ELECTRIC SUBMERSIBLE SEWAGE PUMPS

Ranges
MX, V, VX, K
Discharge Size
DN 80–DN 150

HOMA
PUMP TECHNOLOGY

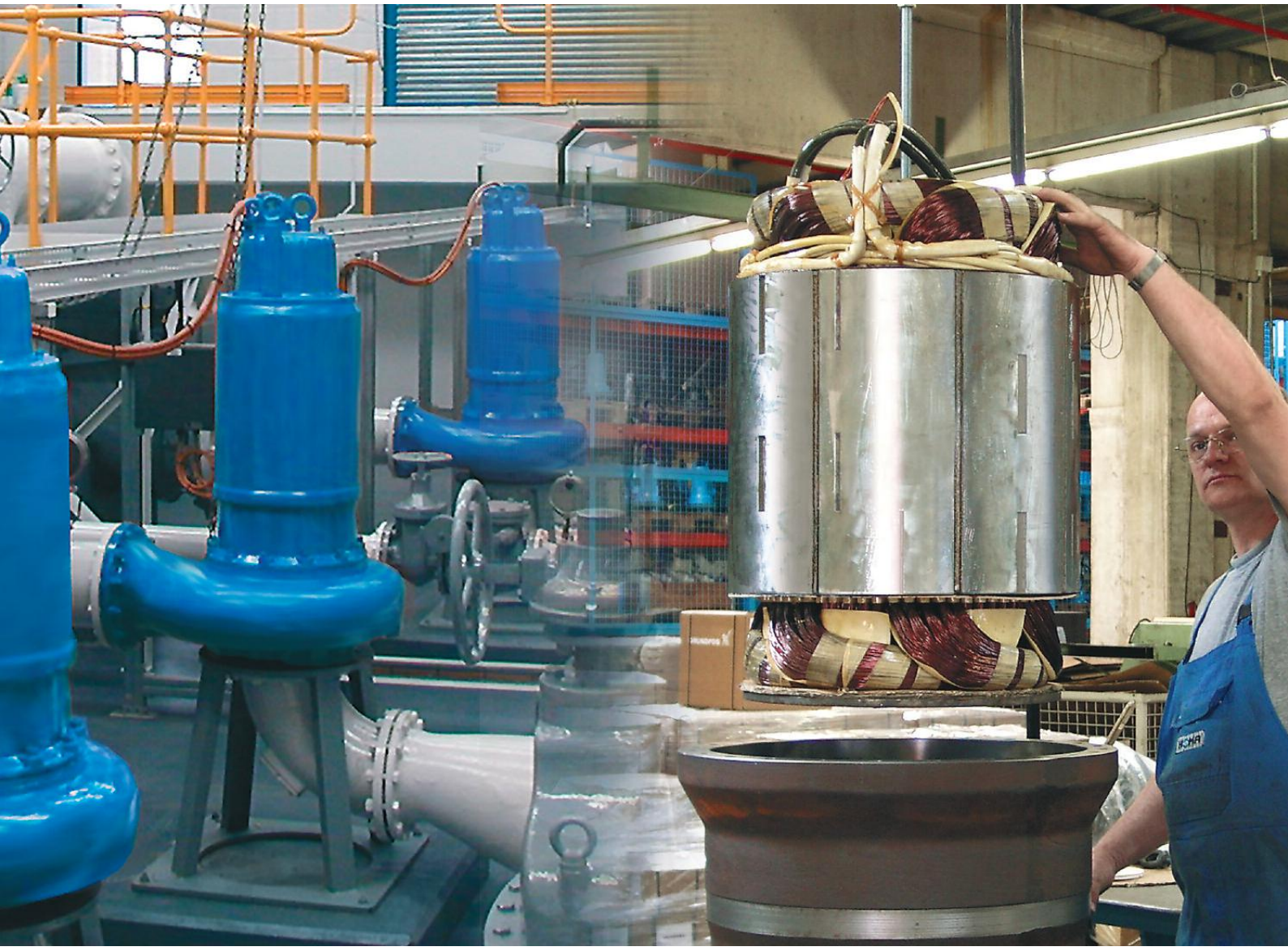
High Performance in Waste Water Pumping

HOMA submersible waste water and sewage pumps operate worldwide in numerous kinds of domestic, municipal and industrial applications. Decades of experience in the design and manufacturing of submersible pumps plus uncompromising attention to quality in every detail and strict monitoring of production quality ensure the utmost reliability and long service life of all **HOMA** products.

Flexible system-components for problem-free installation

HOMA combines efficiency, safety, high quality and robust design with a flexibility that allows the individual optimization of every project realization:

Pumps for various types of application and installation, a complete program of installation equipment including pipes, valves, pump pits from concrete or composite materials, electric control and monitoring systems. With this range **HOMA** can provide a tailor-made solution for every waste water pumping application.



The reliability of fully automatic operation

HOMA waste water pumping stations feature fully automatic control and monitoring. Reliable liquid level control systems of various types (float switch, pneumatic, ultrasound or electronic systems) are available to secure reliable pump operation at minimum energy consumption. All possible fault factors like shaft seal condition, temperatures, moisture or power supply can be automatically monitored and transferred to various alarm systems.

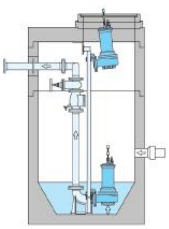
Higher Performance to meet every Challenge

Various challenges – individual solutions: **HOMA** submersible wastewater pumps are designed for pumping sewage, sludge, effluents or surface water, including liquids containing a large proportion of solid or fibrous matter. They are installed in domestic, municipal, industrial and agricultural pumping applications.

The right installation for every pump station

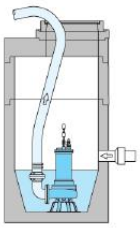
Permanent wet well installation

Submerged autocoupling guide tube system for automatic connection and disconnection of the pump from the pipework from outside the sump. All maintenance or repair work can be done outside the sump. Back in operating position, the weight of the pump ensures leak-proof discharge connection.



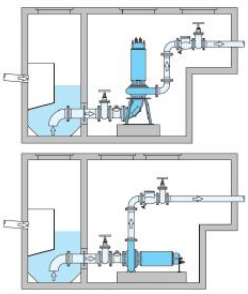
Transportable wet well installation

Submerged pump mounted on a ring base stand for temporary, service or emergency operation. Discharge connection with pipe or hose.



Permanent dry well installation, vertical or horizontal

Flood-proof installation for pump stations with separate collection sump. Fixed flanged connection of suction and discharge pipe.



Operating conditions

The motors are designed for continuous operating duty (S1) at maximum 15 starts per hour. In addition to a fully submerged motor housing in wet well installation, a jacket cooled motor-variant is available for S1 operating with a non-fully submerged motor or for dry well installation.

Pumps with enclosed single-channel impellers are designed for intermittent operation, normally in automatic level-controlled wet or dry well sump installations. They are also suitable for limited continuous operation, as in storm water retention tanks. Vortex or enclosed multichannel impeller pumps are also designed for unlimited continuous operation, such as industrial water supply. In this case a low motor speed should be chosen (4- or 6-pole).

Ranges and Models

Motor selection

Motor speed:
For the standard hydraulic ranges, the motors are designed with the following speeds:

- 2900 rpm = 2-pole
- 1450 rpm = 4-pole
- 960 rpm = 6-pole

Voltages:
All specified data relate to an operating voltage of 400 V/3 Ph, 50 Hz. Different voltages are available on request.

Type of starting:
The motors are supplied as standard:

- up to 3,5 kW (P2) for DOL starting
- above 3,5 kW (P2) for star-delta-starting

On request all motors are available for operating with frequency converter or soft starter device.

Explosion protection:
In addition to the standard version, all motors are available explosion proof according to
⟨Ex⟩ II 2 G Ex c d [e] [ib] IIB T4, T3.

Dry well variant:
Besides the version for submerged operation, all pumps are also available for dry well or non-submerged operation. Motor cooling is provided by a cooling jacket, using either the pumped liquid or a closed circuit coolant circulation (model U or L).

Motor monitoring:
All motors are supplied with temperature sensors in the winding, bi-metalic sensors (standard) or PTC sensors (on request).

- Motors for wet well installation (without cooling jacket):
  Available as C-version (see pump type code) with oil chamber seal condition monitoring probe and – for motors with cable junction chamber – moisture sensor in junction chamber)
- Motors with cooling jacket:
  Supplied as standard with oil chamber seal condition monitoring probe.

Additional monitoring devices (bearing temperature, stator room moisture) on request.

Hydraulic selection

Discharge and suction flange

- DN 80
- DN 100
- DN 150

Reducing adapters for different auto-coupling system and valve dimensions are available.

Impellers:
A range of different impeller designs are available to provide optimum performance and reliability with various liquids and operating conditions

Impeller spherical clearance:
The pumps are available with impeller spherical clearances from 80 mm to 100 mm according to pump range.

MX Enclosed single channel impeller
For liquids containing impurities and sludge with solid particles or long fibres.

K Enclosed multi channel impeller
For liquids containing impurities and sludge with solid particles.

V(X) Vortex impeller
For liquids containing a high level of impurities or fibrous matter and containing gas.

Pump type code:

Pump				Motor					
MX	2	4	48 -	T	(U)	6	4	(C)	(EX)

Impeller design
MX = Enclosed single channel
V(X) = Vortex
K = Enclosed two channel

Discharge size:
1 = 80 mm
2 = 100 mm
3 = 150 mm

Spherical clearance:
(mm : 25)
3 = 80 mm
4 = 100 mm

Impeller diameter
(mm : 5)
e. g.
48 = 240 mm

Motor frame size:
C, D, T, P, F, G

Jacket cooled:
Jacket cooled motor for non-sub-merged installation
U= Open circuit pumped liquid cooling
L= Closed circuit liquid cooling

Motor power (coded)

Speed:
2 = 2-pole (2900 rpm)
4 = 4-pole (1450 rpm)
6 = 6-pole (960 rpm)

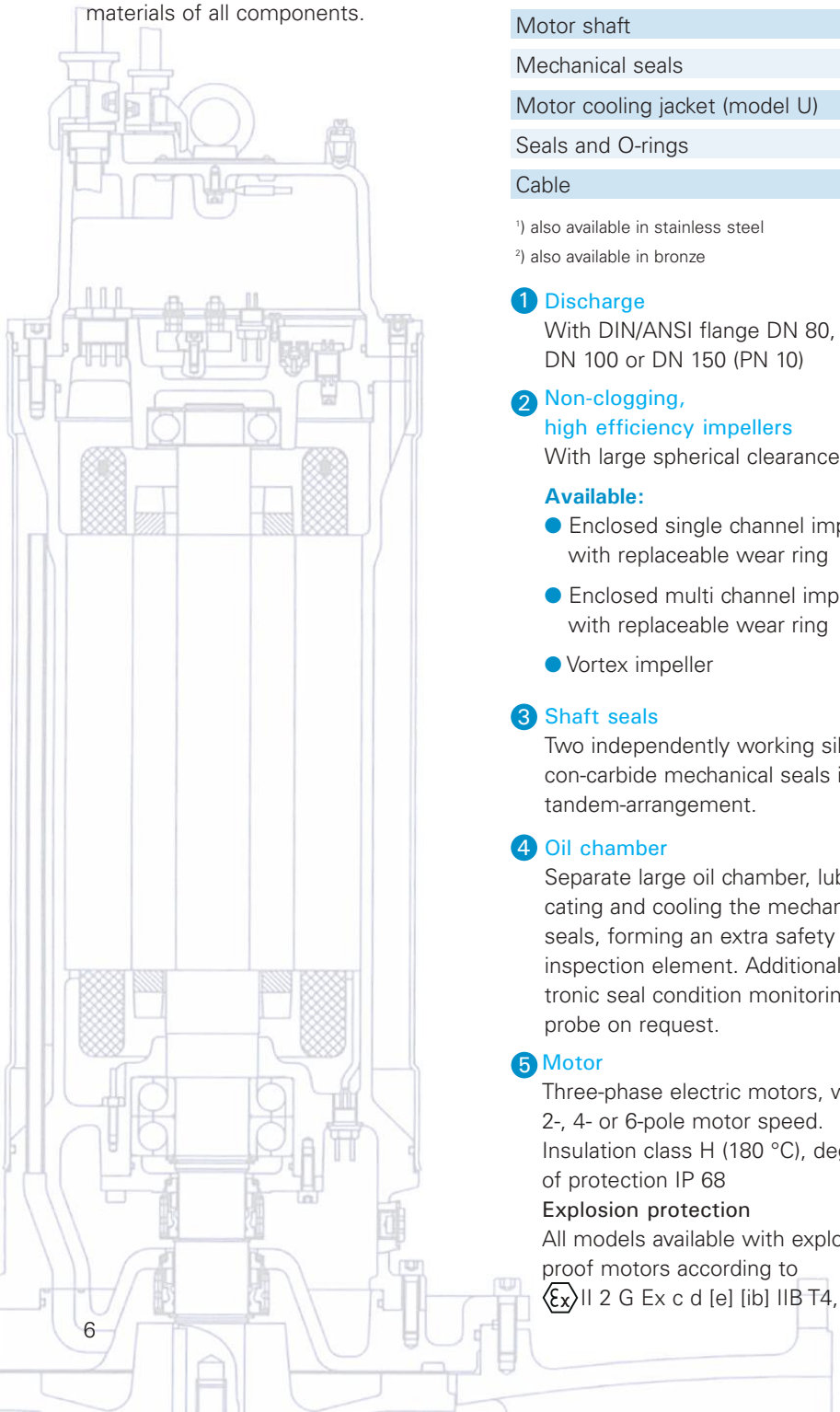
only for motors without jacket cooling. With:
- oil chamber seal condition monitoring probe
- moisture sensor in junction chamber (if exists)

Explosion proof motor

Design – Proven Quality in Detail

More quality in design and materials – less maintenance and failures

Quality can be measured – **HOMA** submersible waste water pumps are characterized by the robust design, generous dimensioning and high quality materials of all components.



Materials

Motor housing	Cast iron EN-GJL-250 [1]
Pump housing	Cast iron EN-GJL-250 [1]
Impeller	Cast iron EN-GJL-250 [1] [2]
Wear rings	Bronze [1]
Motor shaft	Stainless steel
Mechanical seals	Silicon-carbide / Silicon-carbide
Motor cooling jacket (model U)	Stainless steel
Seals and O-rings	NBR (Perbonane) [3]
Cable	H07RN-F (PLUS) [4]

[1]) also available in stainless steel

[2]) also available in bronze

[3]) also available from FPM (vitone)

[4]) screened cable on request

1 Discharge
With DIN/ANSI flange DN 80, DN 100 or DN 150 (PN 10)

2 Non-clogging, high efficiency impellers
With large spherical clearance.

Available:
- Enclosed single channel impeller with replaceable wear ring
- Enclosed multi channel impeller with replaceable wear ring
- Vortex impeller

3 Shaft seals
Two independently working silicon-carbide mechanical seals in tandem-arrangement.

4 Oil chamber
Separate large oil chamber, lubricating and cooling the mechanical seals, forming an extra safety and inspection element. Additional electronic seal condition monitoring probe on request.

5 Motor
Three-phase electric motors, with 2-, 4- or 6-pole motor speed. Insulation class H (180 °C), degree of protection IP 68

Explosion protection
All models available with explosion proof motors according to
Ⓔx II 2 G Ex c d [e] [ib] IIB T4, T3

6 Motor cooling
Motors for submerged operation are cooled by the surrounding liquid. For dry well or non-submerged operation, motors are available with a cooling jacket, providing a cooling circulation of water from the pump volute (model U). Alternatively, a closed circuit liquid cooling system is available without directly using the pumped liquid for the cooling circuit, providing the heat exchange through a contact surface between heat exchange chamber and pump chamber.

7 Thermal sensor (bi-metal)
Embedded in the motor winding. PTC sensors available on request.

8 Moisture monitoring in stator chamber
Available on request

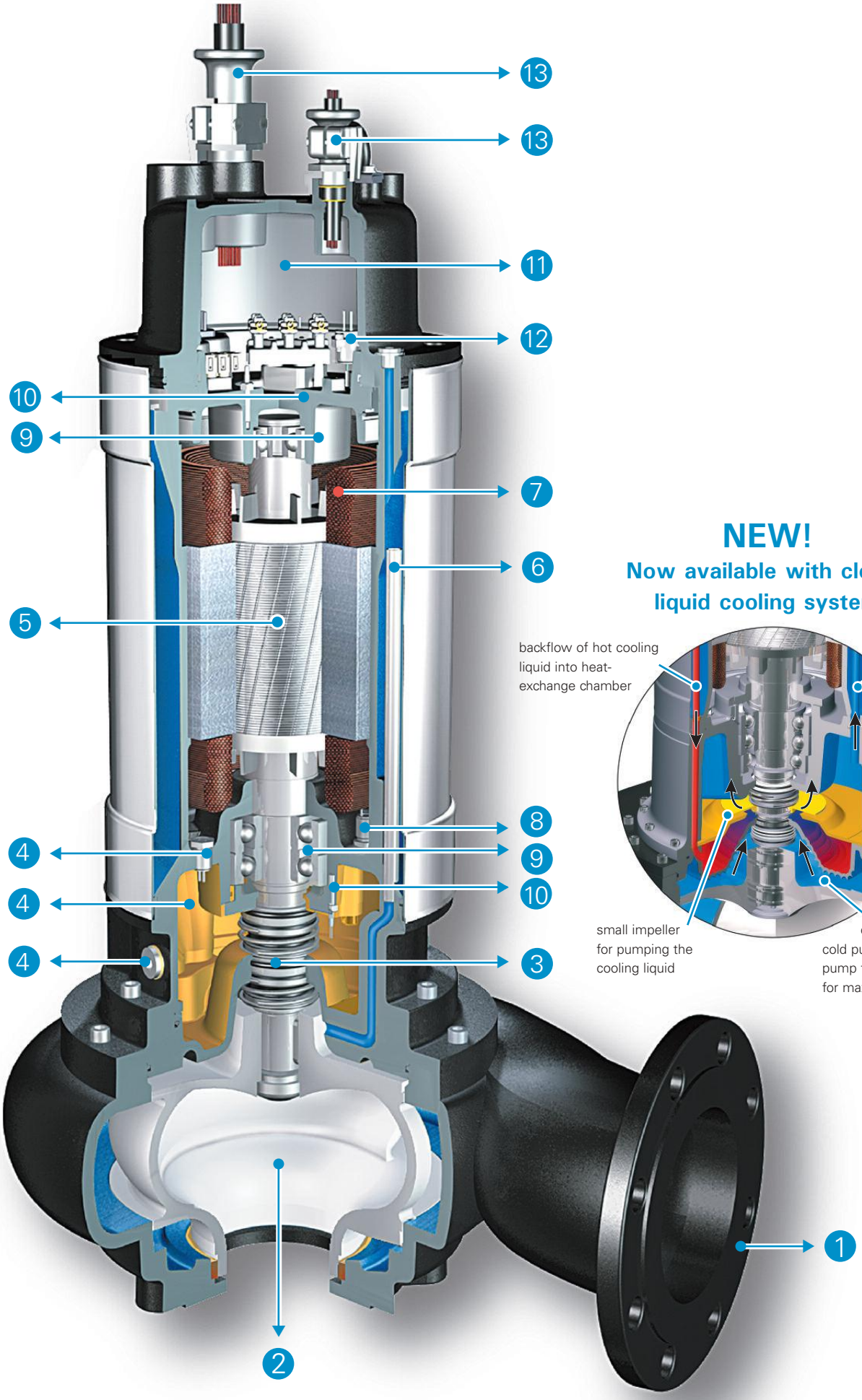
9 Shaft bearing
Maintenance-free, prelubricated ball bearings.

