø 32/40 2 x Ø 40/50	7,1	495 x 164 x 368	97 77 53 16	407,80

Small lifting stations for wastewater without faeces

according to DIN/EN 12050-2

SOLOLIFT2 C-3 (Product Group: DC)

Compact automatic lifting station for installation under a washbasin or particularly for confined space conditions in prewall constructions and built-in cabinets. It is typically used for: cabinet showers, washbasins, bath tubs, washing machines and dishwashers.

The compact lifting station is equipped with built-in pump with 20 mm free passage, built-in non-return flap valve, venting valve with active carbon filter and overflow protection, flexible pipe connection with diameter 23, 25, 28, 32 und 40 mm. Variable discharge connection: vertical or horizontal.

Including pipe connection accessories and sockets. Ready for plug with 1,2 m cable and Schuko plug.

Voltage 1 x 230 – 240 V, 50 Hz

18 units/pallet

Type	Rated Power [kW]	Nominal Current	Discharge Nozzle	Connection	Weight [kg]	Measure / Size [mm]	Product-No.	EUR
SOLOLIFT2 C-3	0,64	3,1	Ø 23, 25, 28, 32, 40 mm	1 x Ø 32/40 2 x Ø 40/50	6,6	446 x 158 x 339	97 77 53 17	365,25

SOLOLIFT2 D-2 (Product Group: DC)

Compact automatic lifting station suitable for confined space conditions in built-in cabinets or also below shower receptors or pedestals, to pump greywater without faeces, alternatively also condensate pH up to 4.

Scope of supply: built-in pump and control, non-return flap valve, deaeration valve with active carbon filter and overflow protection, flexible discharge connection for diameter 23 and 32 mm. Ready to connect with 1,2 m cable and Schuko plug.

Spannung 1 x 230 – 240 V, 50 Hz

40 units/pallet

Type	Rated Power [kW]	Nominal Current	Discharge Nozzle	Additional Connections	Weight [kg]	Measure / Size [mm]	Product-No.	EUR
SOLOLIFT2 D-2	0,28	1,3	Ø 23, 32 mm	2 x Ø 40	4,3	376 x 165 x 147	97 77 53 18	290,78

CONLIFT condensate lifting units (Product Group: DC)

Lifting unit to pump condensate from boilers, air-conditioning systems, cooling systems, air dehumidifiers. Available in different variants.

Ready for use with supply cable, Schuko-plug, level switch for automatic operation. One float switch for on/off, and one

float-switch for alarm level indication. Potential-free alarm contact.

Scope of supply: 1,7 m supply cable with Schuko plug, 1,7 m alarm cable, integrated back-flow protection (with 8/10 mm outer diameter), 6m discharge hose (internal diameter 0 mm), inlet connector (19, 32, 40mm), discharge adapter DN40 to connect a branch pipe, mounting material.

Voltage 1 x 230 V, 50 Hz

CONLIFT 1:	Basic version with test-button and potential-free alarm signal (change-over contact). Insulation IP24
CONLIFT 2:	like CONLIFT1, however with acoustic high-water alarm device and start contact for an other pump
CONLIFT 2 pH ₁ :	like CONLIFT2, with pH-neutralisation unit (including 1,2 kg neutralising granulate), for condensate ≤ pH 2,5
CONLIFT1/2:	48 units / pallett
CONLIFT2 pH ₁ :	36 units / pallett

Type	Rated Power [kW]	Nominal Current	Discharge Nozzle	Connection	Weight [kg]	Measure / Size [mm]	Product-No.	EUR
CONLIFT 1	70	0,65	Ø 8/10 mm	4 x Ø 28 mm	4,1	259 x 165 x 184	97 93 61 56	83,40
CONLIFT 2	70	0,65	Ø 8/10 mm	4 x Ø 28 mm	4,2	259 x 165 x 184	97 93 61 58	170,28

LIFTAWAY C (Product Group: DC)

Tank for a lifting station desinged for floor mounting, for one drain pump.

Ready for installation of one darin pump type UNILIFT KP 150/ 250 and 350-A1. Inlet and discharge pre-mounted.

Including non-return valve, elastic connecting piece with hose connection for discharge line & empty, 40 mm, guide for flow switch,

Accessories for installation for floor or mounting and rubber feet.

Type	Measure / Size [mm]	Product-No.	EUR
LIFTAWAY C	405 x 275 x 340	96 00 39 85	213,60

UNILIFT KP to LIFTAWAY C (Product Group: DC)

Type	Voltage [V]	Rated Power [kW]	Nominal Current	Length of Cable [m]	Weight [kg]	Product-No.	EUR
UNILIFT KP 150-A1	1 x 230 V	0,30	1,3	3	5,5	01 1H 16 00	225,54
UNILIFT KP 250-A1	1 x 230 V	0,50	2,2	3	6,3	01 2H 16 00	267,00
UNILIFT KP 350-A1	1 x 230 V	0,70	3,2	3	7,0	01 3N 16 00	338,31

Pumps with 10 m supply cable see UNILIFT KP

LIFTAWAY B (Product Group: DC)

Single-pump lifting station designed for collection and pumping of wastewater from discharge levels below the sewer line, for pump type KP150/KP250 or

drain pump UNILIFT AP 12.40.04.A1 to UNILIFT AP 12.40.08. A1. Pit with telescopic part and odour-proof cover. Installation kit for UNILIFT KP or UNILIFT AP 12 with non-return

valve, discharge pipe and connection, inlet connetction,

flexible fitting between pump and discharge pipe

Type	for	Measure / Size [mm]	Weight [kg]	Product-No.	EUR
LIFTAWAY B	for UNILIFT KP	500 x 770	15,5	96 00 39 74	782,46
LIFTAWAY B	for UNILIFT AP 12	500 x 770	15,5	96 00 39 75	812,00

UNILIFT KP or UNILIFT AP 12 to LIFTAWAY B (Product Group: DC)

Type	Voltage [V]	Rated Power [kW]	Nominal Current	Length of Cable [m]	Weight [kg]	Product-No.	EUR
UNILIFT KP 150-A1	1 x 230 V	0,30	1,3	3	5,5	01 1H 16 00	225,54
UNILIFT KP 250-A1	1 x 230 V	0,50	2,2	3	6,3	01 2H 16 00	267,00
UNILIFT AP 12.40.04.A1	1 x 230 V	0,70	3,0	3	11,0	96 01 10 17	447,60
UNILIFT AP 12.40.06.A1	1 x 230 V	0,90	4,4	3	11,0	96 00 17 35	471,32
UNILIFT AP 12.40.08.A1	1 x 230 V	1,30	5,9	3	12,6	96 00 17 98	526,52

Pumps with 10 m supply cable see UNILIFT KP or UNILIFT AP

Chapter 16

Lifting station for sewage



MULTILIFT MSS (Product Group: CB)

Supplied as complete sewage lifting unit ready for installation with pressure-tight collecting tank, inlet port DN 100, venting ports DN 75 with socket, pump with integrated motor protection and pre-assembled non-return valve DN 80, discharge adapter flange to pipe DN 80/Ø 110 mm, pressure sensor for level control with separate switches for normal-, high- and alarm-level, electric signal processing, 4 m wire between pump and control, 0,8 m supply wire with Schuko or CEE-plug. Elastic connecting piece DN 100 with socket, installation accessories.

