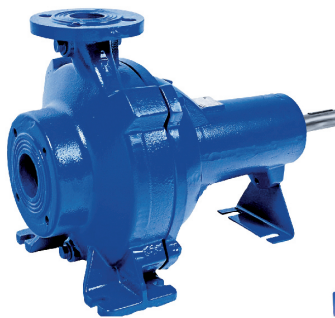


Dry-installed Volute Casing Pump

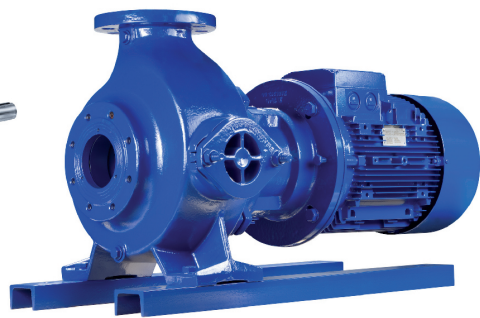
Sewatec / Sewabloc

60 Hz
ASME / NEMA Motors

Type Series Booklet



Sewatec



Sewabloc

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Type Series Booklet Sewatec / Sewabloc

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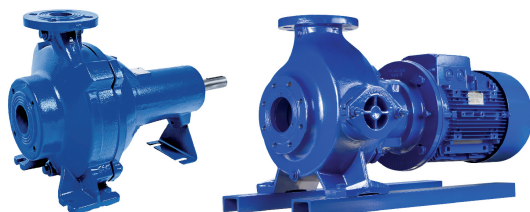
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Waste Water

Dry-installed Volute Casing Pumps

Sewatec / Sewabloc



Sewatec

Sewabloc

Main applications

- Waste water transport
- Waste water disposal
- Waste water management
- Transport of contaminated surface water
- Sludge processing

Fluids handled

- Gray water
- Solids-laden river water
- Contaminated surface water
- Sewage containing feces
- Industrial waste water
- Fluids containing gas
- Activated sludge
- Digested sludge
- Raw sludge

Operating data

Table 1: Operating properties

Characteristic		Impeller type			
		F	E	D	K
Flow rate	Q [US.gpm]	≤ 3000	≤ 2200	≤ 6600	≤ 44000
	Q [l/s]	≤ 189	≤ 139	≤ 450	≤ 2775
Head	H [ft]	≤ 226	≤ 62	≤ 262	≤ 377
	H [m]	≤ 80	≤ 19	≤ 80	≤ 115
Fluid temperature	T [°F]	≤ 158	≤ 158	≤ 158	≤ 158
	T [°C]	≤ 70	≤ 70	≤ 70	≤ 70
Operating pressure	p [psi]	≤ 145	≤ 145	≤ 145	≤ 145
	p [bar]	≤ 10	≤ 10	≤ 10	≤ 10

Design details

Design

Sewatec:

- Volute casing pump
- Back pull-out design
- Single-stage
- Various, application-oriented installation types

Sewabloc:

- Volute casing pump
- Close-coupled pump with shaft seal
- Various, application-oriented installation types

Shaft seal

Sewatec (bearing brackets S01, S02, S03, S04), Sewabloc:

- Two bi-directional mechanical seals in tandem arrangement, with liquid reservoir

Sewatec (bearing brackets S05, S06, S07, S08, S09, S10):

- Two bi-directional mechanical seals in tandem arrangement, with liquid reservoir
- Gland packing

Impeller type

- Various application-oriented impeller types (⇒ Page 9)

Bearings

Sewatec (bearing brackets S01, S02, S03, S04):

- Maintenance-free deep groove ball bearings greased for life, pump end and drive end

Sewatec (bearing brackets S05, S06, S07, S08, S09, S10):

- Grease-packed rolling element bearings with re-lubrication system, pump end and drive end

Sewabloc:

- Maintenance-free deep groove ball bearing greased for life, pump end

Designation

Example: Sewatec F100-251GV

Table 2: Designation key

Code	Description	
Sewatec	Type series	
	Sewatec	
	Sewabloc	
F	Impeller type (⇒ Page 4)	
	F/F-max	Vortex impeller
	E/E-max	Closed single-channel impeller
	D/D-max	Open diagonal single-vane impeller / open radial multi-vane impeller
	K/K-max	Closed multi-channel impeller
100	Nominal discharge nozzle diameter [mm]	
251	Nominal impeller diameter [mm]	
G	Material variant	
	G	Standard variant, wetted components made of gray cast iron
	G1	Like G, impeller made of duplex stainless steel
	G2	Like G, impeller made of white cast iron
	GH	Like G, impeller and intermediate casing made of white cast iron
	GC	Like G, impeller and discharge cover made of duplex stainless steel
V	Installation type	
	Sewabloc	BLOC
		BLOC-VF
	Sewatec R	Fig.0
		3EN
		3ENH
		V
		VU
		VGW

Materials

Table 3: Overview of available materials

Part No.	Description	Material variant				
		G	G1	G2	GH	GC
101	Pump casing	EN-GJL-250				
135	Wear plate ¹⁾	EN-GJL-250 ²⁾		EN-GJN-HB555(XCR14)	-	
163	Discharge cover	EN-GJL-250			EN-GJN-HB555(XCR14)	1.4517
183	Support foot	Steel				
210	Shaft	1.4021				1.4462
230	Impeller	EN-GJL-250 ³⁾	1.4517	EN-GJN-HB555(XCR14)		1.4517
330	Bearing bracket	EN-GJL-250				
433	Mechanical seal	SiC/SiC (Q1Q1 PGG)				
452.01	Gland follower ⁴⁾	EN-GJS-400-15				
454.01	Stuffing box ring ⁴⁾	EN-GJL-250				
456.01	Neck bush ⁴⁾	EN-GJL-250				
458.01	Lantern ring ⁴⁾	PTFE				
502.01	Casing wear ring ⁵⁾	EN-GJL-250 ⁶⁾	EN-GJL-250 (for impeller F only) VG 434			

¹⁾ Only for impellers D and E200-500, E250-500, E250-630, E300-630, E350-710

²⁾ Optional for D impeller: EN-GJN-HB555(XCR14)

³⁾ D impeller (multi-vane impeller): EN-GJS-400-15, D impellers have hardened edges.

⁴⁾ For versions with gland packing only

⁵⁾ Not for F impeller with nominal impeller diameters 215, 216, 217

⁶⁾ For E100-250: EN-GJN-HB555(XCR14)

Part No.	Description	Material variant				
		G	G1	G2	GH	GC
503	Impeller wear ring ⁷⁾	VG 434				
524.01	Shaft protecting sleeve ⁴⁾	1.4021				
914	Impeller screw	Stainless steel ⁸⁾	Stainless steel			
902/920	Screws, bolts and nuts	Stainless steel ⁸⁾	Stainless steel			
-	Screw plugs	Steel				
-	Sealing elements	NBR				

Table 4: Comparison of materials

EN	ASTM
1.4021	A 276 Type 420
1.4462	A 182 F51
1.4517	A 890 CD4MCuN

EN	ASTM
CK 35N	A 29 Gr. 1035
EN-GJL-250	A 48 Class 35 B
EN-GJN-HB555	A 532 Class II Type B (15 % Cr-Mo)
EN-GJS-400-15	A 536 Class 60-40-18
VG 434	-

Description of materials

EN-GJL-250 gray cast iron (lamellar graphite cast iron)

Lamellar graphite cast iron to EN 1561 is the most widely used cast material for handling municipal sewage, waste water and sludges as well as stormwater and surface water. It is suitable for neutral fluids which are only slightly aggressive and cause little wear. The pH value should be ≥ 6.5 , the sand content ≤ 0.5 g/l.

Duplex stainless steel (1.4517 or technically equivalent material)

This type of cast steel is resistant to cavitation, has excellent strength values and is used for high circumferential speeds. An excellent resistance to pitting corrosion makes ferritic-austenitic stainless steel a popular choice for pumping acidic waste water with a high chloride content as well as seawater and brackish water. Thanks to its good chemical resistance, e.g. against waste water containing phosphorus and sulphuric acid, this material is used in a wide range of applications in the chemical industry and process engineering. Pumps made of duplex stainless steel have a very long service life, even when handling brines, chemical waste water (pH 1 - 12), gray water and landfill leachate.

Wear-resistant white cast iron (EN-GJN-HB555 [XCR14] or technically equivalent material)

Wear-resistant white cast iron is suitable for handling highly abrasive fluids containing sand, ash or iron ore sinter, for example. It has a Rockwell hardness (HRC) of 54 as a minimum, which is higher than that of hardened chrome steel. Owing to its hardness, the chromium-molybdenum alloy cast iron features a notably higher wear resistance than EN-GJL-250 gray cast iron and other cast materials. A pH ≥ 6.5 should be observed.

Product benefits

- Variable hydraulic system: the right impeller with optimum efficiency for every fluid. High operating reliability due to large free passages.
- Double mechanical seal in tandem arrangement with liquid supply chamber makes for high operating reliability.
- Low maintenance thanks to grease-packed rolling element bearings
- Standardized components are interchangeable within the Sewatec/Sewabloc and Amarex KRT series, so spare parts inventories can be optimized and costs reduced.

⁷⁾ Optional for K impeller

⁸⁾ From bearing bracket S05: CK 35 N

Acceptance tests and warranty

Functional test

- Every pump undergoes functional testing to KSB standard ZN 56535.

K/K-max impeller:

- Operating data is guaranteed to DIN EN ISO 9906/2B. It can also be guaranteed to DIN EN ISO 9906/1B, 3B and 1U (with re-evaluation of D2 and η).

F/F-max, E/E-max, D/D-max impellers:

- Operating data is guaranteed to DIN EN ISO 9906/3B. It can also be guaranteed to DIN EN ISO 9906/2B.

Power input P2 of the pump below 10 kW.

- Operating data is guaranteed to DIN EN ISO 9906 and HI §4.4.2. Other acceptance grades are not approved.

Acceptance tests

- Acceptance testing to ISO/DIN or comparable standards is available against a surcharge.

Warranty

- Quality is assured by means of an audited and certified quality assurance system to DIN EN ISO 9001.

Selection information

- The indicated heads and performance data apply to material variant G, for fluids with a density $\rho = 1 \text{ kg/dm}^3$ and a kinematic viscosity $\nu \leq 20 \text{ mm}^2/\text{s}$.

Impeller type

- F, E and D impellers can only be supplied with the documented impeller diameters. Indicate the pump set designation and the impeller diameter in the purchase order.
- K and D-max impellers are trimmed to the duty point. Indicate the H/Q data or the impeller diameter in the purchase order. In the hydraulic selection program, the impeller diameter is automatically computed based on the H/Q data and added to the designation of the pump set.

Pump input power

- Adjust the power input to the density of the fluid handled:

$$P_2 (\text{required}) = \rho [\text{kg/dm}^3] (\text{fluid handled}) \times P_2 (\text{documented})$$
- Select the operating point with the largest power input within an operating range. Select a motor size providing a power reserve to compensate for the tolerances in the system characteristic / pump characteristic.

Table 5: Recommended motor power reserve⁹⁾

P ₂		Reserve	
[hp]	[kW]	Mains operation	With frequency inverter
≤ 40	≤ 30	10 %	15 %
> 40	> 30	5 %	10 %

i In the case of waste water, too low a flow velocity in the discharge line will lead to clogging and increased wear. The minimum flow velocity required in vertical risers was determined experimentally as a function of the pipe diameter used and shown to be between 3.9 ft/s [1.2 m/s] for nominal size 100 and 7.9 ft/s [2.4 m/s] for nominal size 1000. For more

information on flow velocities required in horizontal and vertical discharge lines refer to "KSB Know-how: Planning Information for Amarex KRT Submersible Motor Pumps".

i In the case of waste water, too low a circumferential speed of the impeller will lead to clogging of the hydraulic system (operation on frequency inverter). A minimum circumferential speed (measured at the outside diameter of the impeller) of 39.4 ft/s [12 m/s] must be observed.¹⁰⁾

⁹⁾ If larger power reserves are stipulated by local regulations, these larger reserves must be provided.

¹⁰⁾ For F impellers, a circumferential speed below 39.4 ft/s [12 m/s] is permissible.

Overview of product features / selection tables

Product overview

Table 6: Symbols key

Symbol	Description
•	Standard design
■	Standard variant ¹¹⁾
○	Special design ¹¹⁾

Table 7: Overview of features and accessories per installation type

Options		Sewatec			Sewabloc	
		Fig. 0	V	3E	BLOC	BLOC-VF
Motor:						
▪ Without motor		•	•	•	•	•
▪ Standard KSB motor		-	■ ¹²⁾	•	•	•
▪ Motor make to customer's choice		-	■ ¹²⁾	■	■	■
Accessories installation set:						
▪ Baseplate		-	• ¹³⁾	• ¹⁴⁾	• ¹⁵⁾	-
▪ Support frame, drive lantern, soleplate for the motor ¹⁶⁾		-	○	-	-	-
▪ Coupling, coupling guard ¹⁶⁾		-	• ¹⁷⁾	•	-	-
▪ Suction-side flanged spacer with inspection hole ¹⁶⁾		■	■ ¹⁸⁾	■	■	• ¹⁸⁾
▪ Base suction elbow		-	•	-	-	•
▪ Fastening elements: anchor bolts (A4)		-	•	•	•	•
Shaft seal:						
▪ Mechanical seal	Standard KSB mechanical seal with elastomer bellows (bearing brackets S01, S02, S03, S04, S05, S06, S07, B01, B02, B03)			•		
	Standard KSB mechanical seal with covered spring (bearing brackets S01, S02, S03, S04, S05)			■		
	Stationary mechanical seal with spring outside of fluid (bearing brackets S08, S09, S10)			•		
▪ Gland packing (bearing brackets S05 and larger only)			■			-
Coating:						
▪ Standard KSB coating				•		
▪ Primed to standard				•		
▪ Customer specification				○		
Flange:						
▪ To DIN				■		
▪ To ANSI				•		
Sealing elements, bolts and screws:						
▪ NBR/A4 ¹⁹⁾				•		
▪ O-rings (Viton) and screws/bolts (A4)				■		
▪ Shaft made of 1.4462				■		

11 The selection of standard variants or special designs will result in surcharges and longer delivery times.

12 Special design for universal-joint shaft

13 For vertical installation: soleplate or feet

14 With height adjustment of the motor

15 Foundation rails for Sewabloc

16 Optional

17 For underfloor installation

18 Suction elbow

19 Screw plugs made of steel

Options	Sewatec			Sewabloc	
	Fig. 0	V	3E	BLOC	BLOC-VF
Acceptance tests:					
▪ KSB standard ZN 56535			•		
▪ Customer specification			▪		
Sensors:					
▪ Leakage monitoring			▪		
▪ Pt100 resistance thermometer			▪		
▪ Vibration sensor			▪		

Impellers

	Vortex impeller (impeller type F/F-max)	Suitable for the following fluids: Fluids containing solids and stringy material as well as fluids with entrapped air or entrapped gas
	Closed single-channel impeller (impeller type E/E-max)	Suitable for the following fluids: Fluids containing solids and stringy material
	Open, diagonal single-vane impeller (impeller type D)	Suitable for the following fluids: Fluids containing solid substances and long fibers
	Open, radial multi-vane impeller (impeller type D-max)	Suitable for the following fluids: fluids containing solid substances and long fibers

Further fluids handled (impeller types F/F-max, E/E-max, D/D-max):

- Activated sludge
- Digested sludge
- Heating sludge
- Mixed water
- Raw waste water
- Raw sludge
- Recirculated sludge

	Closed multi-channel impeller (impeller type K/K-max)	Suitable for the following fluids: Contaminated, solids-laden, non-gaseous fluids without stringy material
---	--	--

Further fluids (impeller type K/K-max):

- Activated sludge
- Landfill waste water
- Industrial waste water
- Industrial gray water
- Mechanically treated waste water
- Pre-screened waste water
- Stormwater

Overview of fluids handled

The table below for your guidance is based on KSB's long-standing experience. The data are standard values and are not to be considered as generally binding recommendations. More detailed advice is available from KSB. Make use of our laboratory's expertise when selecting materials.