10 Temperature monitoring of the shaft bearings
Available on request.

11 Cable junction chamber
Separate junction chamber standard from 22 kW 4-pole, below on request.

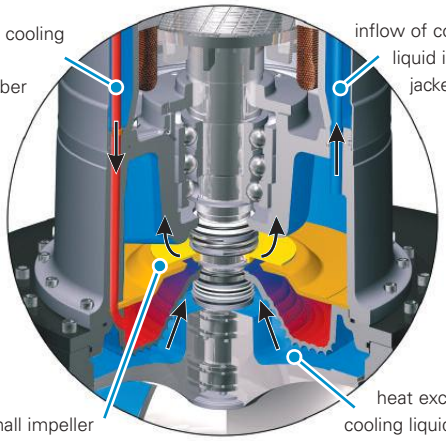
12 Electronic moisture sensor in junction chamber
Available on request.

13 Pressure sealed, strain relief cable entry



NEW!

Now available with closed liquid cooling system



Pump ranges selection chart

DN80

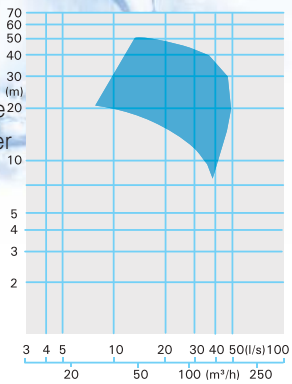
Enclosed single channel impeller

80 mm Ø Spherical clearance

2900 rpm

see page 10

MX 13... -2 pole



DN80

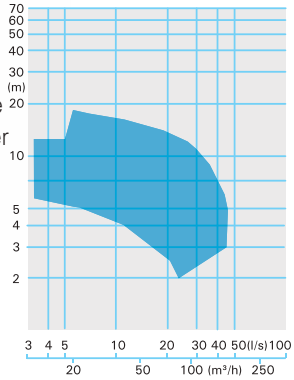
Enclosed single channel impeller

80 mm Ø Spherical clearance

1450 rpm

see page 11

MX 13... -4 pole



DN80

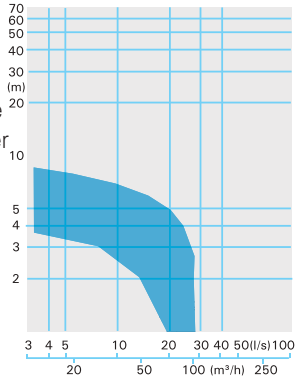
Enclosed single channel impeller

80 mm Ø Spherical clearance

960 rpm

see page 12

MX 13... -6 pole



DN100

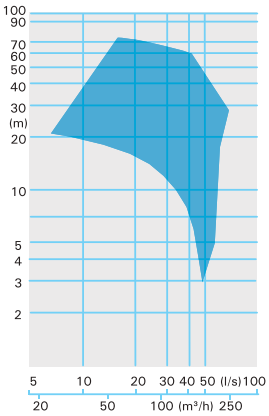
Enclosed single channel impeller

80 mm Ø Spherical clearance

2900 rpm

see page 15

MX 23... -2 pole



DN100

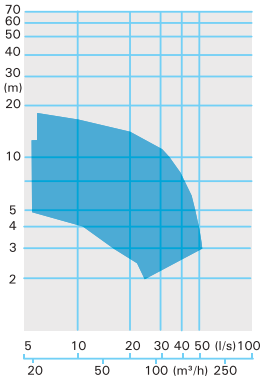
Enclosed single channel impeller

80 mm Ø Spherical clearance

1450 rpm

see page 16

MX 23... -4 pole



DN100

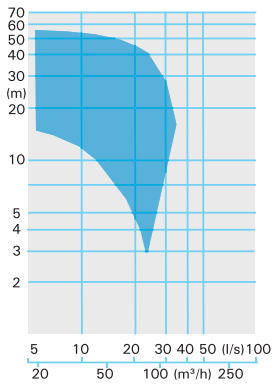
Vortex impeller

80 mm Ø Spherical clearance

2900 rpm

see page 17

V 23... -2 pole



DN100

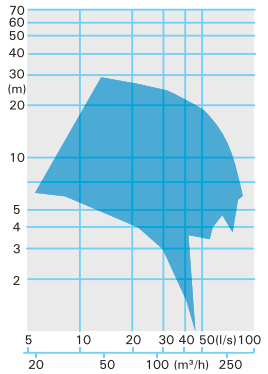
Enclosed single channel impeller

100 mm Ø Spherical clearance

1450 rpm

see page 19

MX 24... -4 pole



DN100

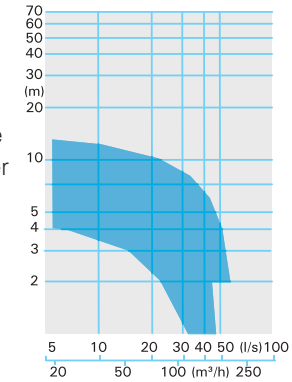
Enclosed single channel impeller

100 mm Ø Spherical clearance

960 rpm

see page 20

MX 24... -6 pole



DN100

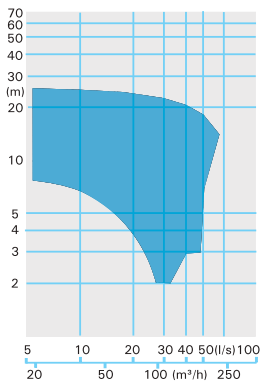
Vortex impeller

100 mm Ø Spherical clearance

1450 rpm

see page 21

VX 24... -4 pole



DN150

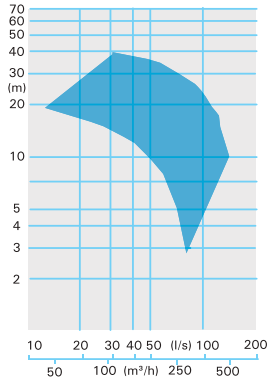
Enclosed single channel impeller

100 mm Ø Spherical clearance

1450 rpm

see page 22

MX 34... -4 pole



DN150

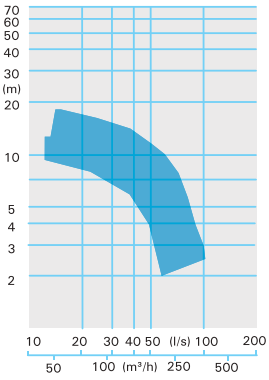
Enclosed single channel impeller

100 mm Ø Spherical clearance

960 rpm

see page 23

MX 34... -6 pole



DN150

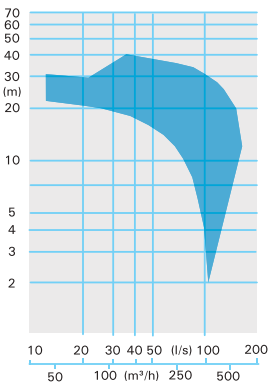
Enclosed two channel impeller

100 mm Ø Spherical clearance

1450 rpm

see page 24

K 33... -4 pole



DN80

Vortex impeller

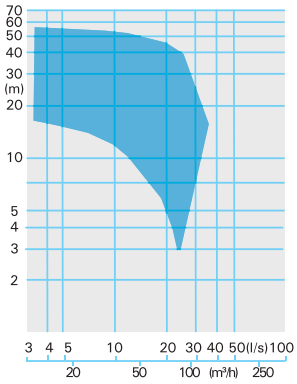
80 mm Ø

Spherical clearance

2900 rpm

see page 13

V 13... -2 pole



DN80

Vortex impeller

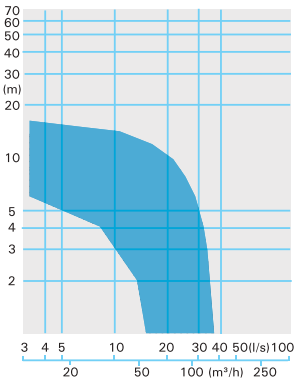
80 mm Ø

Spherical clearance

1450 rpm

see page 14

V(X) 13... -4 pole



DN100

Vortex impeller

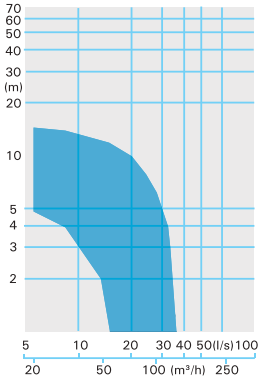
80 mm Ø

Spherical clearance

1450 rpm

see page 18

V(X) 23... -4 pole



DN150

Enclosed two channel impeller

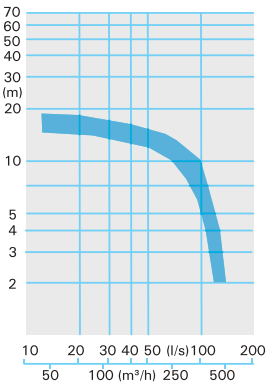
80 mm Ø

Spherical clearance

960 rpm

see page 25

K 33... -6 pole



DN150

Vortex impeller

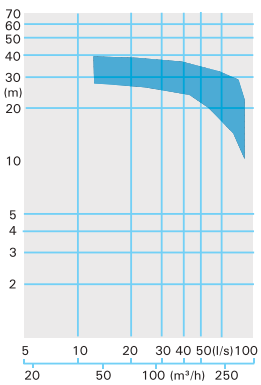
100 mm Ø

Spherical clearance

1450 rpm

see page 26

VX 34... -4 pole



DN150

Vortex impeller

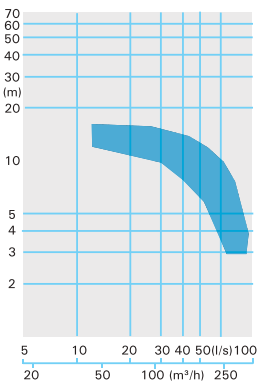
100 mm Ø

Spherical clearance

960 rpm

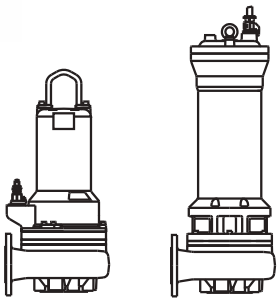
see page 27

VX 34... -6 pole

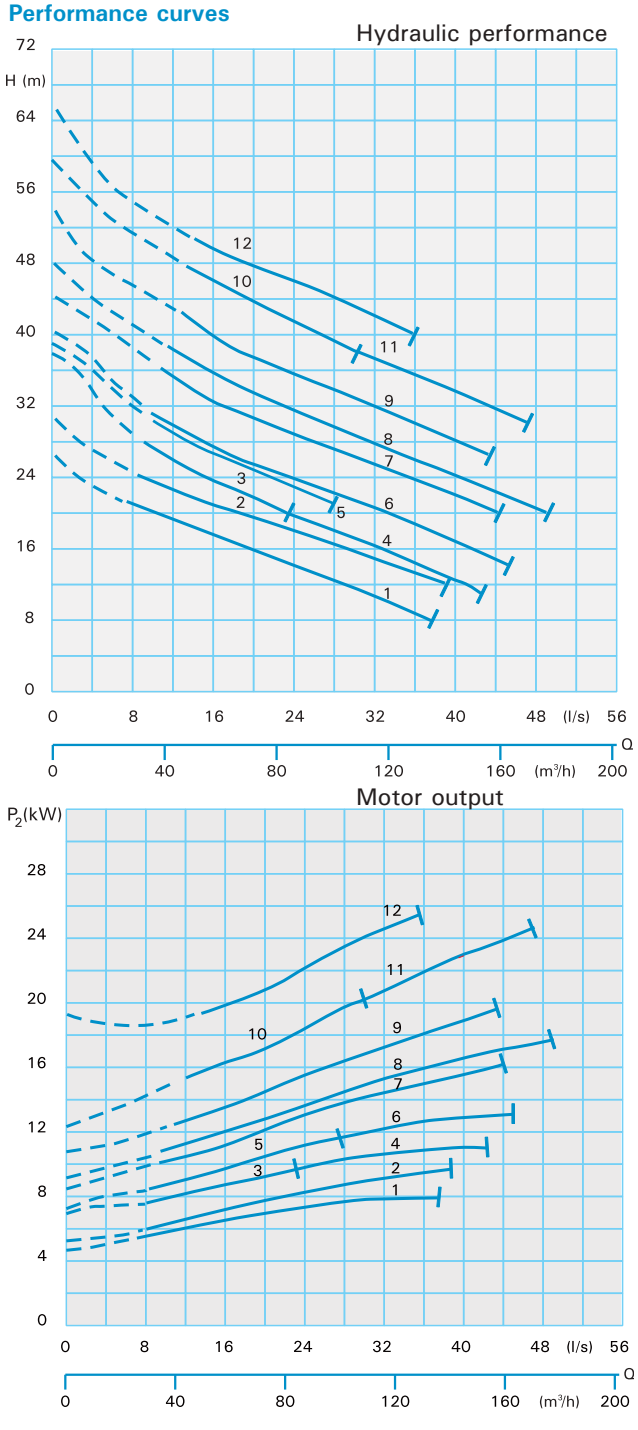


DN80 - MX13...-2 pole

Enclosed single channel impeller
80 mm Ø
Spherical clearance
2900 rpm



Performance curves



Technical data

Standard- and Explosion-proof model – Wet well installation

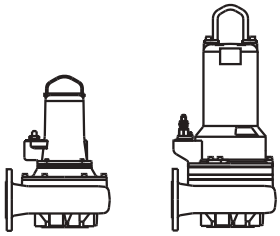
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX1330-T72(C)(Ex)	11.0	9.5	18.8	104	104
2	MX1331-T72(C)(Ex)	11.0	9.5	18.8	104	104
3	MX1335-T72(C)(Ex)	11.0	9.5	18.8	104	104
4	MX1335-T82(C)(Ex)	13.0	11.5	22.2	109	109
5	MX1336-T82(C)(Ex)	13.0	11.5	22.2	109	109
6	MX1336-P92(C)(Ex)	22.0	19.6	36.9	179	191
7	MX1337-P102(C)(Ex)	22.0	19.6	36.9	179	191
8	MX1338-P102(C)(Ex)	22.0	19.6	36.9	179	191
9	MX1339-P102(C)(Ex)	22.0	19.6	36.9	179	191
10	MX1341-P102(C)(Ex)	22.0	19.6	36.9	179	191
11	MX1341-P122(C)(Ex)	28.0	25.4	46.3	199	211
12	MX1344-P122(C)(Ex)	28.0	25.4	46.3	202	214

Standard- and Explosion-proof model – Dry well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX1330-TU72(Ex)	11.0	9.5	18.8	109	109
2	MX1331-TU72(Ex)	11.0	9.5	18.8	109	109
3	MX1335-TU72(Ex)	11.0	9.5	18.8	109	109
4	MX1335-TU82(Ex)	13.0	11.5	22.2	114	114
5	MX1336-TU82(Ex)	13.0	11.5	22.2	114	114
6	MX1336-PU92(Ex)	22.0	19.6	36.9	191	203
7	MX1337-PU102(Ex)	22.0	19.6	36.9	191	203
8	MX1338-PU102(Ex)	22.0	19.6	36.9	191	203
9	MX1339-PU102(Ex)	22.0	19.6	36.9	191	203
10	MX1341-PU102(Ex)	22.0	19.6	36.9	191	203
11	MX1341-PU122(Ex)	28.0	25.4	46.3	211	223
12	MX1344-PU122(Ex)	28.0	25.4	46.3	214	226

