PUMPS FOR WASTE WATER SYSTEMS

SUBMERSIBLE PUMPS FOR WASTE WATER AND SEWAGE

K and KX series | Discharge connector DN 200 - DN 500

HOMA PUMP TECHNOLOGY

HOMA: QUALITY PRODUCTSFORWASTE WATER SYSTEMS

HIGH EFFICIENCYAND 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.

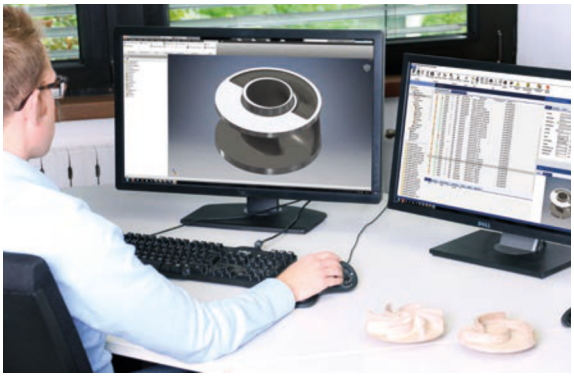
INDIVIDUAL POSSIBILITIES, OPTIMUM SOLUTIONS

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.



New developments are produced in the HOMA R&D centre on advanced 3D CAD systems.

Before delivery, the finished units are put through their paces in the high tech test centre. This guarantees HOMA quality as you know it.

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.

- 3Industrial waste water
- 3Sewage treatment plants
- 3Large scale pump stations
- 3Industrial applications
- 3Oil and gas
- 3Power station construction
- 3Mining
- 3Chemical processes
- 3Shipbuilding/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:

- 3A range of different impellers, depending on the medium being conveyed, e.g. special symmetries, hardened materials and ceramic coatings
- 3Motors suitable for continuous operation, with or without cooling jackets
- 333333High grade materials
- 3Robust construction

FOR GREATER SAFETY AND DURABILITY

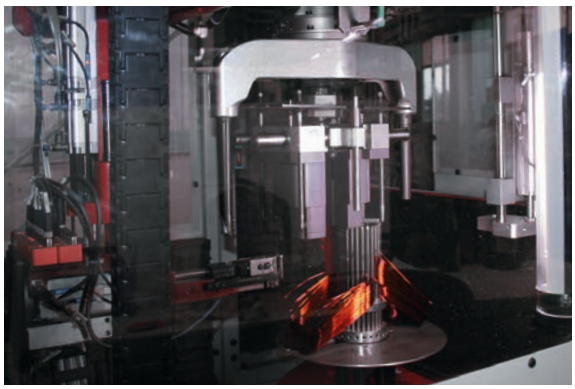
MORE BENEFITS IN ALL OPERATING MODES

For operating mode S1 (continuous operation), the motors are designed with a maximum switching frequency of 15 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.

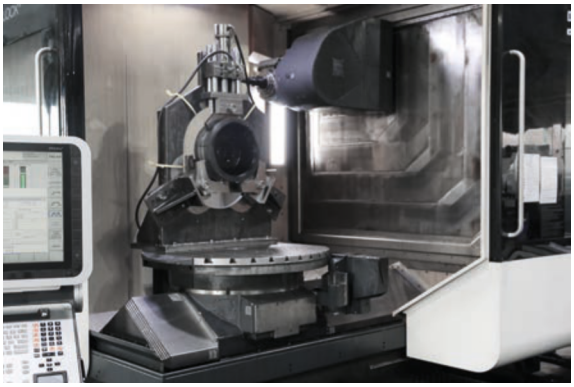
Hydraulics with single-channel impellers are suitable for intermittent operation (i.e. generally for level-controlled automatic sump operation) and continuous operation. Vortex or multi-channel impellers are the right choice for continuous operation in particular, e.g. for industrial service water supply.

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.



Our own motor winding shop enables production in all voltages and frequencies.

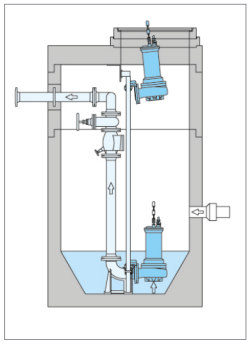


Mechanical processing of all components at our own factory using high tech precision machines results in greater efficiency and flexibility.

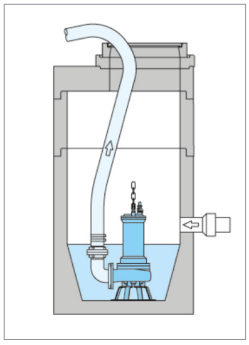
DIFFERENT INSTALLATION TYPES ALLOW GREATER EASE OF SERVICE

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.



Stationary wet well installation



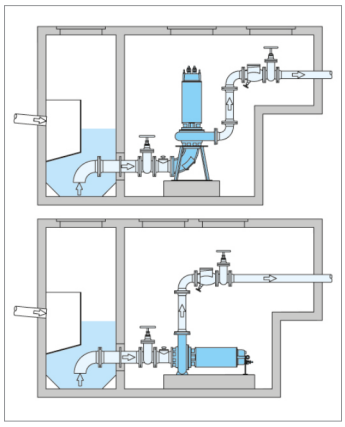
Mobile wet well installation

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.



GREATER RELIABILITY THROUGH INTELLIGENT ACCESSORIES

VICON: ENSURING A LONG PUMP SERVICELIFE

Status monitoring of electrical machines is of considerable importance where quality, reliability, energy savings and targeted repair play a significant role. Submersible pumps are a special case since they are immersed in the medium being handled. Carrying out repair and maintenance is often extremely difficult. Furthermore, high reliability without pump downtimes is essential. With HOMA VICON, the pump and system are constantly and reliably monitored, and any faults or damage are detected at an early stage.

For example, HOMA VICON registers any blockage or damage to the hydraulics, unfavourable or defective operating points, and bearing damage or pipework problems, and indicates these issues or, if necessary, switches the pump off. By optimising the system and detecting adverse operating conditions in good time, HOMA VICON helps to save energy and reduce lifecycle costs.

Reliable monitoring – the integral HOMA VICONpump vibration diagnostic system.

For aggressive chemical media: the stainless steel submersible pump range from HOMA.

Final assembly – the last step – also requires the utmost care.

THE HIGH PRESSURECLEANING DEVICE FORTHE 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 FV30 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.

Optionally available with connection for automatic HOMA FVflush valve.

SERIES AND PUMP TYPES

MOTOR SELECTION

Rotational speeds:
Depending on their hydraulics, the motors are sized for the following rotational speeds.

•31470 rpm33333333= 4-pole
•3960-980 rpm3= 6-pole
•3680-740 rpm3= 8-pole
•3590 rpm3= 10-pole
•3490 rpm3= 12-pole

Voltages:
All performance data refers to an operating voltage of 400 V/3 Ph 50 Hz. Other 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 availablefor frequency converter and soft start operation.

Explosion protection:
Depending on component assembly, also available as explosion-proof versions in accordance with Directive 2014/34/EU for equipment group ||, category 2G, gas group ||B and temperature class T4(T3).

Dry installation:
In addition to the standard version for immersion, all motors are also availablefor dry installation with cooling jacket.

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

Motors for wet well installation:
With oil chamber monitoring probe. With moisture monitoring of the cable connection chamber (for the engines P EX, F + F EX, G + G EX). Optionally with moisture monitoring of the stator chamber (version S).

Motor with cooling jacket:
Supplied as standard with oil chamber monitoring probe.

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

KEY TO DESIGNATIONS

Series3Impeller design3Discharge	connector	Ball passage3	Impeller diameter	Motor size3	Water-cooled motor	Motor input	Rotational speed	Monitoring33333333	Explosion-proof motor
Pump				Motor					
K(X)&&&&&&&&&4&4&80-&H&(U)&26&&&&&4&(S)&(EX)									
K, KX Closed multi-channel impeller	4 = 200 mm 5 = 250 mm 6 = 300 mm 8 = 400 mm 10 = 500 mm	4 = 100 mm 5 = 130 mm 6 = 150 mm 165 mm 8 = 200 mm	(mm : 5) e.g. 80 = 400 mm	F, G, H, R, P3	Motor with cooling jacket for dry installation U = cooling of the medium		4 = 4-pole 6 = 6-pole 8 = 8-pole 10 = 10-pole 12 = 12-pole	S = stator chamber moisture monitoring	

SERIES AND HYDRAULICS

HYDRAULIC SELECTION

Discharge and suction connector:

- 3DN 200
- 3DN 250
- 3DN 300
- 3DN 400
- 3DN 500

Reducers for coupling systems and valves with different dimensions can be provided.