Type	Performance	Voltage [V]	Nominal Current	Rotation Speed	Discharge Nozzle	Volume of Tank	Acting volume 180	Acting volume 250	Weight [kg]	Product-No.	EUR
MSS.11.1.2 1x230V	1,8/1,1	1 x 230 V	8	2760	80/100	44	20	28	28	97 90 10 37	1.489,36
MSS.11.3.2 3x400V	1,8/1,1	3 x 400 V	3,1	2785	80/100	44	20	28	28	97 90 10 27	1.489,36

Accessories MULTILIFT MSS (Product Group: CB)

Pos.	Part	Description	Dimension [mm]	Product-No.	EUR
no pict.	Accumulator	For mains-independent alarm	0	96 00 25 20	49,15

Accessories for LC 109 controls

MULTILIFT M (Product Group: CB)

Supplied as complete unit ready for installation, for the collection and pumping of wastewater and sewage, with pressure-tight collecting tank, one pump with integrated motor protection, DN 100 inlet port with socket, vertical connecting piece DN75 for venting with socket, additional combi-ports DN 100/150, inlet ports 2 x Ø 50 mm for hand-operated membrane pump, two pre-mounted non-return valves DN 80, pipe connecting piece 3 x DN 80 discharge adapter flange to pipe DN 80 Ø 110 mm, elastic connecting piece for discharge line DN 100 with sockets, pressure sensor for level control with separate switches for normal-, high- and alarm-level, electric signal processing, 4 m wire between pump and control, 0,8 m supply wire with Schuko or CEE-plug.

Type	Performance	Voltage [V]	Nominal Current	Rotation Speed	Discharge Nozzle	Volume of Tank	Acting volume 180	Acting volume 250	Weight [kg]	Product-No.	EUR
M.12.1.4	1,9/1,4	1 x 230 V	9	1430	80/100	92	34	49	69	97 90 10 64	2.393,62
M.12.3.4	1,8/1,5	3 x 400 V	3,6	1430	80/100	92	34	49	69	97 90 10 65	2.393,62
M.15.1.4	2,2/1,6	1 x 230 V	10,1	1410	80/100	92	34	49	69	97 90 10 66	2.624,11
M.15.3.4	2,1/1,7	3 x 400 V	4	1410	80/100	92	34	49	69	97 90 10 67	2.624,11
M.22.3.4	3/2,5	3 x 400 V	5,5	1430	80/100	92	34	49	70,5	97 90 10 68	2.801,42
M.24.3.2	3,1/2,7	3 x 400 V	5,5	2920	80/100	92	34	49	72	97 90 10 70	2.978,72
M.38.3.2	4,6/3,8	3 x 400 V	7,5	2880	80/100	92	34	49	72	97 90 10 74	3.510,64

Accessories MULTILIFT M (Product Group: CB)

Pos.	Part	Description	Dimension [mm]	Product-No.	EUR
no pict.	Accumulator	For mains-independent alarm	0	96 00 25 20	49,15

Accessories for LC 109 controls

MULTILIFT MD (Product Group: CB)

Supplied as complete unit ready for installation, for the collection and pumping of wastewater and sewage, with pressure-tight collecting tank, two pumps with integrated motor protection, DN 100 inlet port with socket, vertical connecting piece DN75 for venting with socket, additional combi-ports DN 100/150, inlet ports 2 x Ø 50 mm, two pre-mounted non-return valves DN 80, pipe connecting piece 3 x DN 80 discharge adapter flange to pipe DN 80 Ø 110 mm, elastic connecting piece for discharge line DN 100 with sockets, pressure sensor for level control with separate switches for normal-, high- and alarm-level, electric signal processing, 4 m wire between pump and control, 0,8 m supply wire with Schuko or CEE-plug.

Type	Performance	Voltage [V]	Nominal Current	Rotation Speed	Discharge Nozzle	Volume of Tank	Acting volume 180	Acting volume 250	Weight [kg]	Product-No.	EUR
MD12.1.4	1,9 / 1,4	1 x 230 V	9	1430	80/100	130	49	69	119	97 90 10 84	4.184,40
MD12.3.4	1,8 / 1,5	3 x 400 V	3,7	1430	80/100	130	49	69	119	97 90 10 85	4.095,74
MD15.1.4	2,2 / 1,6	1 x 230 V	10,1	1410	80/100	130	49	69	119	97 90 10 86	4.414,89
MD15.3.4	2,1 / 1,7	3 x 400 V	4	1420	80/100	130	49	69	119	97 90 10 87	4.326,24
MD22.3.4	3,0/2,5	3 x 400 V	5,5	1430	80/100	130	49	69	121	97 90 10 88	4.698,58
MD24.3.2	3,1/2,7	3 x 400 V	5,5	2920	80/100	130	49	69	126	97 90 10 90	4.929,08
MD32.3.2	4/4,3	3 x 400 V	6,7	2920	80/100	130	49	69	126	97 90 10 92	5.141,84
MD38.3.2	4,6/3,8	3 x 400 V	7,5	2880	80/100	130	-	-	126	97 90 10 94	5.851,06

Accessories MULTILIFT MD (Product Group: CB)

Pos.	Part	Description	Dimension [mm]	Product-No.	EUR
no pict.	Accumulator	For mains-independent alarm	0	96 00 25 20	49,15

Accessories for LC 109 controls

MULTILIFT MLD (Product Group: CB)

Supplied as complete unit ready for installation, for the collection and pumping of wastewater and sewage, with pressure-tight collecting tank, DN 150 inlet port with socket, vertical connecting piece DN75 for venting with socket Ø 50, two pumps with integrated motor protection, two non-return valves DN 80, pipe connecting piece 3 x DN 80, discharge adapter flange to pipe DN 80 / Ø 110 mm, elastic connecting piece for discharge line DN 100 with sockets, pressure sensor for level control with separate switches for normal-, high- and alarm-level, electric signal processing, 10 m signal cable, comfortable control unit with integrated alarm function, 4 m wire between pump and control, 1,5 m supply wire with Schuko or CEE-plug.

Type	Performance	Voltage [V]	Nominal Current	Rotation Speed	Discharge Nozzle	Volume of Tank	Acting volume	Weight [kg]	Product-No.	EUR
MLD12.1.4	1,9 / 1,4	1 x 230 V	9	1430	80/100	270	190	130	97 90 11 04	6.471,63
MLD12.3.4	1,8 / 1,5	3 x 400 V	3,6	1430	80/100	270	190	130	97 90 11 05	6.471,63
MLD15.1.4	2,2 / 1,6	1 x 230 V	10,5	1410	80/100	270	190	130	97 90 11 06	6.826,24
MLD15.3.4	2,1 / 1,7	3 x 400 V	4,1	1410	80/100	270	190	130	97 90 11 07	6.826,24
MLD22.3.4	3 / 2,5	3 x 400 V	5,5	1430	80/100	270	190	132	97 90 11 08	7.003,55
MLD24.3.2	3,1 / 2,7	3 x 400 V	5,5	2920	80/100	270	190	137	97 90 11 10	7.180,85
MLD32.3.2	4 / 3,4	3 x 400 V	6,7	2920	80/100	270	190	137	97 90 11 12	7.358,16
MLD38.3.2	4,6 / 3,8	3 x 400 V	7,4	2880	80/100	270	190	137	97 90 11 14	7.712,77

Accessories MULTILIFT MLD (Product Group: CB)

Pos.	Part	Description	Dimension [mm]	Product-No.	EUR
no pict.	Accumulator	For mains-independent alarm	9.6 V block execution	96 00 25 20	49,15

Accessories for LC 110 controls

MULTILIFT MD1 / MDV - SL

One to three gas- and pressure-tight collecting tanks (for installations with more than one tanks, additional 2 collecting pieces and sockets included) horizontal inlet socket DN150, vertical connecting piece DN75 for venting Ø 75 mm, connecting pieces 50 mm, 2 kits of flange units with elastic connecting pieces Ø 110 mm with socket for inlet connection of the tank, pressure sensor for level control with separate switches for normal-, high- and alarm-level, electric signal processing, 10 m signal cable, comfortable control unit with integrated alarm function, 2 pumps of SL range with 10 m cable ready for connection, suitable for intermittent operation S3 (40%), installation accessories for pumps and tank.