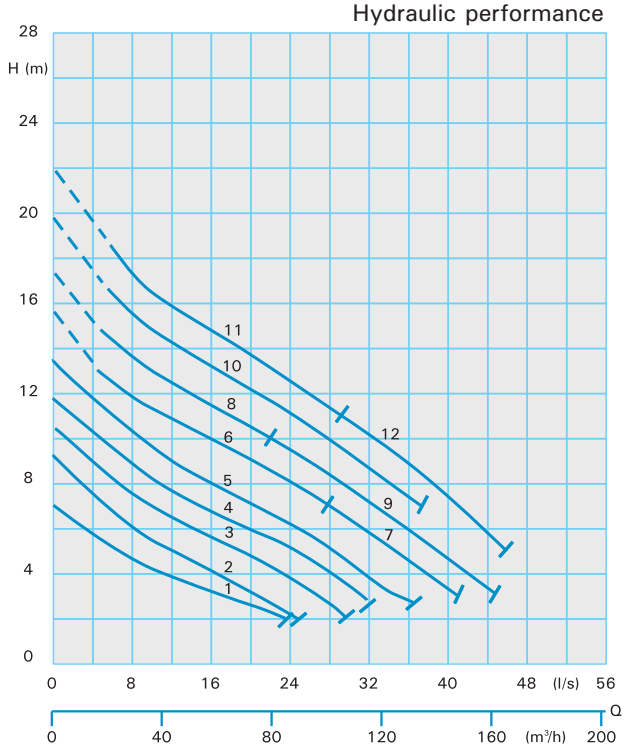
DN80 - MX13...-4 pole

Enclosed single channel impeller
80 mm Ø
Spherical clearance
1450 rpm

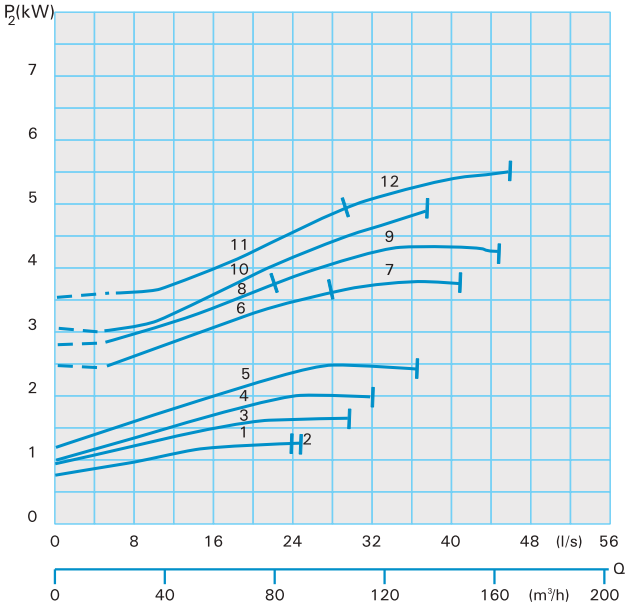


Performance curves

Hydraulic performance



Motor output



Technical data

Standard- and Explosion-proof model – Wet well installation

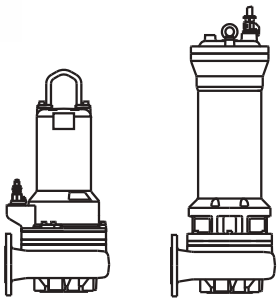
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX1331-C24(C)(Ex)	1.7	1.3	3.3	67	67
2	MX1336-C24(C)(Ex)	1.7	1.3	3.3	67	67
3	MX1337-D44(C)(Ex)	3.4	2.6	6.2	70	70
4	MX1339-D44(C)(Ex)	3.4	2.6	6.2	70	70
5	MX1341-D44(C)(Ex)	3.4	2.6	6.2	70	70
6	MX1344-T44(C)(Ex)	4.4	3.7	7.5	95	95
7	MX1344-T54(C)(Ex)	5.9	5.0	9.9	108	108
8	MX1346-T44(C)(Ex)	4.4	3.7	7.5	95	95
9	MX1346-T54(C)(Ex)	5.9	5.0	9.9	108	108
10	MX1347-T54(C)(Ex)	5.9	5.0	9.9	108	108
11	MX1350-T54(C)(Ex)	5.9	5.0	9.9	108	108
12	MX1350-T64(C)(Ex)	7.7	6.5	13.1	113	113

Standard- and Explosion-proof model – Dry well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX1331-TU34(Ex)	3.4	2.9	5.8	97	97
2	MX1336-TU34(Ex)	3.4	2.9	5.8	97	97
3	MX1337-TU34(Ex)	3.4	2.9	5.8	97	97
4	MX1339-TU34(Ex)	3.4	2.9	5.8	97	97
5	MX1341-TU34(Ex)	3.4	2.9	5.8	97	97
6	MX1344-TU44(Ex)	4.4	3.7	7.5	99	99
7	MX1344-TU54(Ex)	5.9	5.0	9.9	113	113
8	MX1346-TU44(Ex)	4.4	3.7	7.5	99	99
9	MX1346-TU54(Ex)	5.9	5.0	9.9	113	113
10	MX1347-TU54(Ex)	5.9	5.0	9.9	113	113
11	MX1350-TU54(Ex)	5.9	5.0	9.9	113	113
12	MX1350-TU64(Ex)	7.7	6.5	13.1	118	118

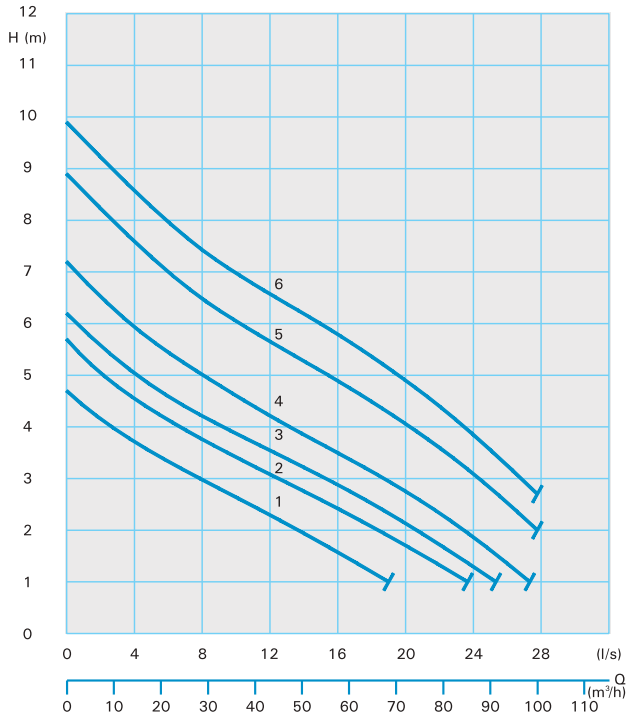
DN80 - MX13...-6 pole

Enclosed single channel impeller
80 mm Ø
Spherical clearance
960 rpm

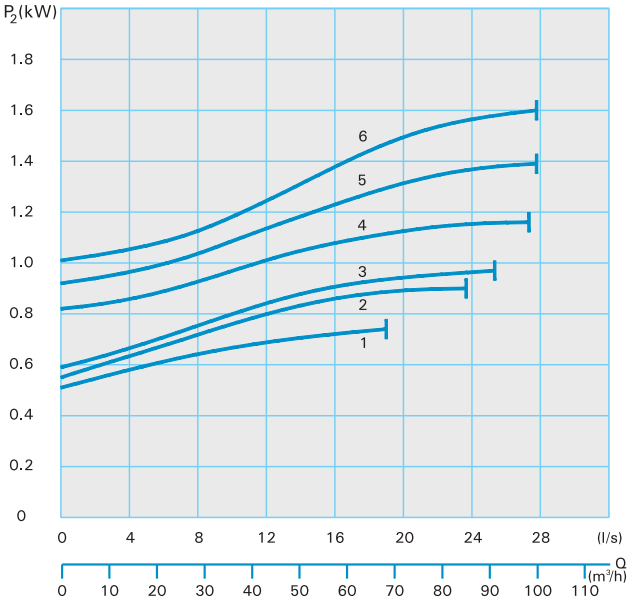


Performance curves

Hydraulic performance



Motor output



Technical data

Standard- and Explosion-proof model – Wet well installation

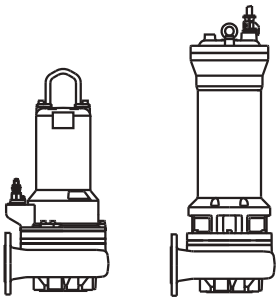
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX1337-T26(C)(Ex)	3.0	2.3	5.4	92	92
2	MX1338-T26(C)(Ex)	3.0	2.3	5.4	92	92
3	MX1341-T26(C)(Ex)	3.0	2.3	5.4	92	92
4	MX1344-T26(C)(Ex)	3.0	2.3	5.4	107	107
5	MX1347-T26(C)(Ex)	3.0	2.3	5.4	107	107
6	MX1350-T26(C)(Ex)	3.0	2.3	5.4	107	107

Standard- and Explosion-proof model – Dry well installation

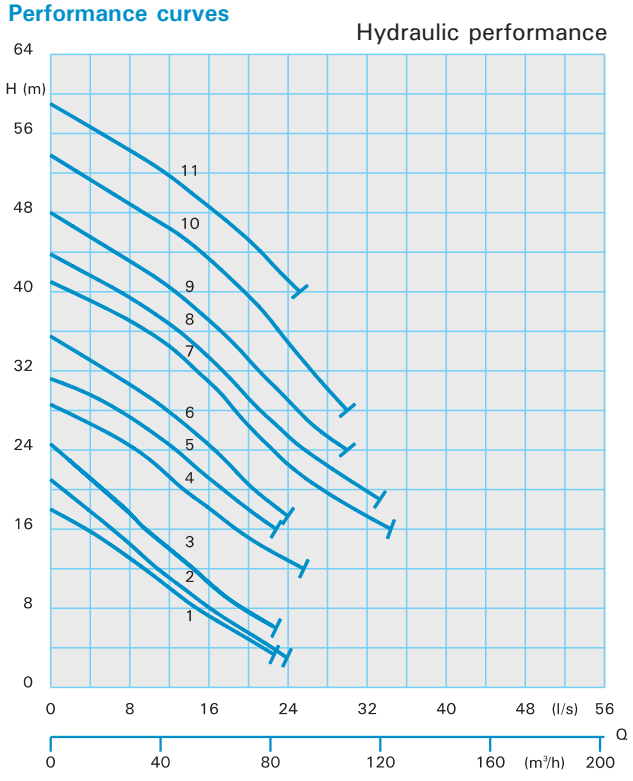
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX1337-TU26(Ex)	3.0	2.3	5.4	96	96
2	MX1338-TU26(Ex)	3.0	2.3	5.4	96	96
3	MX1341-TU26(Ex)	3.0	2.3	5.4	96	96
4	MX1344-TU26(Ex)	3.0	2.3	5.4	112	112
5	MX1347-TU26(Ex)	3.0	2.3	5.4	112	112
6	MX1350-TU26(Ex)	3.0	2.3	5.4	112	112

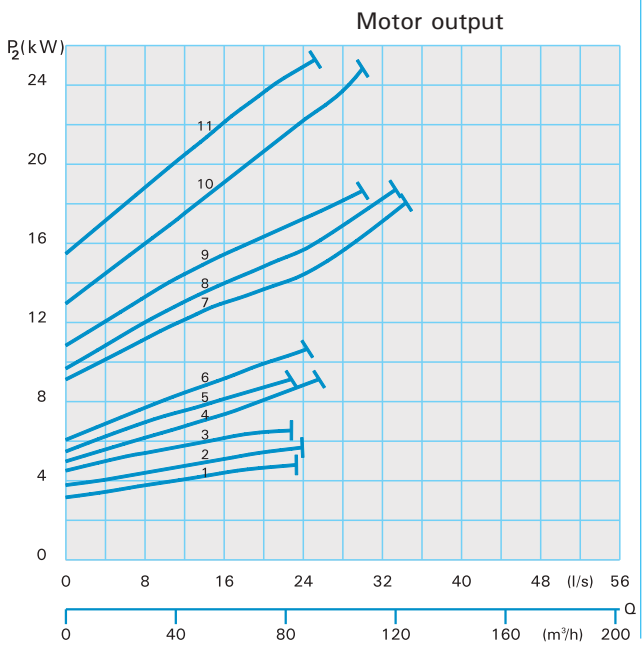
DN80 - V13...-2 pole

Vortex impeller
80 mm Ø
Spherical clearance
2900 rpm



Performance curves





Technical data

Standard- and Explosion-proof model – Wet well installation

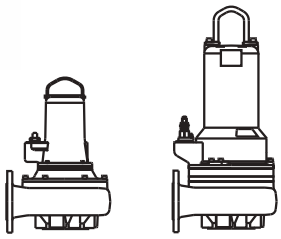
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	V1332-T62(C)(Ex)	7.5	6.4	13.0	91	91
2	V1333-T62(C)(Ex)	7.5	6.4	13.0	91	91
3	V1334-T62(C)(Ex)	7.5	6.4	13.0	91	91
4	V1335-T72(C)(Ex)	11.0	9.5	18.8	103	103
5	V1337-T72(C)(Ex)	11.0	9.5	18.8	103	103
6	V1339-T82(C)(Ex)	13.0	11.5	22.2	108	108
7	V1342-P102(C)(Ex)	22.0	19.6	36.9	176	188
8	V1343-P102(C)(Ex)	22.0	19.6	36.9	176	188
9	V1344-P102(C)(Ex)	22.0	19.6	36.9	176	188
10	V1345-P122(C)(Ex)	28.0	25.4	46.3	196	208
11	V1346-P122(C)(Ex)	28.0	25.4	46.3	196	208

Standard- and Explosion-proof model – Dry well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	V1332-TU62(Ex)	7.5	6.4	13.0	94	94
2	V1333-TU62(Ex)	7.5	6.4	13.0	94	94
3	V1334-TU62(Ex)	7.5	6.4	13.0	94	94
4	V1335-TU72(Ex)	11.0	9.5	18.8	108	108
5	V1337-TU72(Ex)	11.0	9.5	18.8	108	108
6	V1339-TU82(Ex)	13.0	11.5	22.2	113	113
7	V1342-PU102(Ex)	22.0	19.6	36.9	188	200
8	V1343-PU102(Ex)	22.0	19.6	36.9	188	200
9	V1344-PU102(Ex)	22.0	19.6	36.9	188	200
10	V1345-PU122(Ex)	28.0	25.4	46.3	208	220
11	V1346-PU122(Ex)	28.0	25.4	46.3	208	220

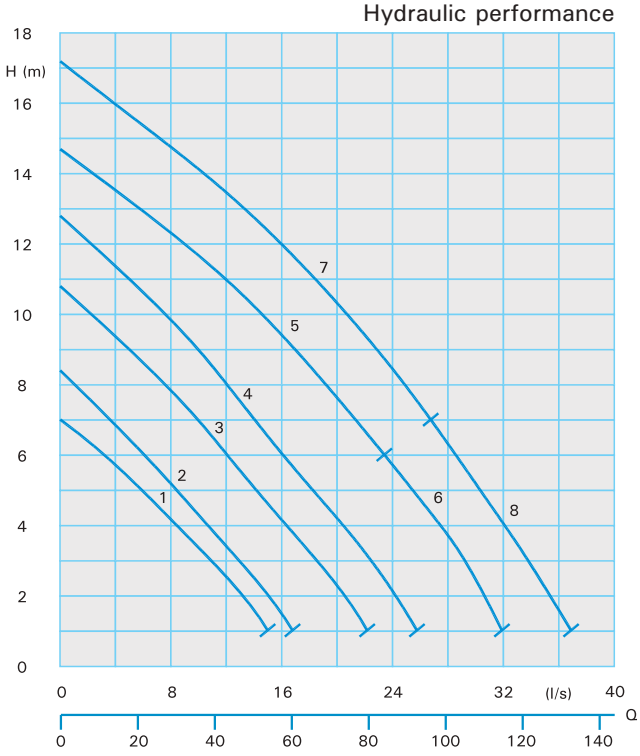
DN80 - V(X)13...-4 pole

Vortex impeller
80 mm Ø
Spherical clearance
1450 rpm

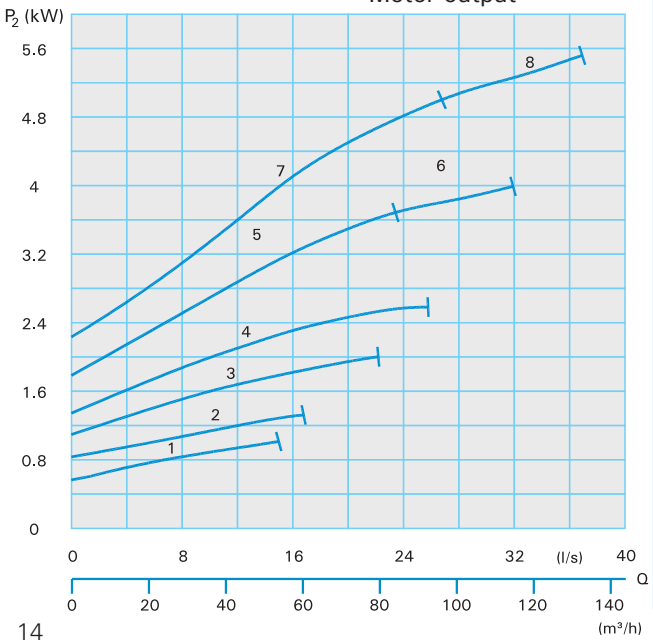


Performance curves

Hydraulic performance



Motor output



Technical data

Standard- and Explosion-proof model – Wet well installation

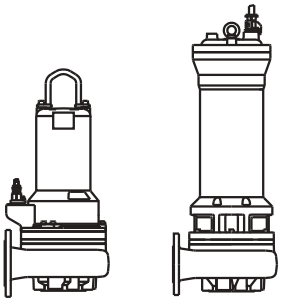
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	V1334-C24(C)(Ex)	1.7	1.3	3.3	63	64
2	V1336-C24(C)(Ex)	1.7	1.3	3.3	63	64
3	V1344-D44(C)(Ex)	3.4	2.6	6.2	66	67
4	V1346-D44(C)(Ex)	3.4	2.6	6.2	66	67
5	VX1345-T44(C)(Ex)	4.4	3.7	7.5	107	107
6	VX1345-T54(C)(Ex)	5.9	5.0	9.9	117	117
7	VX1346-T54(C)(Ex)	5.9	5.0	9.9	118	118
8	VX1346-T64(C)(Ex)	7.7	6.5	13.1	121	121