Table 8: Selection aid for materials and hydraulic systems per fluid

Fluid handled ²⁰⁾	Recommended material variant	Recommended impeller type ²¹⁾	Notes, further recommendations
Gray water	G	K/K-max, D/D-max, E/E-max, F/F-max	Free passage > any solids contained, possibly pre-screened
River water	G	K/K-max, D/D-max, E/E-max, F/F-max	Free passage > any solids contained, possibly pre-screened
Stormwater	G	K/K-max, D/D-max, E/E-max, F/F-max	Free passage > any solids contained, possibly pre-screened
Wastewater:			
▪ Untreated municipal waste water	G	F/F-max, D/D-max, E/E-max, K/K-max	ATV recommends a free passage of 4" [100 mm]; min. free passage of 3" [75 mm]; multi-channel impellers can be used depending on the system conditions and free passage.
▪ Containing air and gas	G	F/F-max	Up to 8 %, contact KSB for fluids with high outgassing rates
Sludges:			
▪ Raw sludge	G	F/F-max, D/D-max, E/E-max	Pumpable up to a dry substance content of: 13 % (D), 8 % (F/D-max), 6 % (E)
▪ Digested sludge	G	F/F-max, D/D-max, E/E-max	Pumpable up to a dry substance content of: 13 % (D), 8 % (F/D-max), 6 % (E)
▪ Activated sludge	G	D/D-max, K/K-max	Pumpable up to a dry substance content of: 13 % (D), 8 % (D-max), 5 % (K)
Industrial waste water containing:			
▪ Paint suspensions	G	K/K-max	Solvent-free, observe the operator's instructions.
▪ Lacquer/paint/varnish suspensions	G	F/F-max, E/E-max	Solvent-free, contact KSB for silicone-free version
▪ Fibers/pulp	G	F/F-max, D/D-max	-
▪ Chips/swarf	G2/GH	K/K-max, F/F-max	Material variants G2 or GH, special mechanical seal, solids content < 5 g/l
▪ Abrasive substances ²²⁾	G2/GH	K/K-max, F/F-max	Material variants G2 or GH, special mechanical seal, solids content < 5 g/l
Mildly acidic industrial waste water	GC/C	K/K-max, F/F-max	pH ≥ 6.5, material variant C1 and FPM (Viton) O-rings
Neutral non-corrosive waste water:			
▪ Ammonium hydroxide	G	K/K-max	-
▪ Ammonium hydroxide 5 % NH ₄ OH	G	K/K-max	-
▪ Urea 25 % (NH ₂) ₂ CO ₂	G	K/K-max	-
▪ Potassium hydroxide 10 % KOH	G	K/K-max	-

²⁰⁾ For any fluids which are not listed in this table contact KSB.

²¹⁾ The first impeller type listed should be given preference.

²²⁾ Severe hydroabrasive wear occurs if solids contents of approx. 0.5 g/l or higher are combined with circumferential speeds exceeding 66 ft/s [20 m/s] or part-load conditions to the left of the duty point.

Fluid handled ²⁰⁾	Recommended material variant	Recommended impeller type ²¹⁾	Notes, further recommendations
▪ Calcium hydroxide 5 % Ca(OH)_2	G	K/K-max	-
▪ Sodium hydroxide 5 % NaOH	G	K/K-max	-
▪ Sodium carbonate 30 % Na_2CO_3	G	K/K-max	-
Neutral, non-corrosive waste water containing:			
▪ Aliphatic hydrocarbons, e.g. oils, petrol, butane, methane	G	K/K-max	-
▪ Aromatic hydrocarbons, e.g. benzene, styrene	G	K/K-max	FPM (Viton) O-rings ²³⁾
▪ Chlorinated hydrocarbons, e.g. tetrachloroethylene, ethylene chloride, chloroform, methylene chloride	G	K/K-max	FPM (Viton) O-rings ²³⁾
Highly abrasive industrial waste water causing wear (chemically neutral): ²⁴⁾			
▪ Water containing iron ore sinter	GH	K/K-max	Sinter content < 5 g/l: material variant GH Sinter content > 5 g/l: material variant H (on request)
▪ Lime milk containing quartz and pigment suspensions	GH	K/K-max	Lime milk content < 15 %: material variant GH Lime milk content > 15 %: material variant H (on request)
▪ Wash water containing solids	-	K/K-max, F/F-max	Material selection based on fluid analysis
▪ Waste water containing dust or ash	-	K/K-max	Material selection based on fluid analysis
Water/sand mixture	GH	K/K-max, F/F-max	Solids content < 5 g/l: material variant GH Solids content > 5 g/l: material variant H (on request)
Seawater	C	K/K-max, F/F-max	Material variant C (for selected sizes) $\leq 25^\circ\text{C}$ fluid temperature ²⁵⁾
Brackish water	C	K/K-max, F/F-max	Material variant C (for selected sizes) or GC (with 250 μm two-component epoxy resin), depending on salt content
Corrosive industrial waste water	C	K/K-max, F/F-max	Material variant available for selected sizes and depending on the fluid analysis

²³⁾ The hydrocarbons mentioned may occur in very high concentrations due to the difference in specific weight and their low solubility. If this is the case, contact KSB.

²⁴⁾ The required material variants highly depend on the operating hours, rotational speed and flow velocity.

²⁵⁾ Higher fluid temperatures on request.

Impeller types per material variant, ASME/NEMA motors

Table 9: Impeller types per material variant depending on the pump size, ASME/NEMA motors

Size	Bearing bracket	Impeller type														
		K					D			F					E	
		Material variant														
		G	G1	GC	G2	GH	G	G1	G2	G	G1	GC	G2	GH	G	
050-215	S01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
050-215	B01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
050-216	S01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
050-216	B01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
050-250	S01	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
050-250	B01	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
050-251	S02	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
050-251	B02	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
065-215	S01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
065-215	B01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
065-216	S02	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
065-216	B02	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
065-217	S01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
065-217	B01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
065-250	S01	X	-	-	-	-	-	-	-	-	-	-	-	-	-	
065-250	B01	X	-	-	-	-	-	-	-	-	-	-	-	-	-	
080-215	S01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
080-215	B01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
080-216	S01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
080-216	S02	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
080-216	B01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
080-216	B02	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
080-217	S01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
080-217	B01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
080-250	S01	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
080-250	B01	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
080-252	S01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
080-252	B01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
080-253	S02	-	-	-	-	-	-	-	-	X	X	X	X	X	X	
080-253	B02	-	-	-	-	-	-	-	-	X	X	X	X	X	X	
080-315	S03	X	X	X	X	X	X	X	-	-	-	-	-	-	-	
080-315	S05	-	-	-	-	-	X	X	-	-	-	-	-	-	-	
080-315	B03	X	X	X	X	X	X	X	-	-	-	-	-	-	-	
080-316	S03	-	-	-	-	-	X	X	-	-	-	-	-	-	-	
080-316	B03	-	-	-	-	-	X	X	-	-	-	-	-	-	-	
080-317	S03	-	-	-	-	-	X	X	-	X	X	X	X	X	-	
080-317	B03	-	-	-	-	-	X	X	-	X	X	X	X	X	-	
100-215	S01	-	-	-	-	-	-	-	-	X	X	-	X	X	-	
100-215	B01	-	-	-	-	-	-	-	-	X	X	-	X	X	-	
100-250	S01	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
100-250	B01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100-251	S02	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
100-251	B02	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
100-252	S01	-	-	-	-	-	-	-	-	X	-	-	-	-	-	
100-252	B01	-	-	-	-	-	-	-	-	X	-	-	-	-	-	
100-253	S02	X	X	X	X	X	X	X	-	X	-	-	-	-	X	
100-253	B02	X	X	X	X	X	X	X	-	X	-	-	-	-	-	
100-254	S01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
100-254	B01	-	-	-	-	-	-	-	-	X	X	X	X	X	-	
100-315	S05	-	-	-	-	-	X	X	-	-	-	-	-	-	-	
100-316	S03	X	X	X	X	X	X	X	-	X	X	X	X	X	-	

Size	Bearing bracket	Impeller type														
		K					D			F					E	
		Material variant														
		G	G1	GC	G2	GH	G	G1	G2	G	G1	GC	G2	GH	G	
100-316	B03	X	X	X	X	X	X	X	-	X	X	X	X	X	-	
100-317	S03	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
100-400	S04	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
100-400	S05	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
100-401	S04	X	X	-	X	-	-	-	-	X	X	-	X	-	-	
100-401	S05	X	X	-	X	-	-	-	-	X	X	-	X	-	-	
100-403	S04	-	-	-	-	-	X	X	X	-	-	-	-	-	-	
100-403	S05	-	-	-	-	-	X	X	X	-	-	-	-	-	-	
150-251	S02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
150-251	B02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
150-253	S02	-	-	-	-	-	X	X	-	-	-	-	-	-	-	
150-253	B02	-	-	-	-	-	X	X	-	-	-	-	-	-	-	
150-315	S03	-	-	-	-	-	X	X	-	X	X	X	X	X	-	
150-315	B03	-	-	-	-	-	X	X	-	X	X	X	X	X	-	
150-317	S03	X	X	X	X	X	X	X	X	-	-	-	-	-	X	
150-317	S05	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
150-317	B03	X	X	X	X	X	X	X	X	-	-	-	-	-	-	
150-400	S04	X	X	-	X	-	-	-	-	-	-	-	-	-	-	
150-400	S05	X	X	-	X	-	X	X	-	-	-	-	-	-	-	
150-401	S04	-	-	-	-	-	-	-	-	X	X	-	X	-	-	
150-401	S05	-	-	-	-	-	X	X	-	X	X	-	X	-	-	
150-401	S06	-	-	-	-	-	X	X	-	-	-	-	-	-	-	
150-403	S04	X	X	-	X	-	X	X	X	-	-	-	-	-	-	
150-403	S05	X	X	-	X	-	X	X	X	-	-	-	-	-	-	
150-503	S06	X	X	-	-	-	X	X	X	-	-	-	-	-	-	
150-503	S07	X	X	-	-	-	X	X	X	-	-	-	-	-	-	
151-401	S05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
151-403	S04	X	X	-	X	-	-	-	-	-	-	-	-	-	-	
151-403	S05	X	X	-	X	-	-	-	-	-	-	-	-	-	-	
200-315	S03	X	X	X	X	X	X	X	-	-	-	-	-	-	-	
200-315	B03	X	X	X	X	X	X	X	-	-	-	-	-	-	-	
200-316	S03	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
200-316	B03	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
200-317	S03	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
200-317	B03	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
200-318	S03	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
200-318	B03	X	X	X	X	X	-	-	-	-	-	-	-	-	-	
200-330	S04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
200-330	S05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
200-400	S05	-	-	-	-	-	X	X	-	-	-	-	-	-	-	
200-400	S06	-	-	-	-	-	X	X	-	-	-	-	-	-	-	
200-401	S04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
200-401	S05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
200-402	S04	X	X	-	X	-	X	X	X	-	-	-	-	-	-	
200-402	S05	X	X	-	X	-	X	X	X	-	-	-	-	-	-	
200-402	S06	X	X	-	X	-	X	X	X	-	-	-	-	-	-	
200-403	S04	X	X	-	X	-	-	-	-	-	-	-	-	-	-	
200-403	S05	X	X	-	X	-	-	-	-	-	-	-	-	-	-	
200-403	S06	X	X	-	X	-	-	-	-	-	-	-	-	-	-	
200-405	S04	-	-	-	-	-	X	X	X	-	-	-	-	-	-	
200-405	S05	-	-	-	-	-	X	X	X	-	-	-	-	-	-	
200-405	S06	-	-	-	-	-	X	X	X	-	-	-	-	-	-	
200-501	S06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
200-503	S06	-	-	-	-	-	X	X	X	-	-	-	-	-	-	

Size	Bearing bracket	Impeller type														
		K					D			F					E	
		Material variant														
		G	G1	GC	G2	GH	G	G1	G2	G	G1	GC	G2	GH	G	
200-503	S07	—	—	—	—	—	X	X	X	—	—	—	—	—	—	
200-504	S06	X	X	—	—	—	—	—	—	—	—	—	—	—	—	
200-504	S07	X	X	—	—	—	—	—	—	—	—	—	—	—	—	
200-505	S06	X	X	—	—	—	—	—	—	—	—	—	—	—	—	
200-505	S07	X	X	—	—	—	—	—	—	—	—	—	—	—	—	
200-631	S07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
200-631	S08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
250-400	S04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
250-400	S05	—	—	—	—	—	X	X	—	—	—	—	—	—	—	
250-400	S06	—	—	—	—	—	X	X	—	—	—	—	—	—	—	
250-401	S04	X	X	—	X	—	—	—	—	—	—	—	—	—	—	
250-401	S05	X	X	—	X	—	—	—	—	—	—	—	—	—	—	
250-401	S06	X	X	—	X	—	—	—	—	—	—	—	—	—	—	
250-402	S04	—	—	—	—	—	X	X	X	—	—	—	—	—	—	
250-402	S05	—	—	—	—	—	X	X	X	—	—	—	—	—	—	
250-402	S06	—	—	—	—	—	X	X	X	—	—	—	—	—	—	
250-403	S04	X	X	—	X	—	—	—	—	—	—	—	—	—	—	
250-403	S05	X	X	—	X	—	—	—	—	—	—	—	—	—	—	
250-403	S06	X	X	—	X	—	—	—	—	—	—	—	—	—	—	
250-500	S06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
250-500	S07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
250-630	S07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
250-630	S08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
250-632	S07	X	X	—	—	—	—	—	—	—	—	—	—	—	—	
250-632	S08	X	X	—	—	—	—	—	—	—	—	—	—	—	—	
250-900	S09	X	X	—	—	—	—	—	—	—	—	—	—	—	—	
300-400	S04	X	X	—	X	—	—	—	—	—	—	—	—	—	—	
300-400	S05	X	X	—	X	—	X	X	—	—	—	—	—	—	—	
300-400	S06	—	—	—	—	—	X	X	—	—	—	—	—	—	—	
300-401	S04	X	X	—	X	—	—	—	—	—	—	—	—	—	—	
300-401	S05	X	X	—	X	—	—	—	—	—	—	—	—	—	—	
300-402	S04	—	—	—	—	—	X	X	X	—	—	—	—	—	—	
300-402	S05	—	—	—	—	—	X	X	X	—	—	—	—	—	—	
300-402	S06	—	—	—	—	—	X	X	X	—	—	—	—	—	—	
300-403	S05	X	X	—	X	—	—	—	—	—	—	—	—	—	—	
300-500	S06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
300-500	S07	X	X	—	—	—	—	—	—	—	—	—	—	—	—	
300-502	S06	—	—	—	—	—	X	X	X	—	—	—	—	—	—	
300-502	S07	—	—	—	—	—	X	X	X	—	—	—	—	—	—	
350-502	S06	—	—	—	—	—	X	X	X	—	—	—	—	—	—	
350-502	S07	—	—	—	—	—	X	X	X	—	—	—	—	—	—	
300-505	S06	X	X	—	—	—	X	X	X	—	—	—	—	—	—	
300-505	S07	X	X	—	—	—	X	X	X	—	—	—	—	—	—	
300-630	S07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
300-630	S08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
350-500	S06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
350-500	S07	X	X	—	—	—	—	—	—	—	—	—	—	—	—	
350-501	S06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
350-501	S07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
350-503	S06	X	X	—	—	—	X	X	X	—	—	—	—	—	—	
350-503	S07	X	X	—	—	—	X	X	X	—	—	—	—	—	—	
350-632	S07	X	X	—	—	—	—	—	—	—	—	—	—	—	—	
350-632	S08	X	X	—	—	—	—	—	—	—	—	—	—	—	—	
350-633	S07	X	X	—	—	—	—	—	—	—	—	—	—	—	—	

Size	Bearing bracket	Impeller type														
		K					D			F					E	
		Material variant														
		G	G1	GC	G2	GH	G	G1	G2	G	G1	GC	G2	GH	G	
350-633	S08	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
350-710	S07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
350-710	S08	X	-	-	-	-	-	-	-	-	-	-	-	-	-	
350-713	S09	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
400-500	S06	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
400-500	S07	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
400-632	S08	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
400-710	S09	X	-	-	-	-	-	-	-	-	-	-	-	-	-	
400-713	S09	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
400-900	S09	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
500-632	S08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
500-634	S07	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
500-634	S08	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
500-710	S09	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
500-900	S09	X	-	-	-	-	-	-	-	-	-	-	-	-	-	
500-900	S10	X	-	-	-	-	-	-	-	-	-	-	-	-	-	
600-520	S07	X	-	-	-	-	-	-	-	-	-	-	-	-	-	
600-710	S08	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
600-900	S10	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
700-902	S08	X	X	-	-	-	-	-	-	-	-	-	-	-	-	
700-902	S09	X	X	-	-	-	-	-	-	-	-	-	-	-	-	

Nominal impeller diameters per bearing bracket and speed for impeller types F and E