MULTILIFT with Vortex impeller (Product Group: CB)

Type	Performance	Voltage [V]	Nominal Current	Rotation Speed	Discharge Nozzle	Volume of Tank	Acting volume	Product-No.	EUR
MDV65. 80.22.2 - SL	2,8/2,2	3 x 380 – 415 V	4,9	2895	80	450/900/1350	150/300/450	97 57 78 18	7.971,05
MDV65. 80.30.2 - SL	3,8/3,0	3 x 380 – 415 V	6,8	2910	80	450/900/1350	150/300/450	97 57 78 33	8.508,97
MDV65. 80.40.2 - SL	4,8/4,0	3 x 380 – 415 V	8,5	2925	80	450/900/1350	150/300/450	97 57 78 36	11.350,94
MDV.80. 80.60.2 - SL	7,1/6,0	3 x 380 – 415 V	12,5	2945	80	450/900/1350	150/300/450	97 57 78 38	13.711,40
MDV.80. 80.75.2 - SL	8,9/7,5	3 x 380 – 415 V	15,1	2940	80	450/900/1350	150/300/450	97 57 78 40	14.569,08

MULTILIFT with chanell impeller (Product Group: CB)

Type	Performance	Voltage [V]	Nominal Current	Rotation Speed	Discharge Nozzle	Volume of Tank	Acting volume	Product-No.	EUR
MD1.80. 80.15.4 - SL	2,1/1,5	3 x 380 – 415 V	3,9	1435	80	450/900/1350	150/300/450	97 57 78 57	8.542,82
MD1.80. 80.22.4 - SL	2,9/2,2	3 x 380 – 415 V	5,3	1445	80	450/900/1350	150/300/450	97 57 78 59	8.668,85
MD1.80. 80.30.4 - SL	6,5/5,5	3 x 380 – 415 V	7,2	1445	80	450/900/1350	150/300/450	97 57 78 61	10.677,59
MD1.80. 80.40.4 - SL	4,9/4,0	3 x 380 – 415 V	9,7	1460	80	450/900/1350	150/300/450	97 57 78 63	12.833,05
MD1.80. 80.55.4 - SL	6,5/5,5	3 x 380 – 415 V	11,8	1455	80	450/900/1350	150/300/450	97 57 78 65	13.764,06
MD1.80. 80.75.4 - SL	9,0/7,5	3 x 380 – 415 V	15,2	1455	80	450/900/1350	150/300/450	97 57 78 67	14.903,87
MD1.80.100.15.4 - SL	2,1/1,5	3 x 380 – 415 V	3,9	1435	100	900/1350	300/450	97 57 78 70	10.344,68
MD1.80.100.22.4 - SL	2,9/2,2	3 x 380 – 415 V	5,3	1445	100	900/1350	300/450	97 57 78 72	11.345,30
MD1.80.100.30.4 - SL	6,5/5,5	3 x 380 – 415 V	7,2	1445	100	900/1350	300/450	97 57 78 74	12.170,99
MD1.80.100.40.4 - SL	4,9/4,0	3 x 380 – 415 V	9,7	1460	100	900/1350	300/450	97 57 78 76	14.283,19
MD1.80.100.55.4 - SL	6,5/5,5	3 x 380 – 415 V	11,8	1455	100	900/1350	300/450	97 57 78 78	15.368,44
MD1.80.100.75.4 - SL	9,0/7,5	3 x 380 – 415 V	15,2	1455	100	900/1350	300/450	97 57 78 80	16.688,79

¹⁾ for 1/2/3 collecting tanks

Commissioning- und maintenance costs see Service

MULTILIFT MD1 / MDV

One to three gas- and pressure-tight collecting tanks (for installations with more than one tanks, additional 2 collecting pieces and sockets included) horizontal inlet socket DN150, vertical connecting piece DN75 for venting Ø 75 mm, connecting pieces 50 mm, 2 kits of flange units with elastic connecting pieces Ø 110 mm with socket for inlet connection of the tank, pressure sensor for level control with separate switches for normal-, high- and alarm-level, electric signal processing, 10 m signal cable, comfortable control unit with integrated alarm function, 2 pumps of SE range with 10 m cable ready for connection, suitable for continuous operation S1, installation accessories for pumps and tank.

MULTILIFT with Vortex impeller (Product Group: CB)

Type	Performance	Voltage [V]	Nominal Current	Rotation Speed	Discharge Nozzle	Volume of Tank	Acting volume	Product-No.	EUR
MDV65. 80.22.2	2,8/2,2	3 x 380 – 415 V	5,0	2895	80	450/900/1350	150/300/450	96 10 22 74	8.856,52
MDV65. 80.30.2	3,8/3,0	3 x 380 – 415 V	6,6	2910	80	450/900/1350	150/300/450	96 10 22 76	9.455,32
MDV65. 80.40.2	4,8/4,0	3 x 380 – 415 V	8,6	2925	80	450/900/1350	150/300/450	96 10 22 78	12.612,18

MULTILIFT with chanell impeller (Product Group: CB)

Type	Performance	Voltage [V]	Nominal Current	Rotation Speed	Discharge Nozzle	Volume of Tank	Acting volume	Product-No.	EUR
MD1.80. 80.15.4	2,1/1,5	3 x 380 – 415 V	4,2	1435	80	450/900/1350	150/300/450	96 10 22 80	9.491,28
MD1.80. 80.22.4	2,9/2,2	3 x 380 – 415 V	5,9	1445	80	450/900/1350	150/300/450	96 10 22 82	9.632,46
MD1.80. 80.30.4	6,5/5,5	3 x 380 – 415 V	7,8	1445	80	450/900/1350	150/300/450	96 10 22 84	11.863,67
MD1.80. 80.40.4	4,9/4,0	3 x 380 – 415 V	10,0	1460	80	450/900/1350	150/300/450	96 10 22 86	14.259,50
MD1.80. 80.55.4	6,5/5,5	3 x 380 – 415 V	13,4	1455	80	450/900/1350	150/300/450	96 10 22 88	15.292,82
MD1.80. 80.75.4	9,0/7,5	3 x 380 – 415 V	17,3	1455	80	450/900/1350	150/300/450	96 10 22 90	16.558,81
MD1.80.100.15.4	2,1/1,5	3 x 380 – 415 V	4,2	1435	100	900/1350	300/450	96 10 22 92	11.494,31
MD1.80.100.22.4	2,9/2,2	3 x 380 – 415 V	5,9	1445	100	900/1350	300/450	96 10 22 94	12.606,26
MD1.80.100.30.4	6,5/5,5	3 x 380 – 415 V	7,8	1445	100	900/1350	300/450	96 10 22 96	13.523,16
MD1.80.100.40.4	4,9/4,0	3 x 380 – 415 V	10,0	1460	100	900/1350	300/450	96 10 22 98	15.870,66
MD1.80.100.55.4	6,5/5,5	3 x 380 – 415 V	13,4	1455	100	900/1350	300/450	96 10 23 00	17.076,22
MD1.80.100.75.4	9,0/7,5	3 x 380 – 415 V	17,3	1455	100	900/1350	300/450	96 10 23 02	18.542,85

¹⁾ for 1/2/3 collecting tanks

Commissioning- und maintenance costs see Service

Accessories MD1 / MDV / SL (Product Group: CB)

Pos.	Part	Description	Dimension [mm]	Product-No.	EUR
o. Abb	Accumulator	For mains-independent alarm	9.6 V block execution	96 00 25 20	49,15

Accessories for LCD 110 controls

MULTILIFT MOG, MDG (Product Group: CB)

Supplied as complete unit ready for installation, for the collection and pumping of wastewater and sewage. One (MOG) or two (MDG) grinder pumps, with pressure-tight collecting tank, DN 100 inlet port with socket, vertical connecting piece DN75 for venting with socket, 50 mm for hand-operated membrane pump. Pressure sensor for level control with separate switches for normal-, high- and alarm-level, electric signal processing, 4 m wire between pump and control, 0,8 m supply wire with Schuko or CEE-plug.