Standard- and Explosion-proof model – Dry well installation

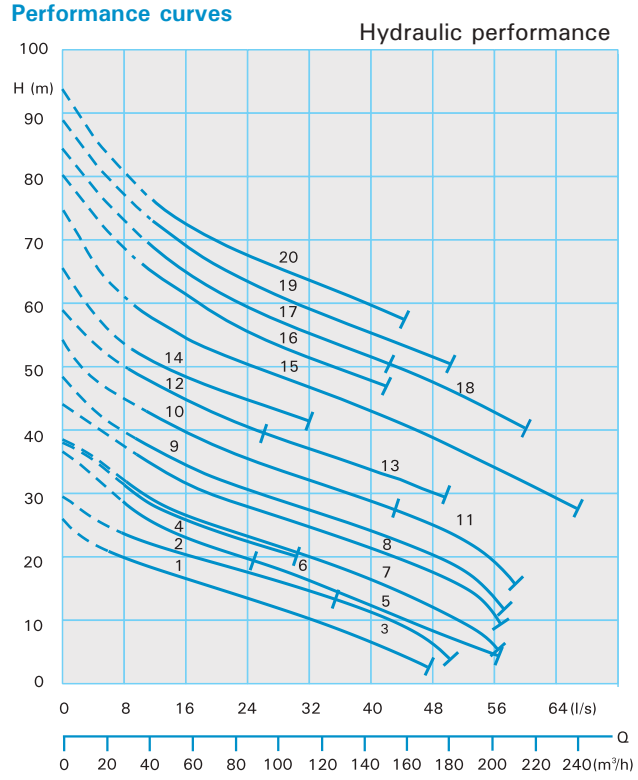
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	V1334-TU34(Ex)	3.4	2.9	5.8	86	86
2	V1336-TU34(Ex)	3.4	2.9	5.8	86	86
3	V1344-TU34(Ex)	3.4	2.9	5.8	90	90
4	V1346-TU34(Ex)	3.4	2.9	5.8	90	90
5	VX1345-TU44(Ex)	4.4	3.7	7.5	110	110
6	VX1345-TU54(Ex)	5.9	5.0	9.9	121	121
7	VX1346-TU54(Ex)	5.9	5.0	9.9	122	122
8	VX1346-TU64(Ex)	7.7	6.5	13.1	125	125

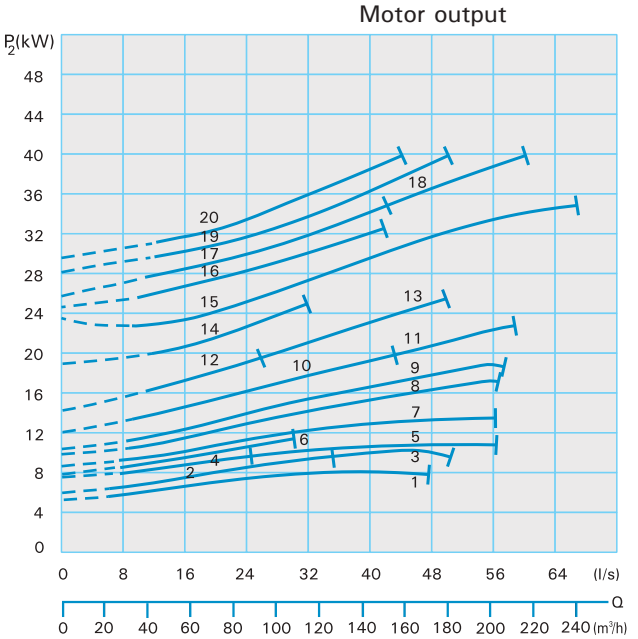
DN100 - MX23...-2 pole

Enclosed single channel impeller
80 mm Ø
Spherical clearance
2900 rpm



Performance curves





Technical data

Standard- and Explosion-proof model – Wet well installation

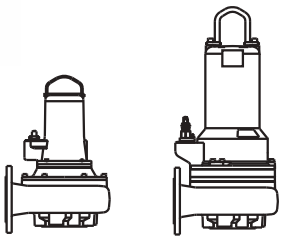
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX2330-T72(C)(Ex)	11.0	9.5	18.8	105	105
2	MX2331-T72(C)(Ex)	11.0	9.5	18.8	105	105
3	MX2331-T82(C)(Ex)	13.0	11.5	22.2	110	110
4	MX2335-T72(C)(Ex)	11.0	9.5	18.8	105	105
5	MX2335-T82(C)(Ex)	13.0	11.5	22.2	110	110
6	MX2336-T82(C)(Ex)	13.0	11.5	22.2	110	110
7	MX2336-P92(C)(Ex)	22.0	19.6	36.9	180	192
8	MX2337-P102(C)(Ex)	22.0	19.6	36.9	180	192
9	MX2338-P102(C)(Ex)	22.0	19.6	36.9	180	192
10	MX2339-P102(C)(Ex)	22.0	19.6	36.9	180	192
11	MX2339-P122(C)(Ex)	28.0	25.4	46.3	200	212
12	MX2341-P102(C)(Ex)	22.0	19.6	36.9	180	192
13	MX2341-P122(C)(Ex)	28.0	25.4	46.3	200	212
14	MX2344-P122(C)(Ex)	28.0	25.4	46.3	203	215
15	MX2346-F152(C)(Ex)	38.0	35.0	59.4	330	330
16	MX2347-F152(C)(Ex)	38.0	35.0	59.4	330	330
17	MX2348-F152(C)(Ex)	38.0	35.0	59.4	331	331
18	MX2348-F162(C)(Ex)	43.0	40.0	67.5	348	348
19	MX2349-F162(C)(Ex)	43.0	40.0	67.5	349	349
20	MX2350-F162(C)(Ex)	43.0	40.0	67.5	350	350

Standard- and Explosion-proof model – Dry well installation

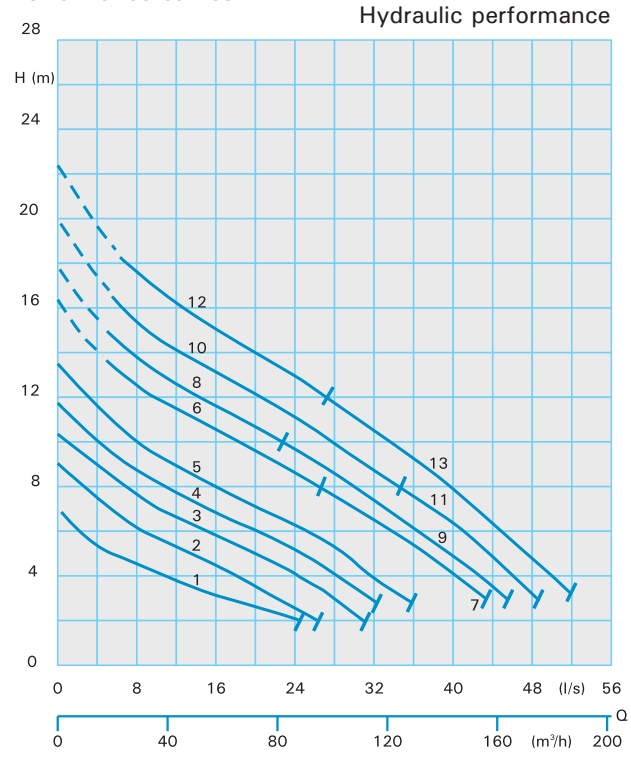
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX2330-TU72(Ex)	11.0	9.5	18.8	110	110
2	MX2331-TU72(Ex)	11.0	9.5	18.8	110	110
3	MX2331-TU82(Ex)	13.0	11.5	22.2	115	115
4	MX2335-TU72(Ex)	11.0	9.5	18.8	110	110
5	MX2335-TU82(Ex)	13.0	11.5	22.2	115	115
6	MX2336-TU82(Ex)	13.0	11.5	22.2	115	115
7	MX2336-PU92(Ex)	22.0	19.6	36.9	192	204
8	MX2337-PU102(Ex)	22.0	19.6	36.9	192	204
9	MX2338-PU102(Ex)	22.0	19.6	36.9	192	204
10	MX2339-PU102(Ex)	22.0	19.6	36.9	192	204
11	MX2339-PU122(Ex)	28.0	25.4	46.3	212	224
12	MX2341-PU102(Ex)	22.0	19.6	36.9	192	204
13	MX2341-PU122(Ex)	28.0	25.4	46.3	212	224
14	MX2344-PU122(Ex)	28.0	25.4	46.3	215	227
15	MX2346-FU152(Ex)	38.0	35.0	59.4	361	361
16	MX2347-FU152(Ex)	38.0	35.0	59.4	361	361
17	MX2348-FU152(Ex)	38.0	35.0	59.4	362	362
18	MX2348-FU162(Ex)	43.0	40.0	67.5	381	381
19	MX2349-FU162(Ex)	43.0	40.0	67.5	382	382
20	MX2350-FU162(Ex)	43.0	40.0	67.5	383	383

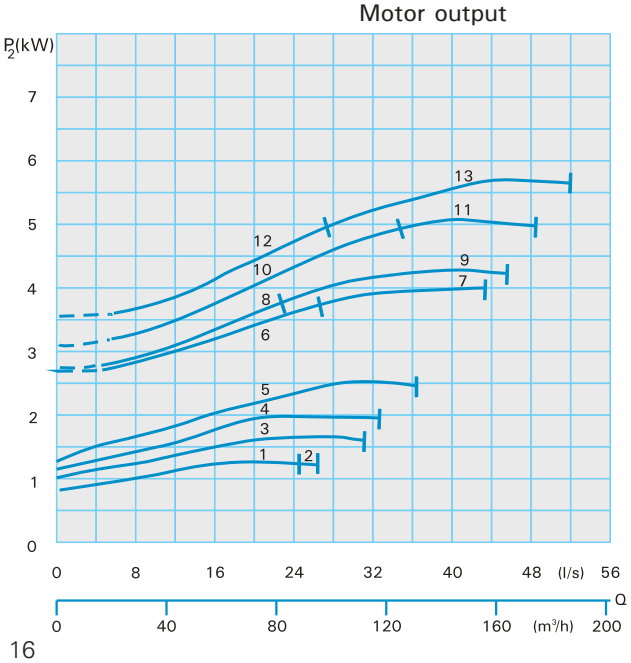
DN100 - MX23...4-pole

Enclosed single channel impeller
80 mm Ø
Spherical clearance
1450 rpm



Performance curves





Technical data

Standard- and Explosion-proof model – Wet well installation

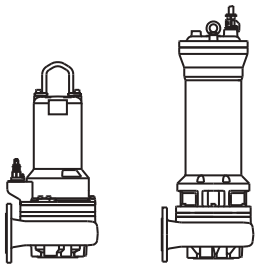
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX2331-C24(C)(Ex)	1.7	1.3	3.3	68	68
2	MX2336-C24(C)(Ex)	1.7	1.3	3.3	68	68
3	MX2337-D44(C)(Ex)	3.4	2.6	6.2	71	71
4	MX2339-D44(C)(Ex)	3.4	2.6	6.2	71	71
5	MX2341-D44(C)(Ex)	3.4	2.6	6.2	71	71
6	MX2344-T44(C)(Ex)	4.4	3.7	7.5	96	96
7	MX2344-T54(C)(Ex)	5.9	5.0	9.9	109	109
8	MX2346-T44(C)(Ex)	4.4	3.7	7.5	96	96
9	MX2346-T54(C)(Ex)	5.9	5.0	9.9	109	109
10	MX2347-T54(C)(Ex)	5.9	5.0	9.9	109	109
11	MX2347-T64(C)(Ex)	7.7	6.5	13.1	114	114
12	MX2350-T54(C)(Ex)	5.9	5.0	9.9	109	109
13	MX2350-T64(C)(Ex)	7.7	6.5	13.1	114	114

Standard- and Explosion-proof model – Dry well installation

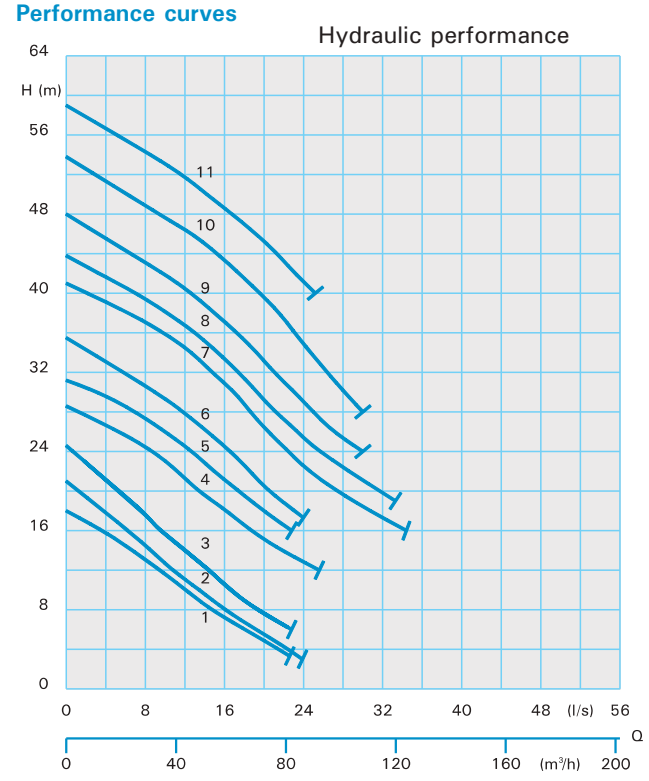
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX2331-TU34(Ex)	3.4	2.9	5.8	98	98
2	MX2336-TU34(Ex)	3.4	2.9	5.8	98	98
3	MX2337-TU34(Ex)	3.4	2.9	5.8	98	98
4	MX2339-TU34(Ex)	3.4	2.9	5.8	98	98
5	MX2341-TU34(Ex)	3.4	2.9	5.8	98	98
6	MX2344-TU44(Ex)	4.4	3.7	7.5	100	100
7	MX2344-TU54(Ex)	5.9	5.0	9.9	114	114
8	MX2346-TU44(Ex)	4.4	3.7	7.5	100	100
9	MX2346-TU54(Ex)	5.9	5.0	9.9	114	114
10	MX2347-TU54(Ex)	5.9	5.0	9.9	114	114
11	MX2347-TU64(Ex)	7.7	6.5	13.1	119	119
12	MX2350-TU54(Ex)	5.9	5.0	9.9	114	114
13	MX2350-TU64(Ex)	7.7	6.5	13.1	119	119

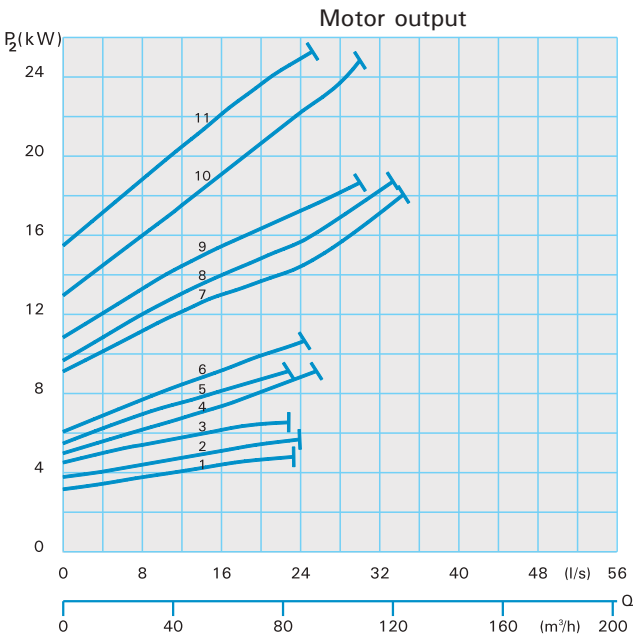
DN100 - V23...2-pole

Vortex impeller
80 mm Ø
Spherical clearance
2900 rpm



Performance curves





Technical data

Standard- and Explosion-proof model – Wet well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	V2332-T62(C)(Ex)	7.5	6.4	13.0	93	93
2	V2333-T62(C)(Ex)	7.5	6.4	13.0	93	93
3	V2334-T62(C)(Ex)	7.5	6.4	13.0	93	93
4	V2335-T72(C)(Ex)	11.0	9.5	18.8	105	105
5	V2337-T72(C)(Ex)	11.0	9.5	18.8	105	105
6	V2339-T82(C)(Ex)	13.0	11.5	22.2	110	110
7	V2342-P102(C)(Ex)	22.0	19.6	36.9	178	190
8	V2343-P102(C)(Ex)	22.0	19.6	36.9	178	190
9	V2344-P102(C)(Ex)	22.0	19.6	36.9	178	190
10	V2345-P122(C)(Ex)	28.0	25.4	46.3	198	210
11	V2346-P122(C)(Ex)	28.0	25.4	46.3	198	210

Standard- and Explosion-proof model – Dry well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	V2332-TU62(Ex)	7.5	6.4	13.0	96	96
2	V2333-TU62(Ex)	7.5	6.4	13.0	96	96
3	V2334-TU62(Ex)	7.5	6.4	13.0	96	96
4	V2335-TU72(Ex)	11.0	9.5	18.8	110	110
5	V2337-TU72(Ex)	11.0	9.5	18.8	110	110
6	V2339-TU82(Ex)	13.0	11.5	22.2	115	115
7	V2342-PU102(Ex)	22.0	19.6	36.9	190	202
8	V2343-PU102(Ex)	22.0	19.6	36.9	190	202
9	V2344-PU102(Ex)	22.0	19.6	36.9	190	202
10	V2345-PU122(Ex)	28.0	25.4	46.3	210	222
11	V2346-PU122(Ex)	28.0	25.4	46.3	210	222