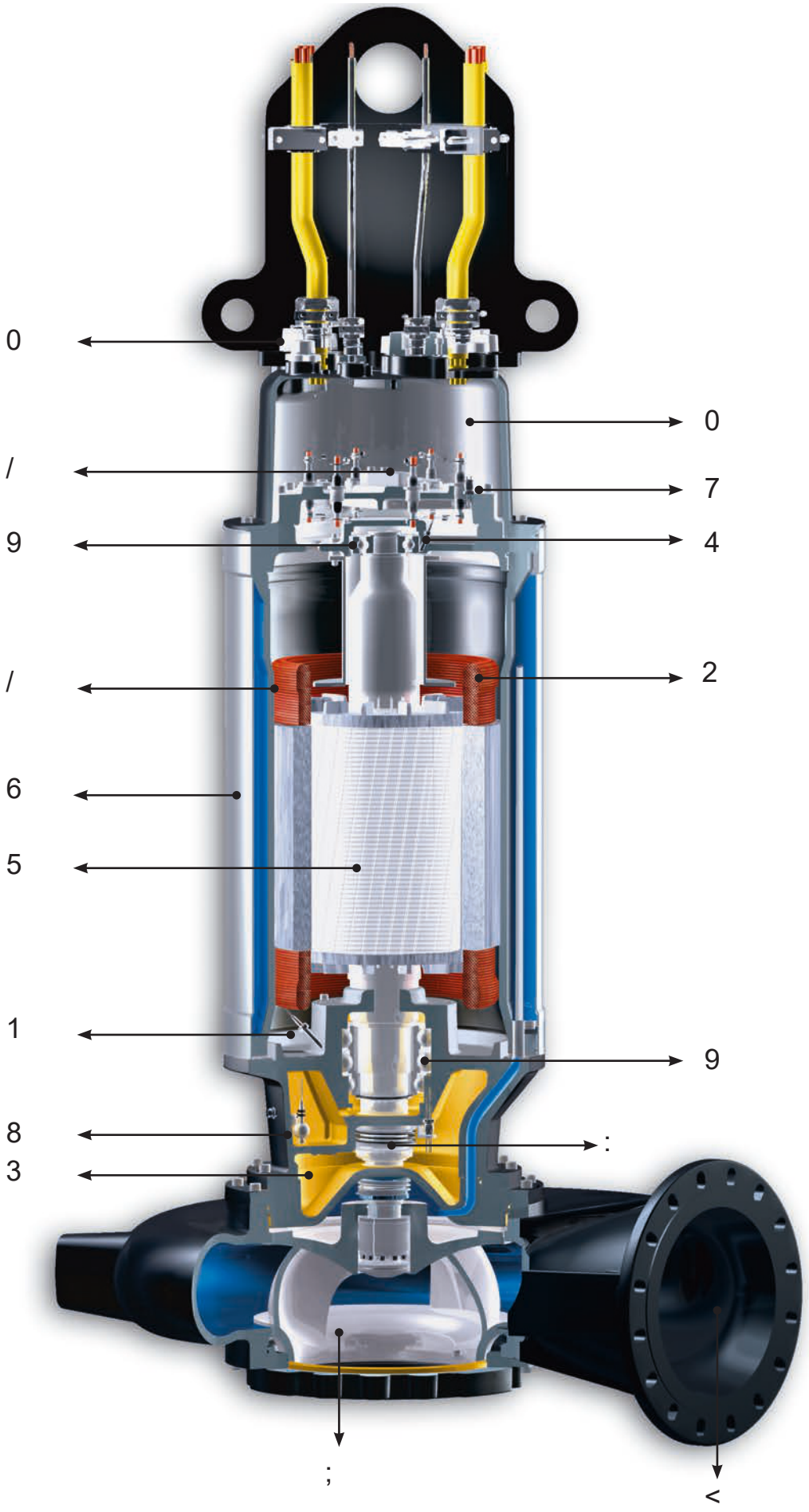
Impellers:
Various types of impellers are available for optimum matching to the operating conditions and the medium being handled.

Impeller passages:
Depending on pump type, 100 mm to 200 mm free ball passage.

K(X)
Closed multi-channel impeller

For soiled and sludge-containing pumped media with solids.

DESIGN – WELL THOUGHT OUT AT EVERY STAGE



SUPERIORMATERIAL 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.

< DISCHARGE

With DIN flange DN 200 to DN 500 (PN 10).

; BLOCKAGE-RESISTANT IMPELLERS

Closed multi-channel impeller with replaceable wear ring and large free passage

: SHAFT SEAL

Two mechanical seals, acting independently of one another, arranged in tandem.

3 OIL CHAMBER

Oil filled sealing chamber with check-up option via inspection screw. All engines with seal monitoring in the oil chamber as standard.

· MOTOR

Three-phase electric motors with 4-, 6-, 8-, 10- or 12-pole winding. Insulation class of winding H (180 ºC), protection rating IP 68.

EXPLOSION PROTECTION

All motors are also available as explosion-proof versions in accordance with Directive 2014/34/EU for equipment group II, category 2G, gas group IIB and temperature class T4(T3).

- MOTOR COOLING

Motors in standard version with surface cooling in immersion operation. For dry installation or surface operation with cooling jacket, with open cooling circuit through the pumped medium (U version).

2 THERMAL SENSOR (BIMETALLIC)

As standard in the motor winding for temperature monitoring in all models. PTC thermistor or Pt100 on request.

8 MOISTURE MONITORING OF THE STATOR CHAMBER (S VERSION)

On request.

9 SHAFT BEARINGS

Robust, maintenance-free, permanently lubricated roller bearings.

4 TEMPERATURE MONITORING

of the shaft bearings on request.

1 JUNCTION CHAMBER

Encapsulated cable connection compartment, sealed against pressurised water. Except for P and PU versions.

7 ELECTRONIC MOISTURE SENSOR IN JUNCTION CHAMBER

Standard on P EX, F + F EX, G + G EX engines

0 CABLE INLET SEALED AGAINST PRESSURISED WATER

/ ANTI-CONDENSATION HEATER FOR CABLE JUNCTION CHAMBER AND STATOR CHAMBER

On request.

MATERIALS

Motor housing	Grey cast iron EN-GJL-250 2)
Pump housing	Grey cast iron EN-GJL-250 2) Grey cast iron EN-GJL-400-15 1)
Impeller	Grey cast iron EN-GJL-250 2) 3) Grey cast iron EN-GJL-400-15 1)
Wear ring	Bronze/stainless steel
Motor shaft	Stainless steel
Mechanical seal	Silicon carbide/silicon carbide
Cooling jacket (with U and L versions)	Stainless steel
Elastomers	NBR (Perbunan) 4)
Cable	H07RN-F (Plus) 5)

1) On request; standard for DN 400 hydraulics or higher

2) Also available in stainless steel

3) Also available in bronze

4) Also in FPM (Viton)

