PUMPS FOR WASTEWATER TREATMENT

SUBMERSIBLE SEWAGE PUMPS

MXS, V(X), K(X) series | Discharge connector DN 80 - DN 150

HOMA: QUALITY PRODUCTS FOR WASTE WATER SYSTEMS

HIGH EFFICIENCY AND ECONOMIC VIABILITY

Submersible pumps from HOMA have been in use around the world for decades. Requirements for the waste water sector are constantly increasing. HOMA products go beyond state of the art – through the continual optimisation of their hydraulic components and motors, they ensure economic operation and an affordable purchase price. All of the company's expertise and creative potential have been incorporated into its products and services – for maximum customer benefit.

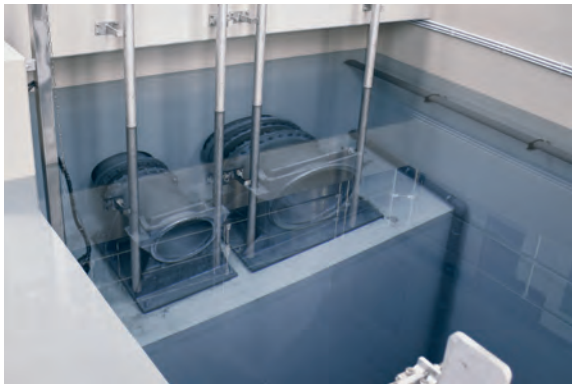
INDIVIDUAL POSSIBILITIES, OPTIMUM SOLUTIONS

HOMA unites safety, economic viability, high quality and robust system technology with customisation options: the product spectrum ranges from complete pump stations with pumps, valves, pipework, pre-assembled concrete or plastic sumps, through to electronic control systems. The focus is on optimum design with cost effective workflows on site for all installation types.

HIGHER FUNCTIONAL RELIABILITY, LOWER ENERGY CONSUMPTION

With HOMA you are always in good hands – our pump stations are controlled and monitored fully automatically, and faults are registered automatically, too. The pumps run with the lowest possible energy consumption, which is also ensured by optimally matched water level control devices, such as floats, pneumatics, ultrasound and hydrostatic level sensors (ENS sensors).

In many cases, both the pump and control system have to meet the relevant requirements and regulations on explosion protection. All HOMA pumps are therefore also available as explosion-proof versions.



Each unit is tested in the modern test center before delivery. This is how we guarantee HOMA´s renowned quality standards.

For chemically aggressive liquids: Stainless steel submersible pumps of HOMA.

PROVEN TECHNOLOGY FOR A BROAD RANGE OF APPLICATIONS

MULTIPLE DEMANDS – INDIVIDUAL SOLUTIONS

Submersible waste water pumps from HOMA convey domestic, public and industrial waste water, sewage (containing faeces), and sludge (which may contain high levels of solid and fibrous matter), as well as domestic waste water of any kind. Thanks to the use of a broad range of materials (stainless steel in different grades, bronze, Viton, etc.), HOMA submersible pumps are suitable for a wide variety of industrial applications.

- Industrial waste water
- Sewage treatment plants
- Large scale pump stations
- Industrial applications
- Oil and gas
- Power station construction
- Mining
- Chemical processes
- Shipbuilding/offshore sector

MORE POWER FOR EVERY REQUIREMENT

HOMA pumps are used in all manner of applications: to supply water to power stations, as seepage pumps in coal mines, drainage pumps in infrastructure projects, waste water pumps for industrial waste water, or as ballast pumps in the shipbuilding and marine sector. Customers benefit from proven features tried and tested in real life applications, such as:

- A range of different impellers, depending on the medium being conveyed, e.g. special symmetries, hardened materials and ceramic coatings
- Motors suitable for continuous operation, with or without cooling jackets
- High grade materials
- Robust construction

FOR GREATER SAFETY AND DURABILITY

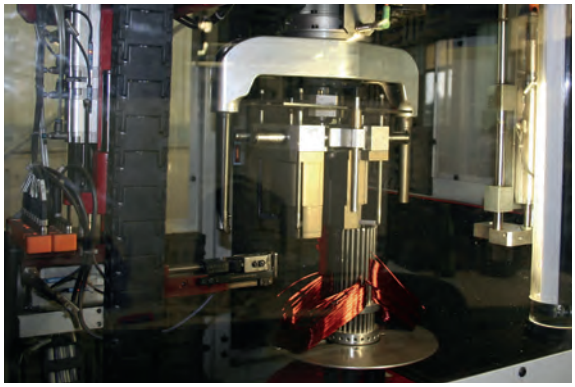
MORE BENEFITS IN ALL OPERATING MODES

For operating mode S1 (continuous operation), the motors are designed with a maximum switching frequency of 20 operating cycles per hour. In addition to the standard version for operation with a submerged motor, a special version with cooling jacket is also available for use with a surface motor or dry installed motor.

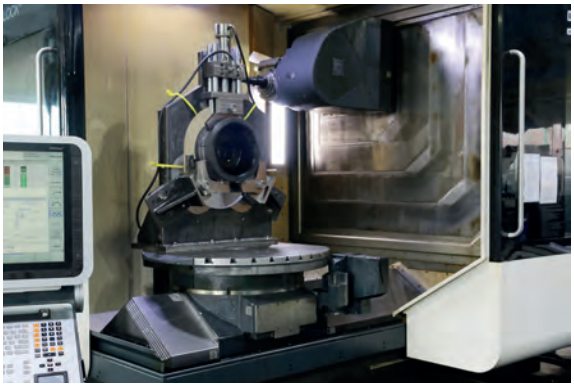
Hydraulics with single-channel impellers are suitable for intermittent operation (i.e. generally for level-controlled automatic sump operation) and continuous operation. Vortex or multi-channel impellers are the right choice for continuous operation in particular, e.g. for industrial service water supply.

TOP MATERIAL QUALITY – LOWER SUSCEPTIBILITY TO FAILURE

Quality is a measurable value – fully floodable pump blocks from HOMA impress through their generous sizing of all important components, with outstanding material quality and solid mechanical workmanship. This guarantees a long service life



In-house motor production allows various voltages and frequencies

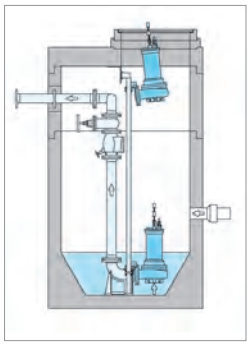


By machining all needed components in our own workshop on modern precision equipment we are able to assure efficiency and flexibility.

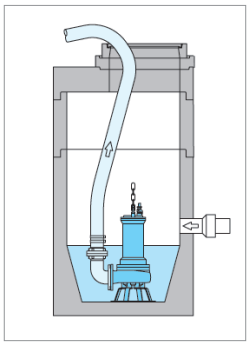
DIFFERENT INSTALLATION TYPES ALLOW GREATER EASE OF SERVICE

STATIONARY WET WELL INSTALLATION

The pump is connected to the pressure pipe and is made pressure-tight by means of a coupling base attached to the bottom of the sump. For maintenance or repair, it can be removed from its operating position from above through the sump opening via a permanently installed double pipe feed. The pump is attached and detached automatically; it is not necessary to enter the sump. With its flexible rubber gasket, the HOMA coupling system thereby ensures a secure, permanent, leak-free seal between the pump and the pressure pipe.



Permanent wet well installation



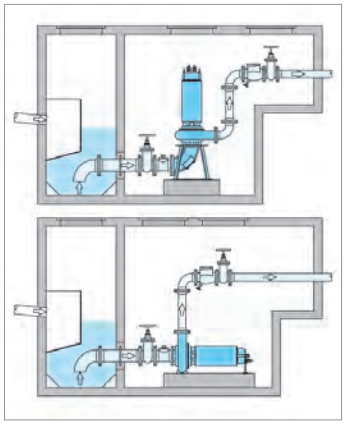
Transportable wet well installation

MOBILE WET WELL INSTALLATION

Universal installation for immersion in trenches and sumps, for use over a limited period, emergency operation or service operation. Can be used with a pressure hose or pressure pipe.

STATIONARY DRY INSTALLATION – VERTICAL OR HORIZONTAL

Flood-proof installation for pump stations with a separate collection sump. Flange connection for suction pipe and pressure pipe.



Permanent dry well installation

EFFTEC MOTORS AND MXS HYDRAULICS

MXS: IMMUNITY TO CLOGGING

Conveyed media have changed greatly in recent years, displaying an increasing solids content. In order to ensure reliable operation in such cases, our new MXS hydraulics rely on closed single-vane impellers with large free passages.

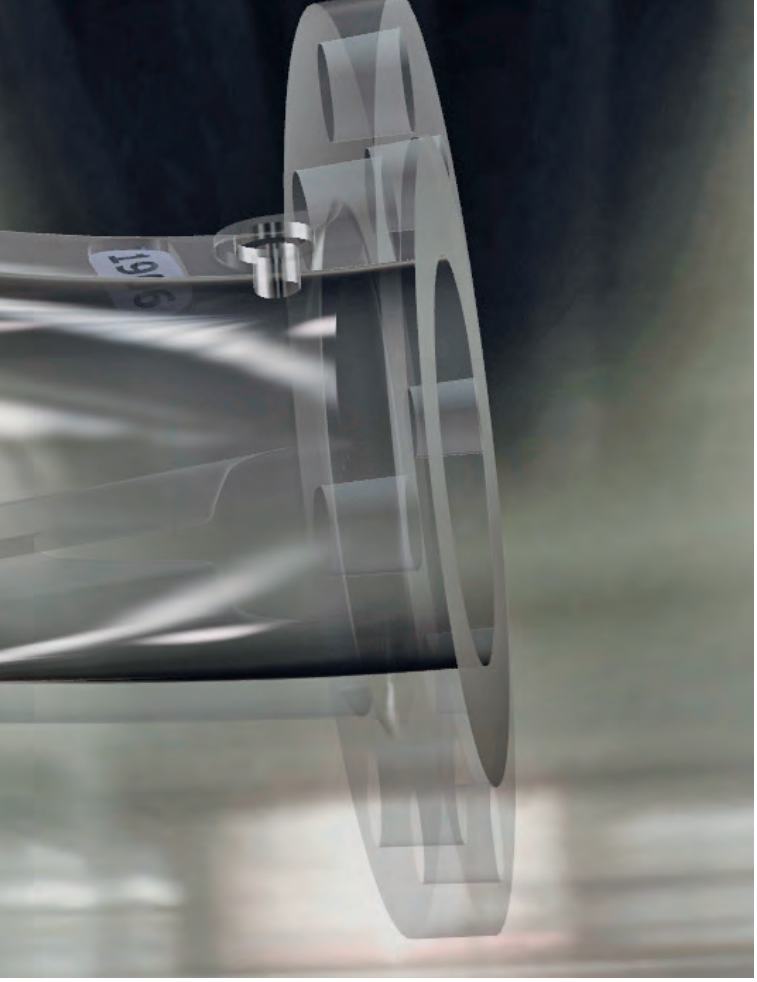
Our impellers and pump housings have been redesigned at the HOMA R&D center and optimized with the latest flow-simulation software. The result: clearly improved hydraulic efficiencies of up to 81 percent, with a simultaneously low risk of blockage and quiet running. In combination with HOMA's proven submersible-motors, the new MXS hydraulics are setting a trend in economic efficiency and operational safety.

EFFTEC: INNOVATIVE TECHNOLOGY

In order to achieve the highest possible overall efficiency with consequently low energy consumption we developed the new EffTec series at our HOMA R&D center. In combination with the new MXS hydraulics, the new pump generation is setting a trend in economic efficiency and operational safety.

The newly developed PermaCool system is future-oriented. This permanent motor cooling now gives you the option of fitting the units for submerged or drywell installation. The new design - registered for a patent - simultaneously ensures that the cooling jacket cannot be clogged with solids.

Together with the low winding temperature of the EffTec motors, the PermaCool system puts a low thermal load on all components, thus ensuring their long useful lifetime.



Optionally available with connection for automatic HOMA FV flush valve.

THE HIGH PRESSURE CLEANING DEVICE FOR THE PUMP SUMP

FLUSH VALVES: KEEPING IT CLEAN

Pump stations require frequent cleaning as solids settle at the bottom or a layer of floating matter gathers on the surface of the water. Expensive cleaning and maintenance measures as well as high costs due to downtimes can arise. HOMA has the answer: the new HOMA FV 25 and FV 50 flush valves reliably prevent deposits in pump sumps. At the beginning of the pumping process, part of the medium being handled is channelled back to the pump sump through the open flush valve. As the medium is flushed through the sump, it stirs up deposited solids so that they can be removed.

The flushing nozzle can either be directed towards the bottom of the pump sump to remove deposits, or alternatively, towards the surface of the waste water to prevent the formation of a layer of floating matter, especially in the case of waste water with a high fat content.

RANGES AND PUMP TYPES

MOTOR SELECTION

Speed:
For the standard hydraulic range, 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 400V/3 Ph,50 Hz. Different voltages are available on request.