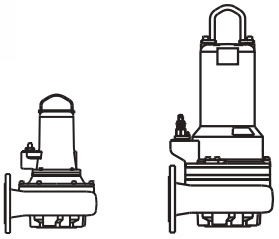
DN100 - V(X)23...-4 pole

Vortex impeller

80 mm Ø

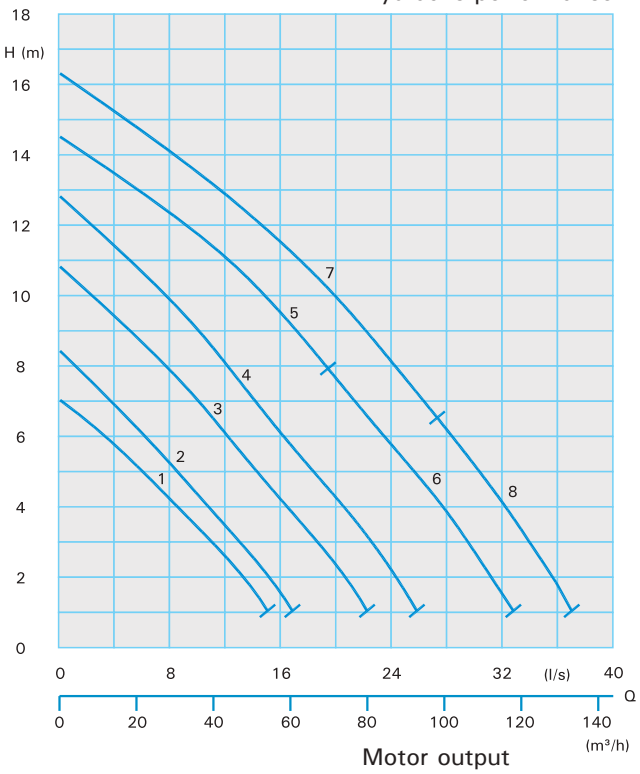
Spherical clearance

1450 rpm

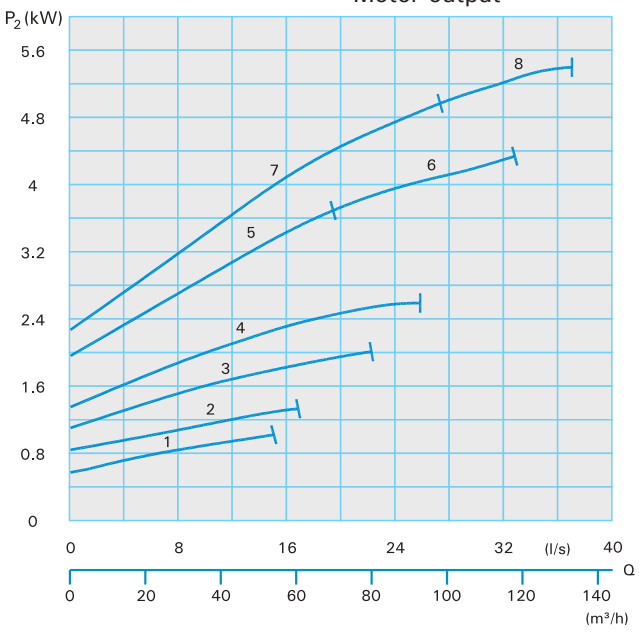


Performance curves

Hydraulic performance



Motor output



Technical data

Standard- and Explosion-proof model – Wet well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	V2334-C24(C)(Ex)	1.7	1.3	3.3	65	66
2	V2336-C24(C)(Ex)	1.7	1.3	3.3	65	66
3	V2344-D44(C)(Ex)	3.4	2.6	6.2	68	69
4	V2346-D44(C)(Ex)	3.4	2.6	6.2	68	69
5	VX2345-T44(C)(Ex)	4.4	3.7	7.5	109	109
6	VX2345-T54(C)(Ex)	5.9	5.0	9.9	119	119
7	VX2346-T54(C)(Ex)	5.9	5.0	9.9	120	120
8	VX2346-T64(C)(Ex)	7.7	6.5	13.1	123	123

Standard- and Explosion-proof model – Dry well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	V2334-TU34(Ex)	3.4	2.9	5.8	87	87
2	V2336-TU34(Ex)	3.4	2.9	5.8	87	87
3	V2344-TU34(Ex)	3.4	2.9	5.8	91	91
4	V2346-TU34(Ex)	3.4	2.9	5.8	91	91
5	VX2345-TU44(Ex)	4.4	3.7	7.5	112	112
6	VX2345-TU54(Ex)	5.9	5.0	9.9	123	123
7	VX2346-TU54(Ex)	5.9	5.0	9.9	124	124
8	VX2346-TU64(Ex)	7.7	6.5	13.1	127	127

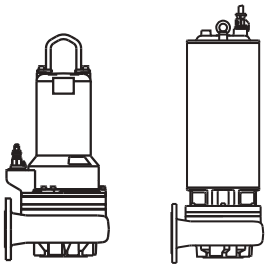
DN100 - MX24...-4 pole

Enclosed single channel impeller

100 mm Ø

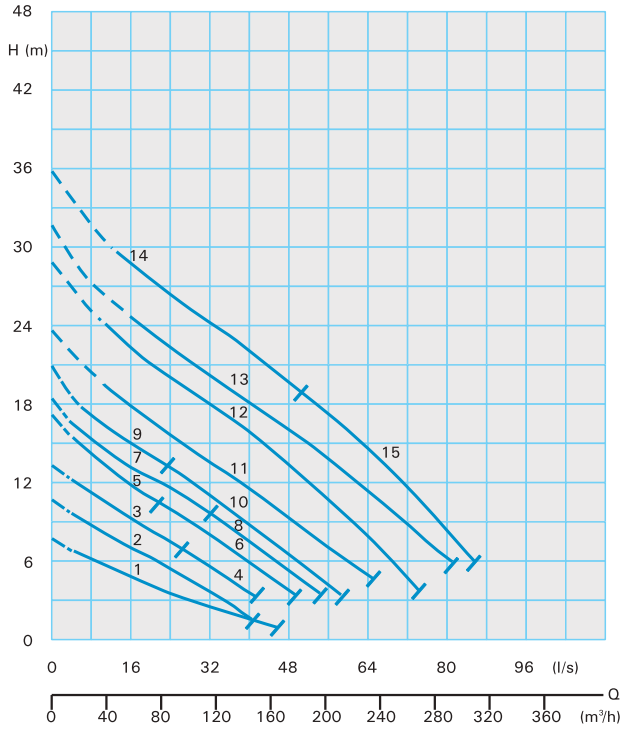
Spherical clearance

1450 rpm

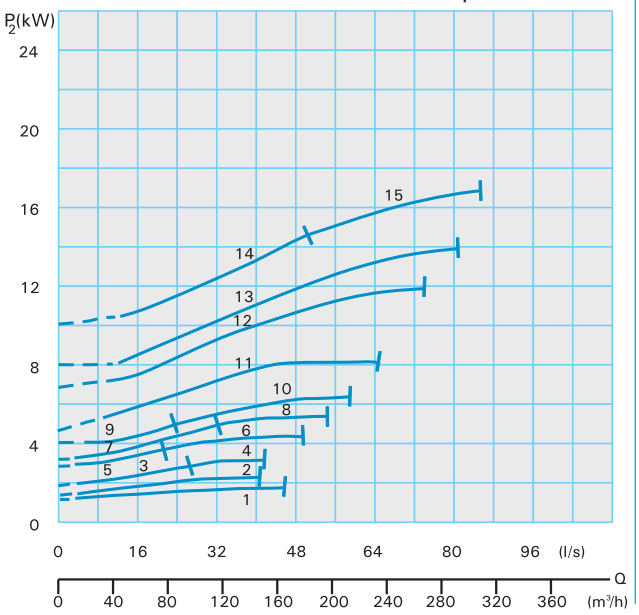


Performance curves

Hydraulic performance



Motor output



Technical data

Standard- and Explosion-proof model – Wet well installation

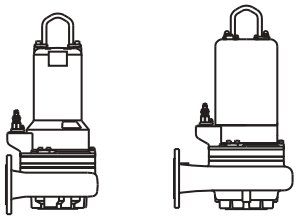
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	M2432-T34(C)(Ex)	3.4	2.9	5.8	102	102
2	MX2436-T34(C)(Ex)	3.4	2.9	5.8	104	104
3	MX2438-T34(C)(Ex)	3.4	2.9	5.8	104	104
4	MX2438-T44(C)(Ex)	4.4	3.7	7.5	108	108
5	MX2444-T44(C)(Ex)	4.4	3.7	7.5	109	109
6	MX2444-T54(C)(Ex)	5.9	5.0	9.9	111	111
7	MX2446-T54(C)(Ex)	5.9	5.0	9.9	111	111
8	MX2446-T64(C)(Ex)	7.7	6.5	13.1	114	114
9	MX2448-T54(C)(Ex)	5.9	5.0	9.9	111	111
10	MX2448-T64(C)(Ex)	7.7	6.5	13.1	114	114
11	MX2452-P74(C)(Ex)	10.0	8.5	16.8	184	196
12	MX2456-P84(C)(Ex)	17.0	14.6	28.8	211	223
13	MX2460-P94(C)(Ex)	17.0	14.6	28.8	212	224
14	MX2462-P94(C)(Ex)	17.0	14.6	28.8	213	225
15	MX2462-P104(C)(Ex)	22.0	19.3	39.1	231	243

Standard- and Explosion-proof model – Dry well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	M2432-TU34(Ex)	3.4	2.9	5.8	105	105
2	MX2436-TU34(Ex)	3.4	2.9	5.8	107	107
3	MX2438-TU34(Ex)	3.4	2.9	5.8	107	107
4	MX2438-TU44(Ex)	4.4	3.7	7.5	111	111
5	MX2444-TU44(Ex)	4.4	3.7	7.5	112	112
6	MX2444-TU54(Ex)	5.9	5.0	9.9	115	115
7	MX2446-TU54(Ex)	5.9	5.0	9.9	115	115
8	MX2446-TU64(Ex)	7.7	6.5	13.1	118	118
9	MX2448-TU54(Ex)	5.9	5.0	9.9	115	115
10	MX2448-TU64(Ex)	7.7	6.5	13.1	118	118
11	MX2452-PU74(Ex)	10.0	8.5	16.8	191	203
12	MX2456-PU84(Ex)	17.0	14.6	28.8	216	231
13	MX2460-PU94(Ex)	17.0	14.6	28.8	220	232
14	MX2462-PU94(Ex)	17.0	14.6	28.8	221	233
15	MX2462-PU104(Ex)	22.0	19.3	39.1	241	253

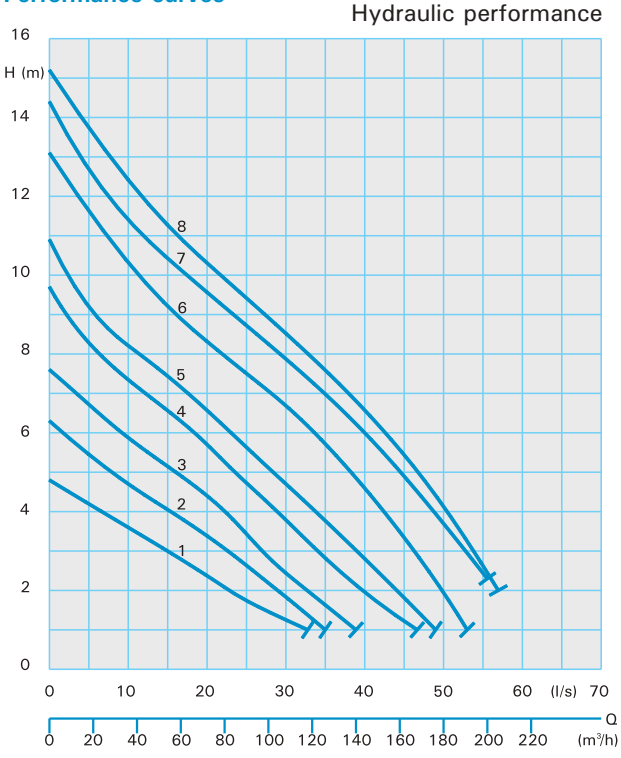
DN100 - MX24...-6 pole

Enclosed single channel impeller
100 mm Ø
Spherical clearance
960 rpm

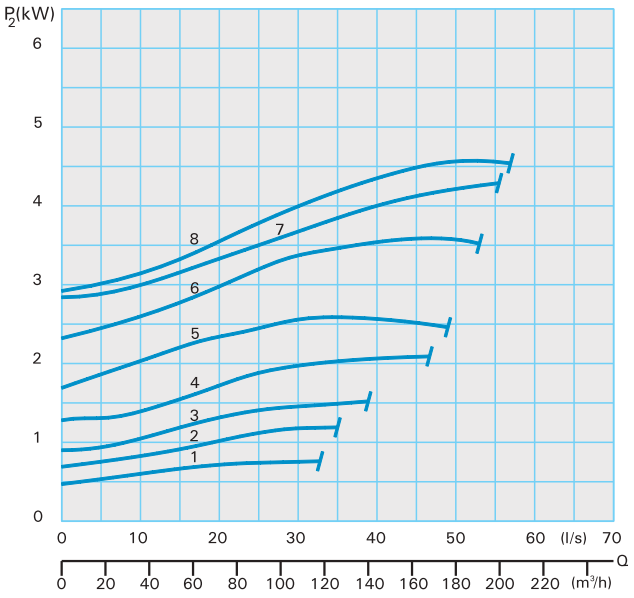


Performance curves

Hydraulic performance



Motor output



Technical data

Standard- and Explosion-proof model – Wet well installation

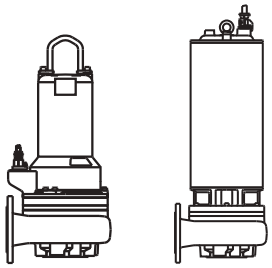
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX2436-T36(C)(Ex)	3.0	2.3	5.4	104	104
2	MX2438-T36(C)(Ex)	3.0	2.3	5.4	104	104
3	MX2446-T36(C)(Ex)	3.0	2.3	5.4	109	109
4	MX2448-T36(C)(Ex)	3.0	2.3	5.4	109	109
5	MX2452-T46(C)(Ex)	4.0	3.1	7.3	148	148
6	MX2456-T56(C)(Ex)	5.0	4.0	9.6	154	154
7	MX2460-T66(C)(Ex)	6.0	4.9	11.5	155	155
8	MX2462-T66(C)(Ex)	6.0	4.9	11.5	156	156

Standard- and Explosion-proof model – Dry well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX2436-TU36(Ex)	3.0	2.3	5.4	107	107
2	MX2438-TU36(Ex)	3.0	2.3	5.4	107	107
3	MX2446-TU36(Ex)	3.0	2.3	5.4	112	112
4	MX2448-TU36(Ex)	3.0	2.3	5.4	112	112
5	MX2452-TU46(Ex)	4.0	3.1	7.3	154	154
6	MX2456-TU56(Ex)	5.0	4.0	9.6	160	160
7	MX2460-TU66(Ex)	6.0	4.9	11.5	161	161
8	MX2462-TU66(Ex)	6.0	4.9	11.5	162	162

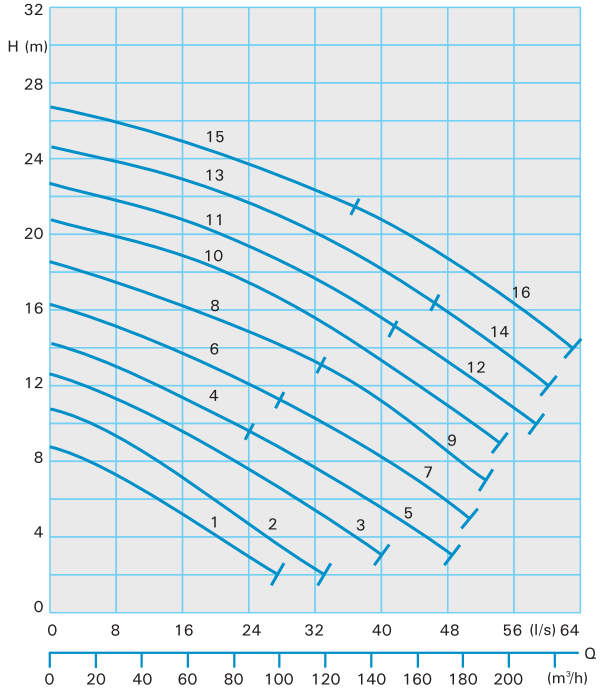
DN100 - VX24...-4 pole

Vortex impeller
100 mm Ø
Spherical clearance
1450 rpm

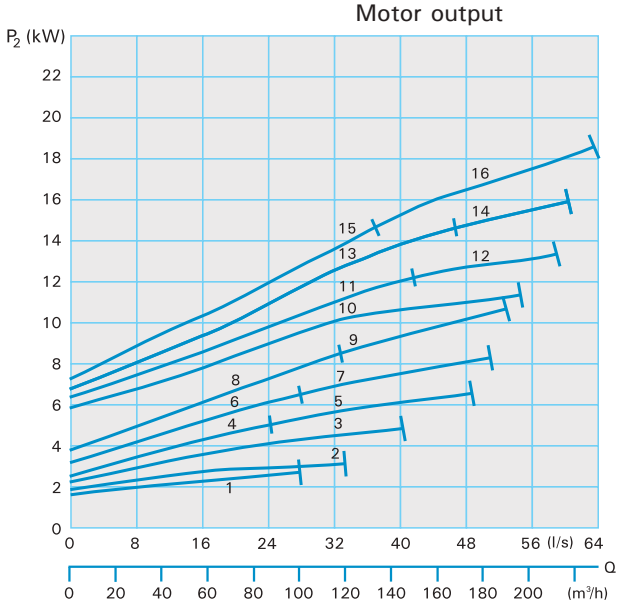


Performance curves

Hydraulic performance



Motor output



Technical data

Standard- and Explosion-proof model – Wet well installation

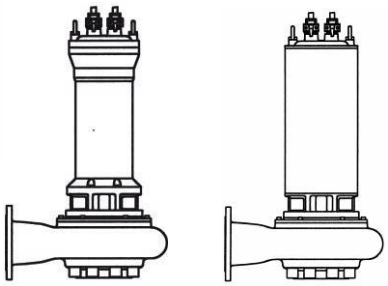
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	VX2436-D54(C)(Ex)	4.1	3.2	7.3	78	78
2	VX2439-D54(C)(Ex)	4.1	3.2	7.3	78	78
3	VX2440-T54(C)(Ex)	5.9	5.0	9.9	123	123
4	VX2442-T54(C)(Ex)	5.9	5.0	9.9	123	123
5	VX2442-T64(C)(Ex)	7.7	6.5	13.1	126	126
6	VX2444-T64(C)(Ex)	7.7	6.5	13.1	126	126
7	VX2444-P74(C)(Ex)	10.0	8.5	16.8	152	152
8	VX2446-P74(C)(Ex)	10.0	8.5	16.8	152	152
9	VX2446-P84(C)(Ex)	14.0	12.2	23.0	177	177
10	VX2452-P84(C)(Ex)	14.0	12.2	23.0	205	205
11	VX2454-P84(C)(Ex)	14.0	12.2	23.0	205	205
12	VX2454-P94(C)(Ex)	17.0	14.6	28.8	205	205
13	VX2456-P94(C)(Ex)	17.0	14.6	28.8	205	205
14	VX2456-P104(C)(Ex)	22.0	19.3	39.1	227	227
15	VX2458-P94(C)(Ex)	17.0	14.6	28.8	205	205
16	VX2458-P104(C)(Ex)	22.0	19.3	39.1	227	227