5) Screened power cable on request

DN 200/250 – SERIES– SELECTIONOVERVIEW

DN 200

Closed two-channel impeller

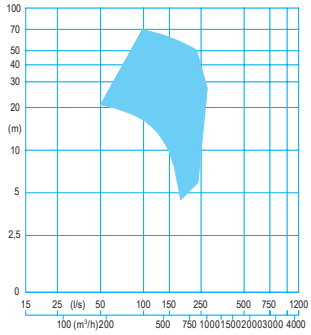
100 mm Ø

Ball passage

1470 rpm

PAGE 14

KX44... -4 pole



DN 200

Closed two-channel impeller

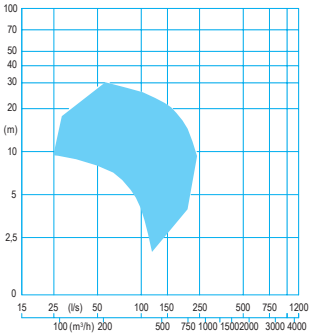
100 mm Ø

Ball passage

960 rpm

PAGE 15

KX44... -6 pole



DN 200

Closed two-channel impeller

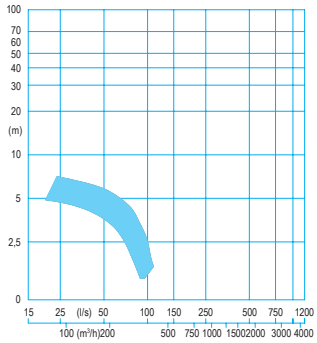
100 mm Ø

Ball passage

680 rpm

PAGE 16

KX44... -8 pole



DN 250

Closed two-channel impeller

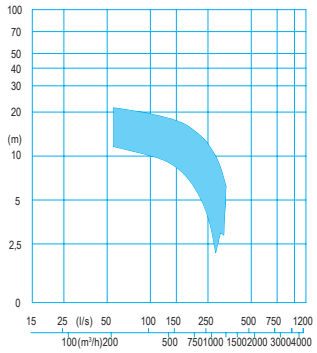
125 mm Ø

Ball passage

960 rpm

PAGE 17

KX55... -6 pole



DN 250

Closed two-channel impeller

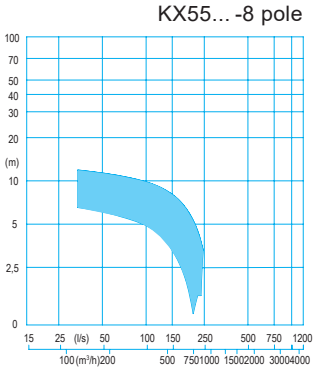
125 mm Ø

Ball passage

710 rpm

PAGE 18

KX55... -8 pole



DN 300/400/500 – SERIES– SELECTIONOVERVIEW

DN 300

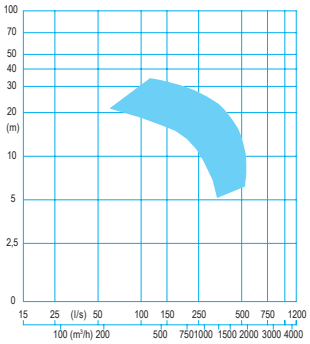
Closed two-channel impeller

150 mm Ø
Ball passage

980 rpm

PAGE 19

KX66... -6 pole



DN 300

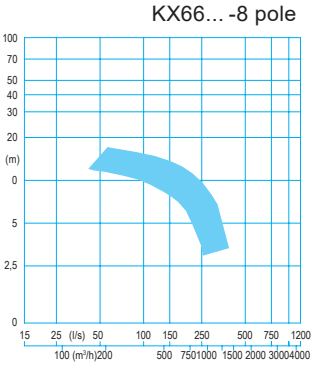
Closed two-channel impeller

150 mm Ø
Ball passage

720 rpm

PAGE 20

KX66... -8 pole



DN 400

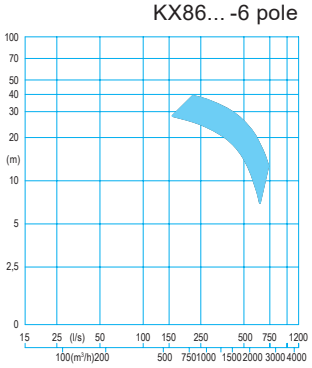
Closed two-channel impeller

165 mm Ø
Ball passage

980 rpm

PAGE 21

KX86... -6 pole



DN 400

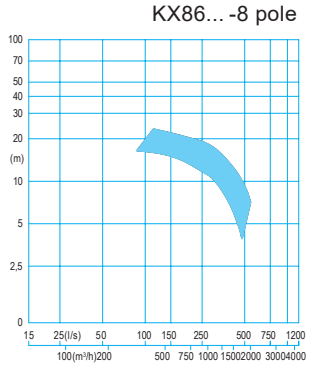
Closed two-channel impeller

165 mm Ø
Ball passage

730 rpm

PAGE 22

KX86... -8 pole



DN 500

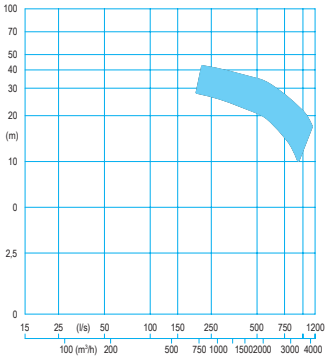
Closed two-channel impeller

200 mm Ø
Ball passage

740 rpm

PAGE 23

KX108... -8 pole



DN 500

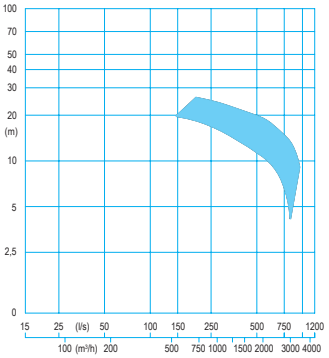
Closed two-channel impeller

200 mm Ø
Ball passage

590 rpm

PAGE 24

KX108... -10 pole



DN 500

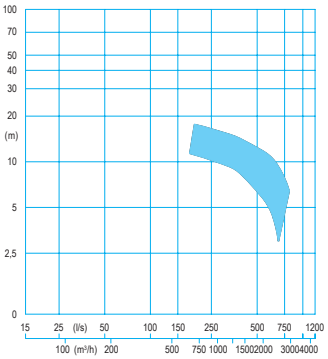
Closed two-channel impeller

200 mm Ø
Ball passage

490 rpm

PAGE 25

KX108... -12 pole

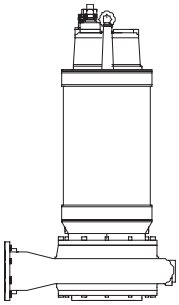


DN 200 -KX 44...-4 POLE

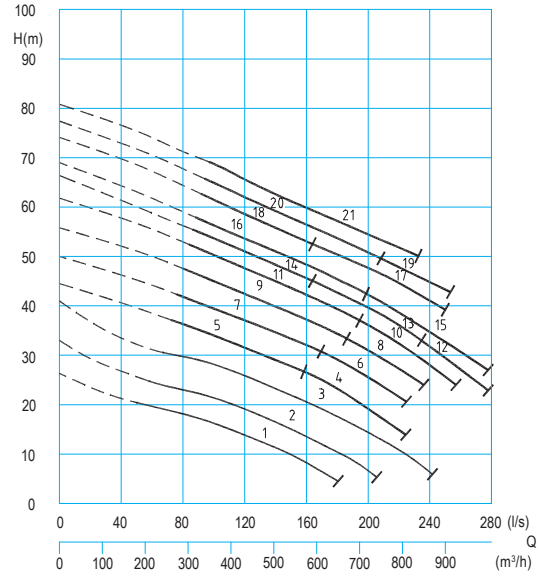
Closed two-channel impeller

100 mm Ø ball passage

1450 rpm

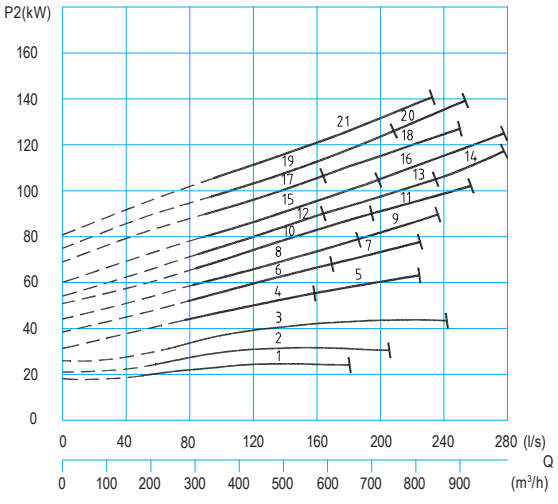


PUMP RATE



Technical data		WET WELL INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 4458-F124 (S)(Ex)	29.133333325.6351.43475			
+	KX 4462-F144 (S)(Ex)	37.1333.0367.13485			
*	KX 4466-G174 (S)(Ex)	50.1346.1384.3			610
)	KX 4468-G194 (S)	61.033333356.53102.03576			
(	KX 4468-G214 (S)	75.0368.03130.03662			
'	KX 4472-G214 (S)	75.0368.03130.03670			
&	KX 4472-G224 (S)	85.0379.03140.73728			
%	KX 4476-G224 (S)	85.0379.03140.73735			
$	KX 4476-H244 (S)	98.5390.03163.73895			
#	KX 4480-H244 (S)	98.5390.03163.73898			
"	KX 4480-H264 (S)	114.03105.03333188.43968			
!	KX 4483-H244 (S)	98.5390.03163.73900			
	KX 4483-H264 (S)	114.03105.03333188.43970			
	KX 4483-H284 (S)	138.03127.03231.43990			
	KX 4485-H264 (S)	114.03105.03188.431065			
•	KX 4485-H284 (S)	138.03127.03231.431085			
•	KX 4488-H264 (S)	114.03105.03188.431067			
•	KX 4488-H284 (S)	138.03127.03231.431087			
•	KX 4490-H284 (S)	138.03127.03231.431089			
•	KX 4490-H294 (S)	153.03141.03250.5			1109
㉑	KX 4492-H294 (S)	153.03141.03250.5			1111

MOTOR INPUT



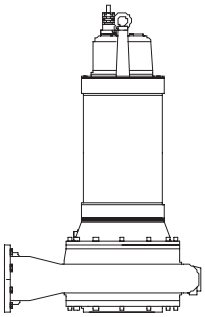
Technical data		DRY INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 4458-FU124 (S)(Ex)	29.133333325.6351.43490			
+	KX 4462-FU144 (S)(Ex)	37.1333.0367.13500			
*	KX 4466-GU174 (S)(Ex)	50.1346.1384.33623			
)	KX 4468-GU194 (S)	61.0356.53102.0			601
(	KX 4468-GU214 (S)	75.0368.03130.03687			
'	KX 4472-GU214 (S)	75.0368.03130.03695			
&	KX 4472-GU224 (S)	85.0379.03140.73753			
%	KX 4476-GU224 (S)	85.0379.03140.73760			
$	KX 4476-HU244 (S)	98.5390.03163.73930			
#	KX 4480-HU244 (S)	98.5390.03163.73933			
"	KX 4480-HU264 (S)	114.03105.03188.4			1003
!	KX 4483-HU244 (S)	98.5390.03163.73935			
	KX 4483-HU264 (S)	114.03105.03188.4			1005
	KX 4483-HU284 (S)	138.03127.03231.431025			
	KX 4485-HU264 (S)	114.03105.03188.4			1100
•	KX 4485-HU284 (S)	138.03127.03231.4			1120
•	KX 4488-HU264 (S)	114.03105.03188.4			1102
•	KX 4488-HU284 (S)	138.03127.03231.4			1122
•	KX 4490-HU284 (S)	138.03127.03231.4			1124
•	KX 4490-HU294 (S)	153.03141.03250.5			1144
㉑	KX 4492-HU294 (S)	153.03141.03250.5			1146