Type	Performance	Voltage [V]	Nominal Current	Rotation Speed	Discharge Nozzle	Volume of Tank	Acting volume 180	Acting volume 250	Weight [kg]	Product-No.	EUR
MOG.09.1.2	1,4/0,9	1 x 230 V	6,3	2890	80/100	93	23	37	62	97 90 11 24	3.634,75
MOG.09.3.2	1,4/0,9	3 x 400 V	2,6	2860	80/100	93	23	37	62	97 90 11 25	3.191,49
MOG.12.1.2	1,8/1,2	1 x 230 V	8,2	2820	80/100	93	23	37	62	97 90 11 26	3.989,36
MOG.12.3.2	1,8/1,2	3 x 400 V	3,1	2750	80/100	93	23	37	62	97 90 11 27	3.457,45
MOG.15.3.2	2,3/1,5	3 x 400 V	3,8	2700	80/100	93	23	37	64	97 90 11 28	3.634,75
MOG.26.3.2	3,7/2,6	3 x 400 V	5,3	2870	80/100	93	23	37	85	97 90 11 30	4.255,32
MOG.31.3.2	3,9/3,1	3 x 400 V	6,3	2900	80/100	93	23	37	93	97 90 11 32	4.521,28
MOG.40.3.2	5,2/4	3 x 400 V	8,2	2830	80/100	93	23	37	93	97 90 11 34	4.787,23
MDG.09.1.2	1,4/0,9	1 x 230 V	6,3	2890	80/100	93	23	37	106	97 90 11 36	6.879,43
MDG.09.3.2	1,4/0,9	3 x 400 V	2,6	2860	80/100	93	23	37	106	97 90 11 37	6.382,98
MDG.12.1.2	1,8/1,2	1 x 230 V	8,2	2820	80/100	93	23	37	106	97 90 11 38	7.056,74
MDG.12.3.2	1,8/1,2	3 x 400 V	3,1	2750	80/100	93	23	37	106	97 90 11 39	6.560,28
MDG.15.3.2	2,3/1,5	3 x 400 V	3,8	2700	80/100	93	23	37	108	97 90 11 40	6.648,94
MDG.26.3.2	3,7/2,6	3 x 400 V	5,3	2870	80/100	93	23	37	150	97 90 11 42	7.358,16
MDG.31.3.2	3,9/3,1	3 x 400 V	6,3	2900	80/100	93	23	37	166	97 90 11 44	7.890,07
MDG.40.3.2	5,2/4	3 x 400 V	8,2	2830	80/100	93	23	37	166	97 90 11 46	8.421,99

Chapter 17

Controls for sewage



Controls for sewage and drainage pumps LC(D) 107

Compact control unit based on level signals from pneumatic level switches including separate high level signal
Control and motor protection of 1 or 2 pumps, plastic housing with transparent cover, IP 54, without Ex-protection
Voltage: 1 x 230 V oder 3 x 400 V, 50 Hz, Ambient temperature: 0 – 40 °C
Starting method: direct, level control with level switches, pump stop after adjustable runtime
M-O-A switch, signal operation/alarm, potentialfree and acoustic alarm signals
Scope of supply: level switches with 10 m pneumatic tube

For three phase pumps, 3 x 400 V (Product Group: CW)

Type	Description	Voltage [V]	Nominal Current	Measure / Size [mm]	Product-No.	EUR
LC 107.400	Single-pump control for three-phase pumps in direct start	3 x 400	1,0 – 5,0	380 x 280 x 150	96 84 18 32	605,60
LC 107.400	Single-pump control for three-phase pumps in direct start	3 x 400	3,7 – 12,0	380 x 280 x 150	96 84 18 34	628,42
LCD 107.400	Double pump control for three-phase pumps in direct start	3 x 400	1,0 – 5,0	380 x 280 x 150	96 84 18 41	730,42
LCD 107.400	Double pump control for three-phase pumps in direct start	3 x 400	3,7 – 12,0	380 x 280 x 150	96 84 18 42	776,95

For single phase SEG, DP10, EF30, SL1.50, SLV.65, 1 x 230 V (pumps without integrated operating and starting capacitors) (Product Group: CW)

Type	Description	Voltage [V]	Nominal Current	Measure / Size [mm]	Product-No.	EUR
LC 107.230	Single-pump control with built-in start-up and running capacitor for single-phase pumps	1 x 230	3,7 – 1 ²⁾ (150/30 μ F)	560 x 280 x 150	96 84 18 11	882,40
LCD 107.230	Double pump control with built-in start-up and running capacitor for single-phase pumps	1 x 230	3,7 – 12 (150/30 μ F)	560 x 280 x 150	96 84 18 40	1.122,65

For single phase UNILIFT CC, KP, AP 1 x 230 V (pumps with built-in capacitors) (Product Group: CW)

Type	Description	Voltage [V]	Nominal Current	Measure / Size [mm]	Product-No.	EUR
LC 107.230	Single-pump control for single-phase pumps	1 x 230	1,0 – 5,0	380 x 280 x 150	96 84 18 06	597,99
LC 107.230	Single-pump control for single-phase pumps	1 x 230	3,7 – 12,0	380 x 280 x 150	96 84 18 07	623,01
LCD 107.230	Double Pump Control for AC pumps	1 x 230	1,0 – 5,0	380 x 280 x 150	96 84 18 36	716,22
LCD 107.230	Double Pump Control for AC pumps	1 x 230	3,7 – 12,0	380 x 280 x 150	96 84 18 37	762,77

Accessories LC(D) 107 (Product Group: CW)

Type	Description	Colour	Length [mm]	Product-No.	EUR
Pneumatic line	Pressure pipe -as a replacement for 10 m cable that came with the controller at a distance to control the pumps> 10 m	Black	-	96 43 16 14	55,80
Pneumatic line	Pressure pipe -as a replacement for 10 m cable that came with the controller at a distance to control the pumps> 10 m	red	20	96 43 16 15	55,80
Pneumatic line	Pressure pipe -as a replacement for 10 m cable that came with the controller at a distance to control the pumps> 10 m	white	20	96 43 16 16	55,80
Bell Complete	Bell complete, cast iron, including compression fittings	0	0	96 00 54 64	19,85

Controls for sewage and drainage pumps LC(D) 108

Compact control unit based on level signals from flow switches including separate high level signal
Control and motor protection of 1 or 2 pumps, plastic housing with transparent cover, IP 54, for Ex-pumps additional device required.
Voltage: 3 x 400 V, 50 Hz, Ambient temperature: 0 – 40 °C
Starting mode: direct or start/delta
M-O-A-switch, signal operation/alarm, potentialfree and acoustic alarm signals
Float swith to be ordered separately

For pumps to 4 kW (direct start), 3 x 400 V (Product Group: CW)

Type	Description	Voltage [V]	Nominal Current	Measure / Size [mm]	Product-No.	EUR
LC 108.400	Single-pump control for three-phase pumps in direct start	3 x 400	1,0 – 5,0	380 x 280 x 150	96 84 18 59	507,77
LC 108.400	Single-pump control for three-phase pumps in direct start	3 x 400	3,7 – 12,0	380 x 280 x 150	96 84 18 63	578,41
LCD 108.400	Double pump control for three-phase pumps in direct start	3 x 400	1,0 – 5,0	380 x 280 x 150	96 84 19 42	638,33
LCD 108.400	Double pump control for three-phase pumps in direct start	3 x 400	3,7 – 12,0	380 x 280 x 150	96 84 19 48	680,82