Type of start:
In the standard version, pumps are supplied for direct start and star-delta start.

All motors are available for frequency converter and soft start operation.

Explosion protection:
Depending on the assembly group, also available in explosion-proof design.

Dry well variant:
Besides the version for submerged operation, all pumps are also available with cooling jacket for dry well or non-submerged operation.

Motor monitoring:
All motors are supplied with temperature sensors in the winding, bi-metallic sensors (standard), PTC thermistor or PT100 (on request).

Depending on version available with:
- oil chamber monitoring probe
- moisture monitoring of the cable connection chamber
- moisture monitoring of the stator chamber
- Temperature monitoring of bearings

PUMP TYPE CODE

Range	Impeller design	Discharge size	Spherical clearance	Impeller diameter	Motor frame size	Jacket cooled motor	Motor power (coded)	Motor speed	Monitoring sensors	Explosion protection
Pump					Motor					
	MXS	**2**	**4**	**48-**	**T**	**(U)**	**6**	**4**	**(S)**	**(EX)**
	MXS Enclosed single channel impeller V(X) Vortex-Impeller K(X) Enclosed multi channel	1 = 80 mm 2 = 100 mm 3 = 150 mm	(mm : 25) 3 = 80 mm 4 = 100 mm	(mm : 5) e.g. 48 = 240 mm	C, D, T, P, F, G ET: EffTec-Motor with PermaCool-System for wet- and dry well instal-lation	Motor with cooling jacket U= open circuit pumped liquid cooling		2 = 2pole (2900 rpm) 4 = 4pole (1450 rpm) 6 = 6pole (960 rpm)	Only for motors without jacket cooling S = moisture sensor in stator chamber	

RANGES AND HYDRAULICS

HYDRAULIC SELECTION

Discharge and suction flange

- DN 80
- DN 100
- DN 150

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

Impeller:

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.

MXS
Enclosed single channel impeller

For liquids containing impurities and sludge with solid particles or long fibers. New generation of non clogging impellers with hydraulic efficiency over 80%.

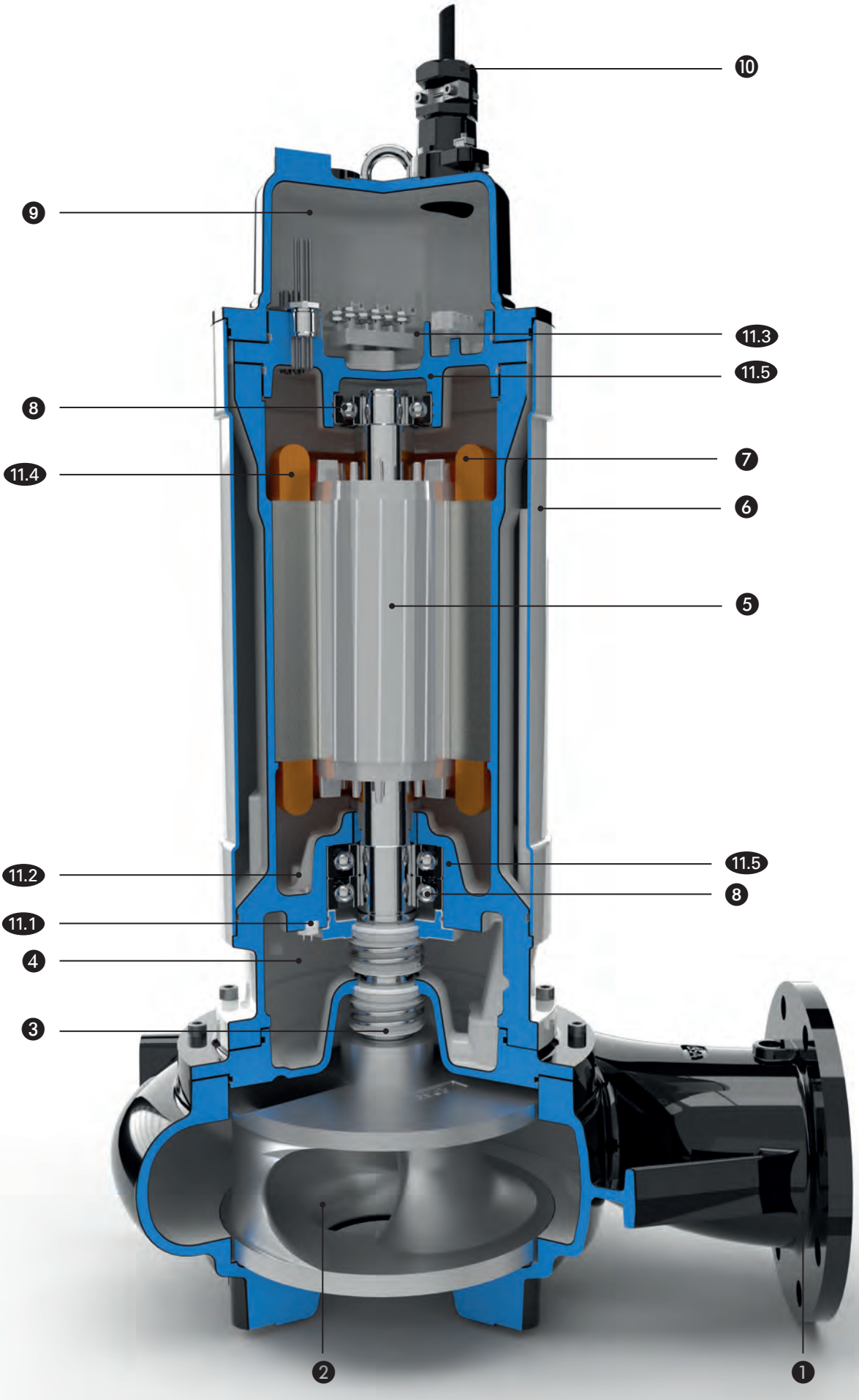
K(X)
Enclosed Multi Channel Impeller

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.

DESIGN – WELL THOUGHT OUT AT EVERY STAGE



SUPERIOR MATERIAL QUALITY – LOWER SUSCEPTIBILITY TO FAILURE

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

❶ DISCHARGE

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

❷ NON-CLOGGING IMPELLERS

- Enclosed single channel impeller with large spherical clearance. Replaceable wear ring.
- Enclosed multi channel impeller with replaceable wear ring
- Vortex impeller

❸ SHAFT SEALS

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

❹ OIL CHAMBER

Oil-filled sealing chamber with screw for inspection. All motors with seal monitoring in the oil chamber as standard.

❺ MOTOR

Three phase electric motor with 2-, 4- or 6-pole winding. Insulation class H (180° C), Protection IP 68.

EXPLOSION PROTECTION

Depending on the assembly group, also available in explosion-proof design.

❻ 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).

❼ MOTOR WINDING

Motor winding with temperature monitoring by bimetal switch. PTC thermistor and PT100 on request.

❽ SHAFT BEARINGS

Robust, maintenance-free, permanently lubricated roller bearings. Temperature monitoring of shaft bearings on request.

❾ JUNCTION CHAMBER

Water pressure-tight encapsulated cable connection compartment, standard for F(U), G(U) motor. Optional for P(U) motor.

❿ CABLE INLET

Water pressure-tight cable inlet with cable H07RN8-F. Shielded cable on request.

⓫ MOTOR MONITORING

11.1 Seal monitoring of oil chamber (standard)

11.2 Seal monitoring of motor housing (on request)

11.3 Seal monitoring junction chamber (Standard for F and G motor. P(U), FU, GU motor optional)

11.4 Temperature monitoring of winding by bimetal switch (standard). PTC thermistor and PT100 on request

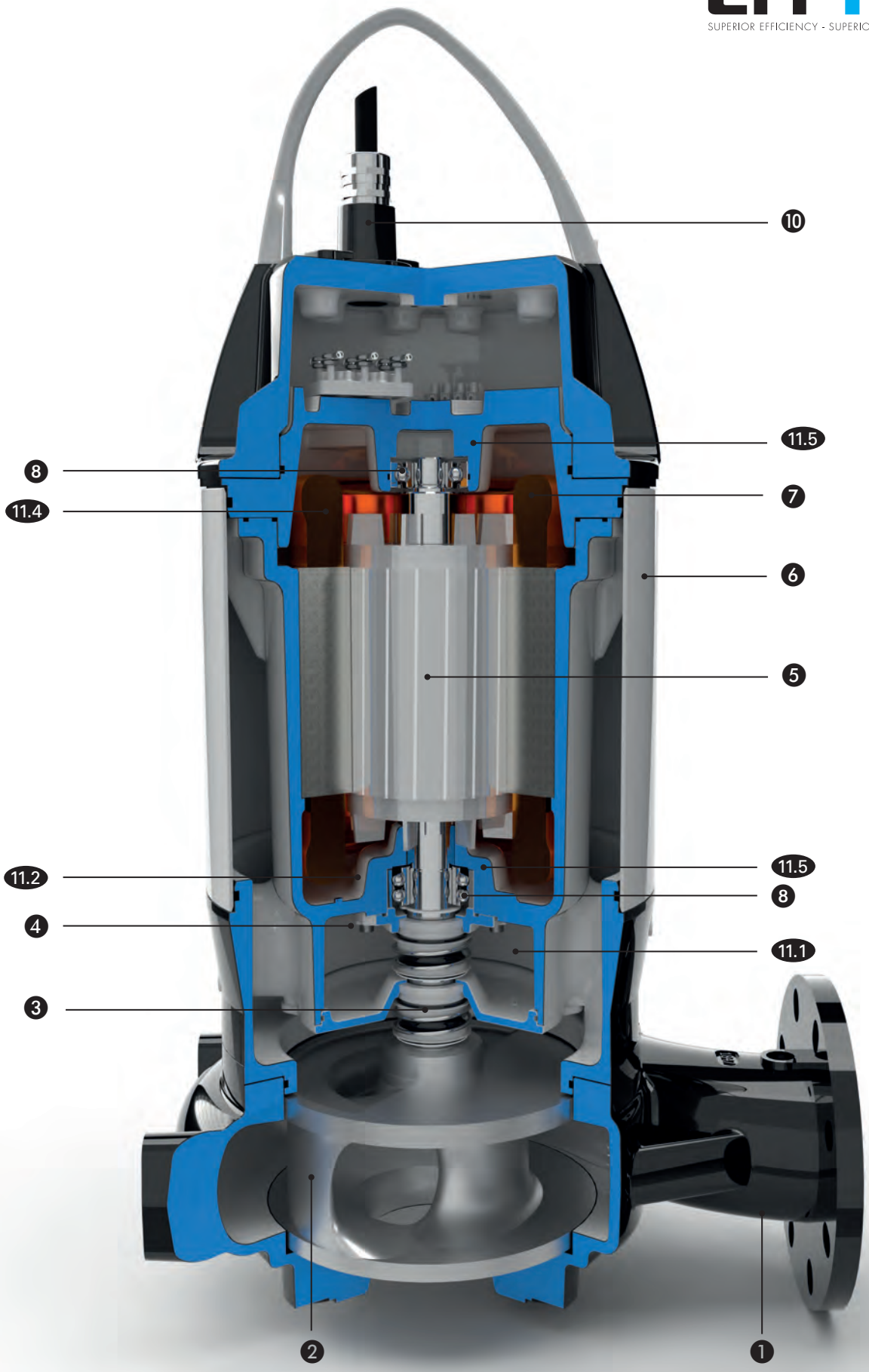
11.5 Temperature monitoring of upper and lower bearings by PT100 (on request)

MATERIALS

Motor housing	Cast iron EN-GJL-250 (stainless steel optional)
Pump housing	Cast iron EN-GJL-250 (stainless steel optional)
Impeller	Cast iron EN-GJL-250 (stainless steel optional)
Wear rings	Bronze
Motor shaft	Stainless steel
Mechanical seals	Silicon-carbide / Silicon-carbide
Motor cooling jacket (model U)	Stainless steel
Seals and O-rings	Perbonane NBR (Viton FPN optional)
Cable	H07RN8-F

NEW EFFTEC-MOTORS: INNOVATIVE TECHNOLOGY - GREAT EFFICIENCY

EFFTEC
SUPERIOR EFFICIENCY - SUPERIOR PERFORMANCE



PERMANENT MOTOR COOLING: PERMACOOL

All models in the EffTec series are equipped with the newly developed PermaCool system. This permanent motor cooling now gives you the option of fitting the units for submerged or drywell installation. The new design- registered for a patent- simultaneously ensures that the cooling jacket cannot be clogged with solids. In combination with our new MXS-hydraulics, the new EffTec series of pumps sets a trend for economic efficiency and reliability.

❶ DISCHARGE

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

❷ NON-CLOGGING IMPELLERS

- Enclosed single channel impeller with large spherical clearance. Replaceable wear ring.
- Vortex impeller.

❸ SHAFT SEALS

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

❹ OIL CHAMBER

Oil-filled sealing chamber with screw for inspection. All motors with seal monitoring in the oil chamber as standard.