Standard- and Explosion-proof model – Dry well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	VX2436-TU44(Ex)	4.4	3.7	7.5	113	113
2	VX2439-TU44(Ex)	4.4	3.7	7.5	113	113
3	VX2440-TU54(Ex)	5.9	5.0	9.9	127	127
4	VX2442-TU54(Ex)	5.9	5.0	9.9	127	127
5	VX2442-TU64(Ex)	7.7	6.5	13.1	130	130
6	VX2444-TU64(Ex)	7.7	6.5	13.1	130	130
7	VX2444-PU74(Ex)	10.0	8.5	16.8	160	160
8	VX2446-PU74(Ex)	10.0	8.5	16.8	160	160
9	VX2446-PU84(Ex)	14.0	12.2	23.0	187	187
10	VX2452-PU84(Ex)	14.0	12.2	23.0	215	215
11	VX2454-PU84(Ex)	14.0	12.2	23.0	215	215
12	VX2454-PU94(Ex)	17.0	14.6	28.8	215	215
13	VX2456-PU94(Ex)	17.0	14.6	28.8	215	215
14	VX2456-PU104(Ex)	22.0	19.3	39.1	240	240
15	VX2458-PU94(Ex)	17.0	14.6	28.8	215	215
16	VX2458-PU104(Ex)	22.0	19.3	39.1	240	240

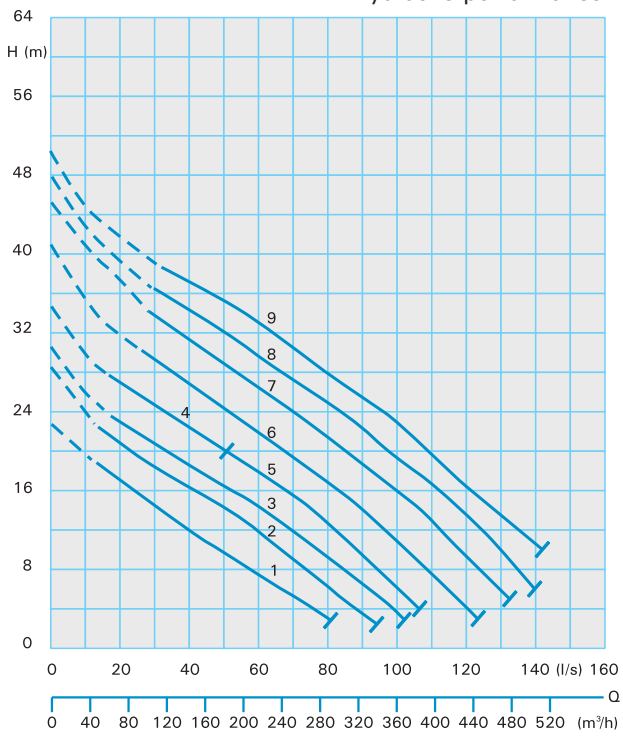
DN150 - MX34...-4 pole

Enclosed single channel impeller
100 mm Ø
Spherical clearance
1450 rpm

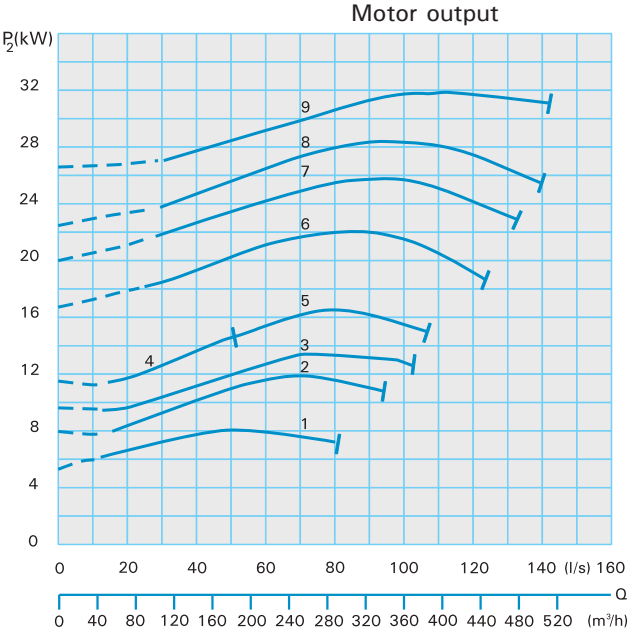


Performance curves

Hydraulic performance



Motor output



Technical data

Standard- and Explosion-proof model – Wet well installation

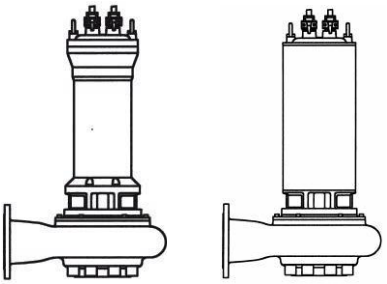
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX3452-P74(C)(Ex)	10.0	8.5	16.8	189	201
2	MX3456-P84(C)(Ex)	17.0	14.6	28.8	216	228
3	MX3460-P94(C)(Ex)	17.0	14.6	28.8	217	229
4	MX3462-P94(C)(Ex)	17.0	14.6	28.8	218	230
5	MX3462-P104(C)(Ex)	22.0	19.3	39.1	236	248
6	MX3468-F114(C)(Ex)	25.0	22.0	44.0	388	388
7	MX3470-F124(C)(Ex)	29.0	25.6	51.4	410	410
8	MX3472-F134(C)(Ex)	33.0	29.2	59.0	420	420
9	MX3474-F144(C)(Ex)	37.0	33.0	67.1	430	430

Standard- and Explosion-proof model – Dry well installation

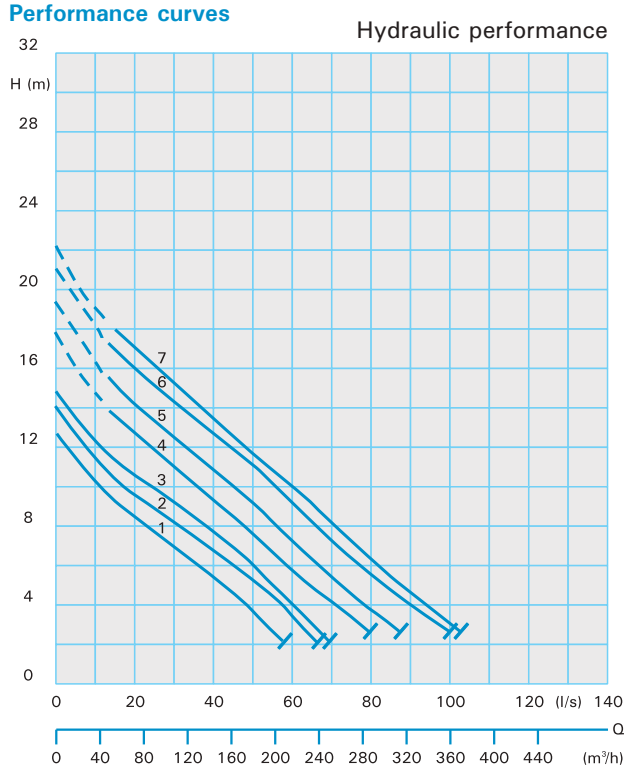
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX3452-PU74(Ex)	10.0	8.5	16.8	196	208
2	MX3456-PU84(Ex)	17.0	14.6	28.8	224	236
3	MX3460-PU94(Ex)	17.0	14.6	28.8	225	237
4	MX3462-PU94(Ex)	17.0	14.6	28.8	226	238
5	MX3462-PU104(Ex)	22.0	19.3	39.1	246	258
6	MX3468-FU114(Ex)	25.0	22.0	44.0	451	451
7	MX3470-FU124(Ex)	29.0	25.6	51.4	488	488
8	MX3472-FU134(Ex)	33.0	29.2	59.0	498	498
9	MX3474-FU144(Ex)	37.0	33.0	67.1	508	508

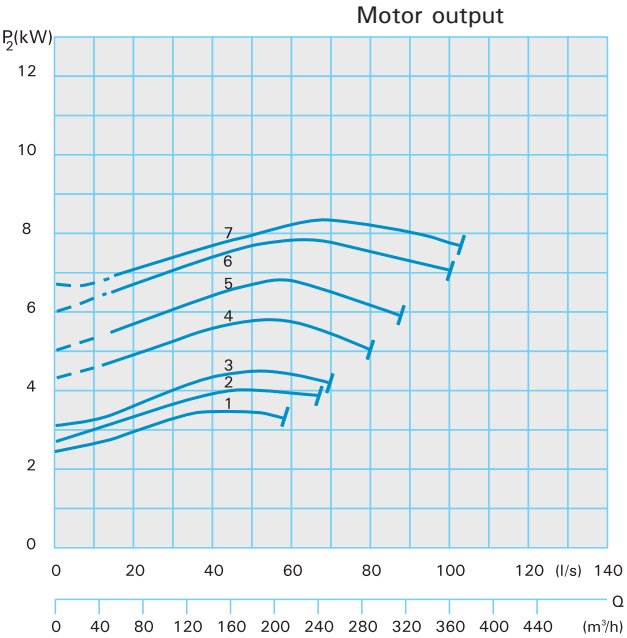
DN150 - MX34...-6 pole

Enclosed single channel impeller
100 mm Ø
Spherical clearance
960 rpm



Performance curves





Technical data

Standard- and Explosion-proof model – Wet well installation

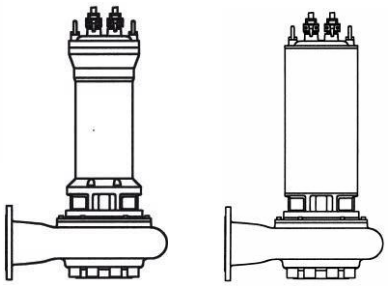
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX3456-T56(C)(Ex)	5.0	4.0	9.6	158	158
2	MX3460-T66(C)(Ex)	6.0	4.9	11.5	159	159
3	MX3462-T66(C)(Ex)	6.0	4.9	11.5	160	160
4	MX3468-P76(C)(Ex)	9.0	7.3	16.3	260	272
5	MX3470-P76(C)(Ex)	9.0	7.3	16.3	260	272
6	MX3472-P86(C)(Ex)	12.0	10.0	22.4	285	297
7	MX3474-P86(C)(Ex)	12.0	10.0	22.4	285	297

Standard- and Explosion-proof model – Dry well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	MX3456-TU56(Ex)	5.0	4.0	9.6	164	164
2	MX3460-TU66(Ex)	6.0	4.9	11.5	165	165
3	MX3462-TU66(Ex)	6.0	4.9	11.5	166	166
4	MX3468-PU76(Ex)	9.0	7.3	16.3	267	279
5	MX3470-PU76(Ex)	9.0	7.3	16.3	267	279
6	MX3472-PU86(Ex)	12.0	10.0	22.4	292	304
7	MX3474-PU86(Ex)	12.0	10.0	22.4	292	304

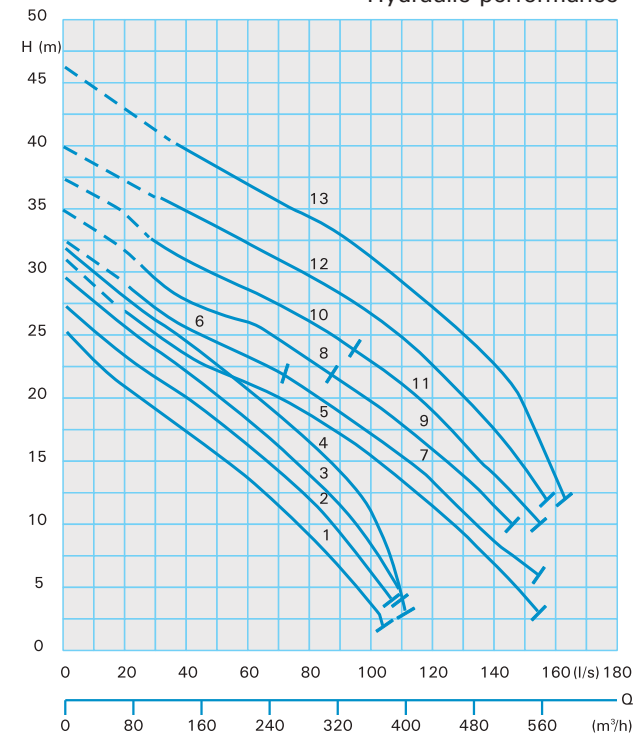
DN150 - K33...-4 pole

Enclosed two channel impeller
80 mm Ø
Spherical clearance
1450 rpm

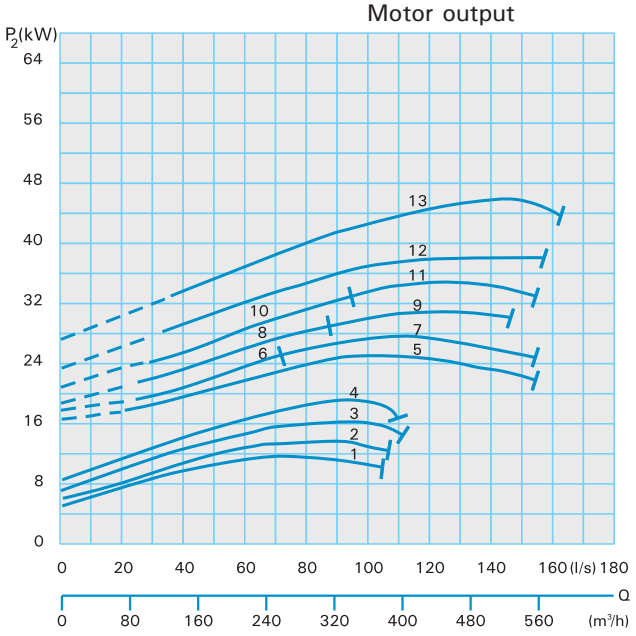


Performance curves

Hydraulic performance



Motor output



Technical data

Standard- and Explosion-proof model – Wet well installation

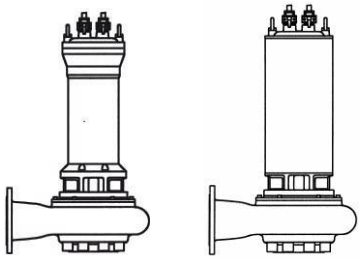
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	K3352-P94(C)(Ex)	17.0	14.6	28.8	216	228
2	K3354-P94(C)(Ex)	17.0	14.6	28.8	216	228
3	K3356-P104(C)(Ex)	22.0	19.3	39.1	234	246
4	K3358-P104(C)(Ex)	22.0	19.3	39.1	234	246
5	K3360-F124(C)(Ex)	29.0	25.6	51.4	418	418
6	K3362-F124(C)(Ex)	29.0	25.6	51.4	418	418
7	K3362-F134(C)(Ex)	33.0	29.2	59.0	428	428
8	K3364-F134(C)(Ex)	33.0	29.2	59.0	428	428
9	K3364-F144(C)(Ex)	37.0	33.0	67.1	449	449
10	K3366-F144(C)(Ex)	37.0	33.0	67.1	449	449
11	K3366-G154(C)(Ex)	41.0	37.4	71.5	486	486
12	K3368-G154(C)(Ex)	41.0	37.4	71.5	486	486
13	K3370-G174(C)(Ex)	50.0	46.1	86.5	528	528

Standard- and Explosion-proof model – Dry well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	K3352-PU94(Ex)	17.0	14.6	28.8	224	236
2	K3354-PU94(Ex)	17.0	14.6	28.8	224	236
3	K3356-PU104(Ex)	22.0	19.3	39.1	244	256
4	K3358-PU104(Ex)	22.0	19.3	39.1	244	256
5	K3360-FU124(Ex)	29.0	25.6	51.4	493	493
6	K3362-FU124(Ex)	29.0	25.6	51.4	493	493
7	K3362-FU134(Ex)	33.0	29.2	59.0	503	503
8	K3364-FU134(Ex)	33.0	29.2	59.0	503	503
9	K3364-FU144(Ex)	37.0	33.0	67.1	524	524
10	K3366-FU144(Ex)	37.0	33.0	67.1	524	524
11	K3366-GU154(Ex)	41.0	37.4	71.5	555	555
12	K3368-GU154(Ex)	41.0	37.4	71.5	555	555
13	K3370-GU174(Ex)	50.0	46.1	86.5	610	610