For pumps above 4 kW (star/delta), 3 x 400 V (Product Group: CW)

Type	Description	Voltage [V]	Nominal Current	Measure / Size [mm]	Product-No.	EUR
LC 108.400	Single-pump control for three-phase pumps in the star / delta starting	3 x 400	3,2 – 20,0	560 x 380 x 200	96 84 18 69	1.550,41
LC 108.400	Single-pump control for three-phase pumps in the star / delta starting	3 x 400	20,8 – 30,0	560 x 380 x 200	96 84 18 70	1.696,10

Type	Description	Voltage [V]	Nominal Current	Measure / Size [mm]	Product-No.	EUR
LC 108.400	Single-pump control for three-phase pumps in the star / delta starting	3 x 400	30,0 – 59,0	560 x 380 x 200	96 84 18 71	1.916,82
LCD 108.400	Double pump control for three-phase pumps in the star / delta starting	3 x 400	3,2 – 20,0	560 x 380 x 200	96 84 19 54	2.099,12
LCD 108.400	Double pump control for three-phase pumps in the star / delta starting	3 x 400	20,8 – 30,0	560 x 380 x 200	96 84 19 55	2.458,23
LCD 108.400	Double pump control for three-phase pumps in the star / delta starting	3 x 400	30,0 – 59,0	560 x 380 x 200	96 84 19 56	2.830,15

For single phase SEG, DP10, EF30, SL1.50, SLV.65, 1 x 230 V (pumps without integrated operating and starting capacitors) (Product Group: CW)

Type	Description	Voltage [V]	Nominal Current	Measure / Size [mm]	Product-No.	EUR
LC 108.230	Single-pump control with built-in start-up and running capacitor for single phase grinder pumps	1 x 230	3,7 – 12,0 (150/30 µ F)	560 x 280 x 150	96 84 18 52	798,65
LCD 108.230	Double pump control with built-in start-up and running capacitor for single phase grinder pumps	1 x 230	3,7 – 12,0 (150/30 µ F)	560 x 280 x 150	96 84 19 33	974,82

Float switch, explosions-proof (Product Group: CW)

Type	Description	Dimensions	Product-No.	EUR
Ex-auxiliary relay	Zener barrier for electrical isolation between the control and Max 4 float switches, mounted in an ISO housing IP 54	H x W x D 370 x 250 x 120 mm	96 44 03 00	346,61

Communication module for sewage pumps with AUTOADAPT (Product Group: CW)

Type	Description	Product-No.	EUR
CIU 202 MODbus-Module	Expansion module for sewage pumps AUTOADAPT MODbus RTU data bus networks	97 64 47 28	479,61
CIU 252 GSM-Module	Extension module for sewage pumps AUTOADAPT for wireless communication via SMS / GSM / GPRS	97 64 47 29	682,54
GSM Antenna	GSM quad-band antenna for CIU 252 GSM module	96 09 52 88	84,62
CIU 272 GRM-Module	Expansion module for sewage pumps AUTOADAPT for wireless remote control via the Grundfos Remote Management	97 64 47 30	682,54
CIU 902 IR -Module	Expansion module for sewage pumps AUTOADAPT for infrared communications with R100	97 64 46 90	368,94

Accessories for controls LC(D) 107 with pneumatic level switches, LC(D) 108 float switches, LC(D) 109, 110 with piezoresistive pressure sensor for Multilift series (Product Group: CW)

Type	Description	Classification	Product-No.	EUR
Accumulator	9 V, for stand-alone alarms, only delivery, installation on site	0	96 00 25 20	49,15
Operating hours counter	1 piece per pump required only delivery, installation on site	Single pump control panel three phase LC107, 108 u. 109	96 00 25 15	80,38
Operating hours counter	1 piece per pump required only delivery, installation on site	Individual control in AC current LC107, 108 and 109 All double LCD controllers 107, 108, 109 & 110	96 00 25 14	77,54
Pulse Counter	1 piece per pump required only delivery, installation on site	Single pump control panel three phase LC107, 108 u. 109	96 00 25 17	111,56
Pulse Counter	1 piece per pump required only delivery, installation on site	Individual control in AC current LC107, 108 and 109 All double LCD controllers 107, 108, 109 & 110	96 00 25 16	92,66

Individual operating or alarm signals on request

Accessories for Controls (Product Group: CW)

Type	Description	Classification	Dimension [mm]	Product-No.	EUR
Horn	For indoor use, only delivery, installation on site	1 x 230 V, 50 Hz	Height = 170 mm outside Ø = 70 mm Sound pressure level 95 dB (A)	62 50 00 22	82,24
External main switch	Note the total switching capacity	0	up to 25 A	96 00 25 11	55,80
External main switch	Note the total switching capacity	0	up to 40 A	96 00 25 12	82,24
External main switch	Note the total switching capacity	0	up to 80 A	96 00 25 13	149,38

Chapter 18

Service Solutions



I. Commissioning

Commissioning

suitable for	Product-No.	EUR
start-up for one Magna / TPE / CRE / NBE / CME	99 99 91 50	42,00
start-up for one Magna-D / TPED	99 99 91 51	70,00
start-up for one module MC, MB, Genibus; LON-Bus (only including start-up pump)	99 99 91 52	28,00

Traveling cost for each case: 0,9 EUR/km

Laser Alignment

suitable for	Rated Power [kW]	Product-No.	EUR
laser alignment for long coupled pumps (NK) to 45 kW	up to 45 kW	99 99 91 00	252,00
laser alignment for long coupled pumps (NK) 55 to 110 kW	55 to 110 kW	99 99 91 01	364,00
laser alignment for long coupled pumps (NK) more than 110 kW	above 110 kW	99 99 91 02	on req.

Traveling cost for each case: 0,9 EUR/km

Start-up for booster

suitable for	Number of Pumps	Product-No.	EUR
start-up for one Hydromono, Hydropac	1 pump	99 99 93 00	112,00
start-up for one Hydro-MPC, Hydro Multi-E 1 to 2 pumps	up to 2 pumps	99 99 93 01	168,00
start-up for one Hydro-MPC, Hydro Multi-E to 4 pumps	up to 4 pumps	99 99 93 02	224,00
start-up for one Hydro-MPC 5 to 6 pumps	up to 6 pumps	99 99 93 03	280,00
start-up for special booster more than 6 pumps	for special booster more than 6 pumps	99 99 93 04	on req.

Traveling cost for each case: 0,9 EUR/km

Start-up for water supply pumps SP / SQ including control

suitable for	Product-No.	EUR
start-up for SP / SQ including control	99 99 93 50	84,00

Traveling cost for each case: 0,9 EUR/km

Start-up for lifting stations / wastewater pumps

suitable for	Product-No.	EUR
start-up for Multilift M / MSS (single pump)	99 99 94 00	112,00
start-up for Multilift MD/MD1/MDV/MDL	99 99 94 02	126,00
start-up for controls LC / LCD	99 99 94 52	126,00

Traveling cost for each case: 0,9 EUR/km

Start-up for controls

suitable for	Product-No.	EUR
start-up for controls DC 2000 / Control MPC	99 99 94 50	168,00
start-up for controls LC / LCD	99 99 94 52	126,00
start-up for frequency converter CUE	99 99 94 54	on req.

Traveling cost for each case: 0,9 EUR/km

Start-up for Grundfos-Alldos products

suitable for	Product-No.	EUR
start-up for Oxiperm Pro	-	on req.
start-up for dosing systems	-	on req.