❺ MOTOR

Three phase electric motor with 2-, 4-, or 6-pole winding. Insulation class H (180 C), Protection IP 68.

EXPLOSION PROTECTION

Depending on the assembly group, also available in explosion-proof design.

❻ MOTOR COOLING PERMACOOL

This permanent motor cooling now gives you the option of fitting the units for submerged or drywell installation.

Together with the low winding temperature of the EffTec motors, the PermaCool system puts a low thermal load on all components, thus ensuring their long useful lifetime.

❼ MOTOR WINDING

Motor winding with temperature monitoring by bimetal switch. PTC thermistor and PT100 on request.

❽ SHAFT BEARINGS

Robust, maintenance-free, permanently lubricated roller bearings. Temperature monitoring of shaft bearings on request.

❿ CABLE INLET

Water pressure-tight cable inlet with cable H07RN8-F. Shielded cable on request.

⓫ MOTOR MONITORING

11.1 Seal monitoring of oil chamber (standard)

11.2 Seal monitoring of motor housing (on request)

11.4 Temperature monitoring of winding by bimetal switch (standard). PTC thermistor and PT100 on request

11.5 Temperature monitoring of upper and lower bearings by PT100 (on request)

The new innovative PermaCool motor cooling

MATERIALS

Motor housing	Cast Iron EN-GJL-250
Pump housing	Cast Iron EN-GJL-250 (stainless steel optional)
Impeller	Cast Iron EN-GJL-250 (stainless steel optional)
Wear ring	Bronze
Motor shaft	Stainless Steel
Mechanical seals	Silicon Carbide / Silicon Carbide
Cooling jacket	Stainless Steel
Seals / O-Rings	Perbonane NBR (Viton FPN optional)
Cable	H07RN8-F

DN 80 - PUMP RANGES SELECTION CHART

DN 80

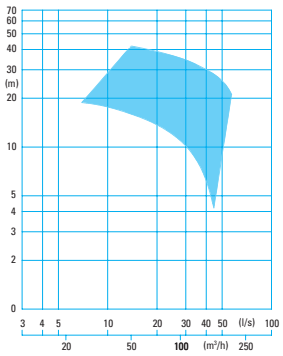
Enclosed single channel impeller

80 mm Ø
Spherical clearance

2900 rpm

PAGE 17

MXS13... -2 pole



DN 80

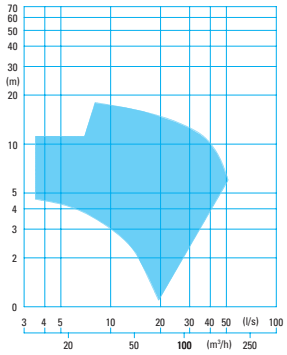
Enclosed single channel impeller

80 mm Ø
Spherical clearance

1450 rpm

PAGE 18

MXS13.. -4 pole



DN 80

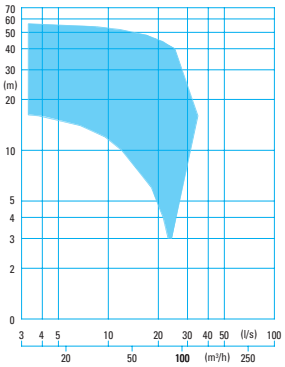
Vortex impeller

80 mm Ø
Spherical clearance

2900 rpm

PAGE 19

V13... -2 pole



DN 80

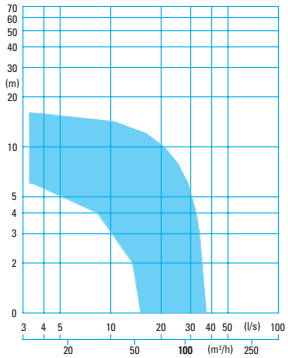
Vortex impeller

80 mm Ø
Spherical clearance

1450 rpm

PAGE 20

V(X)13... -4 pole



DN 100 - PUMP RANGES SELECTION CHART

DN 100

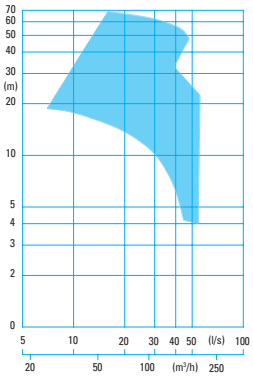
Enclosed single channel impeller

80 mm Ø
Spherical clearance

2900 rpm

PAGE 21

MXS23... -2 pole



DN 100

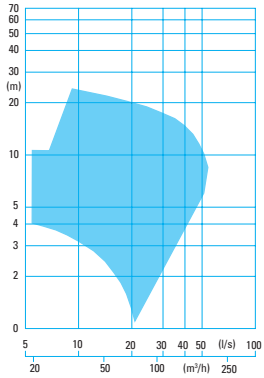
Enclosed single channel impeller

80 mm Ø
Spherical clearance

1450 rpm

PAGE 22

MXS23... -4 pole



DN 100

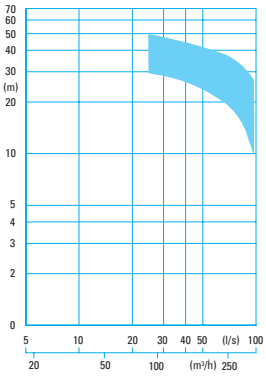
Enclosed two channel impeller

80 mm Ø
Spherical clearance

1450 rpm

PAGE 23

KX23... -4 pole



DN 100

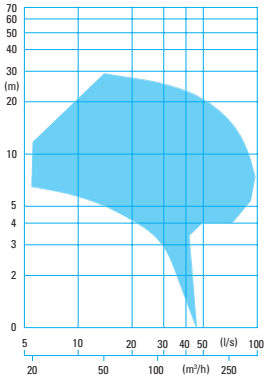
Enclosed single channel impeller

100 mm Ø
Spherical clearance

1450 rpm

PAGE 24

MXS24... -4 pole



DN 100

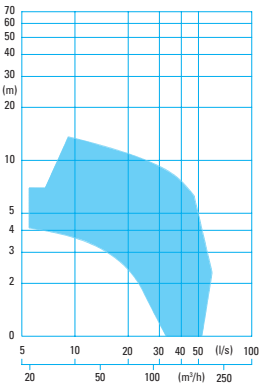
Enclosed single channel impeller

100 mm Ø
Spherical clearance

960 rpm

PAGE 25

MXS24... -6 pole



DN 100

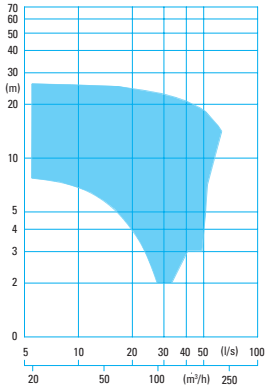
Vortex impeller

100 mm Ø
Spherical clearance

1450 rpm

PAGE 26

VX24... -4 pole



DN 150 - PUMP RANGES SELECTION CHART

DN 150

Enclosed single channel impeller

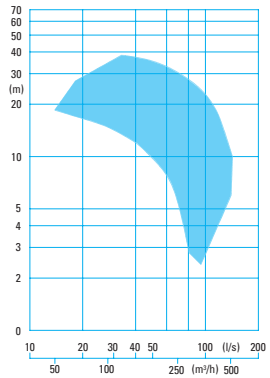
100 mm Ø

Spherical clearance

1450 rpm

PAGE 27

MX34... -4 pole



DN 150

Enclosed single channel impeller

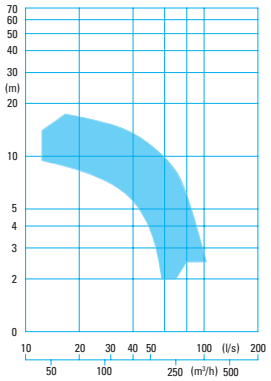
100 mm Ø

Spherical clearance

960 rpm

PAGE 28

MX34... -6 pole



DN 150

Enclosed two channel impeller

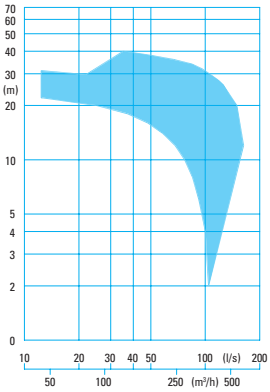
80 mm Ø

Spherical clearance

1450 rpm

PAGE 29

K33... -4 pole



DN 150

Enclosed two channel impeller

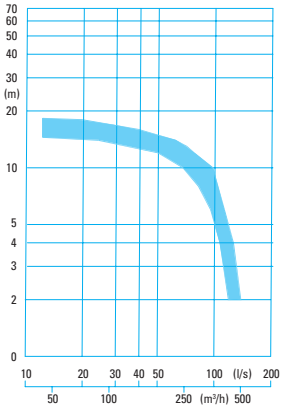
80 mm Ø

Spherical clearance

960 rpm

PAGE 30

K33... -6 pole

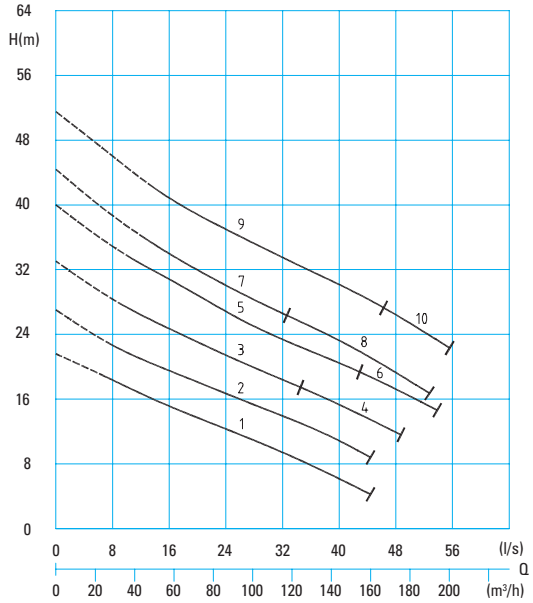


DN 80 - MXS13...-2 POLE

Enclosed single channel impeller

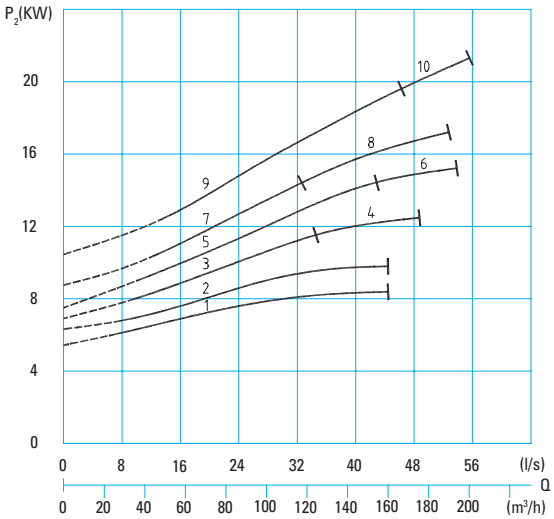
80 mm Ø Spherical clearance
2900 rpm

HYDRAULIC PERFORMANCE



Technical data					WET WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS1328-T72 (Ex)	11,0	9,5	18,8	120	120
②	MXS1330-T82 (Ex)	13,0	11,5	22,2	123	123
③	MXS1332-T82 (Ex)	13,0	11,5	22,2	123	123
④	MXS1332-P92 (Ex)	16,0	14,4	27,0	178	190
⑤	MXS1334-P92 (Ex)	16,0	14,4	27,0	178	190
⑥	MXS1334-P102 (Ex)	22,0	19,6	36,9	178	190
⑦	MXS1336-P92 (Ex)	16,0	14,4	27,0	180	192
⑧	MXS1336-P102 (Ex)	22,0	19,6	36,9	180	192
⑨	MXS1338-P102 (Ex)	22,0	19,6	36,9	180	192
⑩	MXS1338-P122 (Ex)	28,0	25,4	46,3	198	210

MOTOR OUTPUT



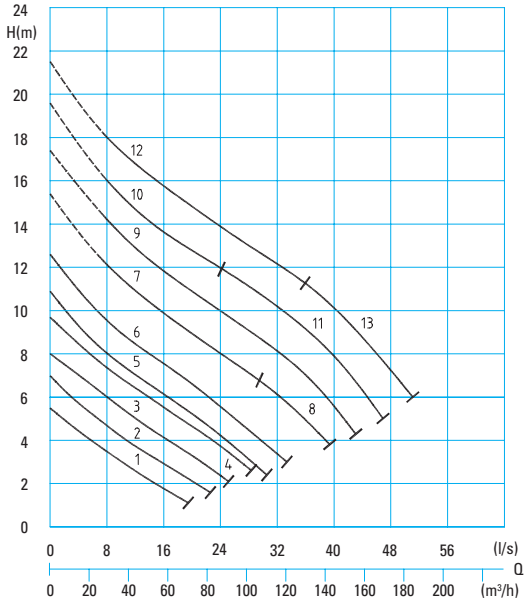
Technical data					DRY WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS1328-ET72 (Ex)	10,5	9,5	20,1	146	146
②	MXS1330-ET82 (Ex)	12,7	11,5	22,7	146	146
③	MXS1332-ET82 (Ex)	12,7	11,5	22,7	146	146
④	MXS1332-PU92 (Ex)	16,0	14,4	27,0	189	201
⑤	MXS1334-PU92 (Ex)	16,0	14,4	27,0	189	201
⑥	MXS1334-PU102 (Ex)	22,0	19,6	36,9	189	201
⑦	MXS1336-PU92 (Ex)	16,0	14,4	27,0	191	203
⑧	MXS1336-PU102 (Ex)	22,0	19,6	36,9	191	203
⑨	MXS1338-PU102 (Ex)	22,0	19,6	36,9	191	203
⑩	MXS1338-PU122 (Ex)	28,0	25,4	46,3	211	223