Density 1.0 kg/dm³ - 1.2 kg/dm³

Table 10: Selection table [mm]²⁶⁾

Size	Bearing bracket		Impeller type F				Impeller type E					
			Speed [rpm]				Speed [rpm]					
	Sewatec	Sewabloc	3500	1750	1160	875	3500	1750	1160	875	700	585
050-215	S01	-	160	210	-	-	-	-	-	-	-	-
050-215	-	B01	160	210	-	-	-	-	-	-	-	-
050-216	S01	-	-	210	-	-	-	-	-	-	-	-
050-216	-	B01	-	210	-	-	-	-	-	-	-	-
050-250	S01	-	-	-	-	-	-	-	-	-	-	-
050-250	-	B01	-	-	-	-	-	-	-	-	-	-
050-251	S02	-	-	-	-	-	-	-	-	-	-	-
050-251	-	B02	-	-	-	-	-	-	-	-	-	-
065-215	S01	-	-	210	-	-	-	-	-	-	-	-
065-215	-	B01	-	210	-	-	-	-	-	-	-	-
065-217	S01	-	200	200	-	-	-	-	-	-	-	-
065-217	-	B01	200	200	-	-	-	-	-	-	-	-
065-216	S02	-	-	-	-	-	183	183	-	-	-	-
065-216	-	B02	-	-	-	-	-	183	-	-	-	-
065-250	S01	-	-	-	-	-	-	-	-	-	-	-
065-250	-	B01	-	-	-	-	-	-	-	-	-	-
080-215	S01	-	-	-	-	-	-	-	-	-	-	-
080-215	-	B01	-	-	-	-	-	-	-	-	-	-
080-216	S01	-	-	210	-	-	-	-	-	-	-	-
080-216	-	B01	-	210	-	-	-	-	-	-	-	-
080-216	S02	-	-	-	-	-	180	210	-	-	-	-
080-216	-	B02	-	-	-	-	-	210	-	-	-	-
080-217	S01	-	200	200	-	-	-	-	-	-	-	-
080-217	-	B01	200	200	-	-	-	-	-	-	-	-
080-250	S01	-	-	-	-	-	-	-	-	-	-	-
080-250	-	B01	-	-	-	-	-	-	-	-	-	-
080-252	S01	-	-	-	250	-	-	-	-	-	-	-
080-252	-	B01	-	-	250	-	-	-	-	-	-	-
080-253	S02	-	-	265	265	-	-	270	270	-	-	-
080-253	-	B02	-	265	265	-	-	270	270	-	-	-
080-315	S03	-	-	-	-	-	-	-	-	-	-	-
080-315	S05	-	-	-	-	-	-	-	-	-	-	-
080-315	-	B03	-	-	-	-	-	-	-	-	-	-
080-316	S03	-	-	-	-	-	-	-	-	-	-	-
080-316	-	B03	-	-	-	-	-	-	-	-	-	-
080-317	S03	-	-	240	240	-	-	-	-	-	-	-
080-317	-	B03	-	240	240	-	-	-	-	-	-	-
100-215	S01	-	-	210	-	-	-	-	-	-	-	-
100-215	-	B01	-	210	-	-	-	-	-	-	-	-
100-250	S01	-	-	-	-	-	-	-	245	245	245	-
100-250	-	B01	-	-	-	-	-	-	-	-	-	-
100-251	S02	-	-	265	-	-	-	-	-	-	-	-
100-251	-	B02	-	265	-	-	-	-	-	-	-	-
100-252	S01	-	-	-	250	-	-	-	-	-	-	-
100-252	-	B01	-	-	250	-	-	-	-	-	-	-
100-253	S02	-	-	265	-	-	-	270	270	-	-	-
100-253	-	B02	-	265	-	-	-	270	270	-	-	-
100-254	S01	-	-	-	265	-	-	-	-	-	-	-

²⁶⁾ Selection for a fluid density of 1.0 kg/dm³ -1.2 kg/dm³; higher densities on request only

Size	Bearing bracket		Impeller type F				Impeller type E					
			Speed [rpm]				Speed [rpm]					
	Sewatec	Sewabloc	3500	1750	1160	875	3500	1750	1160	875	700	585
100-254	-	B01	-	-	265	-	-	-	-	-	-	-
100-315	S05	-	-	-	-	-	-	-	-	-	-	-
100-316	S03	-	-	310	-	-	-	-	-	-	-	-
100-316	-	B03	-	310	-	-	-	-	-	-	-	-
100-317	S03	-	-	-	-	-	-	328	328	328	-	-
100-400	S04	-	-	-	-	-	-	-	-	-	-	-
100-400	S05	-	-	-	-	-	-	-	-	-	-	-
100-401	S04	-	-	-	390	390	-	-	-	-	-	-
100-401	S05	-	-	-	390	390	-	-	-	-	-	-
150-251	S02	-	-	-	-	-	-	-	-	-	-	-
150-251	-	B02	-	-	-	-	-	-	-	-	-	-
150-253	S02	-	-	-	-	-	-	-	-	-	-	-
150-253	-	B02	-	-	-	-	-	-	-	-	-	-
150-315	S03	-	-	-	290	290	-	-	-	-	-	-
150-315	-	B03	-	-	290	290	-	-	-	-	-	-
150-317	S03	-	-	-	-	-	-	-	320	320	320	-
150-317	-	B03	-	-	-	-	-	-	-	-	-	-
150-317	S05	-	-	-	-	-	-	-	-	-	-	-
150-400	S04	-	-	-	-	-	-	-	-	-	-	-
150-400	S05	-	-	-	-	-	-	-	-	-	-	-
150-401	S04	-	-	-	390	390	-	-	-	-	-	-
150-401	S05	-	-	-	390	390	-	-	-	-	-	-
150-401	S06	-	-	-	-	-	-	-	-	-	-	-
150-403	S04	-	-	-	-	-	-	-	-	-	-	-
150-403	S05	-	-	-	-	-	-	-	-	-	-	-
150-503	S06	-	-	-	-	-	-	-	-	-	-	-
150-503	S07	-	-	-	-	-	-	-	-	-	-	-
151-401	S05	-	-	-	-	-	-	-	-	-	-	-
151-403	S04	-	-	-	-	-	-	-	-	-	-	-
151-403	S05	-	-	-	-	-	-	-	-	-	-	-
200-315	S03	-	-	-	-	-	-	-	-	-	-	-
200-315	-	B03	-	-	-	-	-	-	-	-	-	-
200-316	S03	-	-	-	-	-	-	-	-	-	-	-
200-316	-	B03	-	-	-	-	-	-	-	-	-	-
200-317	S03	-	-	-	-	-	-	-	-	-	-	-
200-317	-	B03	-	-	-	-	-	-	-	-	-	-
200-317	S05	-	-	-	-	-	-	-	-	-	-	-
200-318	S03	-	-	-	-	-	-	-	-	-	-	-
200-318	-	B03	-	-	-	-	-	-	-	-	-	-
200-330	S04	-	-	-	-	-	-	-	-	-	-	-
200-330	S05	-	-	-	-	-	-	-	-	-	-	-
200-401	S04	-	-	-	-	-	-	-	-	-	-	-
200-401	S05	-	-	-	-	-	-	-	-	-	-	-
200-401	S06	-	-	-	-	-	-	-	-	-	-	-
200-402	S04	-	-	-	-	-	-	-	-	-	-	-
200-402	S05	-	-	-	-	-	-	-	-	-	-	-
200-402	S06	-	-	-	-	-	-	-	-	-	-	-
200-403	S04	-	-	-	-	-	-	-	-	-	-	-
200-403	S05	-	-	-	-	-	-	-	-	-	-	-
200-403	S06	-	-	-	-	-	-	-	-	-	-	-
200-500	S06	-	-	-	-	-	-	-	-	-	-	-
200-500	S07	-	-	-	-	-	-	-	-	-	-	-
200-500	S05	-	-	-	-	-	-	-	-	-	-	-
200-500 (Ex)	S05	-	-	-	-	-	-	-	-	-	-	-

Size	Bearing bracket		Impeller type F				Impeller type E					
	Sewatec	Sewabloc	Speed [rpm]				Speed [rpm]					
			3500	1750	1160	875	3500	1750	1160	875	700	585
200-501	S06	-	-	-	-	-	-	-	-	-	-	-
200-503	S06	-	-	-	-	-	-	-	-	-	-	-
200-503	S07	-	-	-	-	-	-	-	-	-	-	-
200-504	S06	-	-	-	-	-	-	-	-	-	-	-
200-504	S07	-	-	-	-	-	-	-	-	-	-	-
200-505	S06	-	-	-	-	-	-	-	-	-	-	-
200-505	S07	-	-	-	-	-	-	-	-	-	-	-
200-631	S07	-	-	-	-	-	-	-	-	-	-	-
200-631	S08	-	-	-	-	-	-	-	-	-	-	-
250-400	S04	-	-	-	-	-	-	-	-	-	-	-
250-400	S05	-	-	-	-	-	-	-	-	-	-	-
250-400	S06	-	-	-	-	-	-	-	-	-	-	-
250-401	S04	-	-	-	-	-	-	-	-	-	-	-
250-401	S05	-	-	-	-	-	-	-	-	-	-	-
250-401	S06	-	-	-	-	-	-	-	-	-	-	-
250-402	S04	-	-	-	-	-	-	-	-	-	-	-
250-402	S05	-	-	-	-	-	-	-	-	-	-	-
250-402	S06	-	-	-	-	-	-	-	-	-	-	-
250-403	S04	-	-	-	-	-	-	-	-	-	-	-
250-403	S05	-	-	-	-	-	-	-	-	-	-	-
250-403	S06	-	-	-	-	-	-	-	-	-	-	-
250-500	S06	-	-	-	-	-	-	-	-	-	-	-
250-500	S07	-	-	-	-	-	-	-	-	-	-	-
250-630	S07	-	-	-	-	-	-	-	-	-	-	-
250-630	S08	-	-	-	-	-	-	-	-	-	-	-
250-632	S07	-	-	-	-	-	-	-	-	-	-	-
250-632	S08	-	-	-	-	-	-	-	-	-	-	-
250-900	S09	-	-	-	-	-	-	-	-	-	-	-
300-400	S04	-	-	-	-	-	-	-	-	-	-	-
300-400	S05	-	-	-	-	-	-	-	-	-	-	-
300-400	S06	-	-	-	-	-	-	-	-	-	-	-
300-401	S04	-	-	-	-	-	-	-	-	-	-	-
300-401	S05	-	-	-	-	-	-	-	-	-	-	-
300-403	S05	-	-	-	-	-	-	-	-	-	-	-
300-500	S06	-	-	-	-	-	-	-	-	-	-	-
300-500	S07	-	-	-	-	-	-	-	-	-	-	-
300-502	S06	-	-	-	-	-	-	-	-	-	-	-
300-502	S07	-	-	-	-	-	-	-	-	-	-	-
300-505	S06	-	-	-	-	-	-	-	-	-	-	-
300-505	S07	-	-	-	-	-	-	-	-	-	-	-
300-630	S07	-	-	-	-	-	-	-	-	-	-	-
300-630	S08	-	-	-	-	-	-	-	-	-	-	-
300-710	S09	-	-	-	-	-	-	-	-	-	-	-
350-500	S06	-	-	-	-	-	-	-	-	-	-	-
350-500	S07	-	-	-	-	-	-	-	-	-	-	-
350-501	S06	-	-	-	-	-	-	-	-	-	-	-
350-501	S07	-	-	-	-	-	-	-	-	-	-	-
350-502	S06	-	-	-	-	-	-	-	-	-	-	-
350-502	S07	-	-	-	-	-	-	-	-	-	-	-
350-503	S06	-	-	-	-	-	-	-	-	-	-	-
350-503	S07	-	-	-	-	-	-	-	-	-	-	-
350-632	S07	-	-	-	-	-	-	-	-	-	-	-
350-632	S08	-	-	-	-	-	-	-	-	-	-	-
350-633	S07	-	-	-	-	-	-	-	-	-	-	-
350-633	S08	-	-	-	-	-	-	-	-	-	-	-

Size	Bearing bracket		Impeller type F				Impeller type E					
			Speed [rpm]				Speed [rpm]					
	Sewatec	Sewabloc	3500	1750	1160	875	3500	1750	1160	875	700	585
350-710	S07	-	-	-	-	-	-	-	-	-	-	-
350-710	S08	-	-	-	-	-	-	-	-	-	-	-
350-713	S08	-	-	-	-	-	-	-	-	-	-	-
350-713	S09	-	-	-	-	-	-	-	-	-	-	-
400-500	S06	-	-	-	-	-	-	-	-	-	-	-
400-500	S07	-	-	-	-	-	-	-	-	-	-	-
400-632	S08	-	-	-	-	-	-	-	-	-	-	-
400-710	S09	-	-	-	-	-	-	-	-	-	-	-
400-713	S09	-	-	-	-	-	-	-	-	-	-	-
400- 900	S09	-	-	-	-	-	-	-	-	-	-	-
500-632	S08	-	-	-	-	-	-	-	-	-	-	-
500-634	S07	-	-	-	-	-	-	-	-	-	-	-
500-634	S08	-	-	-	-	-	-	-	-	-	-	-
500-710	S09	-	-	-	-	-	-	-	-	-	-	-
500-900	S09	-	-	-	-	-	-	-	-	-	-	-
500-900	S10	-	-	-	-	-	-	-	-	-	-	-
600-520	S07	-	-	-	-	-	-	-	-	-	-	-
600-710	S08	-	-	-	-	-	-	-	-	-	-	-
600-900	S10	-	-	-	-	-	-	-	-	-	-	-
700-902	S08	-	-	-	-	-	-	-	-	-	-	-
700-902	S09	-	-	-	-	-	-	-	-	-	-	-

Nominal impeller diameters per bearing bracket and speed for impeller types D and K

Density 1.0 kg/dm³ - 1.2 kg/dm³

Table 11: Selection table [mm]²⁷⁾

Size	Bearing bracket		Impeller type K						Impeller type D			
	Sewatec	Sewabloc	Speed [rpm]						Speed [rpm]			
			1750	1160	875	700	580	500	1750	1160	875	700
050-215	S01	-	-	-	-	-	-	-	-	-	-	-
050-215	-	B01	-	-	-	-	-	-	-	-	-	-
050-216	S01	-	-	-	-	-	-	-	-	-	-	-
050-216	-	B01	-	-	-	-	-	-	-	-	-	-
050-250	S01	-	-	260	260	-	-	-	-	-	-	-
050-250	-	B01	-	260	260	-	-	-	-	-	-	-
050-251	S02	-	265	-	-	-	-	-	-	-	-	-
050-251	-	B02	265	-	-	-	-	-	-	-	-	-
065-215	S01	-	-	-	-	-	-	-	-	-	-	-
065-215	-	B01	-	-	-	-	-	-	-	-	-	-
065-216	S01	-	-	-	-	-	-	-	-	-	-	-
065-216	-	B01	-	-	-	-	-	-	-	-	-	-
065-216	S02	-	-	-	-	-	-	-	-	-	-	-
065-216	-	B02	-	-	-	-	-	-	-	-	-	-
065-250	S01	-	-	230	230	-	-	-	-	-	-	-
065-250	-	B01	-	230	230	-	-	-	-	-	-	-
080-215	S01	-	-	-	-	-	-	-	-	-	-	-
080-215	-	B01	-	-	-	-	-	-	-	-	-	-
080-216	S01	-	-	-	-	-	-	-	-	-	-	-
080-216	-	B01	-	-	-	-	-	-	-	-	-	-
080-216	S02	-	-	-	-	-	-	-	-	-	-	-
080-216	-	B02	-	-	-	-	-	-	-	-	-	-
080-217	S01	-	-	-	-	-	-	-	-	-	-	-
080-217	-	B01	-	-	-	-	-	-	-	-	-	-
080-250	S01	-	-	235	-	-	-	-	-	-	-	-
080-250	-	B01	-	235	-	-	-	-	-	-	-	-
080-252	S01	-	-	-	-	-	-	-	-	-	-	-
080-252	-	B01	-	-	-	-	-	-	-	-	-	-
080-253	S02	-	-	-	-	-	-	-	-	-	-	-
080-253	-	B02	-	-	-	-	-	-	-	-	-	-
080-315	S03	-	220	-	-	-	-	-	-	260	-	-
080-315	S05	-	-	-	-	-	-	-	260	-	-	-
080-315	-	B03	220	-	-	-	-	-	-	260	-	-
080-316	S03	-	-	-	-	-	-	-	-	306	-	-
080-316	-	B03	-	-	-	-	-	-	-	306	-	-
080-317	S03	-	-	-	-	-	-	-	220	220	-	-
080-317	-	B03	-	-	-	-	-	-	220	220	-	-
100-215	S01	-	-	-	-	-	-	-	-	-	-	-
100-215	-	B01	-	-	-	-	-	-	-	-	-	-
100-250	S01	-	-	-	-	-	-	-	-	-	-	-
100-250	-	B01	-	-	-	-	-	-	-	-	-	-
100-251	S02	-	-	-	-	-	-	-	-	-	-	-
100-251	-	B02	-	-	-	-	-	-	-	-	-	-
100-252	S01	-	-	-	-	-	-	-	-	-	-	-
100-252	-	B01	-	-	-	-	-	-	-	-	-	-
100-253	S02	-	256	-	-	-	-	-	-	265	-	-
100-253	-	B02	256	-	-	-	-	-	-	265	-	-
100-254	S01	-	-	-	-	-	-	-	-	-	-	-