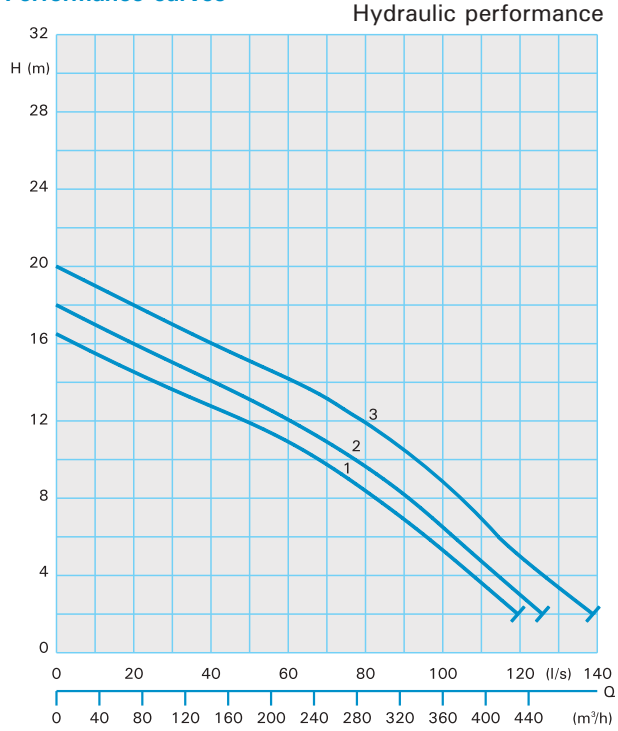
DN150 - K33...-6 pole

Enclosed two channel impeller
80 mm Ø
Spherical clearance
960 rpm

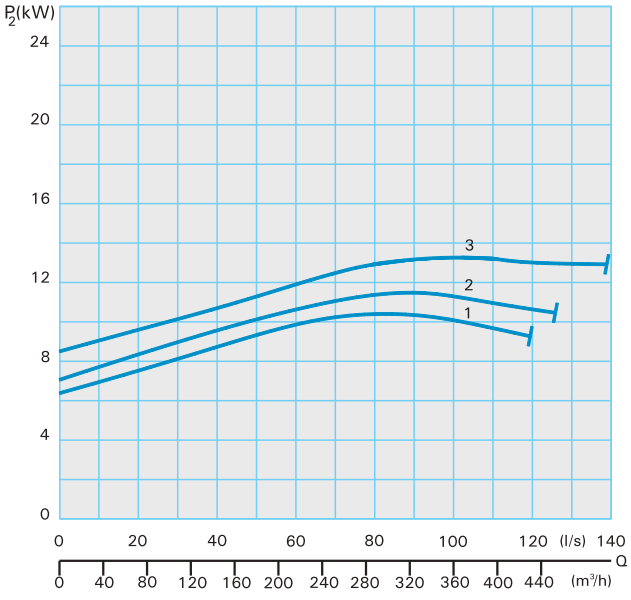


Performance curves

Hydraulic performance



Motor output



Technical data

Standard- and Explosion-proof model – Wet well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	K3366-P96(C)(Ex)	16.0	13.6	29.4	280	292
2	K3368-P96(C)(Ex)	16.0	13.6	29.4	280	292
3	K3370-P96(C)(Ex)	16.0	13.6	29.4	280	292

Standard- and Explosion-proof model – Dry well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	K3366-PU96(Ex)	16.0	13.6	29.4	288	300
2	K3368-PU96(Ex)	16.0	13.6	29.4	288	300
3	K3370-PU96(Ex)	16.0	13.6	29.4	288	300

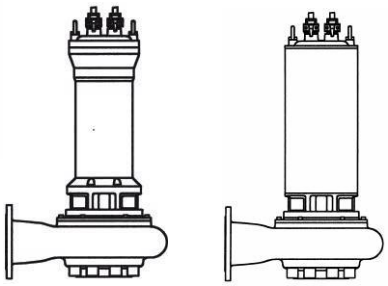
DN150 - VX34...-4 pole

Vortex impeller

100 mm Ø

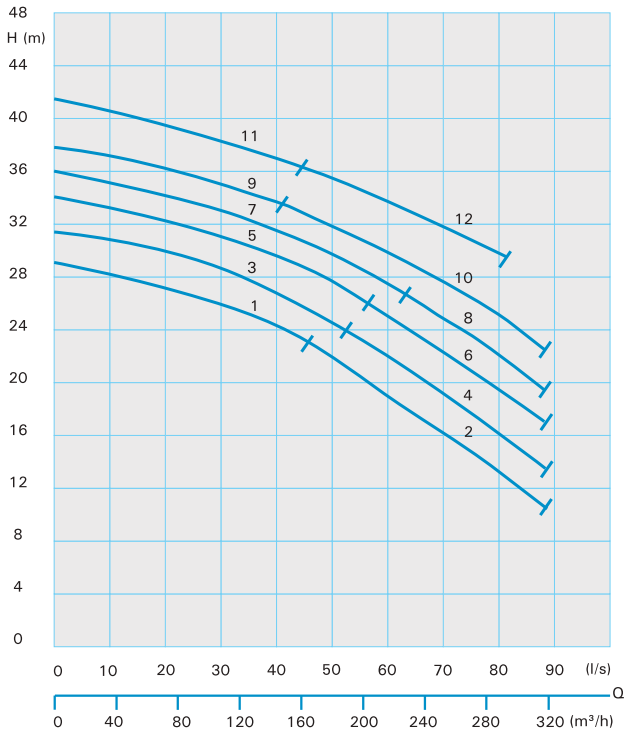
Spherical clearance

1450 rpm

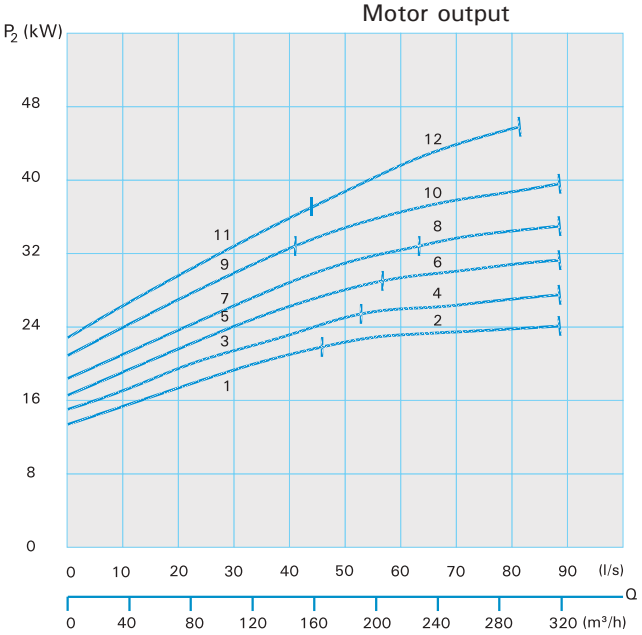


Performance curves

Hydraulic performance



Motor output



Technical data

Standard- and Explosion-proof model – Wet well installation

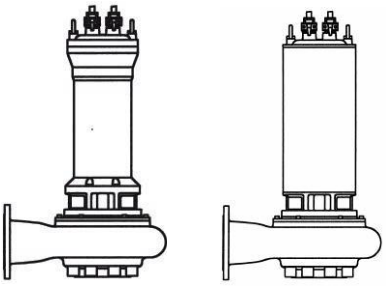
Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	VX3460-F114(C)(Ex)	25.0	22.0	44.0	426	426
2	VX3460-F124(C)(Ex)	29.1	25.6	51.4	448	448
3	VX3463-F124(C)(Ex)	29.1	25.6	51.4	448	448
4	VX3463-F134(C)(Ex)	32.8	29.2	59.0	463	463
5	VX3466-F134(C)(Ex)	32.8	29.2	59.0	463	463
6	VX3466-F144(C)(Ex)	37.1	33.0	67.1	478	478
7	VX3468-F144(C)(Ex)	37.1	33.0	67.1	478	478
8	VX3468-G154(C)(Ex)	41.1	37.4	71.5	495	495
9	VX3470-F144(C)(Ex)	37.1	33.0	67.1	478	478
10	VX3470-G174(C)(Ex)	50.1	46.1	84.3	523	523
11	VX3471-G154(C)(Ex)	41.1	37.4	71.5	495	495
12	VX3471-G174(C)(Ex)	50.1	46.1	84.3	523	523

Standard- and Explosion-proof model – Dry well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	VX3460-FU114(Ex)	25.0	22.0	44.0	447	447
2	VX3460-FU124(Ex)	29.1	25.6	51.4	474	474
3	VX3463-FU124(Ex)	29.1	25.6	51.4	474	474
4	VX3463-FU134(Ex)	32.8	29.2	59.0	489	489
5	VX3466-FU134(Ex)	32.8	29.2	59.0	489	489
6	VX3466-FU144(Ex)	37.1	33.0	67.1	504	504
7	VX3468-FU144(Ex)	37.1	33.0	67.1	504	504
8	VX3468-GU154(Ex)	41.1	37.4	71.5	521	521
9	VX3470-FU144(Ex)	37.1	33.0	67.1	504	504
10	VX3470-GU174(Ex)	50.1	46.1	84.3	552	552
11	VX3471-GU154(Ex)	41.1	37.4	71.5	521	521
12	VX3471-GU174(Ex)	50.1	46.1	84.3	552	552

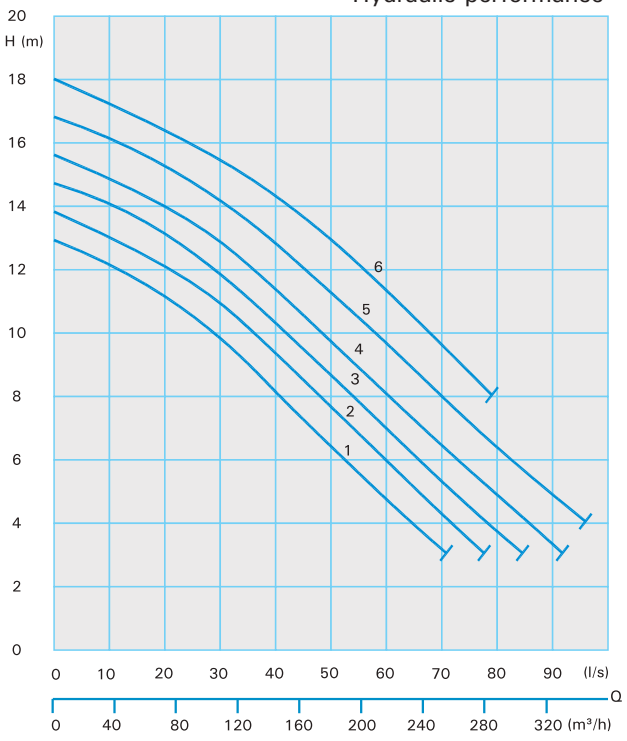
DN150 - VX34...-6 pole

Vortex impeller
100 mm Ø
Spherical clearance
960 rpm

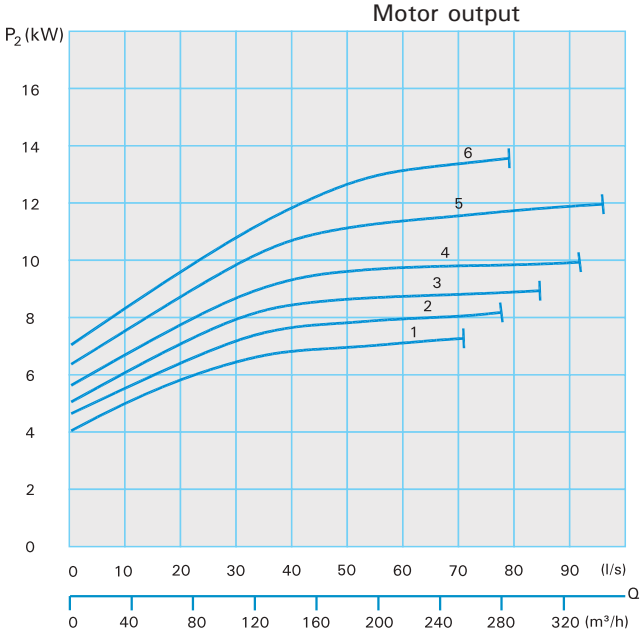


Performance curves

Hydraulic performance



Motor output



Technical data

Standard- and Explosion-proof model – Wet well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	VX3460-P76(C)(Ex)	9.0	7.3	16.3	239	251
2	VX3463-P86(C)(Ex)	12.0	10.0	22.4	264	276
3	VX3466-P86(C)(Ex)	12.0	10.0	22.4	264	276
4	VX3468-P86(C)(Ex)	12.0	10.0	22.4	264	276
5	VX3470-P96(C)(Ex)	16.0	13.6	29.4	278	290
6	VX3471-P96(C)(Ex)	16.0	13.6	29.4	278	290

Standard- and Explosion-proof model – Dry well installation

Curve No.	Pump type	Motor input P_1(kW)	Motor output P_2(kW)	Rated current I_N(A)	Weight standard (kg)	Weight Ex (kg)
1	VX3460-PU76(Ex)	9.0	7.3	16.3	245	257
2	VX3463-PU86(Ex)	12.0	10.0	22.4	274	286
3	VX3466-PU86(Ex)	12.0	10.0	22.4	274	286
4	VX3468-PU86(Ex)	12.0	10.0	22.4	274	286
5	VX3470-PU96(Ex)	16.0	13.6	29.4	291	293
6	VX3471-PU96(Ex)	16.0	13.6	29.4	291	293

Installations and Dimensions

Pump type	DN1	DN2	DN3	Amax	B	B1	C	C1	D	E	F1	F2	F3	øG	H
MX1330 to 36-T(U)… 2(Ex)		100	R3"AG	759	355	200	307	147	722	97	125	218	316	395	578
MX1336 to 41-P(U)… 2(Ex)		100	R3"AG	1026	355	200	307	147	712	97	125	218	316	395	578
MX1344-P(U)122(Ex)		100	R3"AG	1051	459	280	363	165	816	71	125	244	342	395	658
MX1331 to 36-C24(Ex)		100	R3"AG	517	355	200	307	147	712	97	125	218	316	395	578
MX1337 to 41-D44(Ex)		100	R3"AG	554	355	200	307	147	722	97	125	218	316	395	578
MX1331 to 41-TU34(Ex)		100	R3"AG	693	355	200	307	147	712	97	125	218	316	395	578
MX1337 to 41-TU36(Ex)		100	R3"AG	693	355	200	307	147	712	97	125	218	316	395	578
MX1344 to 50-T(U)… 4(Ex)	80	100	R3"AG	791	459	280	363	165	816	71	125	244	342	395	658
MX1344 to 50-T(U)26(Ex)		100	R3"AG	791	459	280	363	165	816	71	125	244	342	395	658
V1332 to 39-T(U)… 2(Ex)		100	R3"AG	775	365	220	290	145	722	112	125	203	301	395	598
V1342 to 46-P(U)… 2(Ex)		100	R3"AG	1035	408	250	316	158	775	112	125	203	301	395	628
V1334 to 36-C24(Ex)		100	R3"AG	526	365	220	290	145	722	112	125	203	301	395	598
V1344 to 46-D44(Ex)		100	R3"AG	563	408	250	316	158	775	112	125	203	301	395	628
V1334 to 36-TU34(Ex)		100	R3"AG	702	365	220	290	145	722	112	125	203	301	395	598
V1344 to 46-TU34(Ex)		100	R3"AG	702	408	250	316	158	775	112	125	203	301	395	628
VX1345 to 46-T(U)… 4(Ex)		100	R3"AG	767	408	250	316	158	775	112	125	203	301	395	628
MX2330 to 36-T(U)… 2(Ex)		100	R4"AG	766	355	200	307	147	779	147	125	218	403	395	577
MX2336 to 41-P(U)… 2(Ex)		100	R4"AG	1023	355	200	307	147	779	147	125	218	403	395	577
MX2344-P(U)122(Ex)		100	R4"AG	1051	459	280	363	165	883	122	125	244	429	395	657
MX2346 to 50-F(U)...2(Ex)		100	R4"AG	1270	459	280	382	184	889	121	174	293	478	600	759
MX2331 to 36-C24(Ex)		100	R4"AG	517	355	200	307	147	779	147	125	218	403	395	577
MX2337 to 41-D44(Ex)		100	R4"AG	554	355	200	307	147	779	147	125	218	403	395	577
MX2331 to 41-TU34(Ex)		100	R4"AG	691	355	200	307	147	779	147	125	218	403	395	577
MX2344 to 50-T(U)… 4(Ex)		100	R4"AG	791	459	280	363	165	883	121	125	244	429	395	657
M(X)2432 to 38-T(U)… 4(Ex)		100	R4"AG	745	422	265	323	147	846	117	125	248	433	395	642
MX2444 to 48-T(U)… 4(Ex)		100	R4"AG	814	459	280	363	165	883	110	125	255	440	395	657
MX2452 to 62-P(U)… 4(Ex)		150	R4"AG	1084	576	345	457	207	1000	105	125	260	445	450	755
MX2436 to 38-T(U)36(Ex)		100	R4"AG	745	422	265	323	147	846	117	125	248	433	395	642
MX2446 to 48-T(U)36(Ex)		100	R4"AG	814	459	280	363	165	883	110	125	255	440	395	657
MX2452 to 62-T(U)… 6(Ex)		150	R4"AG	831	576	345	457	207	1000	105	125	260	445	450	755
V2332 to 39-T(U)… 2(Ex)		100	R4"AG	702	385	240	290	145	799	152	125	213	398	395	617
V2342 to 46-P(U)… 2(Ex)	100	100	R4"AG	1035	438	280	316	158	862	152	125	213	398	395	657
V2334 to 36-C24(Ex)		100	R4"AG	526	385	240	290	145	799	152	125	213	398	395	617
V2344 to 46-D44(Ex)		100	R4"AG	563	438	280	316	158	862	152	125	213	398	395	657
V2334 to 36-TU34(Ex)		100	R4"AG	702	385	240	290	145	799	152	125	213	398	395	617
V2344 to 46-TU34(Ex)		100	R4"AG	702	438	280	316	158	862	152	125	213	398	395	657
VX2345 to 46-T(U)… 4(Ex)		100	R4"AG	774	438	280	316	158	862	152	125	213	398	395	657
V2436-T(U)34(Ex)		100	R4"AG	745	422	265	323	147	846	117	125	248	433	395	642
V2437 to 45-T(U)… 4(Ex)		100	R4"AG	814	459	280	363	165	883	110	125	255	440	395	657
V2442 to 46-P(U)… 4(Ex)		100	R4"AG	984	459	280	363	165	883	110	125	255	440	395	657
VX24(36-39)-D54(Ex)		100	R4"AG	630	410	250	296	148	834	140	125	225	410	395	626
VX24(36-39)-TU44(Ex)		100	R4"AG	731	410	250	296	148	834	140	125	225	410	395	626
VX24(40-44)-T(U)… 4(Ex)		100	R4"AG	804	460	280	336	168	1029	175	125	225	410	395	657
VX24(44-46)-P(U)… 4Ex		100	R4"AG	914	460	280	336	168	884	140	125	225	410	395	657
V2452 to 56-P(U)94(Ex)		150	R4"AG	994	576	345	457	207	1000	105	125	260	445	450	755
VX24(52-58)-P(U)… 4(Ex)		150	R4"AG	1098	555	345	410	205	979	130	125	235	420	450	749
K3352 to 58-P(U)… 4(Ex)		150	R6"AG	1084	608	370	468	209	1156	140	125	260	546	450	965
K3360 to 66-F(U)… 4(Ex)		150	R6"AG	1308	753	450	599	268	1302	136	174	313	584	600	1168
K3366 to 70-G(U)… 4(Ex)		150	R6"AG	1364	753	450	599	268	1302	136	174	313	584	600	1168
K3366 to 70-P(U)96(Ex)		150	R6"AG	1088	753	450	599	268	1302	136	136	264	535	450	1168
MX3452 to 62-P(U)… 4(Ex)		150	R6"AG	1084	608	370	468	209	1156	140	125	260	546	450	965
MX3468 to 74-F(U)... 4(Ex)	150	150	R6"AG	1201	690	420	547	241	1239	137	174	312	598	600	1077
MX3456 to 62-T(U)… 6(Ex)		150	R6"AG	831	608	370	468	209	1158	140	125	260	546	450	966
MX3468 to 74-P(U)… 6(Ex)		150	R6"AG	1016	690	420	547	241	1239	137	125	263	549	450	1047
VX3460 to 70-F(U)… 4(Ex)		200	R6"AG	1353	620	380	464	232	1170	145	250	380	666	600	1037
VX3468 to 71-G(U)… 4(Ex)		200	R6"AG	1409	620	380	464	232	1170	145	250	380	666	600	1037
VX3460 to 71-P(U)… 6(Ex)		200	R6"AG	1133	620	380	464	232	1170	145	250	380	666	600	1037