DN 80 - MXS13...-4 POLE

Enclosed single channel impeller

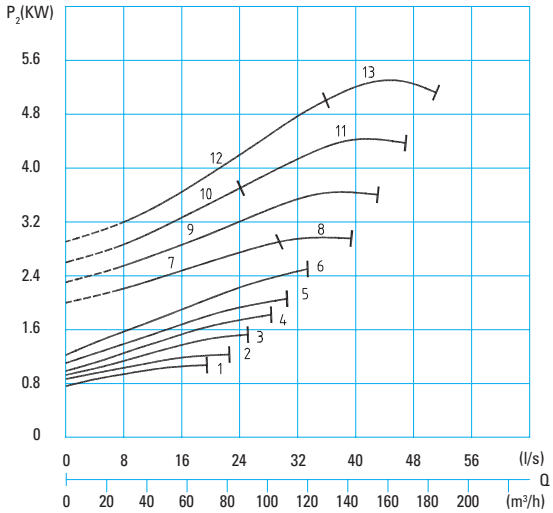
80 mm Ø Spherical clearance
1450 rpm

HYDRAULIC PERFORMANCE



Technical data					WET WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS1328-C24 (Ex)	1,7	1,3	3,3	74	74
②	MXS1330-C24 (Ex)	1,7	1,3	3,3	74	74
③	MXS1332-D44 (Ex)	3,4	2,6	6,2	80	80
④	MXS1334-D44 (Ex)	3,4	2,6	6,2	80	80
⑤	MXS1336-D44 (Ex)	3,4	2,6	6,2	82	82
⑥	MXS1338-D44 (Ex)	3,4	2,6	6,2	82	82
⑦	MXS1340-T34 (Ex)	3,4	2,9	5,8	117	117
⑧	MXS1340-T44 (Ex)	4,4	3,7	7,7	121	121
⑨	MXS1342-T44 (Ex)	4,4	3,7	7,7	121	121
⑩	MXS1344-T44 (Ex)	4,4	3,7	7,7	121	121
⑪	MXS1344-T54 (Ex)	5,9	5,0	9,9	131	131
⑫	MXS1346-T54 (Ex)	5,9	5,0	9,9	131	131
⑬	MXS1346-T64 (Ex)	7,7	6,5	13,1	134	134

MOTOR OUTPUT



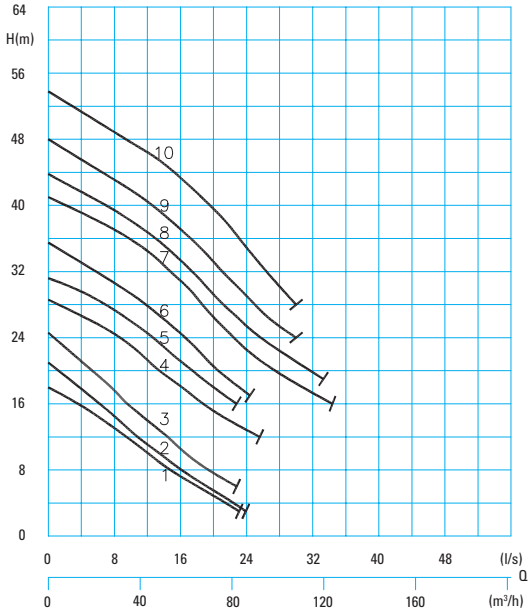
Technical data					DRY WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS1328-ET34 (Ex)	3,3	2,9	5,9	128	128
②	MXS1330-ET34 (Ex)	3,3	2,9	5,9	128	128
③	MXS1332-ET34 (Ex)	3,3	2,9	5,9	128	128
④	MXS1334-ET34 (Ex)	3,3	2,9	5,9	128	128
⑤	MXS1336-ET34 (Ex)	3,3	2,9	5,9	130	130
⑥	MXS1338-ET34 (Ex)	3,3	2,9	5,9	130	130
⑦	MXS1340-ET34 (Ex)	3,3	2,9	5,9	134	134
⑧	MXS1340-ET44 (Ex)	4,3	3,7	7,3	134	134
⑨	MXS1342-ET44 (Ex)	4,3	3,7	7,3	134	134
⑩	MXS1344-ET44 (Ex)	4,3	3,7	7,3	134	134
⑪	MXS1344-ET54 (Ex)	6,1	5,0	10,2	134	134
⑫	MXS1346-ET54 (Ex)	6,1	5,0	10,2	134	134
⑬	MXS1346-ET64 (Ex)	7,4	6,5	13,4	152	152

DN 80 - V13...-2 POLE

Vortex impeller

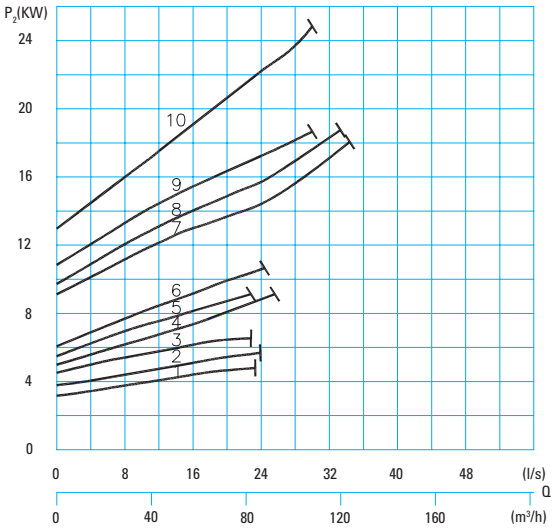
80 mm Ø Spherical clearance
2900 rpm

HYDRAULIC PERFORMANCE



Technical data						WET WELL INSTALLATION
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	V1332-T62 (Ex)	7,5	6,4	13,0	91	91
②	V1333-T62 (Ex)	7,5	6,4	13,0	91	91
③	V1334-T62 (Ex)	7,5	6,4	13,0	91	91
④	V1335-T72 (Ex)	11,0	9,5	18,8	103	103
⑤	V1337-T72 (Ex)	11,0	9,5	18,8	103	103
⑥	V1339-T82 (Ex)	13,0	11,5	22,2	108	108
⑦	V1342-P102 (Ex)	22,0	19,6	36,9	176	188
⑧	V1343-P102 (Ex)	22,0	19,6	36,9	176	188
⑨	V1344-P122 (Ex)	28,0	25,4	46,3	196	208
⑩	V1345-P122 (Ex)	28,0	25,4	46,3	196	208

MOTOR OUTPUT



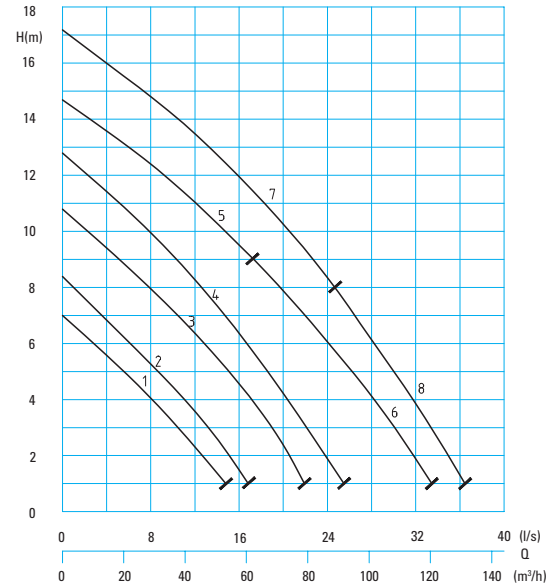
Technical data						DRY WELL INSTALLATION
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	V1332-ET62 (Ex)	7,3	6,4	12,4	119	119
②	V1333-ET62 (Ex)	7,3	6,4	12,4	119	119
③	V1334-ET62 (Ex)	7,3	6,4	12,4	119	119
④	V1335-ET72 (Ex)	10,5	9,5	20,1	139	139
⑤	V1337-ET72 (Ex)	10,5	9,5	20,1	139	139
⑥	V1339-ET82 (Ex)	12,7	11,5	22,7	139	139
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-PU122 (Ex)	28,0	25,4	46,3	196	208
⑩	V1345-PU122 (Ex)	28,0	25,4	46,3	208	220

DN 80 - V(X)13...-4 POLE

Vortex impeller

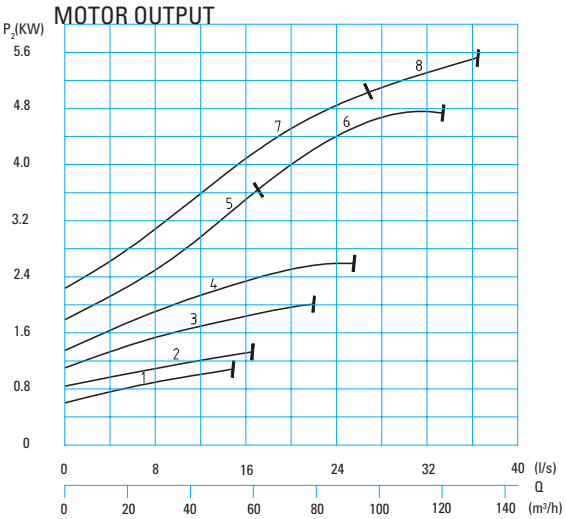
80 mm Ø Spherical clearance
1450 rpm

HYDRAULIC PERFORMANCE



Technical data						WET WELL INSTALLATION
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	V1334-C24 (Ex)	1,7	1,3	3,3	63	64
②	V1336-C24 (Ex)	1,7	1,3	3,3	63	64
③	V1344-D44 (Ex)	3,4	2,6	6,2	66	67
④	V1346-D44 (Ex)	3,4	2,6	6,2	66	67
⑤	VX1345-T44 (Ex)	4,4	3,7	7,7	105	105
⑥	VX1345-T54 (Ex)	5,9	5,0	9,9	118	118
⑦	VX1346-T54 (Ex)	5,9	5,0	9,9	118	118
⑧	VX1346-T64 (Ex)	7,7	6,5	13,1	121	121

MOTOR OUTPUT



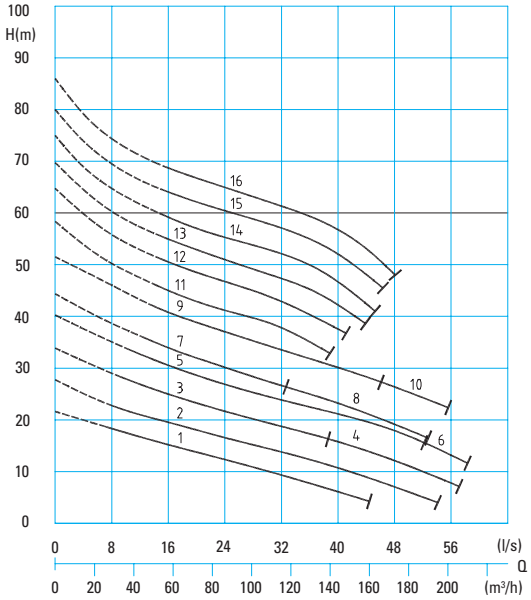
Technical data						DRY WELL INSTALLATION
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
③	V1344-ET34 (Ex)	3,3	2,9	5,9	122	122
⑤	VX1345-ET44 (Ex)	4,3	3,7	7,3	122	122
⑥	VX1345-ET54 (Ex)	6,1	5,0	10,2	122	122
⑦	VX1346-ET54 (Ex)	6,1	5,0	10,2	122	122
⑧	VX1346-ET64 (Ex)	7,4	6,5	13,4	139	139