²⁷⁾ Selection for a fluid density of 1.0 kg/dm³ - 1.2 kg/dm³; higher densities on request only

Size	Bearing bracket		Impeller type K						Impeller type D			
			Speed [rpm]						Speed [rpm]			
	Sewatec	Sewabloc	1750	1160	875	700	580	500	1750	1160	875	700
100-254	-	B01	-	-	-	-	-	-	-	-	-	-
100-315	S05	-	-	-	-	-	-	-	222	-	-	-
100-316	S03	-	309	309	309	-	-	-	-	306	-	-
100-316	-	B03	309	309	309	-	-	-	-	306	-	-
100-317	S03	-	-	-	-	-	-	-	-	-	-	-
100-400	S04	-	-	408	408	-	-	-	-	-	-	-
100-400	S05	-	-	408	408	-	-	-	-	-	-	-
100-401	S04	-	-	404	404	-	-	-	-	-	-	-
100-401	S05	-	-	404	404	-	-	-	-	-	-	-
100-403	S04	-	-	-	-	-	-	-	408	408	-	-
100-403	S05	-	-	-	-	-	-	-	408	408	-	-
150-251	S02	-	-	-	-	-	-	-	-	-	-	-
150-251	-	B02	-	-	-	-	-	-	-	-	-	-
150-253	S02	-	-	-	-	-	-	-	-	254	254	-
150-253	-	B02	-	-	-	-	-	-	-	254	254	-
150-315	S03	-	-	-	-	-	-	-	-	317	317	-
150-315	-	B03	-	-	-	-	-	-	-	317	317	-
150-317	S03	-	309	309	-	-	-	-	309	309	-	-
150-317	-	B03	-	309	-	-	-	-	-	309	-	-
150-317	S05	-	309	309	-	-	-	-	-	-	-	-
150-400	S04	-	-	404	404	-	-	-	-	-	-	-
150-400	S05	-	-	404	404	-	-	-	-	363	-	-
150-401	S04	-	-	-	-	-	-	-	-	-	-	-
150-401	S05	-	-	-	-	-	-	-	-	-	-	-
150-401	S06	-	-	-	-	-	-	-	-	412	-	-
150-403	S04	-	-	408	408	-	-	-	-	408	-	-
150-403	S05	-	408	408	408	-	-	-	408	408	-	-
150-503	S06	-	-	508	508	508	508	-	-	464	464	464
150-503	S07	-	490	508	508	508	508	-	464	464	464	464
151-401	S05	-	-	-	-	-	-	-	-	-	-	-
151-403	S04	-	-	408	408	-	-	-	-	-	-	-
151-403	S05	-	408	408	408	-	-	-	-	-	-	-
200-315	S03	-	-	295	295	-	-	-	-	315	315	-
200-315	-	B03	-	295	295	-	-	-	-	315	315	-
200-316	S03	-	-	305	305	-	-	-	-	-	-	-
200-316	-	B03	-	305	305	-	-	-	-	-	-	-
200-317	S03	-	-	309	-	-	-	-	-	-	-	-
200-317	-	B03	-	309	-	-	-	-	-	-	-	-
200-317	S05	-	-	309	-	-	-	-	-	-	-	-
200-318	S03	-	-	309	-	-	-	-	-	-	-	-
200-318	-	B03	-	309	-	-	-	-	-	-	-	-
200-330	S04	-	-	-	-	-	-	-	-	-	-	-
200-330	S05	-	-	-	-	-	-	-	-	-	-	-
200-400	S06	-	-	-	-	-	-	-	-	402	-	-
200-400	S04	-	-	-	-	-	-	-	-	-	-	-
200-400	S05	-	-	-	-	-	-	-	-	-	-	-
200-401	S04	-	-	-	-	-	-	-	-	-	-	-
200-401	S05	-	-	-	-	-	-	-	-	-	-	-
200-401	S06	-	-	-	-	-	-	-	-	-	-	-
200-402	S04	-	-	408	408	-	-	-	-	408	-	-
200-402	S05	-	-	408	408	-	-	-	-	408	-	-
200-402	S06	-	-	408	408	-	-	-	-	408	-	-
200-403	S04	-	-	408	408	408	408	-	-	-	-	-
200-403	S05	-	-	408	408	408	408	-	-	-	-	-
200-403	S06	-	408	-	408	408	408	-	-	-	-	-

Size	Bearing bracket		Impeller type K						Impeller type D			
			Speed [rpm]						Speed [rpm]			
	Sewatec	Sewabloc	1750	1160	875	700	580	500	1750	1160	875	700
200-405	S04	-	-	-	-	-	-	-	-	408	-	-
200-405	S05	-	-	-	-	-	-	-	408	408	-	-
200-405	S06	-	-	-	-	-	-	-	408	408	-	-
200-500	S06	-	-	-	-	-	-	-	-	-	-	-
200-500	S07	-	-	-	-	-	-	-	-	-	-	-
200-500	S05	-	-	-	-	-	-	-	-	-	-	-
200-500 (Ex)	S05	-	-	-	-	-	-	-	-	-	-	-
200-501	S06	-	-	-	-	-	-	-	-	-	-	-
200-503	S06	-	-	-	-	-	-	-	-	504	-	-
200-503	S07	-	-	-	-	-	-	-	-	504	-	-
200-504	S06	-	-	508	-	-	-	-	-	-	-	-
200-504	S07	-	-	508	-	-	-	-	-	-	-	-
200-505	S06	-	-	504	-	-	-	-	-	-	-	-
200-505	S07	-	470	504	-	-	-	-	-	-	-	-
200-631	S07	-	-	-	-	-	-	-	-	-	-	-
200-631	S08	-	-	-	-	-	-	-	-	-	-	-
250-400	S04	-	-	-	-	-	-	-	-	-	-	-
250-400	S05	-	-	-	-	-	-	-	-	-	375	-
250-400	S06	-	-	-	-	-	-	-	-	375	-	-
250-401	S04	-	-	404	404	-	-	-	-	-	-	-
250-401	S05	-	-	404	404	-	-	-	-	-	-	-
250-401	S06	-	-	404	404	-	-	-	-	-	-	-
250-402	S04	-	-	-	-	-	-	-	-	408	408	-
250-402	S05	-	-	-	-	-	-	-	-	408	408	-
250-402	S06	-	-	-	-	-	-	-	-	408	408	-
250-403	S04	-	-	408	408	408	408	-	-	-	-	-
250-403	S05	-	-	408	408	408	408	-	-	-	-	-
250-403	S06	-	408	-	-	-	-	-	-	-	-	-
250-500	S06	-	-	-	-	-	-	-	-	-	-	-
250-500	S07	-	-	-	-	-	-	-	-	-	-	-
250-630	S07	-	-	-	-	-	-	-	-	-	-	-
250-630	S08	-	-	-	-	-	-	-	-	-	-	-
250-632	S07	-	-	-	-	-	-	-	-	-	-	-
250-632	S08	-	-	638	-	-	-	-	-	-	-	-
250-900	S09	-	-	-	840	-	-	-	-	-	-	-
300-400	S04	-	-	-	408	408	-	-	-	-	-	-
300-400	S05	-	-	408	408	408	-	-	-	-	408	-
300-400	S06	-	-	-	-	-	-	-	-	408	-	-
300-401	S04	-	-	-	408	408	-	-	-	-	-	-
300-401	S05	-	-	408	408	408	-	-	-	-	-	-
300-403	S05	-	-	408	408	408	408	-	-	-	-	-
300-500	S06	-	-	-	-	504	-	-	-	-	-	-
300-500	S07	-	-	-	504	504	-	-	-	-	-	-
300-505	S06	-	-	508	508	508	508	-	-	508	508	508
300-505	S07	-	-	508	-	-	-	-	-	508	508	508
300-630	S07	-	-	-	-	-	-	-	-	-	-	-
300-630	S08	-	-	-	-	-	-	-	-	-	-	-
350-500	S06	-	-	-	-	508	-	-	-	-	-	-
350-500	S07	-	-	-	508	508	-	-	-	-	-	-
350-501	S06	-	-	-	-	-	-	-	-	-	-	-
350-501	S07	-	-	-	-	-	-	-	-	-	-	-
350-503	S06	-	-	508	508	508	508	-	-	508	508	508
350-503	S07	-	-	508	-	-	-	-	-	508	508	508
350-632	S07	-	-	-	638	638	638	-	-	-	-	-
350-632	S08	-	-	-	638	638	638	-	-	-	-	-

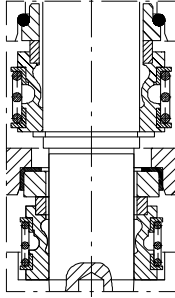
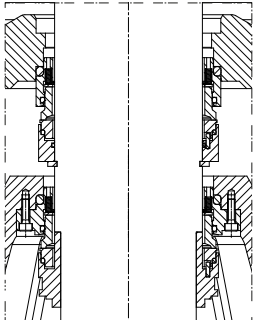
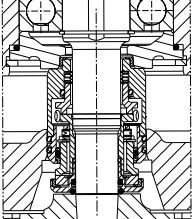
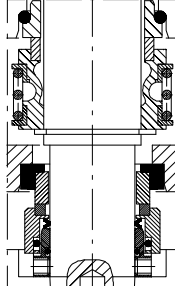
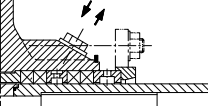
Size	Bearing bracket		Impeller type K						Impeller type D			
			Speed [rpm]						Speed [rpm]			
	Sewatec	Sewabloc	1750	1160	875	700	580	500	1750	1160	875	700
350-633	S07	-	-	638	638	638	638	-	-	-	-	-
350-633	S08	-	-	638	-	-	-	-	-	-	-	-
350-710	S07	-	-	-	-	-	-	-	-	-	-	-
350-710	S08	-	-	-	730	-	-	-	-	-	-	-
350-713	S08	-	-	738	-	-	-	-	-	-	-	-
350-713	S09	-	-	738	-	-	-	-	-	-	-	-
400-500	S06	-	-	-	464	508	-	-	-	-	-	-
400-500	S07	-	-	-	508	508	-	-	-	-	-	-
400-632	S08	-	-	-	638	-	-	-	-	-	-	-
400-710	S09	-	-	-	739	-	-	-	-	-	-	-
400-713	S09	-	-	738	738	-	-	-	-	-	-	-
400-900	S09	-	-	-	830	-	-	-	-	-	-	-
500-632	S08	-	-	-	-	-	-	-	-	-	-	-
500-634	S07	-	-	-	-	626	626	-	-	-	-	-
500-634	S08	-	-	-	626	626	626	-	-	-	-	-
500-710	S09	-	-	-	739	-	-	-	-	-	-	-
500-900	S09	-	-	-	-	908	908	-	-	-	-	-
500-900	S10	-	-	-	-	908	908	-	-	-	-	-
600-520	S07	-	-	-	-	532	-	-	-	-	-	-
600-710	S08	-	-	-	-	715	715	-	-	-	-	-
600-900	S10	-	-	-	-	908	908	-	-	-	-	-
700-902	S08	-	-	-	-	904	904	904	-	-	-	-
700-902	S09	-	-	-	-	-	-	-	-	-	-	-
300-502	S06	-	-	-	-	-	-	-	-	508	508	508
300-502	S07	-	-	-	-	-	-	-	-	508	508	508
350-502	S06	-	-	-	-	-	-	-	-	-	508	508
350-502	S07	-	-	-	-	-	-	-	-	-	508	508
300-710	S09	-	-	-	-	-	-	-	-	-	-	-

Shaft seal

Table 12: Symbols key

Symbol	Description
X	Available
-	Not available
■	Non-standard

Table 13: Available shaft seal types per bearing bracket

Bearing bracket		Standard design		Standard variant ²⁸⁾		
Sewatec	Sewabloc	Mechanical seal with elastomer bellows (NBR, optional: Viton) ²⁹⁾	Stationary mechanical seal with spring outside of fluid handled (KSB 4STC)	Double cartridge seal (KSB 4STQ) ³⁰⁾	Inboard mechanical seal with covered spring ³⁰⁾	Gland packing
						
S01	—	X	-	X	■	-
—	B01	X	-	X	■	-
S02	—	X	-	X	■	-
—	B02	X	-	X	■	-
S03	—	X	-	X	■	-
—	B03	X	-	X	■	-
S04	—	X	-	-	X	-
S05	—	X	-	■	X	X
S06	—	X	-	-	■	X
S07	—	X	-	-	■	X
S08	—	-	X	■	-	X
S09	—	—	X	■	-	X
S10	—	—	X	■	-	X

²⁸⁾ The selection of standard variants or special designs will result in surcharges and longer delivery times.

²⁹⁾ For all types of waste water

³⁰⁾ For very abrasive fluids or fluids containing metallic particles (e.g. shavings from drilling)

Technical data
Impeller type F
Table 14: Key to the symbols

Symbol	Description
■	Optional
✕	Standard

Table 15: Overview

Size	Bearing bracket		Suction nozzle	Discharge nozzle	Pump data								Impeller				
					Torsional spring constant	Shaft seal		Pressure limits		Inspection hole diameter		No. of impeller channels	Max. free passage	Max. impeller diameter	Min. impeller diameter	Moment of inertia J, based on water	
	Gland packing	Mechanical seal				Max. operating pressure	Max. test pressure	Casing	Flanged spacer								
										[Nm/rad]	[bar]						[bar]
	Sewatec	Sewabloc	[mm]	[mm]									[mm]	[mm]	[mm]	[kgm ²]	
050-215	S01	-	65	50	13000	-	✗	10	15	-	80	-	42	210	130	0,09	
050-215	-	B01	65	50	13000	-	✗	10	15	-	80	-	42	210	130	0,09	
050-216	S01	-	65	50	13000	-	✗	10	15	-	80	-	25	210	120	0,025	
050-216	-	B01	65	50	13000	-	✗	10	15	-	80	-	25	210	120	0,025	
065-215	S01	-	80	65	13000	-	✗	6	9	-	80	-	65	210	120	0,025	
065-215	-	B01	80	65	13000	-	✗	6	9	-	80	-	65	210	120	0,025	
065-217	S01	-	80	65	13000	-	✗	7	10,5	-	80	-	65	200	120	0,02	
065-217	-	B01	80	65	13000	-	✗	7	10,5	-	80	-	65	200	120	0,02	
080-215	S01	-	100	80	13000	-	✗	6	9	-	120	-	76	200	120	0,025	
080-215	-	B01	100	80	13000	-	✗	6	9	-	120	-	76	200	120	0,025	
080-216	S01	-	100	80	13000	-	✗	7	10,5	-	120	-	80	210	120	0,025	
080-216	-	B01	100	80	13000	-	✗	7	10,5	-	120	-	80	210	120	0,025	
080-217	S01	-	100	80	13000	-	✗	6	9	-	120	-	76	200	120	0,025	
080-217	-	B01	100	80	13000	-	✗	6	9	-	120	-	76	200	120	0,025	
080-252	S01	-	100	80	13000	-	✗	6	9	-	120	-	76	210/250	150	0,095	
080-252	-	B01	100	80	13000	-	✗	6	9	-	120	-	76	210/250	150	0,095	
080-253	S02	-	100	80	50000	-	✗	8	12	-	120	-	76	265	150	0,14	
080-253	-	B02	100	80	50000	-	✗	8	12	-	120	-	76	265	150	0,14	
080-317	S03	-	100	80	80000	-	✗	10	15	-	120	-	76	240	150	0,14	
080-317	-	B03	100	80	80000	-	✗	10	15	-	120	-	76	240	150	0,14	
100-215	S01	-	100	100	13000	-	✗	6	9	100	120	-	100	210	120	0,025	
100-215	-	B01	100	100	13000	-	✗	6	9	100	120	-	100	210	120	0,025	
100-251	S02	-	100	100	50000	-	✗	6	9	118	120	-	100	265	249	0,119	
100-251	-	B02	100	100	50000	-	✗	6	9	118	120	-	100	265	249	0,119	
100-252	S01	-	100	100	50000	-	✗	6	9	118	120	-	100	210/265	170	0,119	
100-252	-	B01	100	100	50000	-	✗	6	9	118	120	-	100	210/265	170	0,119	
100-253	S02	-	100	100	50000	-	✗	6	9	118	120	-	100	265	249	0,119	
100-253	-	B02	100	100	50000	-	✗	6	9	118	120	-	100	265	249	0,119	
100-254	S01	-	100	100	13000	-	✗	6	9	118	120	-	100	210/265	170	0,119	
100-254	-	B01	100	100	13000	-	✗	6	9	118	120	-	100	210/265	170	0,119	
100-316	S03	-	150	100	80000	-	✗	6	9	90	150	-	100	310	236	0,075	
100-316	-	B03	150	100	80000	-	✗	6	9	90	150	-	100	310	236	0,075	
100-401	S04	-	125	100	190000	-	✗	10	13	120	120	-	100	390	325	0,475	
100-401	S05	-	125	100	220000	■	✗	10	13	120	120	-	100	390	325	0,475	
150-315	S03	-	150	150	80000	-	✗	6	9	118	150	-	120	290	250	0,214	
150-315	-	B03	150	150	80000	-	✗	6	9	118	150	-	120	290	250	0,214	
150-401	S04	-	150	150	190000	-	✗	10	15	120	200	-	135	390	325	0,475	
150-401	S05	-	150	150	220000	■	✗	10	15	120	200	-	135	390	325	0,475	