DN 200 -KX 44...-6 POLE

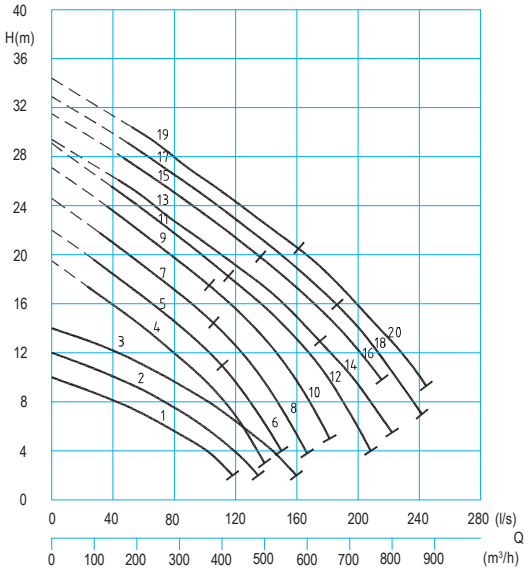
Closed two-channel impeller

100 mm Ø ball passage

960 rpm

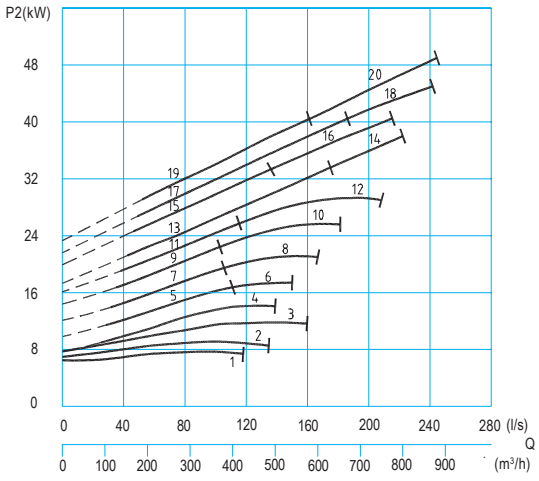


PUMP RATE



Technical data		WET WELL INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 4458-P76 (Ex)	9.0	7.3	16.3	308
+	KX 4462-P86 (Ex)	12.0	10.0	33333333333322.4	312
*	KX 4466-P96 (Ex)	16.0	13.6	329.43326	
)	KX 4468-F96 (S)(Ex)	319.5	316.8	336.43442	
(	KX 4472-F96 (S)(Ex)	319.5	316.8	336.43444	
'	KX 4472-F106 (S)(Ex)	322.5	319.5	341.233333333333333465	
&	KX 4476-F106 (S)(Ex)	322.5	319.5	341.233333333333333467	
%	KX 4476-F116 (S)(Ex)	326.0	322.6	348.33475	
$	KX 4480-F116 (S)(Ex)	326.0	322.6	348.33477	
#	KX 4480-F126 (S)(Ex)	329.5	325.8	355.53495	
"	KX 4483-F126 (S)(Ex)	329.5	325.8	355.53497	
!	KX 4483-G136 (S)(Ex)	333333333333333	337.0	333.2367.53658	
	KX 4485-G136 (S)(Ex)	333333333333333	337.0	333.2367.53660	
	KX 4485-G156 (S)(Ex)	345.0	340.5	382.03698	
	KX 4488-G136 (S)(Ex)	333333333333333	337.0	333.2367.53662	
•	KX 4488-G156 (S)(Ex)	345.0	340.5	382.03700	
•	KX 4490-G156 (S)(Ex)	345.0	340.5	382.03704	
•	KX 4490-G176 (S)	55.0	349.5	399.73762	
•	KX 4492-G156 (S)(Ex)	345.0	340.5	382.03706	
•	KX 4492-G176 (S)	55.0	349.5	399.73764	

MOTOR INPUT



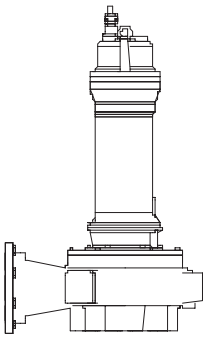
Technical data		DRY INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 4458-PU76 (Ex)	9.0	7.3	16.3	318
+	KX 4462-PU86 (Ex)	12.0	10.0	322.43332	
*	KX 4466-PU96 (Ex)	16.0	13.6	33333333333329.43348	
)	KX 4468-FU96 (S)(Ex)	319.5	316.8	336.43492	
(	KX 4472-FU96 (S)(Ex)	319.5	316.8	336.43494	
'	KX 4472-FU106 (S)(Ex)	322.5	319.5	341.2	515
&	KX 4476-FU106 (S)(Ex)	322.5	319.5	341.2	517
%	KX 4476-FU116 (S)(Ex)	326.0	322.6	348.33525	
$	KX 4480-FU116 (S)(Ex)	326.0	322.6	348.33527	
#	KX 4480-FU126 (S)(Ex)	329.5	325.8	355.53545	
"	KX 4483-FU126 (S)(Ex)	329.5	325.8	355.53547	
!	KX 4483-GU136 (S)(Ex)	337.0	333.2	367.5333333333333333758	
	KX 4485-GU136 (S)(Ex)	337.0	333.2	367.5333333333333333760	
	KX 4485-GU156 (S)(Ex)	345.0	340.5	382.03798	
	KX 4488-GU136 (S)(Ex)	337.0	333.2	367.5333333333333333762	
•	KX 4488-GU156 (S)(Ex)	345.0	340.5	382.03800	
•	KX 4490-GU156 (S)(Ex)	345.0	340.5	382.03804	
•	KX 4490-GU176 (S)	55.0	349.5	399.73862	
•	KX 4492-GU156 (S)(Ex)	345.0	340.5	382.03806	
•	KX 4492-GU176 (S)	55.0	349.5	399.73864	

DN 200 -KX 44...-8 POLE

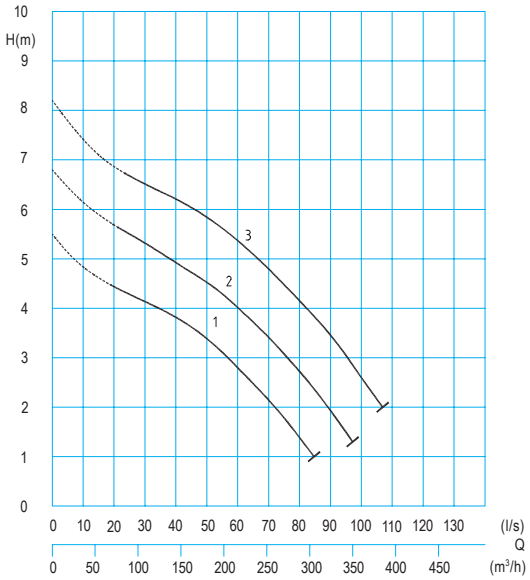
Closed two-channel impeller

100 mm Ø ball passage

680 rpm

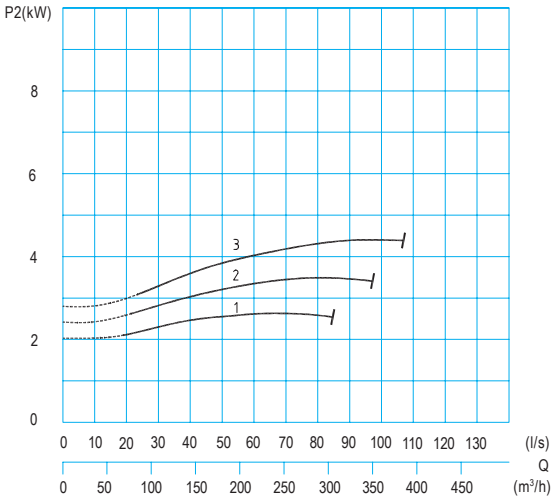


PUMP RATE



Technical data		WET WELL INSTALLATION			
Curve no.	Pump type	Motor P_1 (kW)	input P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 4458-P68 (Ex)	73	5.633333313.5		310
+	KX 4462-P68 (Ex)	73	5.633333313.5		310
*	KX 4466-P68 (Ex)	73	5.633333313.5		310

MOTOR INPUT



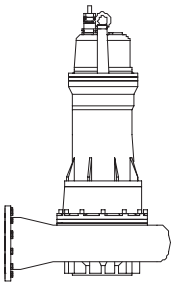
Technical data		DRY INSTALLATION			
Curve no.	Pump type	Motor P_1 (kW)	input P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 4458-PU68 (Ex)	73	5.633333313.53333333333320		
+	KX 4462-PU68 (Ex)	73	5.633333313.53333333333320		
*	KX 4466-PU68 (Ex)	73	5.633333313.53333333333320		