DN 100 - MXS23...-2 POLE

Enclosed single channel impeller

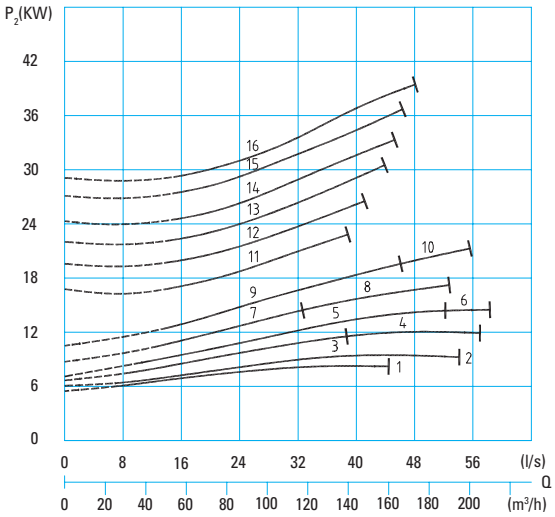
80 mm Ø Spherical clearance
2900 rpm

HYDRAULIC PERFORMANCE



Technical data					WET WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS2328-T72 (Ex)	11,0	9,5	18,8	120	120
②	MXS2330-T82 (Ex)	13,0	11,5	22,2	123	123
③	MXS2332-T82 (Ex)	13,0	11,5	22,2	123	123
④	MXS2332-P92 (Ex)	16,0	14,4	27,0	178	190
⑤	MXS2334-P92 (Ex)	16,0	14,4	27,0	178	190
⑥	MXS2334-P102 (Ex)	22,0	19,6	36,9	178	190
⑦	MXS2336-P92 (Ex)	16,0	14,4	27,0	180	192
⑧	MXS2336-P102 (Ex)	22,0	19,6	36,9	180	192
⑨	MXS2338-P102 (Ex)	22,0	19,6	36,9	180	192
⑩	MXS2338-P122 (Ex)	28,0	25,4	46,3	198	210
⑪	MXS2340-F152	38,0	35,0	59,4	383	383
⑫	MXS2341-F152	38,0	35,0	59,4	383	383
⑬	MXS2342-F152	38,0	35,0	59,4	383	383
⑭	MXS2344-F152	38,0	35,0	59,4	383	383
⑮	MXS2345-F162	43,0	40,0	67,5	390	390
⑯	MXS2346-F162	43,0	40,0	67,5	390	390

MOTOR OUTPUT



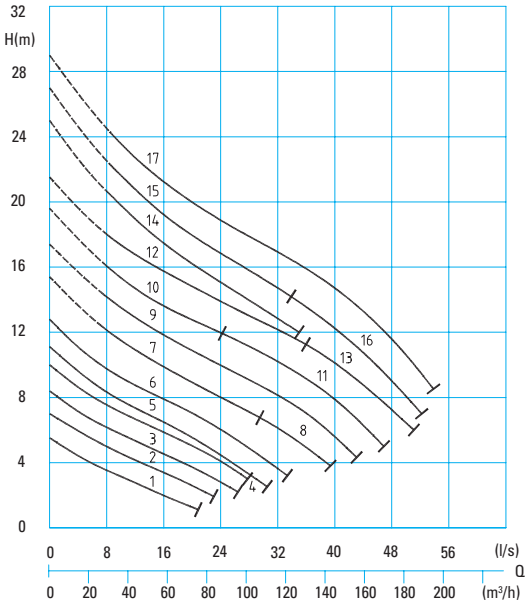
Technical data					DRY WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS2328-ET72 (Ex)	10,5	9,5	20,1	146	146
②	MXS2330-ET82 (Ex)	12,7	11,5	22,7	146	146
③	MXS2332-ET82 (Ex)	12,7	11,5	22,7	146	146
④	MXS2332-PU92 (Ex)	16,0	14,4	27,0	189	201
⑤	MXS2334-PU92 (Ex)	16,0	14,4	27,0	189	201
⑥	MXS2334-PU102 (Ex)	22,0	19,6	36,9	189	201
⑦	MXS2336-PU92 (Ex)	16,0	14,4	27,0	191	203
⑧	MXS2336-PU102 (Ex)	22,0	19,6	36,9	191	203
⑨	MXS2338-PU102 (Ex)	22,0	19,6	36,9	191	203
⑩	MXS2338-PU122 (Ex)	28,0	25,4	46,3	211	223
⑪	MXS2340-FU152	38,0	35,0	59,4	409	409
⑫	MXS2341-FU152	38,0	35,0	59,4	409	409
⑬	MXS2342-FU152	38,0	35,0	59,4	409	409
⑭	MXS2344-FU152	38,0	35,0	59,4	409	409
⑮	MXS2345-FU162	43,0	40,0	67,5	416	416
⑯	MXS2346-FU162	43,0	40,0	67,5	416	416

DN 100 - MXS23...-4 POLE

Enclosed single channel impeller

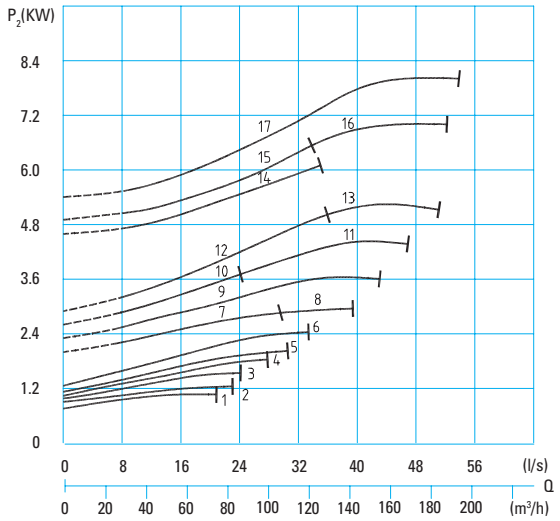
80 mm Ø Spherical clearance
1450 rpm

HYDRAULIC PERFORMANCE



Technical data					WET WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS2328-C24 (Ex)	1,7	1,3	3,3	74	74
②	MXS2330-C24(Ex)	1,7	1,3	3,3	74	74
③	MXS2332-D44 (Ex)	3,4	2,6	6,2	80	80
④	MXS2334-D44 (Ex)	3,4	2,6	6,2	80	80
⑤	MXS2336-D44 (Ex)	3,4	2,6	6,2	82	82
⑥	MXS2338-D44 (Ex)	3,4	2,6	6,2	82	82
⑦	MXS2340-T34 (Ex)	3,4	2,9	5,8	118	118
⑧	MXS2340-T44 (Ex)	4,4	3,7	7,7	122	122
⑨	MXS2342-T44 (Ex)	4,4	3,7	7,7	122	122
⑩	MXS2344-T44 (Ex)	4,4	3,7	7,7	122	122
⑪	MXS2344-T54 (Ex)	5,9	5,0	9,9	132	132
⑫	MXS2346-T54 (Ex)	5,9	5,0	9,9	132	132
⑬	MXS2346-T64 (Ex)	7,7	6,5	13,1	135	135
⑭	MXS2350-T64 (Ex)	7,7	6,5	13,1	142	142
⑮	MXS2351-T64 (Ex)	7,7	6,5	13,1	142	142
⑯	MXS2351-ET74 (Ex)	9,8	8,5	16,8	168	168
⑰	MXS2352-ET74 (Ex)	9,8	8,5	16,8	168	168

MOTOR OUTPUT



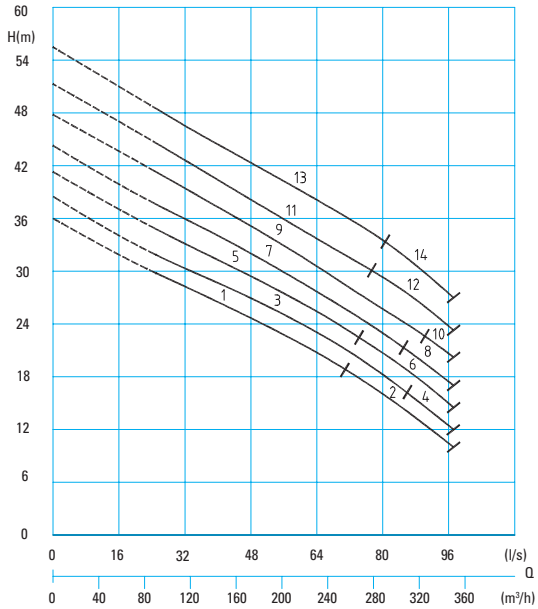
Technical data					DRY WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS2328-ET34 (Ex)	3,3	2,9	5,9	128	128
②	MXS2330-ET34 (Ex)	3,3	2,9	5,9	128	128
③	MXS2332-ET34 (Ex)	3,3	2,9	5,9	128	128
④	MXS2334-ET34 (Ex)	3,3	2,9	5,9	128	128
⑤	MXS2336-ET34 (Ex)	3,3	2,9	5,9	130	130
⑥	MXS2338-ET34 (Ex)	3,3	2,9	5,9	130	130
⑦	MXS2340-ET34 (Ex)	3,3	2,9	5,9	135	135
⑧	MXS2340-ET44 (Ex)	4,3	3,7	7,3	135	135
⑨	MXS2342-ET44 (Ex)	4,3	3,7	7,3	135	135
⑩	MXS2344-ET44 (Ex)	4,3	3,7	7,3	135	135
⑪	MXS2344-ET54 (Ex)	6,1	5,0	10,2	135	135
⑫	MXS2346-ET54 (Ex)	6,1	5,0	10,2	135	135
⑬	MXS2346-ET64 (Ex)	7,4	6,5	13,4	153	153
⑭	MXS2350-ET64 (Ex)	7,4	6,5	13,4	168	168
⑮	MXS2351-ET64 (Ex)	7,4	6,5	13,4	168	168
⑯	MXS2351-ET74 (Ex)	9,8	8,5	16,8	168	168
⑰	MXS2352-ET74 (Ex)	9,8	8,5	16,8	168	168

DN 100 - KX23...-4 POLE

Enclosed two channel impeller

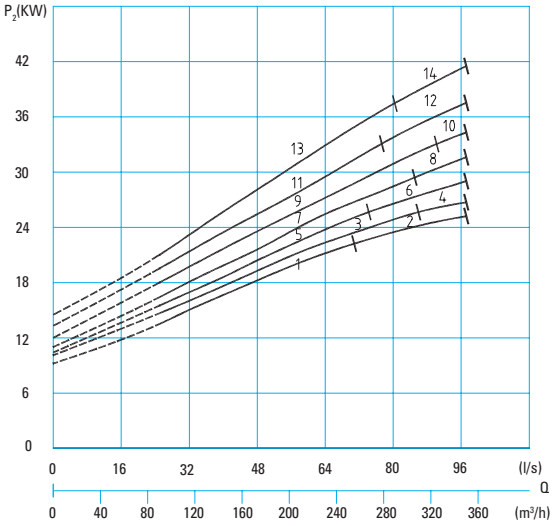
80 mm Ø Spherical clearance
1450 rpm

HYDRAULIC PERFORMANCE



Technical data					WET WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	KX2360-F114 (Ex)	25,0	22,0	44,0	429	429
②	KX2360-F124 (Ex)	29,1	25,6	51,4	451	451
③	KX2362-F124 (Ex)	29,1	25,6	51,4	452	452
④	KX2362-F134 (Ex)	32,8	29,2	59,0	467	467
⑤	KX2364-F124 (Ex)	29,1	25,6	51,4	453	453
⑥	KX2364-F134 (Ex)	32,8	29,2	59,0	468	468
⑦	KX2366-F134 (Ex)	32,8	29,2	59,0	469	469
⑧	KX2366-F144 (Ex)	37,1	33,0	67,1	484	484
⑨	KX2368-F144 (Ex)	37,1	33,0	67,1	485	485
⑩	KX2368-G154 (Ex)	41,1	37,4	70,4	502	502
⑪	KX2370-G144 (Ex)	37,1	33,0	67,1	486	486
⑫	KX2370-G154 (Ex)	41,1	37,4	70,4	503	503
⑬	KX2372-G154 (Ex)	41,1	37,4	70,4	504	504
⑭	KX2372-G174 (Ex)	50,1	46,1	84,3	532	532

MOTOR OUTPUT



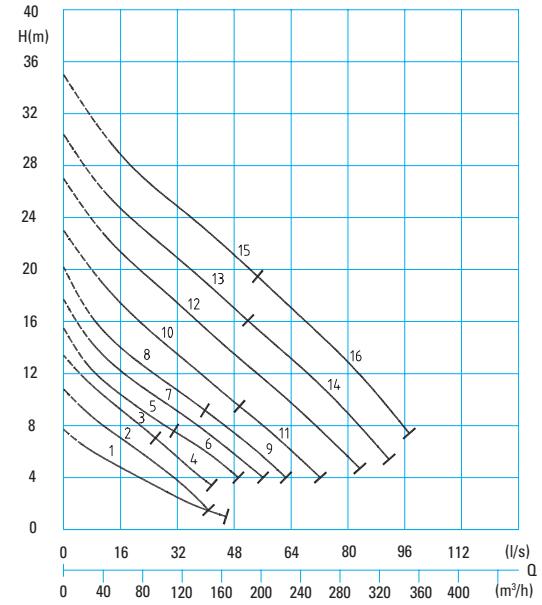
Technical data					DRY WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	KX2360-FU114 (Ex)	25,0	22,0	44,0	450	450
②	KX2360-FU124 (Ex)	29,1	25,6	51,4	477	477
③	KX2362-FU124 (Ex)	29,1	25,6	51,4	478	478
④	KX2362-FU134 (Ex)	32,8	29,2	59,0	493	493
⑤	KX2364-FU124 (Ex)	29,1	25,6	51,4	479	479
⑥	KX2364-FU134 (Ex)	32,8	29,2	59,0	494	494
⑦	KX2366-FU134 (Ex)	32,8	29,2	59,0	495	495
⑧	KX2366-FU144 (Ex)	37,1	33,0	67,1	510	510
⑨	KX2368-FU144 (Ex)	37,1	33,0	67,1	511	511
⑩	KX2368-GU154 (Ex)	41,1	37,4	70,4	528	528
⑪	KX2370-GU144 (Ex)	37,1	33,0	67,1	512	512
⑫	KX2370-GU154 (Ex)	41,1	37,4	70,4	529	529
⑬	KX2372-GU154 (Ex)	41,1	37,4	70,4	530	530
⑭	KX2372-GU174 (Ex)	50,1	46,1	84,3	561	561