Impeller type E

Table 16: Key to the symbols

Symbol	Description
■	Optional
✕	Standard

Table 17: Overview

Size	Bearing bracket		Suction nozzle	Discharge nozzle	Pump data							Impeller				
					Torsional spring constant	Shaft seal		Pressure limits		Inspection hole diameter		No. of impeller channels	Max. free passage	Max. impeller diameter	Min. impeller diameter	Moment of inertia J, based on water
	Gland packing	Mechanical seal				Max. operating pressure	Max. test pressure	Casing	Flanged spacer							
										[mm]	[mm]					
065-216	S02	-	80	65	50000	-	✗	6	9	-	80	-	65	183	140	0,02
065-216	-	B02	80	65	50000	-	✗	6	9	-	80	-	65	183	140	0,02
080-216	S02	-	100	80	50000	-	✗	7	10,5	-	120	-	76	210	160	0,035
080-216	-	B02	100	80	50000	-	✗	7	10,5	-	120	-	76	210	160	0,035
080-253	S02	-	100	80	50000	-	✗	6	9	-	120	-	76	270	210	0,14
100-250	S01	-	100	100	13000	-	✗	6	9	118	120	-	100	245	-	0,16
100-253	S02	-	150	100	50000	-	✗	6	9	118	120	-	76	270	210	0,17
100-253	-	B02	150	100	50000	-	✗	6	9	118	120	-	76	270	210	0,17
100-317	S03	-	125	100	80000	-	✗	7	10,5	85	120	-	76	328	286	0,25
150-317	S03	-	150	150	80000	-	✗	6	9	118	150	-	110	320	232	0,31

Impeller type D
Table 18: Key to the symbols

Symbol	Description
■	Optional
✕	Standard

Table 19: Overview

Size	Bearing bracket		Suction nozzle	Discharge nozzle	Pump data							Impeller				
					Torsional spring constant	Shaft seal		Pressure limits		Inspection hole diameter		No. of impeller channels	Max. free passage	Max. impeller diameter	Min. impeller diameter	Moment of inertia J, based on water
	Gland packing	Mechanical seal				Max. operating pressure	Max. test pressure	Casing	Flanged spacer							
										[Nm/rad]	[bar]					
	Sewatec	Sewabloc	[mm]	[mm]												
080-315	S03	-	100	80	80000	-	✗	10	15	-	120	1	70	260	242	0,124
080-315	S05	-	100	80	220000	-	✗	10	15	-	120	1	70	260	242	0,124
080-315	-	B03	100	80	80000	-	✗	10	15	-	120	1	70	260	242	0,124
080-316	S03	-	125	80	80000	-	✗	10	15	-	120	1	70	306	280	0,222
080-316	-	B03	125	80	80000	-	✗	10	15	-	120	1	70	306	280	0,222
080-317	S03	-	100	80	80000	-	✗	10	15	-	120	1	75	220	180	0,0471
080-317	-	B03	100	80	80000	-	✗	10	15	-	120	1	75	220	180	0,0471
100-253	S02	-	150	100	50000	-	✗	6	9	118	120	1	76	265	234	0,115
100-253	-	B02	150	100	50000	-	✗	6	9	118	120	1	76	265	234	0,115
100-315	S05	-	125	100	220000	-	✗	10	15	100	120	1	75	222	196	0,065
100-316	S03	-	150	100	80000	-	✗	10	15	100	150	1	85	306	270	0,223
100-316	-	B03	150	100	80000	-	✗	10	15	100	150	1	85	306	270	0,223
100-403	S04	-	200	100	190000	■	✗	10	15	100	150	2	76	408	300	0,5
100-403	S05	-	200	100	220000	■	✗	10	15	100	150	2	76	408	300	0,5
150-253	S02	-	150	150	50000	-	✗	6	9	120	150	1	100	254	225	0,150
150-253	-	B02	150	150	50000	-	✗	6	9	120	150	1	100	254	225	0,150
150-315	S03	-	150	150	80000	-	✗	6	9	118	150	1	100	317	280	0,289
150-315	-	B03	150	150	80000	-	✗	6	9	118	150	1	100	317	280	0,289
150-317	S03	-	200	150	80000	-	✗	6	9	118	200	2	76	309	250	0,17
150-317	-	B03	200	150	80000	-	✗	6	9	118	200	2	76	309	250	0,17
150-400	S05	-	200	150	220000	■	✗	10	15	100	200	1	100	363	326	0,573
150-401	S05	-	250	150	220000	■	✗	10	15	120	200	1	110	412	370	0,999
150-401	S06	-	250	150	370000	■	✗	10	15	120	200	1	110	412	370	0,999
150-403	S04	-	200	150	190000	■	✗	10	15	100	200	2	76	408	408	0,53
150-403	S05	-	200	150	220000	■	✗	10	15	100	200	2	76	408	408	0,53
150-503	S06	-	200	150	370000	■	✗	13,8	20,7	118	200	2	76	508	400	1,13
150-503	S07	-	200	150	1020000	■	✗	13,8	20,7	118	200	2	76	508	400	1,13
200-315	S03	-	200	200	80000	-	✗	6	9	118	200	1	100	315	280	0,261
200-315	-	B03	200	200	80000	-	✗	6	9	118	200	1	100	315	280	0,261
200-400	S05	-	250	200	220000	■	✗	10	15	125	200	1	100	402	355	0,825
200-400	S06	-	250	200	370000	■	✗	10	15	125	200	1	100	402	355	0,825
200-402	S04	-	250	200	190000	■	✗	10	15	140	200	3	80	408	300	0,5
200-402	S05	-	250	200	220000	■	✗	10	15	140	200	3	80	408	300	0,5
200-402	S06	-	250	200	370000	■	✗	10	15	140	200	3	80	408	300	0,5
200-405	S04	-	250	200	370000	■	✗	10	15	140	200	2	90	408	300	0,55
200-405	S05	-	250	200	190000	■	✗	10	15	140	200	2	90	408	300	0,55
200-405	S06	-	250	200	220000	■	✗	10	15	140	200	2	90	408	300	0,55
200-503	S06	-	250	200	370000	■	✗	10	15	118	200	2	90	508	400	1,2
200-503	S07	-	250	200	370000	■	✗	10	15	118	200	2	90	508	400	1,2
250-400	S05	-	250	200	370000	■	✗	10	15	143	200	1	120	375	320	0,653
250-400	S06	-	250	250	370000	■	✗	10	15	143	200	1	120	375	320	0,653
250-402	S04	-	250	250	190000	■	✗	10	15	143	200	3	106	398	300	0,6
250-402	S05	-	250	250	220000	■	✗	10	15	143	200	3	106	398	300	0,6
250-402	S06	-	250	250	370000	■	✗	10	15	143	200	3	106	398	300	0,6

Size	Bearing bracket		Suction nozzle	Discharge nozzle	Pump data							Impeller				
					Torsional spring constant	Shaft seal		Pressure limits		Inspection hole diameter		No. of impeller channels	Max. free passage	Max. impeller diameter	Min. impeller diameter	Moment of inertia J, based on water
	Gland packing	Mechanical seal				Max. operating pressure	Max. test pressure	Casing	Flanged spacer							
										[mm]	[mm]					
300-400	S05	-	300	300	220000	■	✗	10	15	143	200	1	150	408	375	0,925
300-400	S06	-	300	300	370000	■	✗	10	15	143	200	1	150	408	375	0,925
300-402	S04	-	300	300	190000	■	✗	10	15	143	200	3	100	408	300	0,63
300-402	S05	-	300	300	220000	■	✗	10	15	143	200	3	100	408	300	0,63
300-402	S06	-	300	300	370000	■	✗	10	15	143	200	3	100	408	300	0,63
300-502	S06	-	300	300	370000	■	✗	10	15	143	200	2	102	508	400	2,5
300-502	S07	-	300	300	1020000	■	✗	10	15	143	200	2	102	508	400	2,5
300-505	S06	-	300	300	370000	■	✗	10	15	143	200	2	127	508	400	2,5
300-505	S07	-	300	300	1020000	■	✗	10	15	143	200	2	127	508	400	2,5
350-502	S06	-	350	300	370000	■	✗	6	9	143	200	2	145	508	400	3,5
350-502	S07	-	350	300	1020000	■	✗	6	9	143	200	2	145	508	400	3,5
350-503	S06	-	350	300	370000	■	✗	6	9	143	200	2	140	508	400	3,5
350-503	S07	-	350	300	1020000	■	✗	6	9	143	200	2	140	508	400	3,5

Impeller type K
Table 20: Key to the symbols

Symbol	Description
■	Optional
X	Standard

Table 21: Overview

Size	Bearing bracket		Suction nozzle	Discharge nozzle	Pump data							Impeller				
					Torsional spring constant	Shaft seal		Pressure limits		Inspection hole diameter		No. of impeller channels	Max. free passage	Max. impeller diameter	Min. impeller diameter	Moment of inertia J, based on water
	Gland packing	Mechanical seal						Max. operating pressure	Max. test pressure	Casing	Flanged spacer					
						[Nm/rad]	[bar]	[bar]	[mm]							
	Sewatec	Sewabloc	[mm]	[mm]												
050-250	S01	-	65	50	13000	-	✗	10	15	-	80	3	15	260	150	0,05
050-250	-	B01	65	50	13000	-	✗	10	15	-	80	3	15	260	150	0,05
050-251	S02	-	65	50	50000	-	✗	10	15	-	80	3	15	256	150	0,05
050-251	-	B02	65	50	50000	-	✗	10	15	-	80	3	15	256	150	0,05
065-250	S01	-	80	65	13000	-	✗	6	9	-	80	2	50	230	170	0,08
065-250	-	B01	80	65	13000	-	✗	6	9	-	80	2	50	230	170	0,08
080-250	S01	-	100	80	13000	-	✗	6	9	-	120	2	71	235	205	0,08
080-250	-	B01	100	80	13000	-	✗	6	9	-	120	2	71	235	205	0,08
080-315	S03	-	100	80	80000	-	✗	10	15	-	120	2	33	220	140	0,07
080-315	S05	-	100	80	220000	-	✗	10	15	-	120	2	33	220	140	0,07
080-315	-	B03	100	80	80000	-	✗	10	15	-	120	2	33	220	140	0,07
100-253	S02	-	150	100	50000	-	✗	6	9	118	120	2	76	256	200	0,15
100-253	-	B02	150	100	50000	-	✗	6	9	118	120	2	76	256	200	0,15
100-254	S01	-	100	100	13000	-	✗	6	9	118	120	2	71	256	210	0,07
100-254	-	B01	100	100	13000	-	✗	6	9	118	120	2	71	256	210	0,07
100-316	S03	-	150	100	80000	-	✗	6	9	90	150	2	100	312	236	0,075
100-316	-	B03	150	100	80000	-	✗	6	9	90	150	2	100	312	236	0,075
100-400	S04	-	150	100	190000	-	✗	10	15	100	150	2	76	408	355	1,1
100-400	S05	-	150	100	220000	■	✗	10	15	100	150	2	76	408	355	1,1
100-401	S04	-	125	100	190000	-	✗	10	13	120	120	2	50	404	310	0,50
100-401	S05	-	125	100	220000	■	✗	10	13	120	120	2	50	404	310	0,50
150-317	S03	-	150	150	80000	-	✗	6	9	100	150	2	76	309	250	0,28
150-317	S05	-	150	150	220000	■	✗	6	9	100	150	2	76	309	250	0,28
150-317	-	B03	150	150	80000	-	✗	6	9	100	150	2	76	309	250	0,28
150-400	S04	-	200	150	190000	-	✗	10	15	100	200	3	76	404	300	0,83
150-400	S05	-	200	150	220000	■	✗	10	15	100	200	3	76	404	300	0,83
150-403	S04	-	200	150	190000	-	✗	10	15	100	200	2	76	408	300	0,691
150-403	S05	-	200	150	220000	■	✗	10	15	100	200	2	76	408	300	0,691
150-503	S06	-	150	150	370000	■	✗	10	15	118	200	2	76	508	400	0,91
150-503	S07	-	150	150	1020000	■	✗	10	15	118	200	2	76	508	400	0,91
151-403	S04	-	200	150	190000	-	✗	10	15	100	200	2	76	408	340	0,691
151-403	S05	-	200	150	220000	■	✗	10	15	100	200	2	76	408	340	0,691
200-315	S03	-	200	200	80000	-	✗	6	9	118	200	3	70	295	210	0,22
200-315	-	B03	200	200	80000	-	✗	6	9	118	200	3	70	295	210	0,22
200-316	S03	-	200	200	80000	-	✗	6	9	118	200	2	100	305	230	0,22
200-316	-	B03	200	200	80000	-	✗	6	9	118	200	2	100	305	230	0,22
200-317	S03	-	200	200	80000	-	✗	4	6	118	200	3	76	309	240	0,40
200-317	S05	-	200	200	220000	■	✗	4	6	118	200	3	76	309	240	0,40
200-317	-	B03	200	200	80000	-	✗	4	6	118	200	3	76	309	240	0,40
200-318	S03	-	200	200	80000	-	✗	4	6	118	200	2	100	309	230	0,28
200-318	-	B03	200	200	80000	-	✗	4	6	118	200	2	100	309	230	0,28
200-402	S04	-	200	200	190000	-	✗	10	15	140	200	3	80	408	300	0,52
200-402	S05	-	200	200	220000	■	✗	10	15	140	200	3	80	408	300	0,52
200-402	S06	-	200	200	370000	■	✗	10	15	140	200	3	80	408	300	0,52