DN 250 -KX 55...-6 POLE

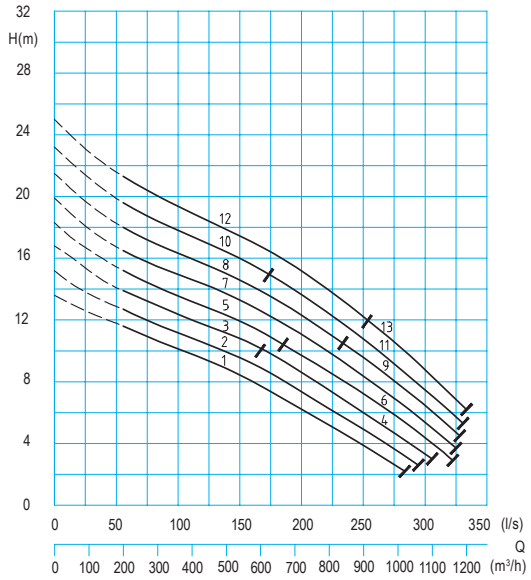
Closed two-channel impeller

125mm Ø ball passage

960 rpm

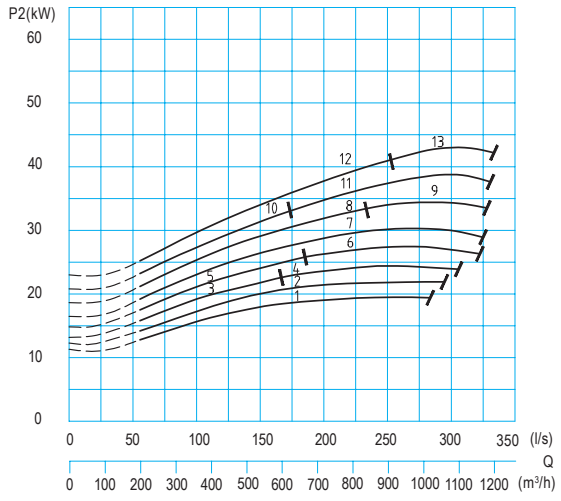


PUMP RATE



Technical data		WET WELL INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 5568-F106 (S)(Ex)	22,5	19,5	341,2	550
+	KX 5570-F116 (S)(Ex)	26,0	322,6	348,3	569
*	KX 5572-F116 (S)(Ex)	26,0	322,6	348,3	569
)	KX 5572-F126 (S)(Ex)	29,5	325,8	355,5	585
(	KX 5574-F126 (S)(Ex)	29,5	325,8	355,5	585
'	KX 5574-G136 (S)(Ex)	37,0	333,2	33333367,5	709
&	KX 5576-G136 (S)(Ex)	37,0	333,2	33333367,5	709
%	KX 5578-G136 (S)(Ex)	37,0	333,2	33333367,5	709
$	KX 5578-G156 (S)(Ex)	45,0	340,5	33333382,0	745
#	KX 5580-G136 (S)(Ex)	37,0	333,2	33333367,5	709
"	KX 5580-G156 (S)(Ex)	45,0	340,5	33333382,0	745
!	KX 5582-G156 (S)(Ex)	45,0	340,5	33333382,0	745
!	KX 5582-G176 (S)	55,0	349,5	3100,0	803

MOTOR INPUT



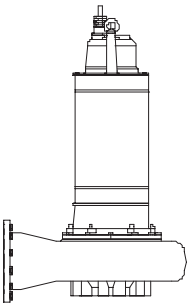
Technical data		DRY INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 5568-FU106 (S)(Ex)	22,5	19,5	341,2	567
+	KX 5570-FU116 (S)(Ex)	26,0	322,6	348,3	586
*	KX 5572-FU116 (S)(Ex)	26,0	322,6	348,3	586
)	KX 5572-FU126 (S)(Ex)	29,5	325,8	355,5	602
(	KX 5574-FU126 (S)(Ex)	29,5	325,8	355,5	602
'	KX 5574-GU136 (S)(Ex)	37,0	333,2	33333367,5	717
&	KX 5576-GU136 (S)(Ex)	37,0	333,2	33333367,5	717
%	KX 5578-GU136 (S)(Ex)	37,0	333,2	33333367,5	717
$	KX 5578-GU156 (S)(Ex)	45,0	340,5	33333382,0	753
#	KX 5580-GU136 (S)(Ex)	37,0	333,2	33333367,5	717
"	KX 5580-GU156 (S)(Ex)	45,0	340,5	33333382,0	753
!	KX 5582-GU156 (S)(Ex)	45,0	340,5	33333382,0	753
!	KX 5582-GU176 (S)	55,0	349,5	3100,0	815

DN 250 -KX55...-8 POLE

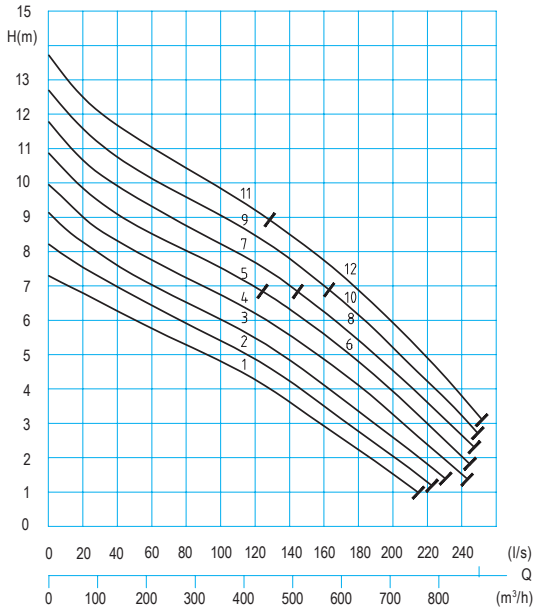
Closed two-channel impeller

125 mm Ø ball passage

710 rpm

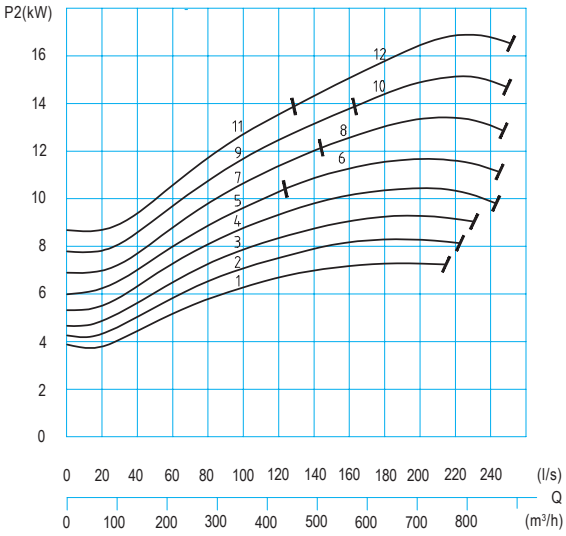


PUMP RATE



Technical data		WET WELL INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_{32} (kW)	Nominal current (A)	Standard weight (kg)
,	KX 5568-F78 (S)	13,0	11,0	326,1	521
+	KX 5570-F78 (S)	13,0	11,0	326,1	521
*	KX 5572-F78 (S)	13,0	11,0	326,1	521
)	KX 5574-F78 (S)	13,0	11,0	326,1	521
(	KX 5576-F78 (S)	13,0	11,0	326,1	521
'	KX 5576-F88 (S)	15,0	312,7	329,8	523
&	KX 5578-F88 (S)	15,0	312,7	329,8	523
%	KX 5578-F98 (S)	17,0	333333	314,4	333,8 554
$	KX 5580-F98 (S)	17,0	333333	314,4	333,8 554
#	KX 5580-F108 (S)	19,5	316,6	338,9	-
"	KX 5582-F98 (S)	17,0	333333	314,4	333,8 554
!	KX 5582-F118 (S)	22,0	318,7	343,2	-

MOTOR INPUT



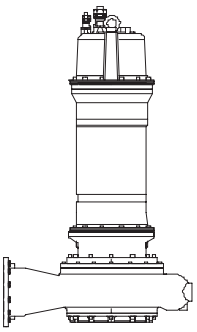
Technical data		DRY INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_{32} (kW)	Nominal current (A)	Standard weight (kg)
,	KX 5568-FU78 (S)	13,0	11,0	326,1	535
+	KX 5570-FU78 (S)	13,0	11,0	326,1	535
*	KX 5572-FU78 (S)	13,0	11,0	326,1	535
)	KX 5574-FU78 (S)	13,0	11,0	326,1	535
(	KX 5576-FU78 (S)	13,0	11,0	326,1	535
'	KX 5576-FU88 (S)	15,0	312,7	329,8	537
&	KX 5578-FU88 (S)	15,0	312,7	329,8	537
%	KX 5578-FU98 (S)	17,0	333333	314,4	333,8 572
$	KX 5580-FU98 (S)	17,0	333333	314,4	333,8 572
#	KX 5580-FU108 (S)	19,5	316,6	338,9	-
"	KX 5582-FU98 (S)	17,0	333333	314,4	333,8 572
!	KX 5582-FU118 (S)	22,0	318,7	343,2	-