J1	J2	K1	K2	K3	K4	L	▫M	O	P1	P2	Q	Rmax	S1	S3	Tmax	Umax	V1
137	167	148	357	450	615	195	400	687	200	400	93	699	280	95	548	648	260
137	167	148	357	450	615	195	400	687	200	400	93	948	280	95	796	896	310
137	167	148	357	476	641	195	400	767	200	480	119	1063	280	95	886	986	310
137	167																
137	167																
137	167	148	357	450	615	195	400	687	200	400	93	627	280	95	475	575	260
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137	167	148	357	476	640	195	400	767	200	480	121	726	280	95	548	648	260
137	167	148	357	476	640	195	400	767	200	480	121	726	280	95	548	648	260
137	167	148	357	435	599	195	400	707	200	420	250	882	360	110	738	843	260
137	167	148	357	435	600	195	400	897	200	450	250	1219	360	110	1075	1180	310
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137	167																
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137	167	148	357	435	600	195	400	737	200	450	250	809	360	110	736	841	260
122	197	148	357	450	645	195	400	727	200	400	93	698	280	95	542	642	260
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122	197	148	357	475	670	195	400	807	200	480	119	1282	280	95	1087	1187	360
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122	197																
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122	197	148	357	457	652	197	400	807	200	480	100	926	280	95	767	862	310
122	197	205	500	637	832	197	520	942	250	595	135	1006	350	120	842	952	310
122	197	205	502	612	806	197	520	941	230	575	110	1110	380	115	941	1046	310
273	273	205	502	637	908	283	520	1076	315	765	139	1096	450	120	902	1012	310
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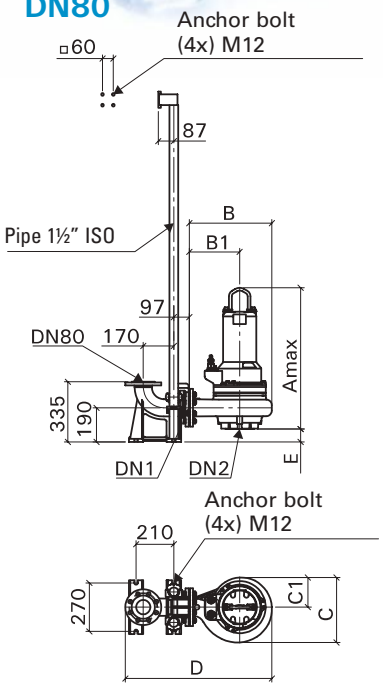
273	273	301	692	822	1093	367	560	1121	260	640	130	1145	380	115	956	1061	310

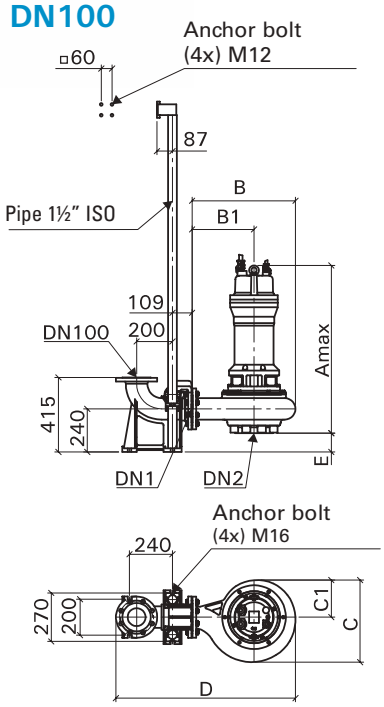
Installations and Dimensions

Wet well installation with auto-coupling system

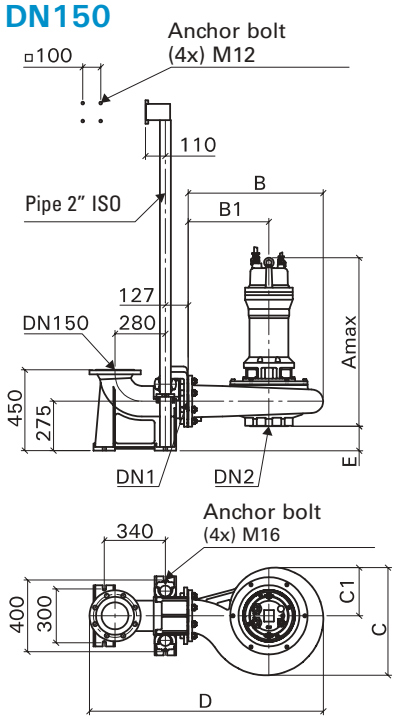
DN80



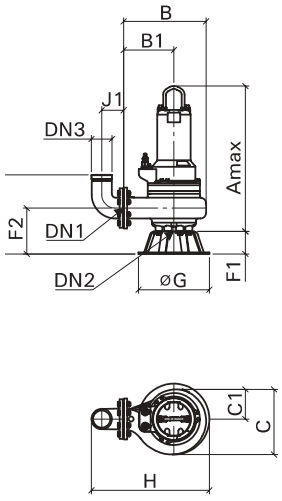
DN100



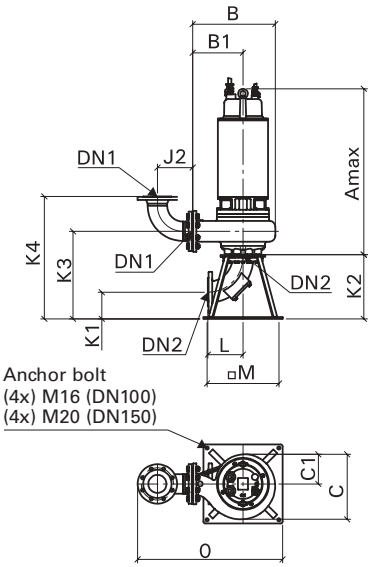
DN150



Wet well installation with base stand

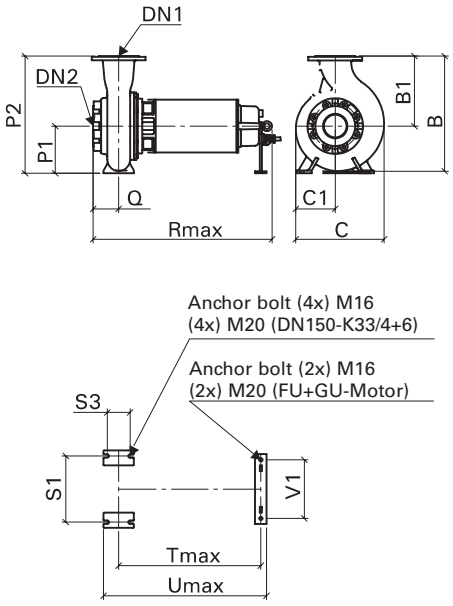


Dry well installation vertical



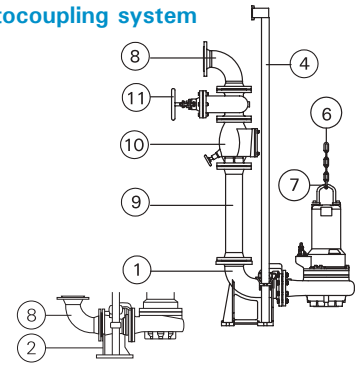
Dry well installation horizontal

Range V13+23/2+4
Separate support flanged to pump housing

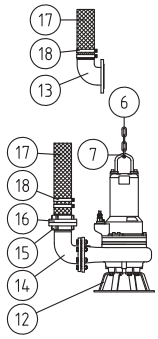


Accessories

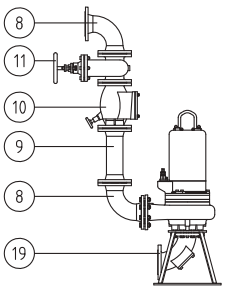
Permanent wet well installation with autocoupling system



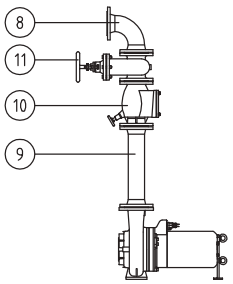
Transportable wet well installation



Permanent dry well installation vertical



Permanent dry well installation horizontal



No.	Description	Type	Dimension	Part No.
1	Auto-coupling system, cast iron, consisting of auto-coupling with flanged elbow, flanged pump coupling and upper slide rail bracket - Cast iron	KK 80/ 80 KK 80/100 KK 100/100 KK 100/ 80 KK 150/150 KK 150/100 KK 200/150	DN 80 DN 80/DN100 DN100 DN100/DN 80 DN150 DN150/DN100 DN200/DN150	8604025 8604030 8604055 8604060 8604070 8603632 8604105
	- Cast iron, upper slide-rail bracket Stainless Steel	KKR 80/ 80 KKR 80/100 KKR 100/100 KKR 100/ 80 KKR 150/150 KKR 150/100 KKR 200/150	DN 80 DN 80/DN100 DN100 DN100/100 DN150 DN150/100 DN200/150	8604026 8604031 8604056 8604061 8604071 8604073 8604106
	- complete Stainless Steel	KKC 80/ 80 KKC 100/100 KKC 150/150	DN 80 DN100 DN150	8604027 8604057 8604072
2	Auto-coupling system consisting of auto-coupling with horizontal discharge flange, flanged pump coupling and upper slide rail bracket	KS 80/ 100 KS 100/100 KS 150/150 KS 200/150	DN 80/DN100 DN100 DN150 DN 200/DN150	8604045 8604065 8604075 8604083
	Intermittend slide rail bracket - Cast iron		1 ½" for DN 80 1 ½" for DN100 2" for DN150 2 ½" for DN200	7322901 7322931 7320121A 7322911
	- Stainless steel		1 ½" for DN 80 1 ½" for DN100 2" for DN150	7323854A 7320355A 7323974A
4	Guide rails, pair, per meter - Galvanized steel		1 ½" for DN80/100 2" for DN150 2 ½" for DN200	2190155 2190205 2190225
	- Stainless steel		1 ½" for DN80/100 2" for DN150 2 ½" for DN200	2190254 2190256 2190258
6	Lifting chain, Galvanized steel, per meter		5 mm Ø 8 mm Ø 10 mm Ø	2800350 2800380 2800410
	Stainless steel AISI316 (A4), per meter		8 mm Ø 10 mm Ø	2800384 2800386
7	Galvanized steel shackle		f. 5 mm Ø f. 8 mm Ø f. 10 mm Ø	2801450 2801380 2801410
	Stainless steel shackle AISI316 (A4)		f. 8 mm Ø f. 10 mm Ø	2801384 2801386
8	90° flanged elbow		DN 80 DN 100 DN 150 DN 200	2153302 2153303 2153353 2153363
	or flanged y-piece for twin pump arrangement, horizontal discharge (optional with vertical discharge) with gasket and fixing bolts		DN 80/ 80/ 80 DN 80/ 80/100 DN 100/100/100 DN 100/100/125 DN 100/100/150 DN 150/150/150 DN 200/200/200	on request
9	Flanged discharge pipe, 1 m, with gasket and fixing bolts		DN 80 DN 100 DN 125 DN 150 DN 200	2152081 2152201 2152221 2152251 2152271
	Discharge pipe, per additional meter		DN 80 DN 100 DN 125 DN 150 DN 200	2150180 2150100 2150125 2150150 2150200
	Flanged reducer		on request	

No.	Description	Type	Dimension	Part No.
10	Flanged swing check valve, cast iron		DN 80 DN100 DN125 DN150 DN200	2212807 2212809 2212810 2212811 2212816
11	Flanged gate valve, cast iron		DN 80 DN100 DN125 DN150 DN200	2216080 2216100 2216125 2216150 2216200
12	Ring base stand up to 16,9 kW (P2) from 17,0 kW (P2)	NB 100 A NB 150 A NB 150	DN100 DN150 DN150	7321215 7321285 7321275
13	Flanged spigot elbow with gasket and fixing bolts		DN100/110mm	6001141
14	90° Flanged elbow		BSP3"F/M	2111805
	Double nipple		BSP3"M	2128030
	Threaded flange		DN80/BSP3"F	2215080
	Flanged to thread elbow with gasket and fixing bolts		DN100xBSP4"M DN150xBSP6"M	6001121 6001205
15	STORZ-fixed coupling		B-BSP3"M B-BSP3"F A-BSP4"F F-BSP6"F	2010603 2010602 2010701 2010961
16	STORZ-hose coupling with spigot		B-75 mm A-110 mm F-150 mm	2013502 2013801 2013901
	STORZ-reducer		A - B F - A	2015612 2015622
17	Reinforced hose, per m (inner dia. in mm)		75 mm 110 mm 150 mm	2632075 2632110 2632150
	Hose with pre-attached couplings		on request	
18	Hose bands		S 85/20 S100/20 S115/20 S118/20 S172/20	2308520 2310020 2311520 2311820 2317520
19	Flanged pump stand with gasket and fixing bolts	TVS 100 A (up to 28kW) TVS 150 A	DN100 DN150	7321705 7321725
	Pump stand with suction elbow, cleaning hole, gasket and fixing bolts	TVS 100 A-R (up to 28kW) TVS 100 A-R TVS 150 A-R TVS 150-R TVS 150/200 A-R TVS 150/200-R	DN100 DN100 DN150 DN150 DN150/DN200 DN150/DN200	8604220 8604221 8604225 8604230 8604232 8604235
	Screw kit with gaskets Gavanized steel		DN 80 DN100 DN150	2214080 2214100 2214150
	Stainless steel		DN 80 DN100 DN150	2214082 2214102 2214152

Stainless steel pipes, fittings on request.
Electrical or electronic **control panels** for pumps and pump stations with accessories on request.
Sumps of concrete or synthetic material for complete pump stations please see special leaflet.

HOMA Product Range

- Submersible waste water pumps
- Deep-well submersible pumps
- Submersible sewage pumps
- Submersible grinder pumps with cutter system
- Waste water disposal units
- Sewage disposal units
- Packaged pump stations
- Mixers and flow generators
- Injector systems for tank cleaning
- Garden pumps and domestic booster units
- Control boxes

Worldwide Presence

HOMA pumps are installed in more than 60 countries around the world – in countless projects of various kinds. They comply to all international safety and quality standards and are certified by many institutions and organisations responsible for national waste water treatment standards. To maintain and further develop this high quality level is our main target.

Network of Sales and Service Partners

HOMA provides a worldwide network of agents and distributors supporting our customer with excellent sales and service assistance in planning, specification and selection, including a computer software program available on CD-ROM or from the WorldWide-Web.

HOMA Pumpenfabrik GmbH
P.O. Box 22 63 › 53819 Neunkirchen-Seelscheid; Germany
Phone +49 (0)22 47 / 702-0 › Fax +49 (0) 22 47 / 702 -44
e-mail: info@homa-pumpen.de › Internet: www.homapumps.com

HOMA PUMP TECHNOLOGY

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