Traveling cost for each case: 0,9 EUR/km

II. Maintenance

Maintenance for wastewater pumps

suitable for	Rated Power [kW]	Product-No.	EUR
maintenance for wastewater pumps SEG, SEV, SE1, DP10,EF30 to 4,0 kW	up to 4,0 kW	99 99 95 20	98,00
maintenance for wastewater pumps SEG, SEV, SE1, DP10,EF30, 4,1 to 11,0 kW	4,1 to 11,0 kW	99 99 95 22	140,00
maintenance for wastewater controls	-	99 99 95 24	56,00

Traveling cost for each case: 0,9 EUR/km

Maintenance for water supply pumps SP / SQ

suitable for	Product-No.	EUR
maintenance for SP / SQ including control, excluding remove pump	99 99 95 40	84,00

Traveling cost for each case: 0,9 EUR/km

Maintenance for boosters

suitable for	Number of Pumps	Product-No.	EUR
maintenance for Hydromono, Hydropac	1 pump	99 99 95 50	70,00
maintenance for Hydro MPC / Hydro Multi-E, 1 to 2 pumps	up to 2 pumps	99 99 95 52	112,00
maintenance for Hydro MPC / Hydro Multi-E, 3 to 4 pumps	up to 4 pumps	99 99 95 54	154,00
maintenance for Hydro MPC, 5 to 6 pumps	up to 6 pumps	99 99 95 56	182,00

Traveling cost for each case: 0,9 EUR/km

Maintenance for NK / TP-E / LP-E / NB-E / CR-E / CRN-E

suitable for	Rated Power [kW]	Product-No.	EUR
maintenance with laser alignment for long coupled pumps (NK) to 45 kW	-	99 99 95 70	112,00
maintenance with laser alignment for long coupled pumps (NK) 55 to 110 kW	-	99 99 95 72	224,00
maintenance with laser alignment for long coupled pumps (NK) and machine condition diagnostic to 45 kW	-	99 99 95 74	154,00
maintenance with laser alignment for long coupled pumps (NK) and machine condition diagnostic 55 to 110 kW	-	99 99 95 76	308,00
maintenance for TP-E / LP-E / NB-E / CR-E / CRN-E to 7,5 kW	-	99 99 95 85	42,00
maintenance for TP-E / LP-E / NB-E / CR-E / CRN-E, 11 to 45 kW	-	99 99 95 87	70,00
maintenance for TP-E / LP-E / NB-E / CR-E / CRN-E, 55 to 315 kW	-	99 99 95 89	112,00
maintenance for TPD-E, LPD-E to 7,5 kW	-	99 99 95 91	56,00
maintenance for TPD-E, LPD-E, 11 to 45 kW	-	99 99 95 93	98,00

Traveling cost for each case: 0,9 EUR/km

III. Flow Measurements

Measurements

suitable for	Product-No.	EUR
one flow measurement, including 5 field hours	99 99 97 00	280,00

Traveling cost for each case: 0,9 EUR/km

IV. Machine status report

Machine status report

suitable for	Product-No.	EUR
machine condition diagnostic for pumps pursuant ISO 10816, including report	99 99 97 31	70,00
machine condition diagnostic for bearings, including verbal Statement	99 99 97 33	70,00
machine condition diagnostic for bearings, including report	99 99 97 35	70,00

Traveling cost for each case: 0,9 EUR/km

V. Service training

Service training

suitable for	for	Product-No.	EUR
service training in hands-on area, including room,dinner and breakfast, per person	per participant	99 99 97 40	195,00
service training in hands-on area, excluding room,dinner and breakfast, per person	per participant	99 99 97 41	95,00

Traveling cost for each case: 0,9 EUR/km

VI. Grundfos Remote Management (GRM)

Grundfos Remote Management (GRM)

suitable for	for	Product-No.	EUR
Optional set with Grundfos GRM CIM270	once	99 99 99 94	377,00
Monthly charge for hosting - SIM card fees (minimum term of 24 months)	monthly	99 99 99 95	on req.

Traveling cost for each case: 0,9 EUR/km

GENERAL

All prices are recommended.

All prices are in EUR and do not include VAT

All prices are subject to be changed without prior notice

This pricelist is valid in the following countries:



Hungary



Bulgaria



Romania



Serbia



Bosnia-Herzegovina



Croatia



Slovenia



Kosovo



Albania



Montenegro



Macedonia



A GRUNDFOS Hungária Kft. Általános Szerződési Feltételei

I. Szerződés hatálya

Jelen Általános Szállítási Feltételek a Grundfos Hungária Kft. mint Szállító -továbbiakban Szállító -által kiadott ajánlatokkal, rendelés-visszaigazolásokkal, számlákkal és minden egyéb- az értékesítéssel kapcsolatos –dokumentumokkal összhangban értelmezendők.

Jelen Általános Szerződési Feltételektől történő bármely eltérés csak Szállító és Vevő által aláírt és jóváhagyott írásos formában érvényes.

II. Árak

Szállító EUR alapú árlistával rendelkezik. Szállító ajánlataiban szereplő árak EUR árak az ajánlat napján érvényes árakat tartalmazzák, így azok a Szállítótól független jogszabályváltozás, illetve hatósági intézkedés esetén, külön értesítés nélkül módosulhatnak.

Vevő a megrendeléskor írásban rendelkezhet arról, hogy a számlát EUR vagy forint pénznemben kéri kiállítani.

Amennyiben Vevő forintban kéri a számlát úgy tudomásul veszi, hogy Szállító a forint összeg kiszámításakor az ajánlatban / rendelés visszaigazolásban szereplő EUR összeget alapul véve a Szállító által meghatározott, a kiállítás napján érvényes árfolyamon számítja át forintra.

Szállító ajánlataiban feltüntetett árak nettó árak, azok az ÁFA-t nem tartalmazzák.

Ellenkező írásbeli megállapodás hiányában a normál kereskedelmi áruk esetében a Szállító jogosult 30 EUR adminisztrációs, rendelés feldolgozási díjat felszámítani, amelyet 500 EUR rendelési érték felett a Szállító átvállal. Szóban forgó díj felszámításától a Szállító Extranet-en érkező rendelések esetén minden esetben eltekint.

III. Az ajánlat érvényességi határideje

Szállító ajánlata az abban feltüntetett határidőig érvényes. E határidő eltelte után az ajánlatban foglalt Szállítót semmilyen formában nem kötelezik.

IV. Szállítási határidő

A szállítási határidőt az ajánlat tartalmazza. Amennyiben a megrendelés visszaigazolásában megjelölt szállítási határidő az ajánlatban szereplő határidőtől eltér, abban az esetben, ez utóbbi, a megrendelés visszaigazolásban rögzített határidő az irányadó. A szállítási határidőként megadott időtartam a rendelés kézhezvételétől -illetve előlegfizetés esetén az előlegnek a Szállító bankszámlájára történő beérkezésétől számítandó.

A Szállító jogosult a visszaigazolásban rögzített határidőt módosítani, de amennyiben ezt a Vevő nem fogadja el, úgy Vevő jogosult a megrendelést 3 napon belül lemondani pótlólagos díj felszámítása nélkül.

Amennyiben Vevő feltételezi, hogy nem lesz képes az árut a megállapodott időben átvenni, úgy köteles azt azonnal írásban közölni Szállítóval, a várható új átvételi határidővel együtt.

Szállító köteles a Vevő igénye szerinti szállítás érdekében eljárni, azonban jogosult a Vevő érdekkörében felmerült okból vagy körülmény miatti késedelemből esetlegesen keletkező többletköltségét illetve kárát Vevővel szemben érvényesíteni.