DN 300 -KX 66...-6 POLE

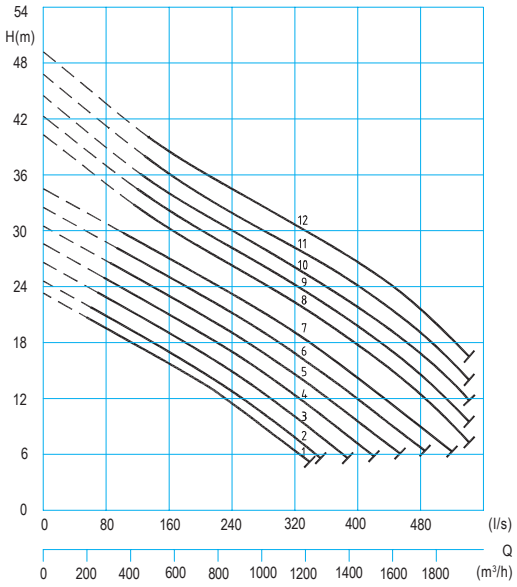
Closed two-channel impeller

150 mm Ø ball passage

960 rpm

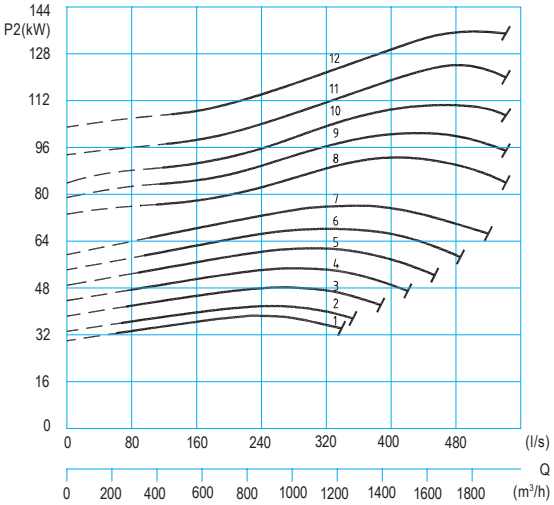


PUMP RATE



Technical data		WET WELL INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 6678-G156 (S)(Ex)	45.0340.5382.13826			
+	KX 6680-G176 (S)	55.0349.5399.73892			
*	KX 6683-G176 (S)	55.0349.5399.73893			
)	KX 6686-G196 (S)	64.0358.03118.03333333333958			
(	KX 6689-H216 (S)	75.3368.53333138.031024			
'	KX 6692-H216 (S)	75.3368.53333138.031026			
&	KX 6695-H236 (S)	90.3382.03333166.031092			
%	KX 6698-H256 (S)	107.7398.03196.031230			
$	KX 66100-H276 (S)(Ex)	123.13112.03227.031320			
#	KX 66102-H276 (S)(Ex)	123.13112.03227.031320			
"	KX 66104-R286 (S)(Ex)	140.43132.03241.0333333331830			
!	KX 66106-R316 (S)(Ex)	168.43160.03287.031870			

MOTOR INPUT



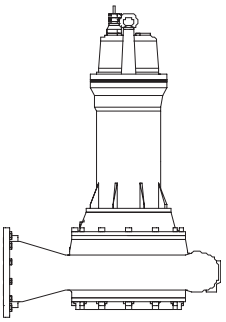
Technical data		DRY INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 6678-GU156 (S)(Ex)	45.0340.5382.13906			
+	KX 6680-GU176 (S)	55.0349.5399.73972			
*	KX 6683-GU176 (S)	55.0349.5399.73973			
)	KX 6686-GU196 (S)	64.033333358.03118.031038			
(	KX 6689-HU216 (S)	75.3368.53138.0			1124
'	KX 6692-HU216 (S)	75.3368.53138.0			1126
&	KX 6695-HU236 (S)	90.3382.03166.0			1192
%	KX 6698-HU256 (S)	107.7398.03196.031330			
$	KX 66100-HU276 (S)(Ex)	123.13112.03227.031420			
#	KX 66102-HU276 (S)(Ex)	123.13112.03227.031420			
"	KX 66104-RU286 (S)(Ex)	140.43132.03241.0333333331940			
!	KX 66106-RU316 (S)(Ex)	168.43160.03287.031980			

DN 300 -KX 66...-8 POLE

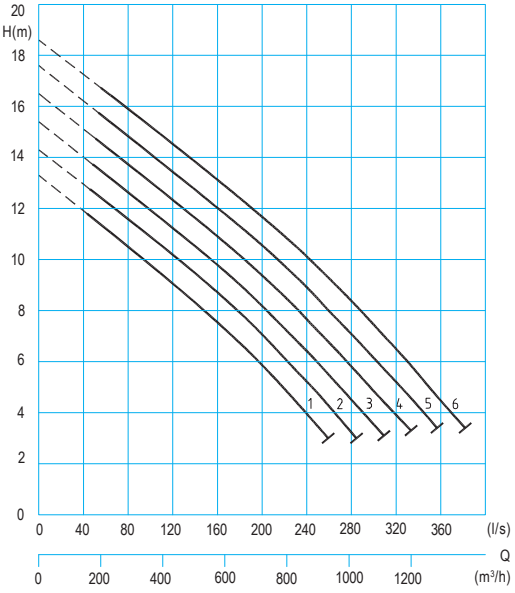
Closed two-channel impeller

150 mm Ø ball passage

720 rpm

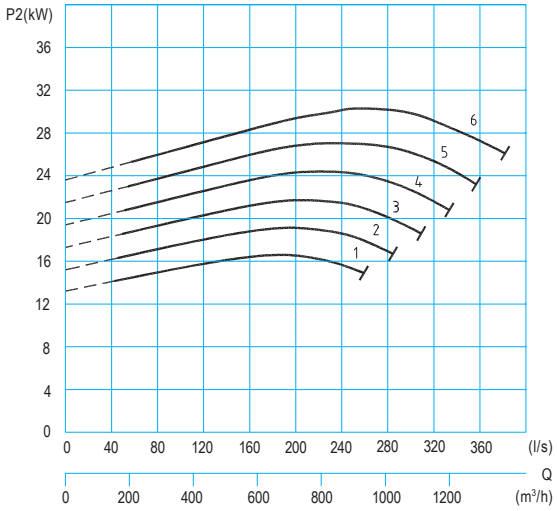


PUMP RATE



Technical data		WET WELL INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 6680-G128 (S)	28.53	25.03	55.3	3806
+	KX 6683-G128 (S)	28.53	25.03	55.3	3808
*	KX 6686-G128 (S)	28.53	25.03	55.3	810
)	KX 6689-G128 (S)	28.53	25.03	55.3	812
(	KX 6692-G148 (S)	35.03	31.03	67.1	3834
'	KX 6695-G148 (S)	35.03	31.03	67.1	3835

MOTOR INPUT



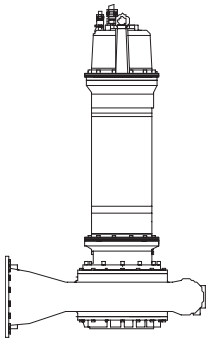
Technical data		DRY INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 6680-GU128 (S)	28.53	25.03	55.3	3886
+	KX 6683-GU128 (S)	28.53	25.03	55.3	3888
*	KX 6686-GU128 (S)	28.53	25.03	55.3	3890
)	KX 6689-GU128 (S)	28.53	25.03	55.3	3892
(	KX 6692-GU148 (S)	35.03	31.03	67.1	914
'	KX 6695-GU148 (S)	35.03	31.03	67.1	915

DN 400 -KX 86...-6 POLE

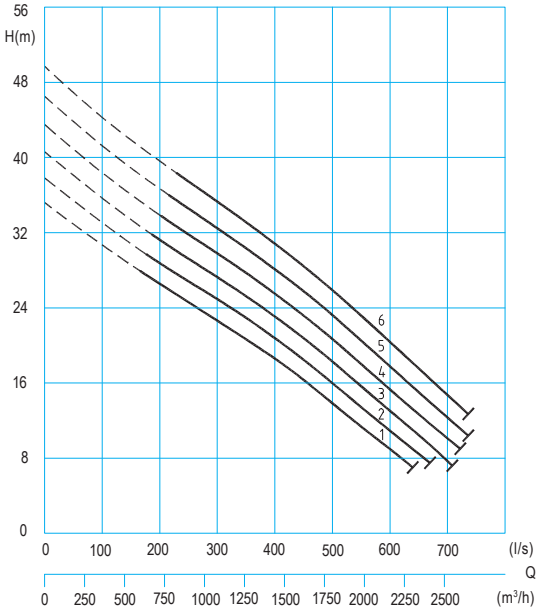
Closed two-channel impeller

165 mm Ø ball passage

980 rpm

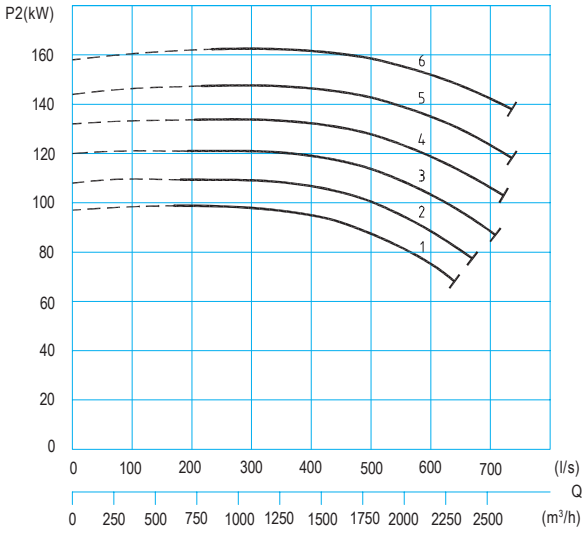


PUMP RATE



Technical data		WET WELL INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_{2} (kW)	Nominal current (A)	Standard weight (kg)
,	KX 86100-H276 (S)(Ex)	123.53112.03227.031602			
+	KX 86102-H276 (S)(Ex)	123.53112.03227.031605			
*	KX 86104-R286 (S)(Ex)	140.03132.03241.0			2110
)	KX 86106-R316 (S)(Ex)	169.03160.03287.032150			
(	KX 86108-R316 (S)(Ex)	169.03160.03287.032153			
'	KX 86110-R346 (S)(Ex)	195.03185.03337.032355			