DN 100 - MXS24...-4 POLE

Enclosed single channel impeller

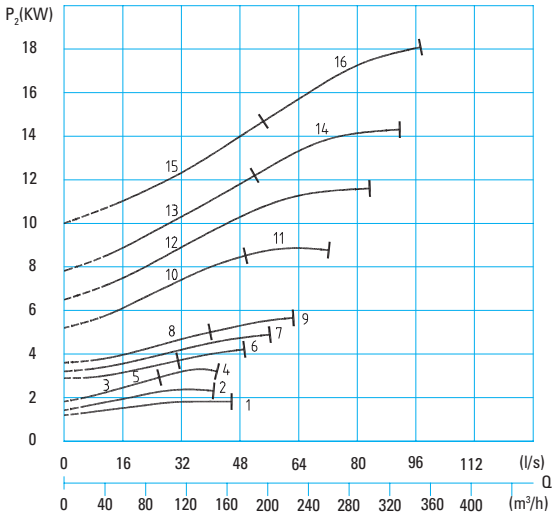
100 mm Ø Spherical clearance
1450 rpm

HYDRAULIC PERFORMANCE



Technical data					WET WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS2432-T34 (Ex)	3,4	2,9	5,8	102	102
②	MXS2436-T34 (Ex)	3,4	2,9	5,8	104	104
③	MXS2438-T34 (Ex)	3,4	2,9	5,8	104	104
④	MXS2438-T44 (Ex)	4,4	3,7	7,7	108	108
⑤	MXS2442-T44 (Ex)	4,4	3,7	7,7	129	129
⑥	MXS2442-T54 (Ex)	5,9	5,0	9,9	139	139
⑦	MXS2444-T54 (Ex)	5,9	5,0	9,9	139	139
⑧	MXS2446-T54 (Ex)	5,9	5,0	9,9	139	139
⑨	MXS2446-T64 (Ex)	7,7	6,5	13,1	142	142
⑩	MXS2450-ET74 (Ex)	9,8	8,5	16,8	184	184
⑪	MXS2450-P84 (Ex)	14,0	12,2	23,0	209	221
⑫	MXS2454-P84 (Ex)	14,0	12,2	23,0	209	221
⑬	MXS2457-P84 (Ex)	14,0	12,2	23,0	209	221
⑭	MXS2457-P94 (Ex)	17,0	14,6	28,8	209	221
⑮	MXS2460-P94 (Ex)	17,0	14,6	28,8	209	221
⑯	MXS2460-P104 (Ex)	22,0	19,3	36,5	231	243

MOTOR OUTPUT



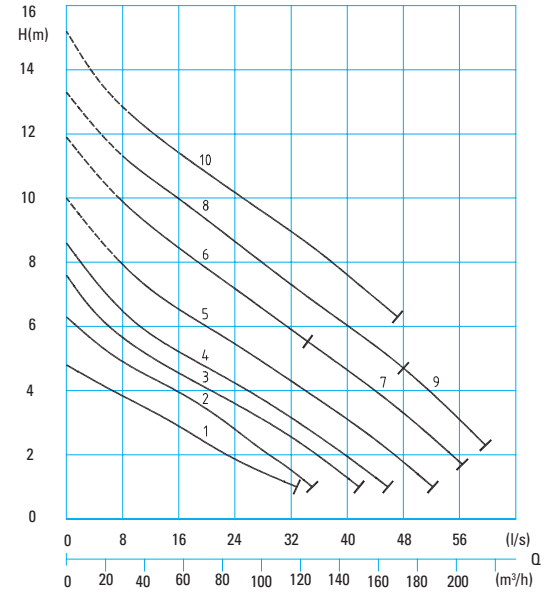
Technical data					DRY WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS2432-ET34 (Ex)	3,3	2,9	5,9	138	138
②	MXS2436-ET34 (Ex)	3,3	2,9	5,9	138	138
③	MXS2438-ET34 (Ex)	3,3	2,9	5,9	138	138
④	MXS2438-ET44 (Ex)	4,3	3,7	7,3	138	138
⑤	MXS2442-ET44 (Ex)	4,3	3,7	7,3	142	142
⑥	MXS2442-ET54 (Ex)	6,1	5,0	10,2	142	142
⑦	MXS2444-ET54 (Ex)	6,1	5,0	10,2	142	142
⑧	MXS2446-ET54 (Ex)	6,1	5,0	10,2	142	142
⑨	MXS2446-ET64 (Ex)	7,4	6,5	13,4	160	160
⑩	MXS2450-ET74 (Ex)	9,8	8,5	16,8	184	184
⑪	MXS2450-PU84 (Ex)	14,0	12,2	23,0	219	231
⑫	MXS2454-PU84 (Ex)	14,0	12,2	23,0	219	231
⑬	MXS2457-PU84 (Ex)	14,0	12,2	23,0	219	231
⑭	MXS2457-PU94 (Ex)	17,0	14,6	28,8	219	231
⑮	MXS2460-PU94 (Ex)	17,0	14,6	28,8	219	231
⑯	MXS2460-PU104 (Ex)	22,0	19,3	36,5	244	256

DN 100 - MXS24...-6 POLE

Enclosed single channel impeller

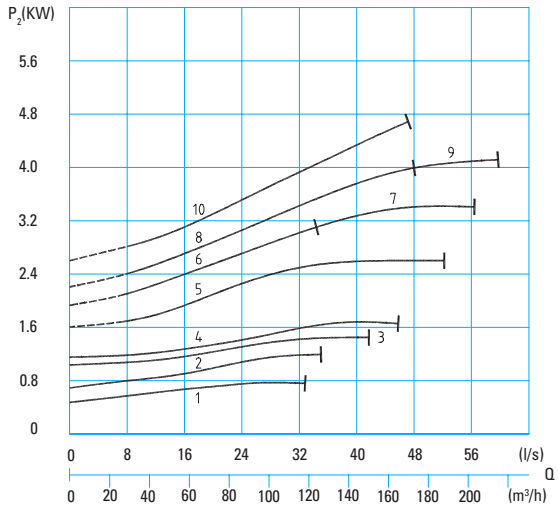
100 mm Ø Spherical clearance
960 rpm

HYDRAULIC PERFORMANCE



Technical data					WET WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS2436-T36 (Ex)	3,0	2,3	5,4	104	104
②	MXS2438-T36 (Ex)	3,0	2,3	5,4	104	104
③	MXS2444-T26 (Ex)	2,1	1,6	4,0	125	125
④	MXS2446-T36 (Ex)	3,0	2,3	5,4	125	125
⑤	MXS2450-T46 (Ex)	4,0	3,1	7,3	145	145
⑥	MXS2454-T46 (Ex)	4,0	3,1	7,3	145	145
⑦	MXS2454-T56 (Ex)	5,0	4,0	9,6	155	155
⑧	MXS2457-T56 (Ex)	5,0	4,0	9,6	155	155
⑨	MXS2457-T66 (Ex)	6,0	4,9	11,5	158	158
⑩	MXS2460-T66 (Ex)	6,0	4,9	11,5	158	158

MOTOR OUTPUT



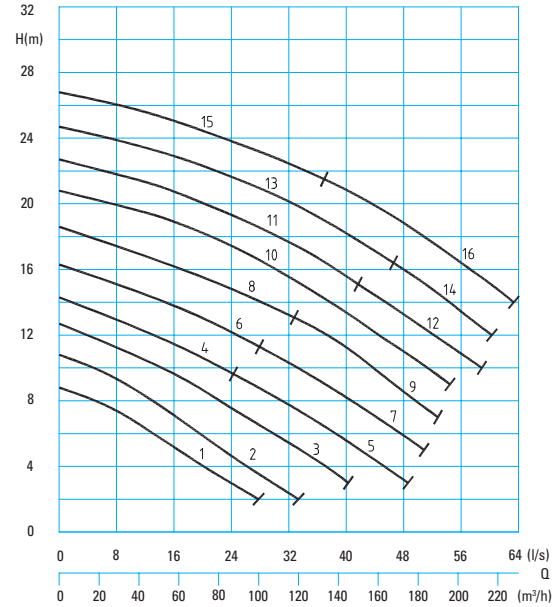
Technical data					DRY WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS2436-ET36 (Ex)	2,7	2,3	4,9	156	156
②	MXS2438-ET36 (Ex)	2,7	2,3	4,9	156	156
③	MXS2444-ET26 (Ex)	1,8	1,6	3,8	160	160
④	MXS2446-ET36 (Ex)	2,7	2,3	4,9	160	160
⑤	MXS2450-ET46 (Ex)	3,6	3,1	6,6	184	184
⑥	MXS2454-ET46 (Ex)	3,6	3,1	6,6	184	184
⑦	MXS2454-ET56 (Ex)	4,7	4,0	8,3	184	184
⑧	MXS2457-ET56 (Ex)	4,7	4,0	8,3	184	184
⑨	MXS2457-ET66 (Ex)	5,9	4,9	10,3	184	184
⑩	MXS2460-ET66 (Ex)	5,9	4,9	10,3	184	184

DN 100 - VX24...-4 POLE

Vortex impeller

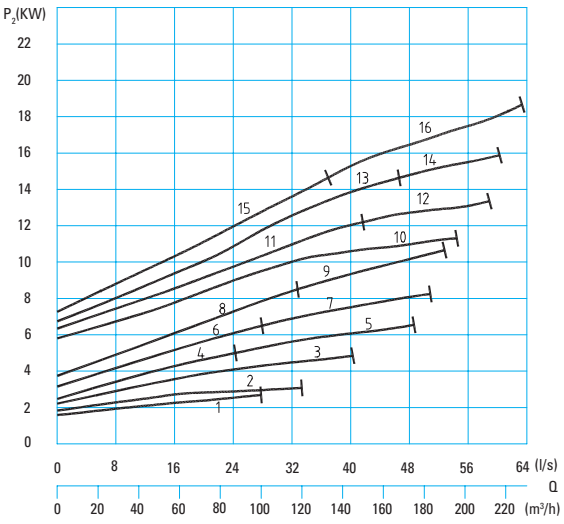
100 mm Ø Spherical clearance
1450 rpm

HYDRAULIC PERFORMANCE



Technical data						WET WELL INSTALLATION
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	VX2436-D54 (Ex)	4,0	3,2	7,3	78	78
②	VX2439-D54 (Ex)	4,0	3,2	7,3	78	78
③	VX2440-T54 (Ex)	5,9	5,0	9,9	123	123
④	VX2442-T54 (Ex)	5,9	5,0	9,9	123	123
⑤	VX2442-T64 (Ex)	7,7	6,5	13,1	126	126
⑥	VX2444-T64 (Ex)	7,7	6,5	13,1	126	126
⑦	VX2444-ET74 (Ex)	9,8	8,5	16,8	144	144
⑧	VX2446-ET74 (Ex)	9,8	8,5	16,8	144	144
⑨	VX2446-P84 (Ex)	14,0	12,2	23,0	177	189
⑩	VX2452-P84 (Ex)	14,0	12,2	23,0	205	217
⑪	VX2454-P84 (Ex)	14,0	12,2	23,0	205	217
⑫	VX2454-P94 (Ex)	17,0	14,6	28,8	205	217
⑬	VX2456-P94 (Ex)	17,0	14,6	28,8	205	217
⑭	VX2456-P104 (Ex)	22,0	19,3	36,5	227	239
⑮	VX2458-P94 (Ex)	17,0	14,6	28,8	205	217
⑯	VX2458-P104 (Ex)	22,0	19,3	36,5	227	239