V. Szállítás

A normál üzletmenet során a szállítás a felek eltérő írásbeli megállapodása hiányában, a Grundfos cégcsoport biatorbágyi központi raktárából (Grundfos Magyarország Gyártó Kft. 2051 Biatorbágy, Huber u. 5 (Tulipán park)) történik. Szállító a felek eltérő írásbeli megállapodása hiányában fuvarbiztosítás nélkül, értékhatártól függetlenül díjmentesen szállítja az árut Vevő telephelyére vagy a Vevő által a megrendelésben megadott belföldi szállítási címre. A szállítás átfutási ideje a rendelés feldolgozásától számított minimum 48 óra, de maximum a rendelés leadását követő naptól számított 3. munkanap.

Vevő köteles a pontos szállítási címet a megrendelésen feltüntetni. A téves vagy hiányos szállítási cím megadásából eredően felmerülő valamennyi költséget Szállító jogosult a Vevő felé érvényesíteni.

A normál üzletmenettől eltérő (pl. expressz fuvar) ügyletekből adódó többlet szállítási költségek egyéb írásbeli megállapodás hiányában a Vevőt terhelik.

A szállítványozó cégnek történő átadással a Grundfos részéről a teljesítés megtörténtnek tekintendő, vagyis az adóztatandó ügylet tényállászerűen megvalósul. Így az ÁFA törvény 55. § (1) bekezdése alapján a szóban forgó teljesítés napja adófizetési kötelezettséget keletkeztet és a kiállított számla teljesítési időpontjának minősül.

VI. Átadás-átvétel

Az árut a Grundfos cégcsoport biatorbágyi logisztikai központja, szállítványozó cég bevonásával szállítja Vevő részére. Az áru átadás-átvétele Vevő telephelyén, illetve az általa megjelölt egyéb helyen történik. Vevő saját fuvarszervezővel nem jogosult a Grundfos cégcsoport központi raktárában árut átvenni.

Az áru átadás-átvételek Szállító illetve a Grundfos cégcsoport logisztikai központja az áru mennyiségileg, darab és súly szerint adja át a kiszállítást végző szállítványozó cégnek. Az áru fizikai átadás-átvételét a szállítványozó cég képviselője és a Vevő vagy annak képviselője végzi, melynek igazolásul a mindkét fél által aláírt, igazolt (pecsét, aláírás) szállítólevél szolgál.

Amennyiben az átadás-átvétel során Vevő az áru mennyiségével -darabszámával és súlyával -valamint csomagolásával kapcsolatban nem jelentett be kifogást, az esetben az átadás-átvételt követően ilyen jogcímen nem támasztható igény a Szállítóval szemben. Az átadás-átvétel során tapasztalt eltéréseket a szállítólevél hiteles módon (pecsét, aláírás) jelezni kell.

A visszaszállított göngyöleg (csere paletta, rakodókeret stb.) pontos mennyiségét a szállítólevél hiteles módon (pecsét, aláírás) igazolni kell.

VII. Fizetési feltételek

Szállító az egyéb fizetési feltételeit ajánlataiban, rendelés visszaigazolásaiban illetve számláin közli.

A felek kifejezett eltérő írásbeli megállapodásának hiányában a számla készpénzben vagy előre átutalással egyenlítendő ki.

Amennyiben feltételezhető, hogy Vevő nem lesz képes a Szállító felé fennálló tartozásainak kiegyenlítésére, Szállító jogosult bankgaranciát, előleget vagy a teljes vételár előre történő kiegyenlítését, illetve más fizetési biztosítékot kérni a Vevőtől. Ilyen esetekben Szállító fenntartja a jogot a szerződéstől, vagy annak egy részétől való elállásra.

Késedelmes fizetés esetén Szállító a számla bruttó összegére vetítve, napi kamatszámítással a Ptk. 301/A. § (2) bekezdés szerinti késedelmi kamatra jogosult, amelyet eltérő írásbeli megállapodás hiányában, legkésőbb az adott üzleti év pénzügyi zárásáig külön elszámolási összesítés formájában leszámház a Vevő részére.

Az EUR pénznemben kiállított számlákat külön írásos megállapodás hiányában kizárólag EUR pénznemben lehet pénzügyileg rendezni.

Vevő kifejezett írásos ellenvetése hiányában hozzájárul ahhoz, hogy Szállító a követelését független külső félre engedményezze (pl. követelés biztosítás).

VIII. Tulajdonjog fenntartása

A leszállított termékek, beleértve a csomagolást is, az ellenértékük tartozás teljes kiegyenlítéséig Szállító tulajdonában maradnak. Erre tekintettel a teljes vételár kiegyenlítése előtt az árut biztosítékul lekötni vagy más módon megterhelni nem lehet.

Szállító az áru ellenértékének teljes kiegyenlítéséig, külön írásbeli nyilatkozatával kifejezetten megtilthatja az áru továbbértékesítését. Arra az esetre, ha Vevő az árut az ellenértékének kiegyenlítése előtt, ilyen kifejezett tilalom ellenére elidegenítette, arra az esetre Vevő tudomásul veszi, hogy az ebből eredő bevételeit kifejezetten, feltétel nélkül és haladéktalanul engedményezni köteles Szállítóra az áru még ki nem egyenlített ellenértéke erejéig.

Az egyszer használatos csomagolás az áru vételárában bennefoglaltatik. A többször használatos csomagolásban, vagy konténerben történő szállítás esetén a csomagolóanyag, illetve a konténer Szállító tulajdonában marad, amely csomagolóanyagot, illetve konténer a Vevő köteles az átadás-átvételt követő 15 napon belül Szállító részére díjmentesen visszajuttatni. Amennyiben Vevő ezen kötelezettségnek nem tesz eleget, az esetben a Szállító választása szerint jogosult a csomagolóanyag, illetve a konténer ellen értékét leszámházni, illetve ezek használatáért bérleti díjat felszámítani Vevő részére.

IX. Kárveszély átszállása

A kárveszély az áru átvételekor száll át a Vevőre a Vevő telephelyén, illetve az általa a megrendelésben megjelölt egyéb szállítási helyen.

X. Rendelés törlése, áru visszavétele

1. Szállító hibájából történt téves szállítás esetén az ahhoz kapcsolódó számla teljes összege levonás nélkül jóváírásra kerül. Az áru visszaszállításának költségei a Szállítót terhelik.

2. Szállítónak fel nem róható okból bekövetkező, érvényes visszaigazolt rendelés Vevő részéről történő törlése esetén Szállító sztoronó-költséget számít fel:

a) Folyamatosan raktáron tartott áruk esetén a nettó számlaérték 20%-át.

b) Nem raktári szivattyúk és berendezések esetén a sztoronó-költséget Szállító a tényleges költségeinek figyelembe vételével esetleg határozza meg. Ez tartalmazza a Gyártómű költségeit, a Szállító (Grundfos Hungária Kft.) 20% kezelési költségét (amelynek alapja a nettó számlaérték), és a gyártóhoz történő visszaszállítás fuvar költségét. Ezen költségek felsorolását a Szállító Vevő kérésére bemutatja.

c) Amennyiben a Vevő által törlésre került megrendeléshez tartozóan már rész szállítás történt, úgy ezen termékek visszavételének feltételei az alábbiak:

- Egy évnél régebben gyártott termékeket Szállító nem vesz vissza.
- A termék eredeti és sértetlen állapotú és csomagolású.
- Vevő előzetesen, írásban értesíti Szállító vevőszolgálatát, egyidejűleg mellékeli az eredeti számla faxolt vagy szkennelt példányát.
- Az áru Szállító raktárra történő visszaszállításának költségei Vevőt terhelik.

3. Áru visszavétele bármilyen egyéb okból csak eseti megállapodással, Szállító előzetes írásbeli engedélyével történhet.