Size	Bearing bracket		Suction nozzle	Discharge nozzle	Pump data							Impeller				
					Torsional spring constant	Shaft seal		Pressure limits		Inspection hole diameter		No. of impeller channels	Max. free passage	Max. impeller diameter	Min. impeller diameter	Moment of inertia J, based on water
	Max. operating pressure	Max. test pressure						Casing	Flanged spacer							
						[Nm/rad]	Gland packing			Mechanical seal	[bar]					
200-403	S04	-	200	200	190000	-	✗	10	15	140	200	2	90	408	300	0,931
200-403	S05	-	200	200	220000	■	✗	10	15	140	200	2	90	408	300	0,931
200-504	S06	-	250	200	370000	■	✗	10	15	118	200	3	76	508	400	0,83
200-504	S07	-	250	200	1020000	■	✗	10	15	118	200	3	76	508	400	0,83
200-505	S06	-	250	200	370000	■	✗	12	18	118	200	2	90	508	400	1,636
200-505	S07	-	250	200	1020000	■	✗	12	18	118	200	2	90	508	400	1,636
250-401	S04	-	250	250	190000	-	✗	10	15	143	200	2	105	404	310	0,56
250-401	S05	-	250	250	220000	■	✗	10	15	143	200	2	105	404	310	0,56
250-401	S06	-	250	250	370000	■	✗	10	15	143	200	2	105	404	310	0,56
250-403	S04	-	250	250	190000	-	✗	10	15	143	200	2	107	408	300	1,13
250-403	S05	-	250	250	220000	■	✗	10	15	143	200	2	107	408	300	1,13
250-403	S06	-	250	250	370000	■	✗	10	15	143	200	2	107	408	300	1,13
250-632	S07	-	250	250	1020000	■	✗	11	16,5	143	200	3	105	638	500	5,684
250-632	S08	-	250	250	1400000	■	✗	11	16,5	143	200	3	105	638	500	5,684
250-900	S09	-	350	250	2500000	■	✗	13	19,5	100	-	3	110	840	717	19,03
300-400	S04	-	300	300	190000	-	✗	10	15	143	200	3	100	388	332	0,75
300-400	S05	-	300	300	220000	■	✗	10	15	143	200	3	100	388	332	0,75
300-401	S04	-	300	300	190000	-	✗	10	15	143	200	2	135	408	367	0,75
300-401	S05	-	300	300	220000	■	✗	10	15	143	200	2	135	408	367	0,75
300-403	S05	-	300	300	220000	■	✗	10	15	143	200	2	110	408	300	1,439
300-500	S06	-	300	300	370000	■	✗	6	9	143	200	3	100	504	430	1,48
300-500	S07	-	300	300	1020000	■	✗	6	9	143	200	3	100	504	430	1,48
300-505	S06	-	300	300	370000	■	✗	10	15	143	200	3	127	508	400	2,919
300-505	S07	-	300	300	1020000	■	✗	10	15	143	200	3	127	508	400	2,919
350-500	S06	-	350	350	370000	■	✗	6	9	143	200	3	110	508	393	3,12
350-500	S07	-	350	350	1020000	■	✗	6	9	143	200	3	110	508	393	3,12
350-503	S06	-	350	350	370000	■	✗	6	9	143	200	2	140	508	400	4,073
350-503	S07	-	350	350	1020000	■	✗	6	9	143	200	2	140	508	400	4,073
350-632	S07	-	350	350	1020000	■	✗	10	15	143	200	3	140	638	500	6,451
350-632	S08	-	350	350	1400000	■	✗	10	15	143	200	3	140	638	500	6,451
350-633	S07	-	350	350	1020000	■	✗	10	15	143	200	2	140	638	500	6,978
350-633	S08	-	350	350	1400000	■	✗	10	15	143	200	2	140	638	500	6,978
350-710	S08	-	400	350	1400000	■	✗	10	15	143	200	3	110	730	580	10,6
350-713	S08	-	350	350	1400000	■	✗	13	19,5	143	200	2	125	738	580	14,557
400-500	S06	-	400	400	370000	■	✗	6	9	200	200	3	130	508	355	3,37
400-500	S07	-	400	400	1020000	■	✗	6	9	200	200	3	130	508	355	3,37
400-632	S08	-	500	400	1400000	■	✗	6	9	200	200	3	142	638	527	9,074
400-710	S09	-	500	400	2500000	■	✗	10	15	150	200	3	145	739	587	16,0
400-713	S09	-	500	400	2500000	■	✗	8	13,5	200	200	2	145	738	580	15,894
400-900	S09	-	500	400	2500000	■	✗	13	19,5	143	-	3	125	830	659	17,79
500-634	S07	-	500	500	1020000	■	✗	5	7,5	200	200	3	132	638	500	9,503
500-634	S08	-	500	500	1400000	■	✗	5	7,5	200	200	3	132	638	500	9,503
500-710	S09	-	500	500	2500000	■	✗	8	12	200	-	3	150	700	586	16,0
500-900	S09	-	600	500	2500000	■	✗	9	13,5	200	-	3	178	908	721	45,0
500-900	S10	-	600	500	5000000	■	✗	9	13,5	200	-	3	178	908	721	45,0
600-520	S07	-	500	600	1020000	■	✗	4	6	200	200	3	145	532	457	7,02
600-710	S08	-	600	600	1400000	■	✗	4	6	200	200	3	165	736	664	16,96
600-900	S10	-	750	600	5000000	■	✗	9	13,5	200	-	3	180	908	760	50,0
700-902	S08	-	750	750	1400000	■	✗	3,5	5	200	200	3	190	904	738	40,0
700-902	S09	-	750	750	1500000	■	✗	4,5	5,85	200	200	3	190	904	738	40,0

Comments

- F, E and D impellers cannot be trimmed. They are available in several sizes for each nominal diameter.
- Impeller type K can be trimmed. For reasons of efficiency it is preferable to adjust the pump set to the duty point by means of the above transmission ratios.

Motor ratings

Table 22: Motor ratings 60 Hz

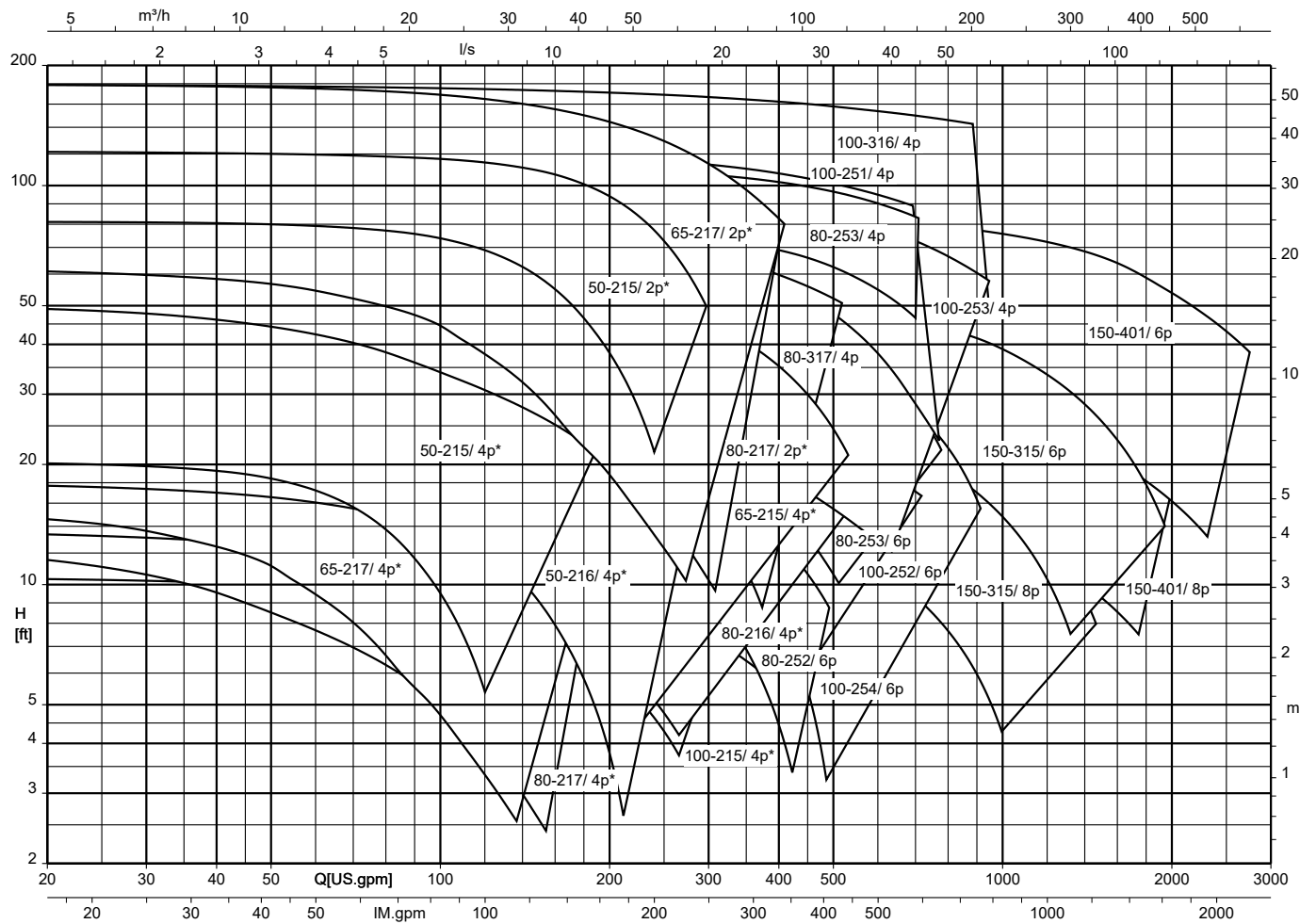
Motor size	Motor rating [hp]				
	4-pole, 1450 rpm	6-pole, 1160 rpm	8-pole, 875 rpm	10-pole, 700 rpm	12-pole, 585 rpm
T 182	3	1.5	-	-	-
T 184	5	2	1.5	-	-
T 213	7,5	3	2	1.5	-
T 215	10	5	3	2	-
T 254	15	7.5	5	3	-
T 256	20	10	7.5	5	-
T 284	25	15	10	7.5	-
T 286	30	20	15	10	-
T 324	40	25	20	15	-
T 326	50	30	25	20	-
T 364	60	40	30	25	-
T 365	75	50	40	30	25
T 404	-	60	50	40	30
T 405	100	75	60	50	40
T 444	125	100	75	60	50
T 445	150	125	100	75	60
T 447	-	200	150	125	100
		150	125	100	75
T 449	-	250	200	150	125
			150		
T 504	-	150	125	100	75
T 505	-	200	150	125	100
T 586	-	350	250	200	150
		300	200	150	125
T 587	-	400	350	-	-
		350	300		

Power reserve

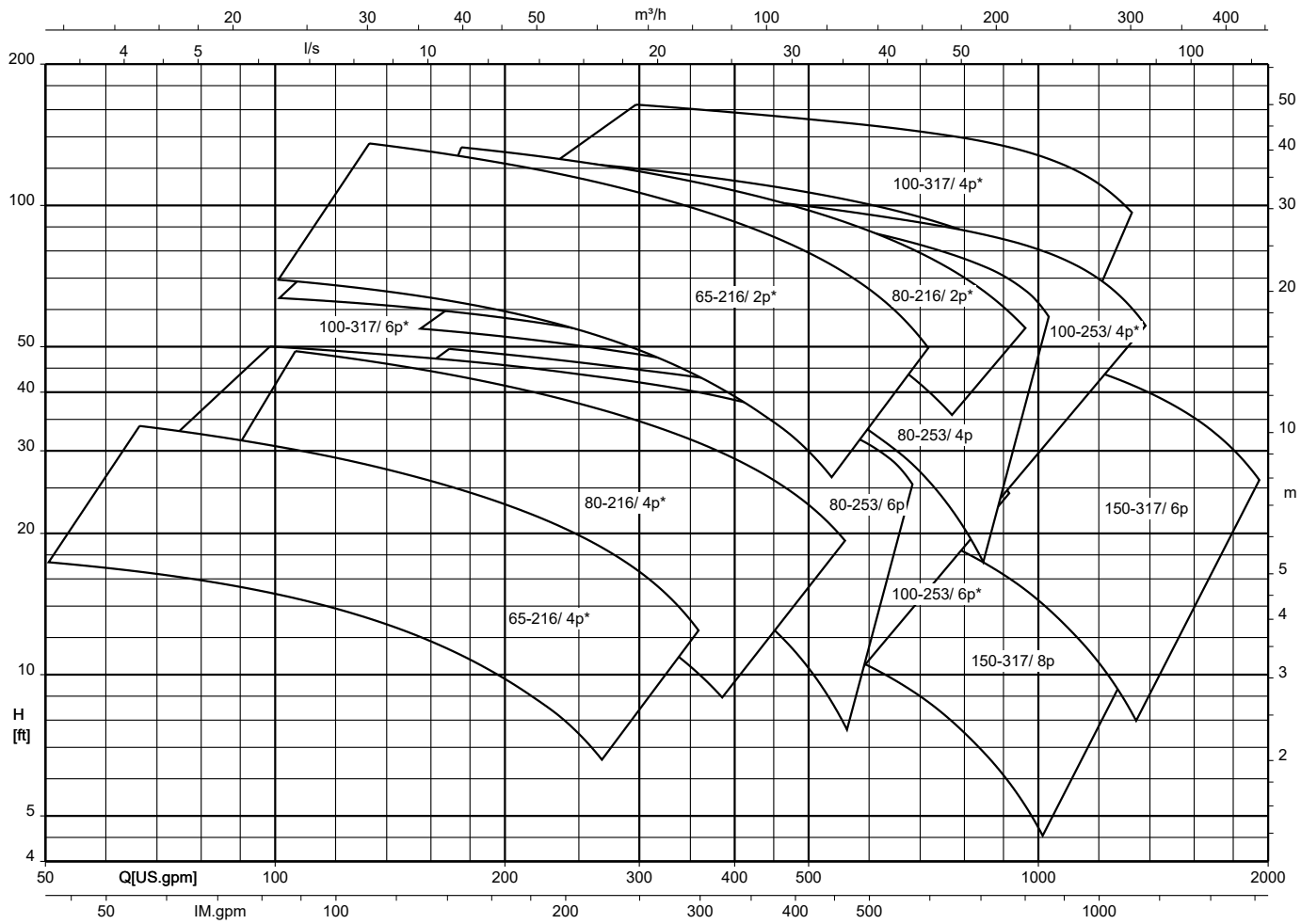
Pump input power	Recommended power reserve for the drive
[hp]	[%]
≤ 10	≈ 30 (≥ 1,34 hp)
> 10 to 29,5	≈ 20
> 29,5 to 73,8	≈ 15
> 73,8	≈ 10

Selection charts

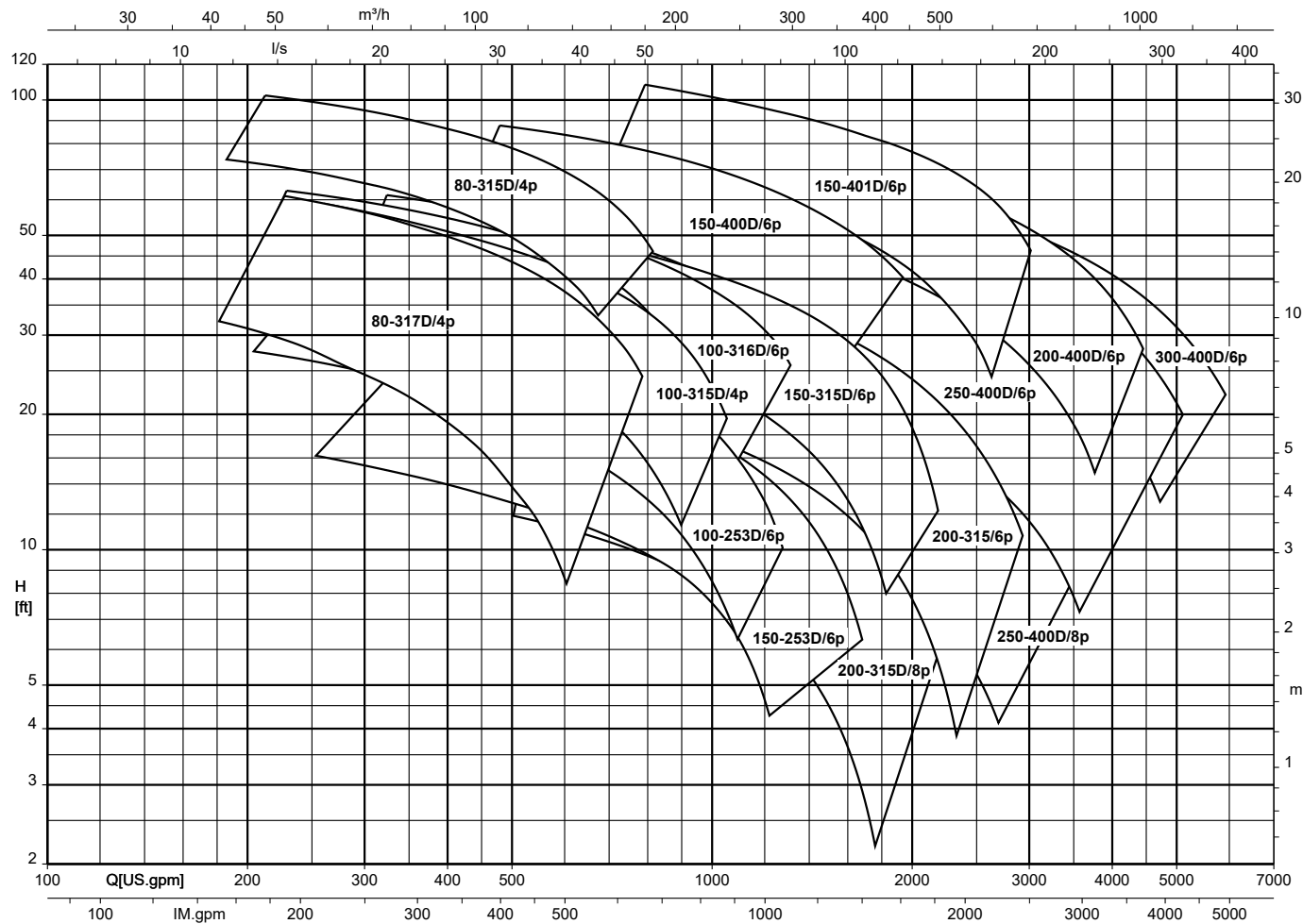
Sewatec/Sewabloc F + *F-max, n = 3600/1750/1160/875 rpm (diameter-based selection chart)