MOTOR OUTPUT

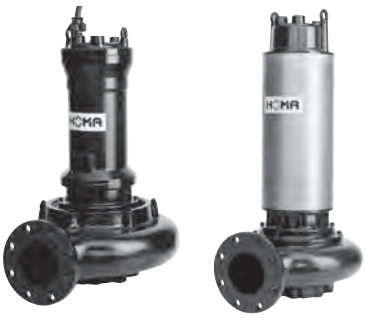


Technical data						DRY WELL INSTALLATION
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	VX2436-ET44 (Ex)	4,3	3,7	7,3	123	123
②	VX2439-ET44 (Ex)	4,3	3,7	7,3	123	123
③	VX2440-ET54 (Ex)	6,1	5,0	10,2	126	126
④	VX2442-ET54 (Ex)	6,1	5,0	10,2	126	126
⑤	VX2442-ET64 (Ex)	7,4	6,5	13,4	144	144
⑥	VX2444-ET64 (Ex)	7,4	6,5	13,4	144	144
⑦	VX2444-ET74 (Ex)	9,8	8,5	16,8	144	144
⑧	VX2446-ET74 (Ex)	9,8	8,5	16,8	144	144
⑨	VX2446-PU84 (Ex)	14,0	12,2	23,0	187	199
⑩	VX2452-PU84 (Ex)	14,0	12,2	23,0	215	227
⑪	VX2454-PU84 (Ex)	14,0	12,2	23,0	215	227
⑫	VX2454-PU94 (Ex)	17,0	14,6	28,8	215	227
⑬	VX2456-PU94 (Ex)	17,0	14,6	28,8	215	227
⑭	VX2456-PU104 (Ex)	22,0	19,3	36,5	240	252
⑮	VX2458-PU94 (Ex)	17,0	14,6	28,8	215	227
⑯	VX2458-PU104 (Ex)	22,0	19,3	36,5	240	252

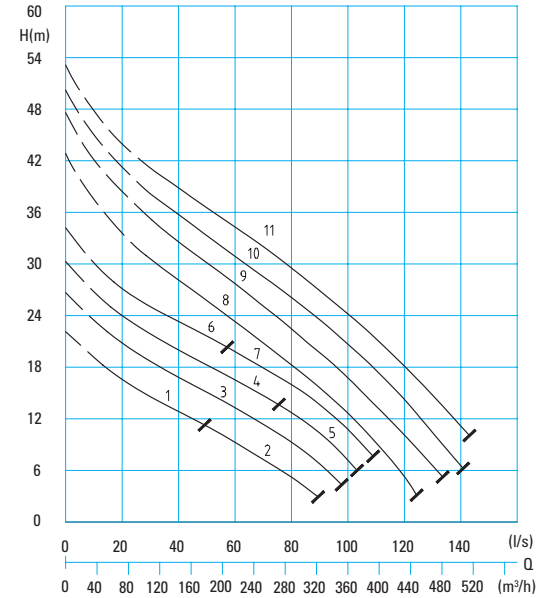
DN 150 - MX(S)34...-4 POLE

Enclosed single channel impeller

100 mm Ø Spherical clearance
1450 rpm

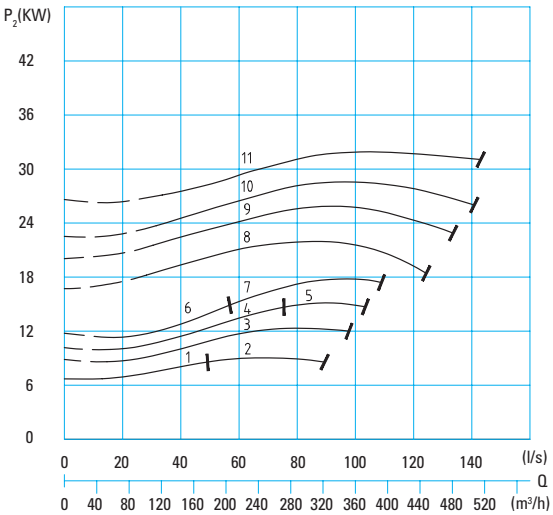


HYDRAULIC PERFORMANCE



Technical data						WET WELL INSTALLATION
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS3450-ET74 (Ex)	9,8	8,5	16,8	202	202
②	MXS3450-P84 (Ex)	14,0	12,2	23,0	227	239
③	MXS3454-P84 (Ex)	14,0	12,2	23,0	227	239
④	MXS3457-P94 (Ex)	17,0	14,6	28,8	227	239
⑤	MXS3457-P104 (Ex)	22,0	19,3	36,5	249	261
⑥	MXS3460-P94 (Ex)	17,0	14,6	28,8	227	239
⑦	MXS3460-P104 (Ex)	22,0	19,3	36,5	249	261
⑧	MXS3468-F114 (Ex)	25,0	22,0	44,0	388	388
⑨	MXS3470-F124 (Ex)	29,1	25,6	51,4	410	410
⑩	MXS3472-F134 (Ex)	32,8	29,2	59,0	420	420
⑪	MXS3474-F144 (Ex)	37,1	33,0	67,1	430	430

MOTOR OUTPUT



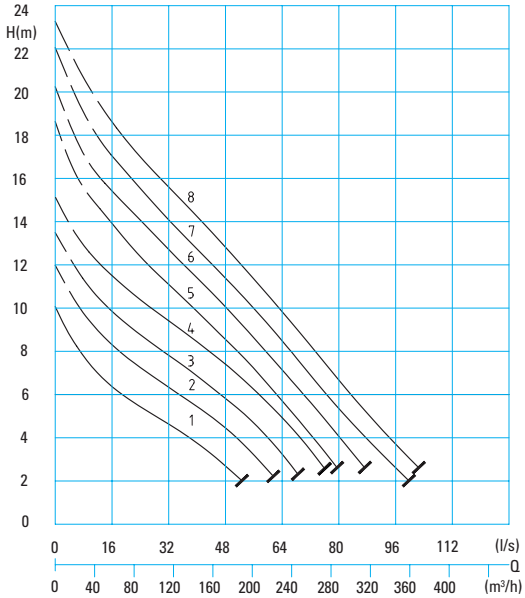
Technical data						DRY WELL INSTALLATION
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS3450-ET74 (Ex)	9,8	8,5	16,8	202	202
②	MXS3450-PU84 (Ex)	14,0	12,2	23,0	237	249
③	MXS3454-PU84 (Ex)	14,0	12,2	23,0	237	249
④	MXS3457-PU94 (Ex)	17,0	14,6	28,8	237	249
⑤	MXS3457-PU104 (Ex)	22,0	19,3	36,5	262	274
⑥	MXS3460-PU94 (Ex)	17,0	14,6	28,8	237	249
⑦	MXS3460-PU104 (Ex)	22,0	19,3	36,5	262	274
⑧	MXS3468-FU114 (Ex)	25,0	22,0	44,0	409	409
⑨	MXS3470-FU124 (Ex)	29,1	25,6	51,4	436	436
⑩	MXS3472-FU134 (Ex)	32,8	29,2	59,0	436	436
⑪	MXS3474-FU144 (Ex)	37,1	33,0	67,1	456	456

DN 150 - MXS34...-6 POLE

Enclosed single channel impeller

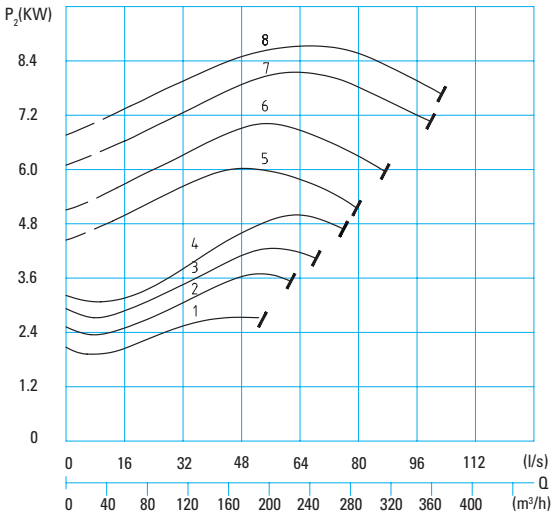
100 mm Ø Spherical clearance
960 rpm

HYDRAULIC PERFORMANCE



Technical data						WET WELL INSTALLATION
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS3450-P76 (Ex)	9,0	7,3	16,3	222	234
②	MXS3454-P76 (Ex)	9,0	7,3	16,3	222	234
③	MXS3457-P76 (Ex)	9,0	7,3	16,3	222	234
④	MXS3460-P76 (Ex)	9,0	7,3	16,3	222	234
⑤	MXS3468-P76 (Ex)	9,0	7,3	16,3	267	279
⑥	MXS3470-P76 (Ex)	9,0	7,3	16,3	267	279
⑦	MXS3472-P86 (Ex)	12,0	10,0	22,4	284	297
⑧	MXS3474-P86 (Ex)	12,0	10,0	22,4	284	297

MOTOR OUTPUT



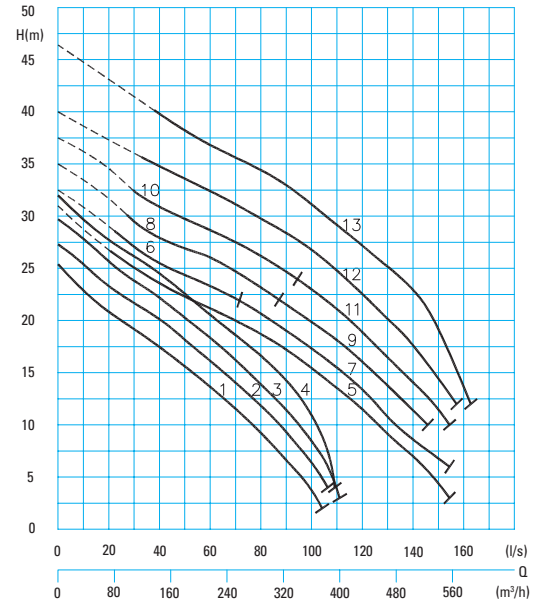
Technical data						DRY WELL INSTALLATION
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS3450-PU76 (Ex)	9,0	7,3	16,3	222	234
②	MXS3454-PU76 (Ex)	9,0	7,3	16,3	222	234
③	MXS3457-PU76 (Ex)	9,0	7,3	16,3	222	234
④	MXS3460-PU76 (Ex)	9,0	7,3	16,3	222	234
⑤	MXS3468-PU76 (Ex)	9,0	7,3	16,3	267	279
⑥	MXS3470-PU76 (Ex)	9,0	7,3	16,3	267	279
⑦	MXS3472-PU86 (Ex)	12,0	10,0	22,4	284	297
⑧	MXS3474-PU86 (Ex)	12,0	10,0	22,4	284	297

DN 150 - K33...-4 POLE

Enclosed two channel impeller

80 mm Ø Spherical clearance
1450 rpm

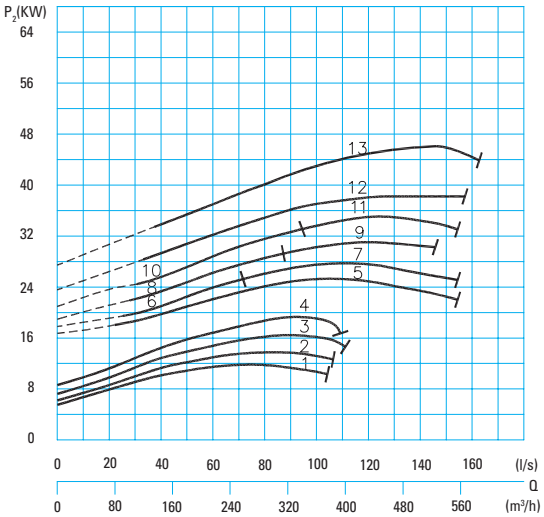
HYDRAULIC PERFORMANCE



Technical data WET WELL INSTALLATION

Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	K3352-P94 (Ex)	17,0	14,6	28,8	216	228
②	K3354-P94 (Ex)	17,0	14,6	28,8	216	228
③	K3356-P104 (Ex)	22,0	19,3	36,5	234	246
④	K3358-P104 (Ex)	22,0	19,3	36,5	234	246
⑤	K3360-F124 (Ex)	29,1	25,6	51,4	418	418
⑥	K3362-F124 (Ex)	29,1	25,6	51,4	418	418
⑦	K3362-F134 (Ex)	32,8	29,2	59,0	428	428
⑧	K3364-F134 (Ex)	32,8	29,2	59,0	428	428
⑨	K3364-F144 (Ex)	37,1	33,0	67,1	449	449
⑩	K3366-F144 (Ex)	37,1	33,0	67,1	449	449
⑪	K3366-G154 (Ex)	41,1	37,4	70,4	486	486
⑫	K3368-G154 (Ex)	41,1	37,4	70,4	486	486
⑬	K3370-G174 (Ex)	50,1	46,1	84,3	528	528