XI. Reklamáció

Mennyiségi reklamáció:

Szállítónak az áru átadás-átvételét követően mennyiségi reklamációt nem áll módjában elfogadni. Vevőnek a leszállított termékek csomagolásával szemben támasztott kifogásait átvetelkor, a szállítást végző gépkocsivezetővel közösen felvett jegyzőkönyvben kell rögzítenie. A mennyiségi reklamációt mindkét félnek a szállítólevélen hitelesen (pecsét, aláírás) igazolni kell.

Minőségi reklamáció:

A Szállító termékeire az idevonatkozó jogszabályokban meghatározott feltételekkel, saját illetve szerződéses szervizpartnerei útján garanciát vállal.

Szállító az árut, annak hibája vagy meghibásodása esetén, a jótállási időn belül, saját választása szerint kicseréli vagy kijavítja. Szállító árszállítás illetve pénzvisszafizetés útján a szavatossági igényeket nem orvosolja.

Amennyiben az áru nem javítható, az esetben a Szállító köteles az árut ugyanolyanra, vagy legalább azonos paraméterekkel rendelkező hasonlóra kicserélni.

Amennyiben az áru hibája vagy meghibásodása bizonyíthatóan a Vevő szakszerűtlen üzembe helyezésének, működtetésének, szervizelésének vagy egyéb szakszerűtlen beavatkozásának eredménye, abban az esetben a Szállító jogosult a szervizeléssel kapcsolatosan felmerült valamennyi költségét, a mindenkor érvényes szerviz árlista alapján leszámlázni Vevő részére.

Amennyiben az áru hibája vagy meghibásodása a Vevő szakszerűtlen üzembe helyezésének, működtetésének, szervizelésének vagy egyéb szakszerűtlen beavatkozásának eredménye, abban az esetben Szállító jótállási kötelezettsége megszűnik.

Amennyiben Vevő a szavatossági igényeken túlmenően esetlegesen egyéb igényeket is érvényesíteni kíván Szállítóval szemben, azt köteles legkésőbb a szavatossági/jótállási igénybejelentéssel egyidejűleg megtenni.

Ha a felek nem jutnak egyezsre abban a kérdésben, hogy az áru hibájáért vagy meghibásodásáért melyik felet terheli a felelősség, az esetben a felek által közösen kiválasztott független szakértő közreműködését veszik igénybe a vitás kérdés eldöntéséhez, amely szakértő állásfoglalását mindkét fél elfogadja. A szakértő költségeit a felek egyenlő arányban előlegezik és a költségeket a vétkes fél viseli.

Ha feltételezhető, hogy a termék hibája kárt okozhat a környezetében, úgy Vevő köteles a várható kár enyhítése érdekében eljárni, és ezzel egyidejűleg köteles azonnal értesíteni Szállítót.

Az áru nem megfelelő tárolása, kezelése, és természetszerű elhasználódása esetén Szállítónak nem áll módjában reklamációt elfogadni.

A Szállító a gyári paramétereknek való megfeleléséért csak próbapadi mérés alapján vállal felelősséget. Szállító a megfelelő termék kiválasztásának vonatkozásában, a feleknek kifejezetten erre irányuló írásbeli megállapodás hiányában, nem vállal felelősséget, még abban az esetben sem, ha a kiválasztásnál közreműködött.

Szállító az általa értékesített termékekre a számla kiállításától számított 24 hónap garanciát nyújt, azzal, hogy garanciális igény a gyártás dátumától számított 36 hónapon, mint objektív határidőn túl nem érvényesíthető.

XII. Beszámitás

A Szállítóval szemben fennálló tartozásokba kizárólag a Vevő részére jogerősen megítélt tartozások számíthatóak be.

XIII. Szavatossági időn túli javítások

Szállító az árunak a szavatossági időn túl bekövetkezett hibájának illetve meghibásodásának esetén a hibát Vevő írásbeli megrendelése esetén a mindenkor hatályos szerviz árlistája alapján javítja ki.

Szállító az elvégzett szerelési munkákért a mindenkor hatályos jogszabályok szerinti jótállást vállalja.

XIV. Vis major

Szállító semmilyen vis majorból –így különösen: munkabeszüntetések, rendkívüli államigazgatási intézkedések, beszállítói késedelem, időjárási akadályok, természeti katasztrófák stb.– eredő késedelmes szállításért nem vállal felelősséget. Amennyiben a vis majorból származó akadályoztatás 6 hónapnál hosszabb, a feleknek jogában áll a szerződéstől való elállás.

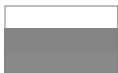
XV. Egyéb feltételek

Amennyiben felek között szerződés jött létre úgy jelen általános szerződési feltételek a megkötött szerződésben foglalt eltérésekkel alkalmazandóak.

Jelen általános szerződési feltételekben nem szabályozott kérdésekben a mindenkor hatályos jogszabályok rendelkezései az irányadóak, különös tekintettel a Ptk.vonatkozó rendelkezéseire.

Jelen szerződéses jogviszonyból eredő bármely jogvita esetére szerződő felek kölcsönösen alávetik magukat, Szállító mindenkor székhelye, illetve az ügyértéktől függően a Fővárosi Bíróság kizárólagos illetékességének.

Terms and Conditions



Грундфос България ЕООД си запазва правото на промени без предварително известие.
Грундфос България ЕООД не носи отговорност за допуснати печатни грешки.
Посочените цени са препоръчителни.
Цените са в евро и не включват ДДС.
За превалутиране на евро към лева да се счита за валиден фиксираният курс на Българска Народна Банка евро/лева – 1.95583 лв.
Грундфос България ЕООД си запазва правото на промяна в курса евро/лева, при промяна от страна на Българска Народна Банка.



Lista de preturi este valabila de la February 2013
Toate preturile sunt in euro si nu contin TVA



Vse cene so priporočljive.
Vse cene so v EUR in ne vsebujejo DDV
Vse cene se lahko spremenijo brez predhodnega opozorila.



Sve cene su preporučene.
Sve cene su u evrima i ne uključuju PDV.
Sve cene su podložne promenama, bez prethodne najave.



Sve cijene su preporučene
Sve cijene su u EURIMA i ne uključuju PDV
Sve cijene podliježu promjeni bez prethodne najave.

Validity

Valid from 1st January 2013

Croatia, Serbia, Bosnia-Herzegovina, Slovenia, Kosovo, Albania, Montenegro, Macedonia

Valid from 1st March 2013

Hungary, Romania, Bulgaria





Grundfos Hungária Kft.
Park u 8.
2045 Törökbálint
Hungary
Phone: (+36) 23 511 110
www.grundfos.hu

Grundfos Bulgaria EOOD (Ltd.)
100 Iztochna Tangenta str.
1592 Sofia
Bulgaria
Phone: (+359) 249 2200
www.grundfos.bg

Grundfos d.o.o.
Slandrova 8B
1231 Ljubljana Crnuce
Slovenia
Phone: (+386) 1568 0610
www.grundfos.si

Grundfos Pompe Romania
Tipografilor Street No.11-15
A2 Building, Second Floor, District 1
RO 013714 Bucharest
Romania
Phone: (+40) 21 200 4100
www.grundfos.ro

Grundfos Srbija d.o.o.
Omladinskih brigada 90B
11070 New Belgrade
Serbia
Phone: (+381) 11 225 8740
www.grundfos.rs

Grundfos Croatia d.o.o.
Buzinski prilaz 38
10 010 Buzin
Zagreb
Phone: (+385) 387 3359 2490
www.grundfos.hr

Grundfos predstavništvo
u Bosni i Hercegovini
Zmaja od Bosne 7-7A
Phone: (+387) 33 592 480