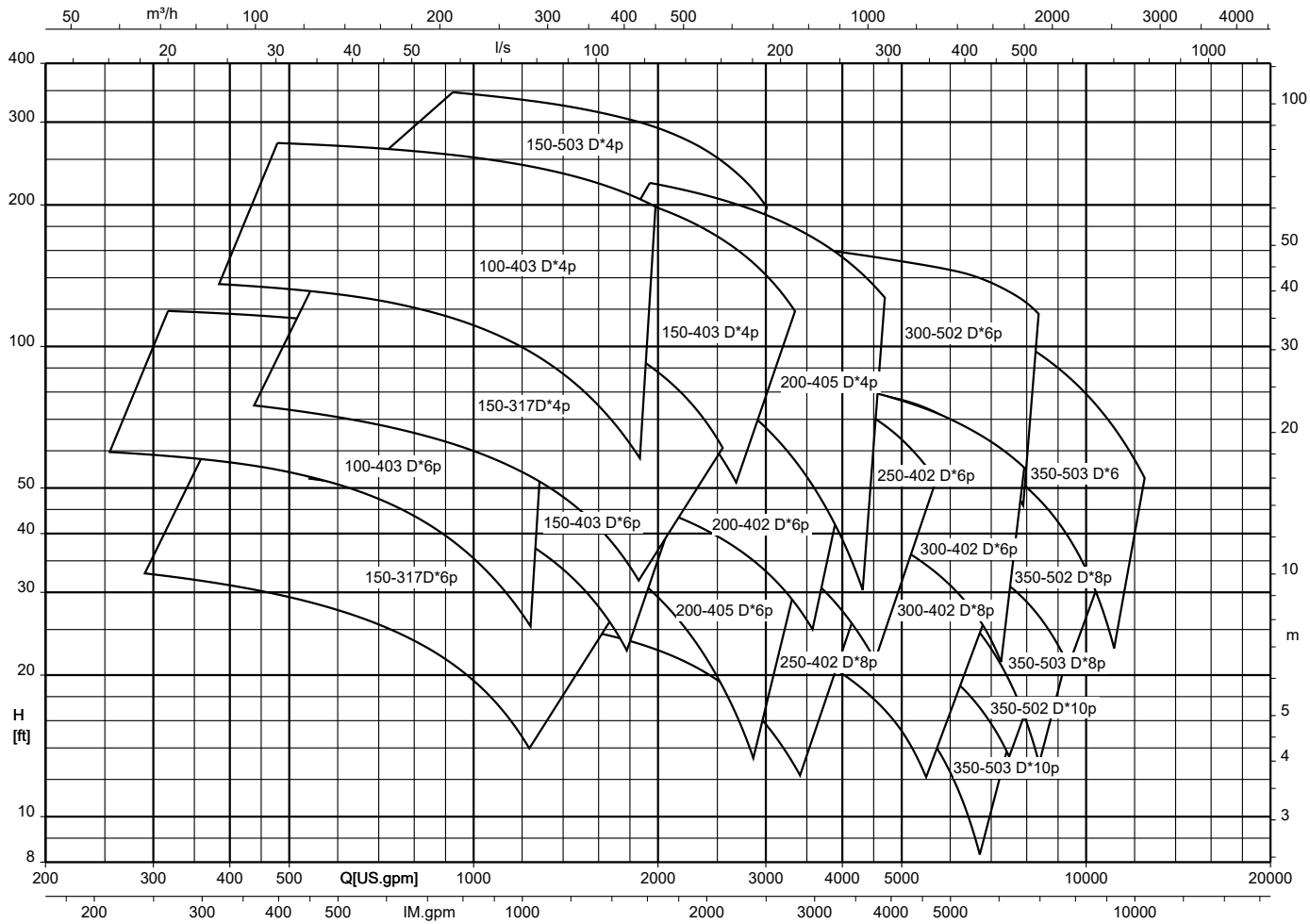
Sewatec/Sewabloc E + *E-max, n = 1750/1160/875/700/585 rpm (diameter-based selection chart)



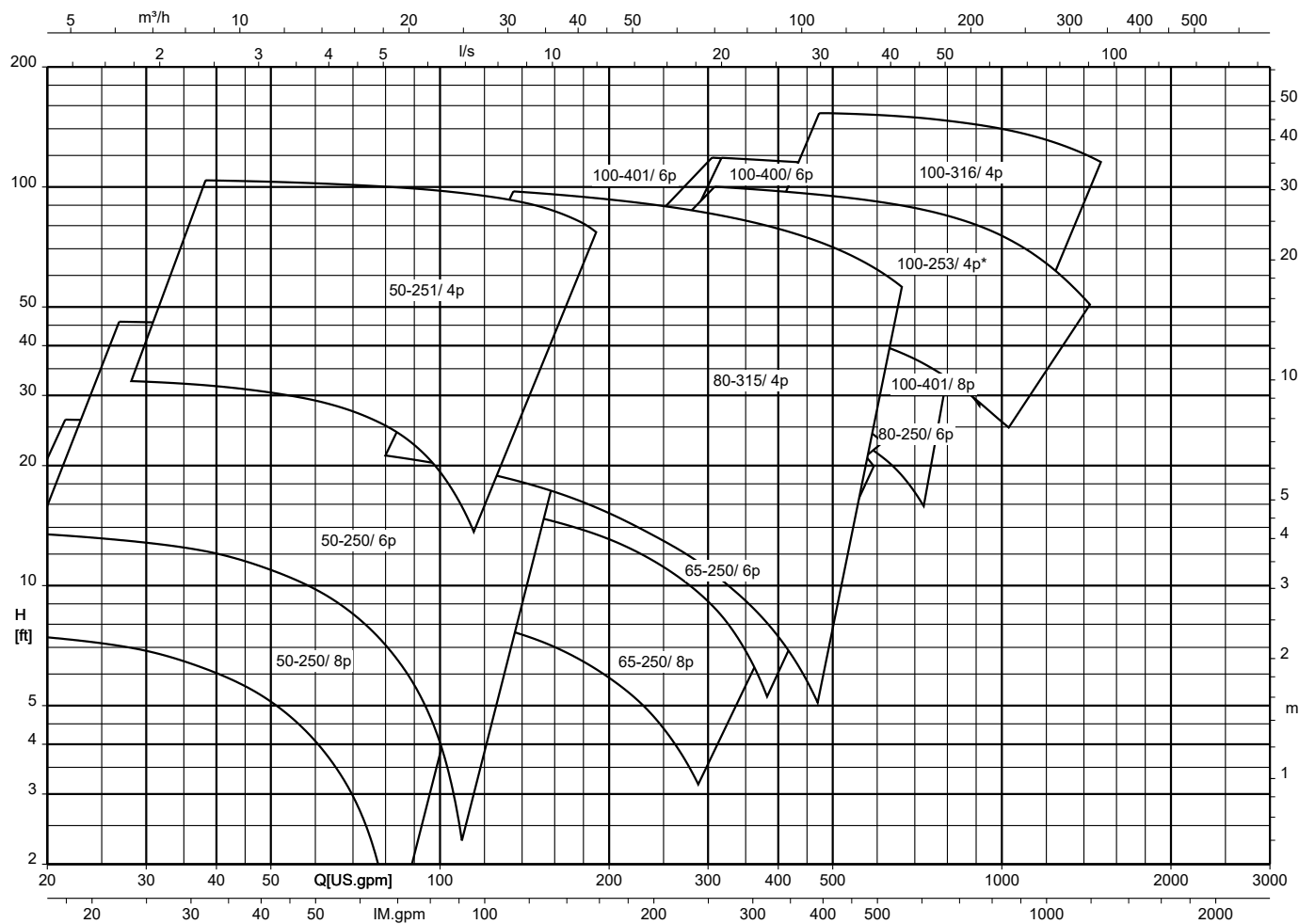
Sewatec/Sewabloc D, n = 1750/1160/875 rpm (diameter-based selection chart)



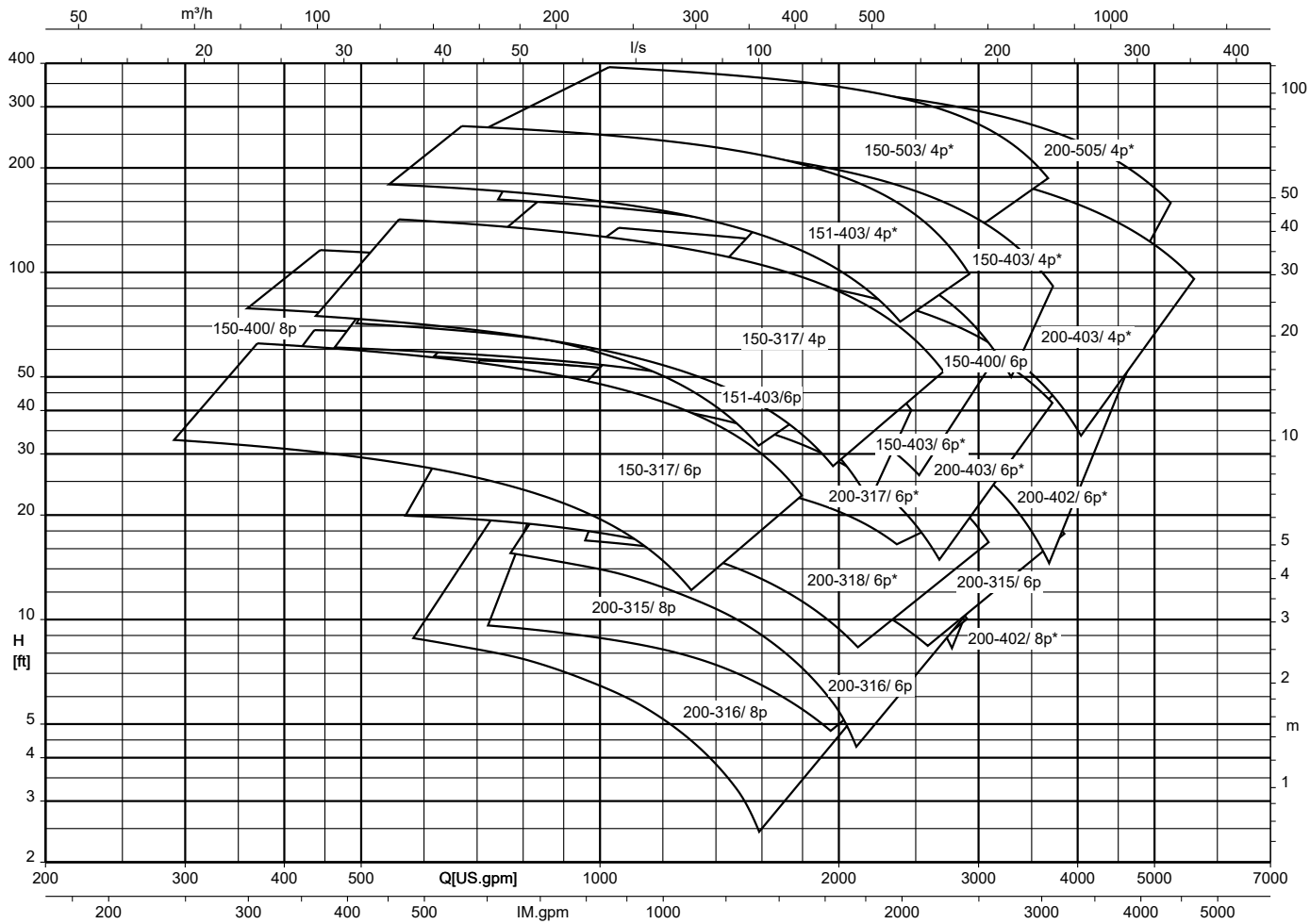
Sewatec *D-max, n = 1750/1160/875 rpm (diameter-based selection chart)



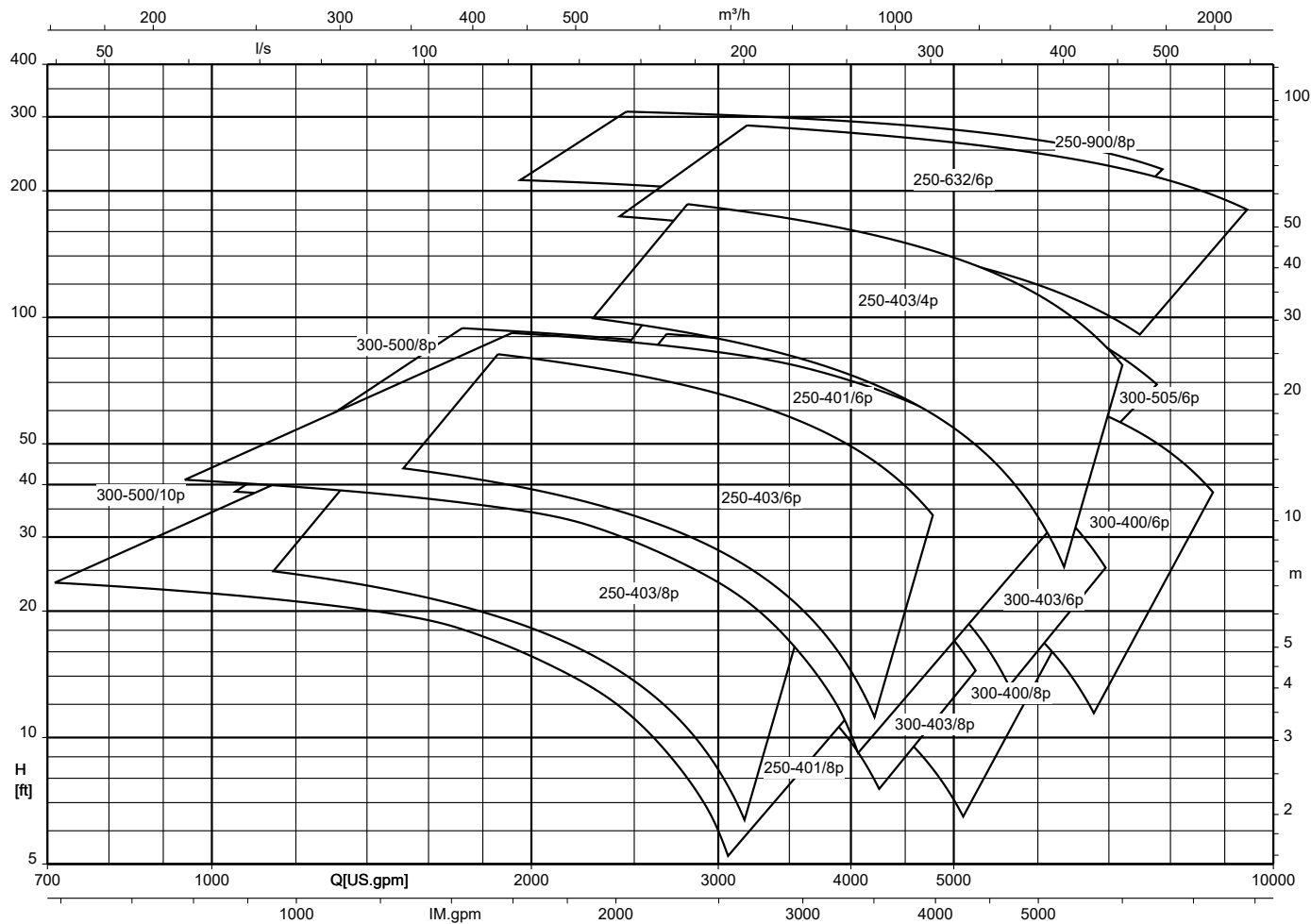
Sewatec/Sewabloc K + *K-max 050-... to 125-..., n = 1750/1160/875 rpm (diameter-based selection chart)