MOTOR INPUT



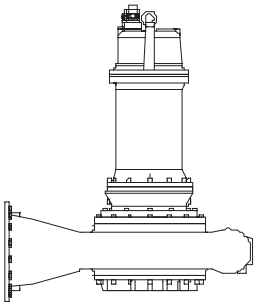
Technical data		DRY INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_{2} (kW)	Nominal current (A)	Standard weight (kg)
,	KX 86100-HU276 (S)(Ex)	123.53112.03227.031702			
+	KX 86102-HU276 (S)(Ex)	123.53112.03227.031705			
*	KX 86104-RU286 (S)(Ex)	140.03132.03241.032220			
)	KX 86106-RU316 (S)(Ex)	169.03160.03287.032260			
(	KX 86108-RU316 (S)(Ex)	169.03160.03287.032263			
'	KX 86110-RU346 (S)(Ex)	195.03185.03337.032465			

DN 400 -KX 86...-8 POLE

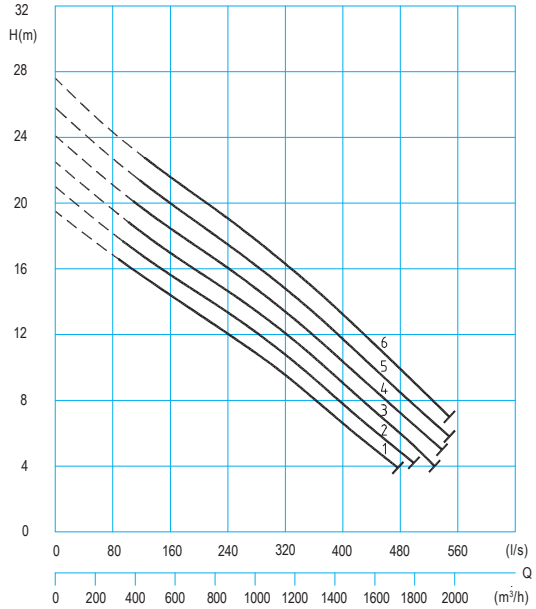
Closed two-channel impeller

165 mm Ø ball passage

730 rpm

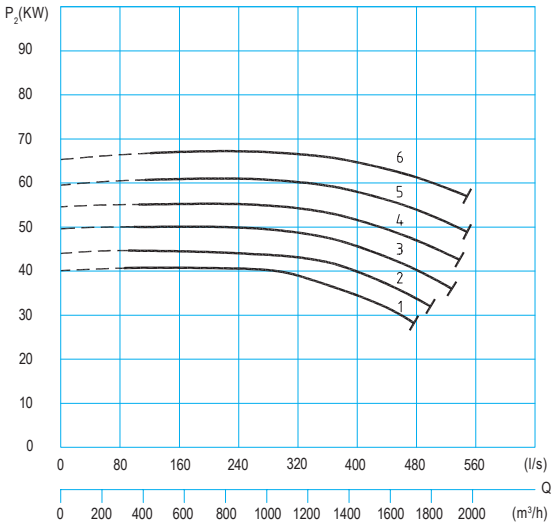


PUMP RATE



Technical data		WET WELL INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 86100-H178 (S)	49.5345.0393.931550			
+	KX 86102-H178 (S)	49.5345.0393.931550			
*	KX 86104-H198 (S)	58.5353.03109.931582			
)	KX 86106-H208 (S)	70.0363.03129.6			1614
(	KX 86108-H208 (S)	70.0363.03129.6			1617
'	KX 86110-H228 (S)	79.0372.03148.231656			

MOTOR INPUT

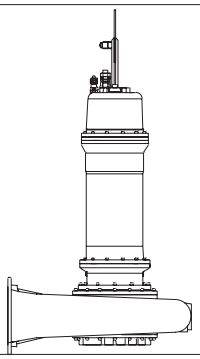


Technical data		DRY INSTALLATION			
Curve no.	Pump type	Motor input P_1 (kW)	P_2 (kW)	Nominal current (A)	Standard weight (kg)
,	KX 86100-HU178 (S)	49.5345.0393.931650			
+	KX 86102-HU178 (S)	49.5345.0393.931652			
*	KX 86104-HU198 (S)	58.5353.03109.931682			
)	KX 86106-HU208 (S)	70.0363.03129.6			1714
(	KX 86108-HU208 (S)	70.0363.03129.6			1717
'	KX 86110-HU228 (S)	79.0372.03333148.231756			

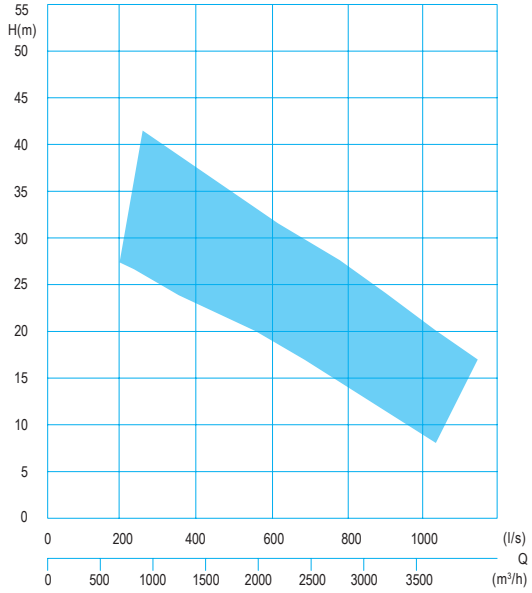
DN 500 -KX 108...-8 POLE

Closed two-channel impeller

200 mm Ø ball passage
740 rpm



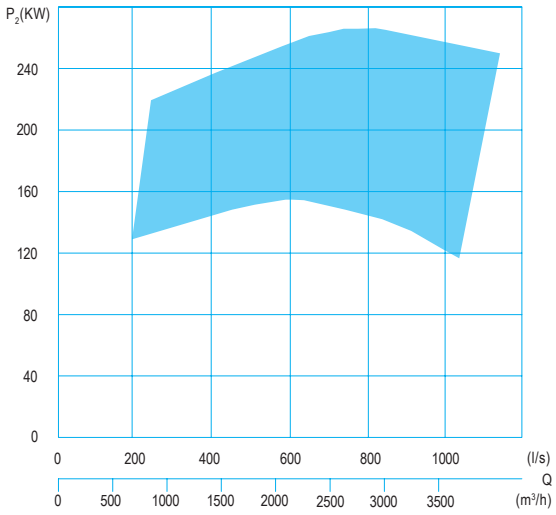
PUMP RATE



Technical data

Please get in touch to request information about the technical data of individual pump types.

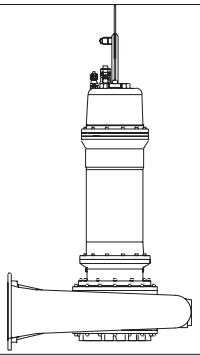
MOTOR INPUT



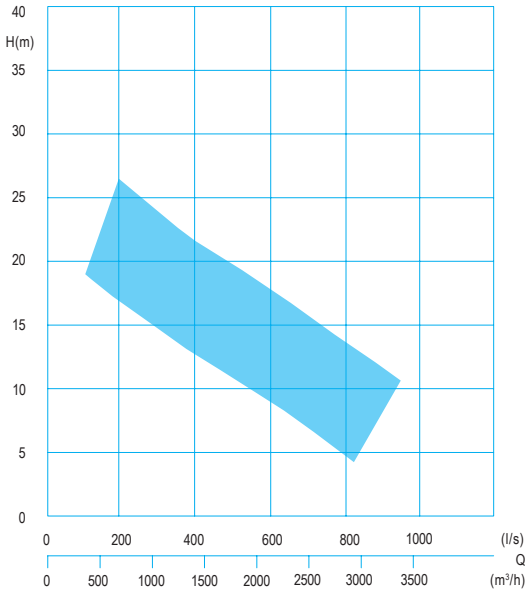
DN 500 -KX 108...-10 POLE

Closed two-channel impeller

200 mm Ø ball passage
590 rpm



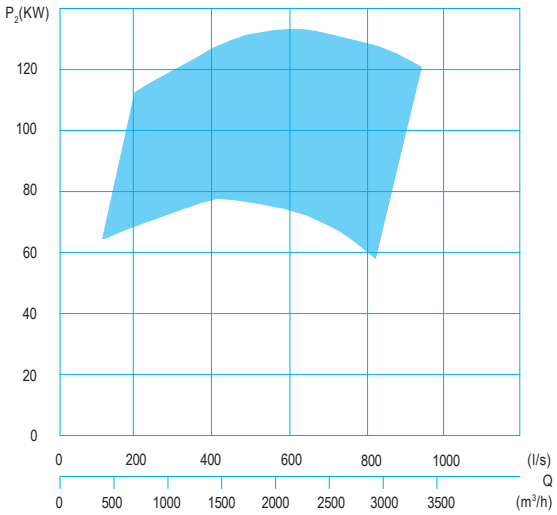
PUMP RATE



Technical data

Pleaseget in touch to request information about the technical data of individual pump types.