MOTOR OUTPUT



Technical data DRY WELL INSTALLATION

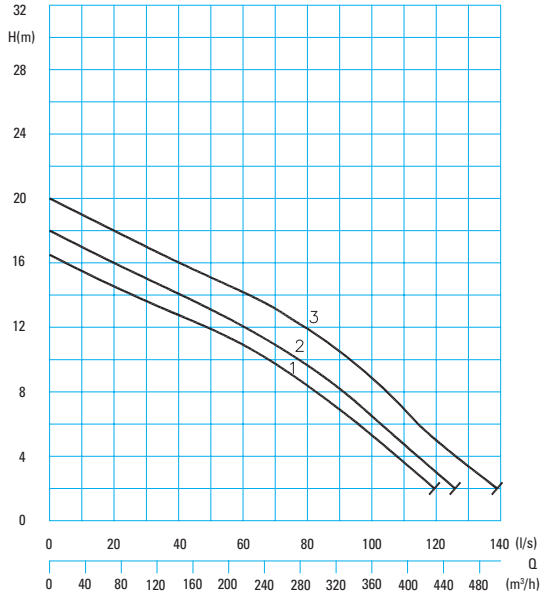
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	K3352-PU94 (Ex)	17,0	14,6	28,8	224	236
②	K3354-PU94 (Ex)	17,0	14,6	28,8	224	236
③	K3356-PU104 (Ex)	22,0	19,3	36,5	244	256
④	K3358-PU104 (Ex)	22,0	19,3	36,5	244	256
⑤	K3360-FU124 (Ex)	29,1	25,6	51,4	444	493
⑥	K3362-FU124 (Ex)	29,1	25,6	51,4	444	493
⑦	K3362-FU134 (Ex)	32,8	29,2	59,0	454	503
⑧	K3364-FU134 (Ex)	32,8	29,2	59,0	454	503
⑨	K3364-FU144 (Ex)	37,1	33,0	67,1	475	524
⑩	K3366-FU144 (Ex)	37,1	33,0	67,1	475	524
⑪	K3366-GU154 (Ex)	41,1	37,4	70,4	512	555
⑫	K3368-GU154 (Ex)	41,1	37,4	70,4	512	555
⑬	K3370-GU174 (Ex)	50,1	46,1	84,3	557	610

DN 150 - K33...-6 POLE

Enclosed two channel impeller

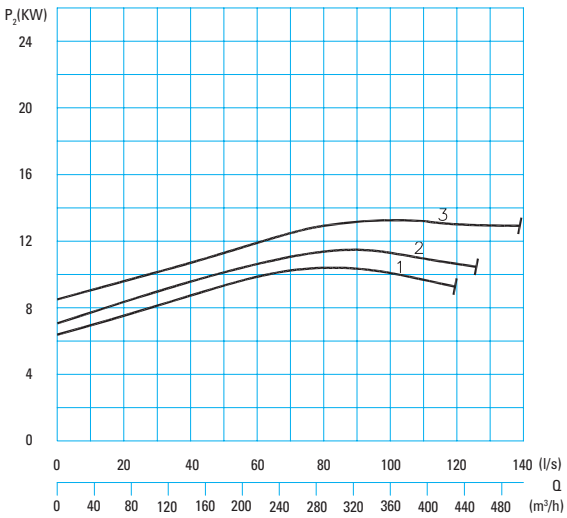
80 mm Ø Spherical clearance
960 rpm

HYDRAULIC PERFORMANCE



Technical data					WET WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	K3366-P96 (Ex)	16,0	13,6	29,4	280	292
②	K3368-P96 (Ex)	16,0	13,6	29,4	280	292
③	K3370-P96 (Ex)	16,0	13,6	29,4	280	292

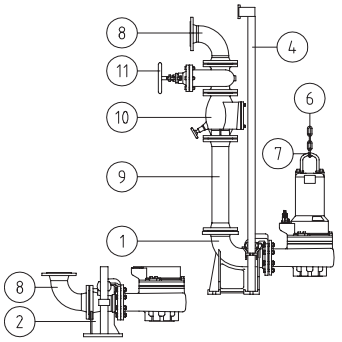
MOTOR OUTPUT



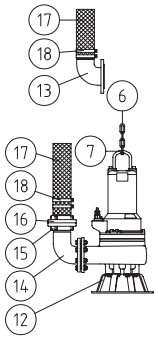
Technical data					DRY WELL INSTALLATION	
Curve No.	Pump type	P_1 (kW)	Motor P_2 (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	K3366-PU96 (Ex)	16,0	13,6	29,4	288	300
②	K3368-PU96 (Ex)	16,0	13,6	29,4	288	300
③	K3370-PU96 (Ex)	16,0	13,6	29,4	288	300

Unlimited applications: Stainless steel submersible pumps for chemically aggressive media (see separate brochure).

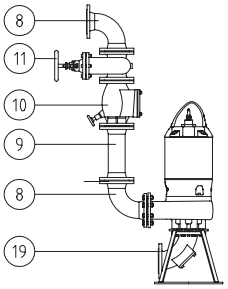
ACCESSORIES



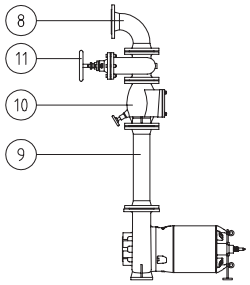
Permanent wet well installation with auto-coupling system



Transportable wet well installation



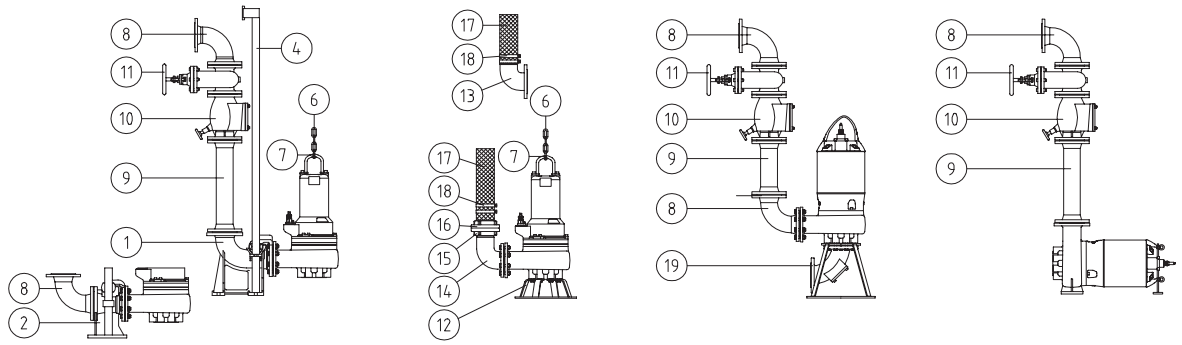
Permanent dry well installation vertical



Permanent dry well installation horizontal

No.	Description	Type	Dimension	Part No.
❶	Auto-coupling system, cast iron, consisting of auto-coupling with flanged elbow, flanged pump coupling and upper slide rail bracket Execution (Material): - 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/DN 100 DN 100 DN 100 / DN 80 DN 150 DN 150 / DN 100 DN 200 / DN 150	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/DN 100 DN 100 DN 100 / DN 80 DN 150 DN 150 / DN 100 DN 200 / DN 150	8604026 8604031 8604056 8604061 8604071 8604073 8604106
	- Complete stainless steel	KKC 80/80 KKC 100/100 KKC 150/150	DN 80 DN 100 DN 150	8604027 8604057 8604072
❷	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 / DN 100 DN 100 DN 150 DN 200 / DN 150	8604045 8604065 8604075 8604083
	Intermittend slide rail - Cast iron		1½" for DN 100 2" for DN 150 2½" for DN 200	7322931 7320121A 7322911
	- Stainless steel		1½" for DN 80 1½" for DN 100 2" for DN 150	7323854A 7320355B 7323974B
❹	Guide rails Guide rails (A4 stainless steel) for coupling systems in corresponding sizes and lengths of 3 m and 6 m			on request
❻ ❼	Pump chain set - Single row, tested, load bearing capacity up to 320 kg Pitch 984 mm, 4x12 with shackle		2 m 3 m 4 m 5 m 6 m 8 m	2800362.02 2800362.03 2800364.04 2800362.05 2800362.06 2800362.08
	Pump chain set - Dual row, tested, load bearing capacity up to 320 kg Pitch 984 mm, 4x12 with shackle		4 m 5 m 6 m 8 m	2800367.04 2800367.05 2800367.06 2800367.08
	Pump chain set - Dual row, tested, load bearing capacity up to 560 kg Pitch 943 mm, 5x15 with shackle		4 m 6 m	2800365.04 2800365.06
	Pump chain set - Dual row, tested, load bearing capacity up to 850 kg Pitch 998 mm, 6x18 with shackle		6 m	2800366.06

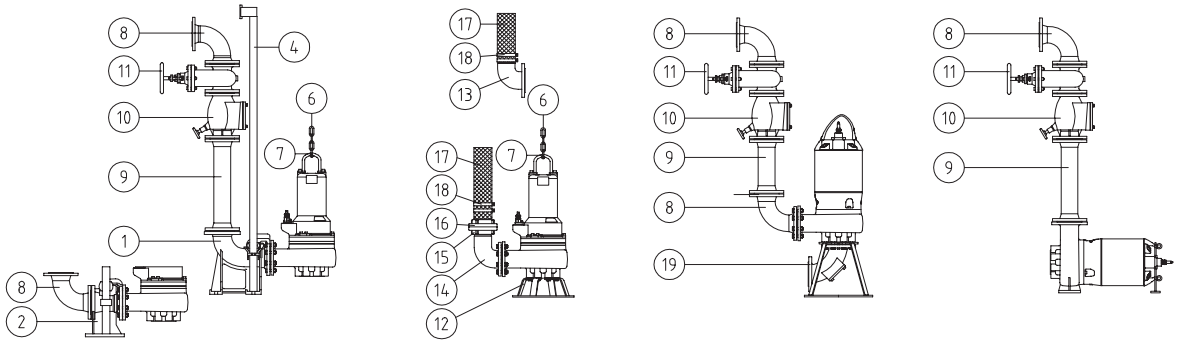
ACCESSORIES



Permanent wet well installation with auto-coupling system | Transportable wet well installation | Permanent dry well installation vertical | Permanent dry well installation horizontal

No.	Description	Type	Dimension	Part No.
❽	90° flanged elbow - with 2 flanges (Q-piece)		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 / 100 / 80 DN 100 / 100 / 100 DN 100 / 125 / 100 DN 100 / 150 / 100 DN 150 / 150 / 150 DN 200 / 200 / 200	on request
❾	Discharge pipe - with 2 flanged (FF-piece) 1m, 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	2150080 2150100 2150125 2150150 2150200
	- Flanged reducer (FFR-piece)		on request	
❿	Flanged swing check valve - cast iron		DN 80 DN 100 DN 125 DN 150 DN 200	2212807 2212809 2212810 2212811 2212816
⓫	Flanged gate valve - cast iron		DN 80 DN 100 DN 125 DN 150 DN 200	2216080 2216100 on request 2216150 2216200
⓬	Ring base stand	NB 100 A (up to 22kW P1) NB 100 B NB 150 A (up to 22kW P1) NB 150	DN 100 DN 100 DN 150 DN 150	7321215 7324855 7321285 7321275
⓭	Flanged spigot elbow with gasket and fixing bolts		DN 100 / 100 mm	on request
⓮	90° elbow		R3“ IG/AG	2111805
	Double nipple		R3“ AG	2128030
	Threaded flange		DN80 / R3“ IG	2215080
	Flanged to thread elbow with gasket and fixing bolts		DN100 x R4“ AG DN150 x R6“ AG	on request 6001205
⓯	STORZ-fixed coupling		B-G3“ IG A-G4“ IG F-G6“ IG	2010602 2010701 2010961

ACCESSORIES



Permanent wet well installation with auto-coupling system | Transportable wet well installation | Permanent dry well installation vertical | Permanent dry well installation horizontal

No.	Description	Type	Dimension	Part No.
⓰	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
⓱	Reinforced hose (inner dia. in mm)		75 mm 110 mm 150 mm	2632075 2632110 2632150
	Hose with pre-attached couplings		on request	
⓲	Hose bands		T 70-90-13 S100 / 20 GBS 112-121/25 GBS 168-174/30	2309013 2310020 2311520 2317520
⓳	Flanged pump stand with gasket and fixing bolts	TVS 100 A (up to 18 kW) TVS 150 A	DN 100 DN 150	7321705 7321725
	Pump stand with suction elbow, cleaning hole, gasket and fixing bolts	TVS 100 A-R (up to 22kW P1) TVS 100 A-R TVS 150 A-R (up to 22kW P1) TVS150-R TVS 150/200 A-R (up to 22kW P1) TVS150/200-R	DN 100 DN 100 DN 150 DN 150 DN 150 / DN 200 DN 150 / DN 200	8604220 8604221 8604225 8604230 8604232 8604235
	Screw kit with gaskets - galvanized steel		DN 80 DN 100 DN 150	2214080 2214100 2214150
	- Stainless steel		DN 80 DN 100 DN 150	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.

NOTES

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
- Injector systems for tank cleaning
- Garden pumps and domestic booster units
- Propeller pumps
- Control boxes

In operation worldwide

HOMA pumps and systems are employed in over 100 countries worldwide – in a myriad of projects, large and small, including the Palm Islands in Dubai. They meet all international safety and production standards and are certified by the relevant state or private bodies for waste water disposal.
It is one of our main objectives to maintain and extend this high standard at all times.

Sales and service network

HOMA stays close to its customers through a comprehensive network of professional sales and service agencies.
HOMA also makes selecting and designing pump systems as straightforward as possible through HOP.SEL, our specially developed software, available free of charge online.

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HOMA PUMP TECHNOLOGY

0.0/0126 (DU)- 1.0/0124 (fly) gra Nr. 0033075GB

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