MOTOR INPUT

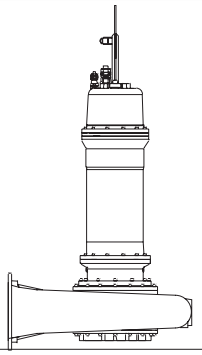


DN 500 -KX 108...-12 POLE

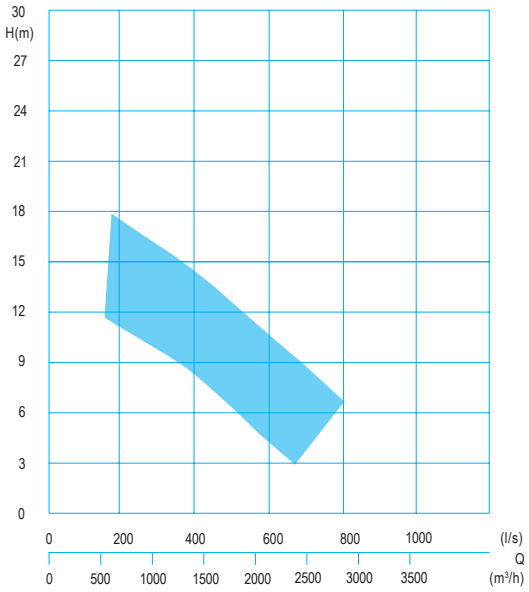
Closed two-channel impeller

200 mm Ø ball passage

490 rpm



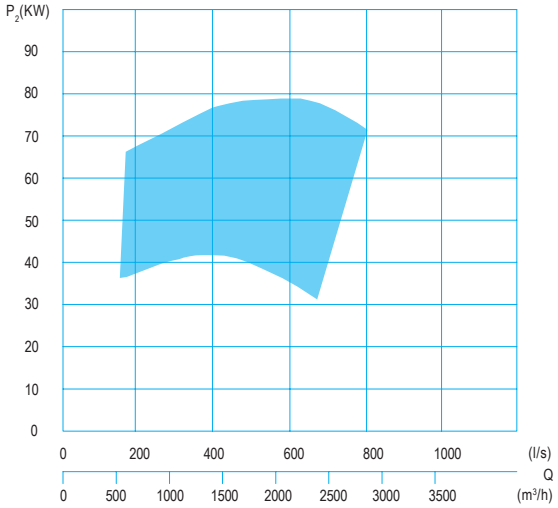
PUMP RATE



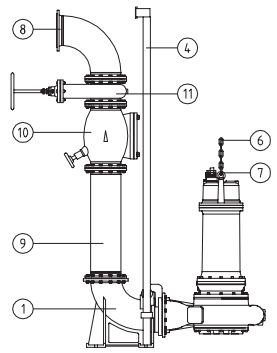
Technical data

Please get in touch to request information about the technical data of individual pump types.

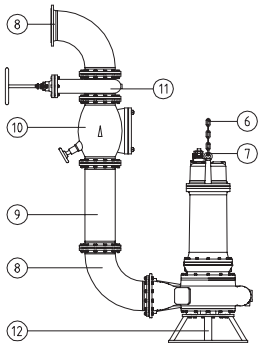
MOTOR INPUT

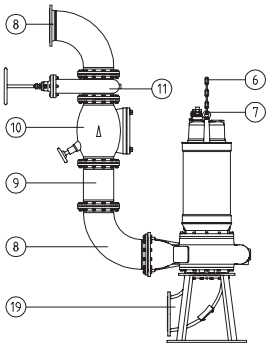


ACCESSORIES

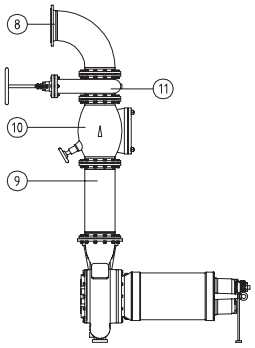


Stationary wet well installation with coupling system9Mobile wet well installation vertical





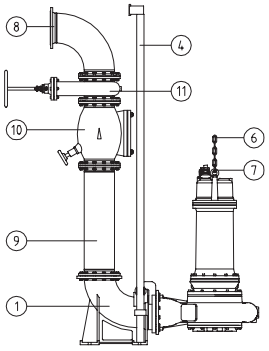
Stationary dry installation –



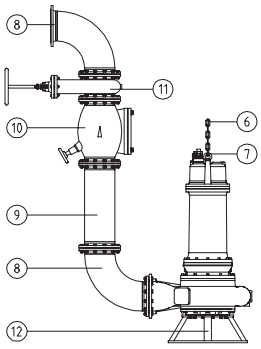
Stationary dry installation – horizontal

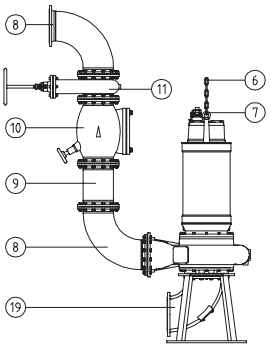
No.&	Description	Model&Size		Art. no.
•	Automatic coupling system, comprising coupling base bend, coupling mating flange and upper guide bracket	KK 200/200 KK 250/200 KK 250/250 KK 300/250 KK 300/300 KK 400/350 KK 400/400	DN 200 DN 250 / DN 200 DN 250 DN 300 / DN 250 DN 300 DN 400 / DN 350 DN 400	8604100.01 8604120.01 8604110 8604130 8604090 8604144 8604140
;	Automatic coupling system, comprising coupling base, coupling mating flange and upper guide bracket	KS 200/200 KS 250/250	DN 200 DN 250	8604081 8604085
	Intermediate bracket for guide pipe extension - Grey cast iron		2½" for DN 200 and DN 250 2½" for DN 300 3" for DN 400	7322911 7322921 7323935
3	Guide pipes – in pairs, by the metre Version (material): - Zinc-plated steel		 2" 2½" 3"	 2190205 2190225 2190230
	- Stainless steel		2" 2½" 3"	2190256 2190258 2190260
- 2	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
8	90° pipe bend -With 2 flanges, 1 set of screws and gasket		DN 200 DN 250 DN 300 DN 400	2153363 2153373 2153383 On request
8	90° pipe bend with cleaning aperture -With 2 flanges, 1 set of screws and gasket		DN 200 DN 200/250 DN 250 DN 250/300 DN 300 DN 400	On request

ACCESSORIES

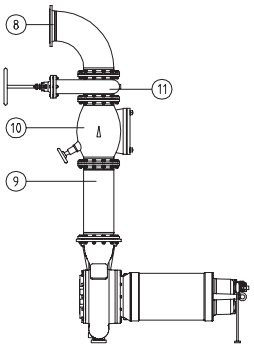


Stationary wet well installation with coupling system9Mobile wet well installation vertical





Stationary dry installation –



Stationary dry installation – horizontal

No.&	Description	Model&Size		Art. no.
	- Or connection piece for pressure pipe in double pump station with 3 flanges, horizontal outlet (also available with vertical outlet) with screws and gasket		DN 200 DN 250 DN 300 DN 400	On request
9	Pressure pipe - With 2 flanges, 1 m long, 1 set of screws and gasket		DN 200 DN 250 DN 300 DN 400	2150200 2150250 2150300 On request
	Pressure pipe - Extension, by the metre		DN 200 DN 250 DN 300 DN 400	On request
	- Reducer, with 2 flanges			On request
4	Non-return valve GG - With flanges, grey cast iron		DN 200 DN 250 DN 300 DN 350 DN 400	2212816 2216817 2216818 On request On request
1	Shut-off gate valve - With flanges, grey cast iron		DN 200 DN 250 DN 300 DN 400	2216200 2216250 2216300 On request
7	Base support ring	NB 200 NB 250 NB 300 NB 350 NB 400	DN 200 DN 250 DN 300 DN 350 DN 400	7321295 7321675 7321665 On request On request
•	Pump stand for vertical dry installation with 90° suction pipe bend with cleaning aperture (DN 200-DN 500)	TVS 200 R TVS 200/250 R TVS 250 R TVS 250/300 R TVS 300 R TVS 350 TVS 400 R	DN 200 DN 200/250 DN 250 DN 250/300 DN 300 DN 350 DN 400	8604240 8604245 8604250 8604255 8604260 8604265 On request
	Mounting plate for vertical dry installation on concrete plinth with 90° suction pipe bend	TVM 350 TVM 400	DN 350 DN 400	On request On request
	Set of screws (8 pce) with gasket - Zinc-plated		DN 200 DN 250 DN 300	2214200 2214250 2214300
	- Stainless steel		DN 200 DN 250 DN 300	2214202 2214252 2214302

Coupling systems, pipe bends, pipes, valves (gate valves, dampers, valves) made from stainless steel on request. See special brochures for electrical and electronic control systems for pumps and pump stations, fully pre-assembled, with accessories. See special brochures for waste water sumps made from concrete or plastic for complete pump stations. Pump housing with cleaning aperture on request. DN 500 accessories on request.