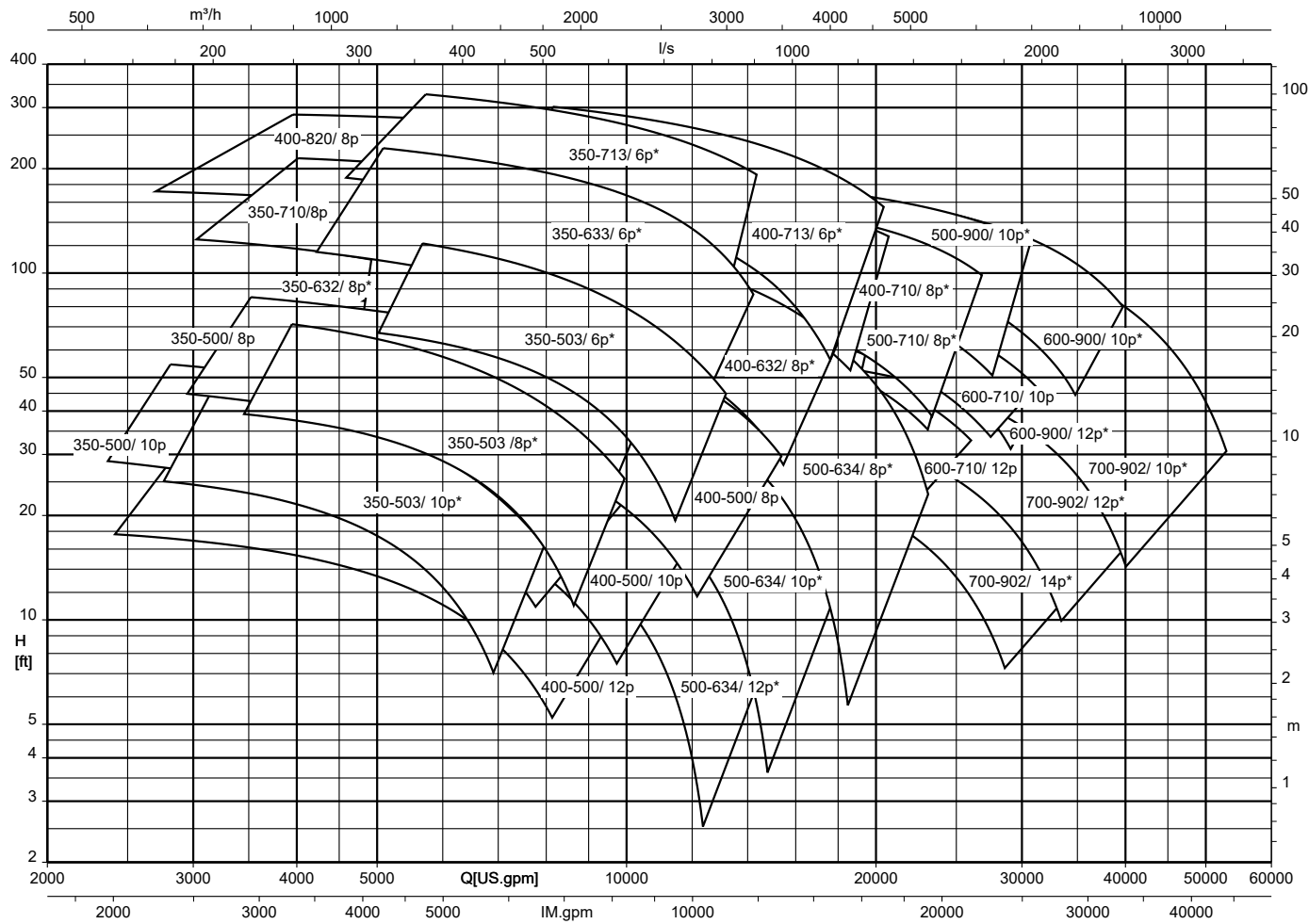
Sewatec/Sewabloc K + *K-max 150-... to 200-..., n = 1750/1160/875 rpm (diameter-based selection chart)



Sewatec/Sewabloc K + *K-max 250-... to 300-..., n = 1160/875/700 rpm (diameter-based selection chart)



Sewatec/Sewabloc K + *K-max 350-... to 700-..., n = 875/700/585/500 rpm (diameter-based selection chart)



Installation types

Horizontal installation

Sewatec - Fig. 0

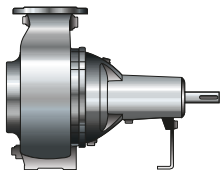


Fig. 1: Sewatec Fig. 0: Bare-shaft pump

Sewatec - 3E (3EN/3ENH)

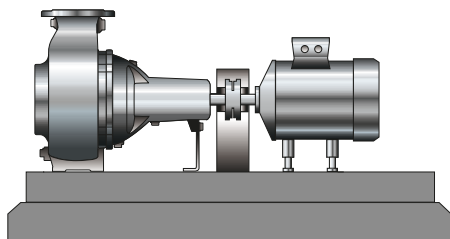


Fig. 2: Sewatec - 3E (3EN/3ENH): Pump set with directly coupled drive, baseplate, coupling (also with coupling spacer), coupling guard and height adjustment of the motor

Sewabloc

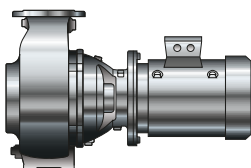


Fig. 3: Sewabloc: Pump set with directly flanged motor, C-face configuration, horizontal installation

Vertical installation

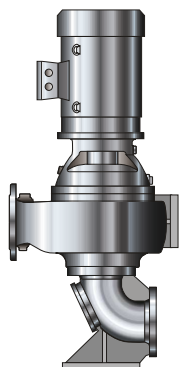
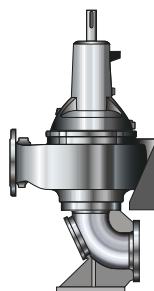


Fig. 4: Sewabloc - vertical (V): Pump set with directly flanged motor (B5/V1 type of construction), with base suction elbow

Sewatec - vertical (V)

a)



b)

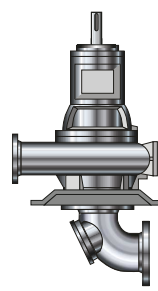
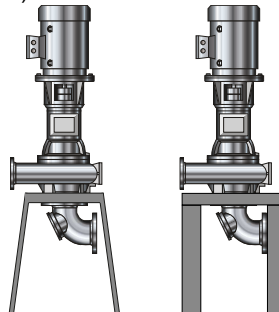


Fig. 5: Sewatec - vertical (V): a) Pump set on suction elbow
b) Pump set on concrete base

Sewatec - vertical (VU)

a)



b)

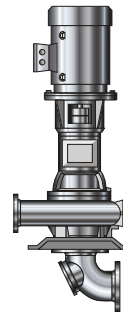


Fig. 6: Sewatec - vertical (VU): a) Pump set, C-face configuration, with motor pedestal, drive lantern, coupling, coupling guard and suction elbow, b) Pump set with soleplate, drive lantern, coupling, coupling guard and suction elbow

Sewatec - vertical (VGW)

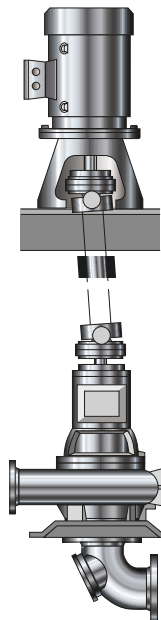
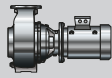
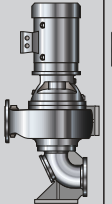
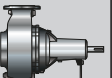
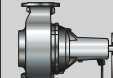
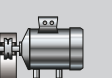
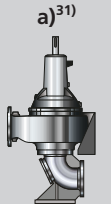
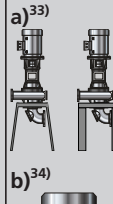
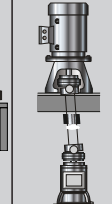


Fig. 7: Sewatec - vertical (VGW): Pump set with soleplate for pump and motor, support frame, drive lantern, suction elbow and universal-joint shaft

Installation types per bearing bracket and impeller type

Table 23: Installation types per bearing bracket and impeller type

Size	Bearing bracket	Impeller type	Installation types							
			Sewabloc	Sewabloc-vertical	Sewatec			Sewatec-vertical		
										
			BLOC	BLOC-VF	Fig. 0	3E-N	3E-NH	V	VU	VGW ³⁵⁾
050-215	B01	F	X	X	-	-	-	-	-	-
050-215	S01	F	-	-	X	X	X	X	-	-
050-216	B01	F	X	X	-	-	-	-	-	-
050-216	S01	F	-	-	X	X	X	X	-	-
050-250	B01	K	X	X	-	-	-	-	-	-
050-250	S01	K	-	-	X	X	X	X	-	-
050-251	B02	K	X	X	-	-	-	-	-	-
050-251	S02	K	-	-	X	X	X	X	-	-
065-215	B01	F	X	X	-	-	-	-	-	-
065-215	S01	F	-	-	X	X	X	X	-	-
065-216	B02	E	X	X	-	-	-	-	-	-
065-216	S02	E	-	-	X	X	X	X	-	-
065-217	B01	F	X	X	-	-	-	-	-	-
065-217	S01	F	-	-	X	X	X	X	-	-
065-250	B01	K	X	X	-	-	-	-	-	-
065-250	S01	K	-	-	X	X	X	X	-	-
080-215	B01	F	X	X	-	-	-	-	-	-
080-215	S01	F	-	-	X	X	X	X	-	-
080-216	B01	F	X	X	-	-	-	-	-	-
080-216	B02	E	X	X	-	-	-	-	-	-
080-216	S01	F	-	-	X	X	X	X	-	-
080-216	S02	E	-	-	X	X	X	X	-	-
080-217	B01	F	X	X	-	-	-	-	-	-
080-217	S01	F	-	-	X	X	X	X	-	-
080-250	B01	K	X	X	-	-	-	-	-	-
080-250	S01	K	-	-	X	X	X	X	-	-
080-252	B01	F	X	X	-	-	-	-	-	-
080-252	S01	F	-	-	X	X	X	X	-	-
080-253	B02	F	X	X	-	-	-	-	-	-
080-253	B02	E	X	X	-	-	-	-	-	-
080-253	S02	F	-	-	X	X	X	X	-	-
080-253	S02	E	-	-	X	X	X	X	-	-

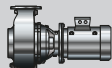
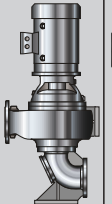
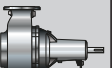
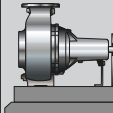
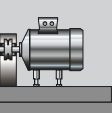
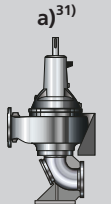
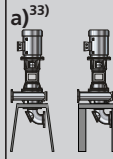
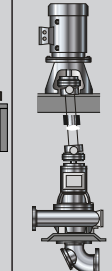
³¹ Pump set on suction elbow

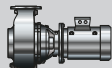
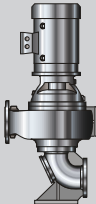
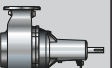
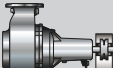
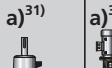
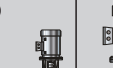
³² Pump set on concrete base

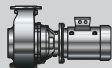
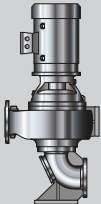
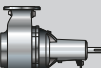
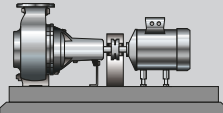
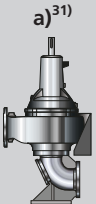
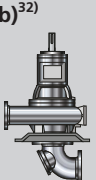
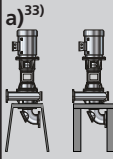
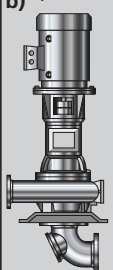
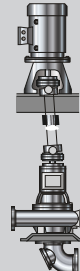
³³ Pump set, C-face configuration, with motor pedestal, drive lantern, coupling, coupling guard and suction elbow

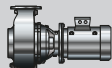
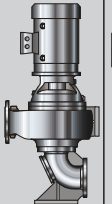
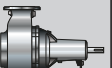
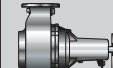
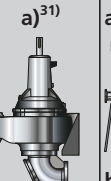
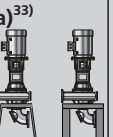
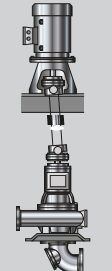
³⁴ Pump set with soleplate, drive lantern, coupling, coupling guard and suction elbow

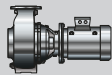
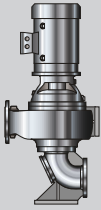
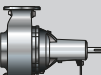
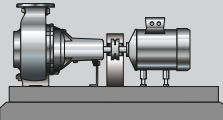
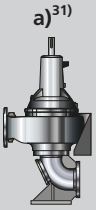
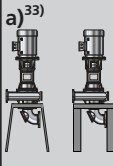
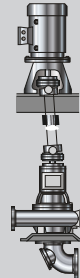
³⁵ Version with universal-joint shaft only upon quotation approval

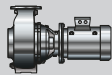
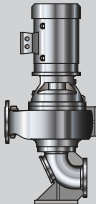
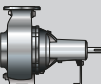
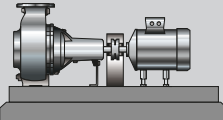
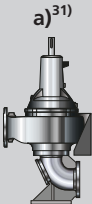
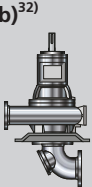
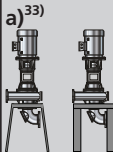
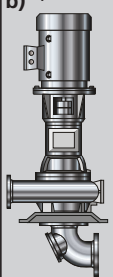
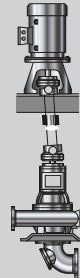
Size	Bearing bracket	Impeller type	Installation types							
			Sewabloc	Sewabloc-vertical	Sewatec			Sewatec-vertical		
										
			BLOC	BLOC-VF	Fig. 0	3E-N	3E-NH	V	VU	VGW ³⁵⁾
080-315	B03	D	X	X	-	-	-	-	-	-
080-317	S03	F	-	X	X	X	X	-	-	-
080-315	B03	K	X	X	-	-	-	-	-	-
080-315	S03	D	-	-	X	X	X	X	-	-
080-315	S03	F	-	-	-	-	-	-	-	-
080-315	S03	K	-	-	X	X	X	X	-	-
080-315	S05	D	-	-	X	X	X	-	-	-
080-316	B03	D	X	X	-	-	-	-	-	-
080-316	S03	D	-	-	X	X	X	X	-	-
080-317	S03	D	-	-	X	X	X	X	-	-
080-317	B03	D	X	X	-	-	-	-	-	-
100-215	B01	F	X	X	-	-	-	-	-	-
100-215	S01	F	-	-	X	X	X	X	-	-
100-250	B01	E	-	-	-	-	-	-	-	-
100-250	B01	K	-	-	-	-	-	-	-	-
100-250	S01	E	-	-	X	X	X	X	-	-
100-250	S01	K	-	-	-	-	-	-	-	-
100-251	B02	F	X	X	-	-	-	-	-	-
100-251	S02	F	-	-	X	X	X	X	-	-
100-252	B01	F	X	X	-	-	-	-	-	-
100-252	S01	F	-	-	X	X	X	X	-	-
100-253	B02	F	X	X	-	-	-	-	-	-
100-253	B02	K	X	X	-	-	-	-	-	-
100-253	B02	D	X	X	-	-	-	-	-	-
100-253	S02	F	-	-	X	X	X	X	-	-
100-253	S02	D	-	-	X	X	X	X	-	-
100-253	S02	E	-	-	X	X	X	X	-	-
100-253	S02	K	-	-	X	X	X	X	-	-
100-254	B01	F	X	X	-	-	-	-	-	-
100-254	B01	K	-	-	-	-	-	-	-	-
100-254	S01	F	-	-	X	X	X	X	-	-
100-254	S01	K	-	-	-	-	-	-	-	-
100-255	S02	E	-	-	-	-	-	-	-	-
100-315	S05	D	-	-	X	X	X	X	-	-
100-316	B03	D	X	X	-	-	-	-	-	-
100-316	S03	D	-	-	X	X	X	X	-	-
100-316	S03	K	-	-	X	X	X	-	-	-
100-316	S03	F	-	-	X	X	X	-	-	-
100-317	S03	E	-	-	X	X	X	X	-	-
100-400	S04	K	-	-	X	X	X	-	-	-

Size	Bearing bracket	Impeller type	Installation types							
			Sewabloc	Sewabloc-vertical	Sewatec			Sewatec-vertical		
										
			BLOC	BLOC-VF	Fig. 0	3E-N	3E-NH	V	VU	VGW ³⁵⁾
100-400	S05	K	-	-	X	X	X	X	X	X
100-401	S04	E	-	-	-	-	-	-	-	-
100-401	S04	F	-	-	X	X	X	-	-	-
100-401	S04	K	-	-	X	X	X	-	-	-
100-401	S05	E	-	-	-	-	-	-	-	-
100-401	S05	F	-	-	X	X	X	X	X	X
100-401	S05	K	-	-	X	X	X	X	X	X
100-403	S04	D	-	-	X	X	X	-	-	-
100-403	S05	D	-	-	X	X	X	X	X	X
125-315	S03	F	-	-	-	-	-	-	-	-
125-315	S03	K	-	-	-	-	-	-	-	-
125-317	S03	E	-	-	-	-	-	-	-	-
150-253	B02	D	X	X	-	-	-	-	-	-
150-253	S02	D	-	-	X	X	X	X	-	-
150-315	B03	D	X	X	-	-	-	-	-	-
150-315	B03	E	-	-	-	-	-	-	-	-
150-315	B03	F	X	X	-	-	-	-	-	-
150-315	B03	K	X	X	-	-	-	-	-	-
150-315	S03	D	-	-	X	X	X	X	-	-
150-315	S03	E	-	-	X	X	X	X	-	-
150-315	S03	F	-	-	X	X	X	X	-	-
150-315	S03	K	-	-	-	-	-	-	-	-
150-317	B03	D	-	-	X	X	X	X	-	-
150-317	B03	K	X	X	-	-	-	-	-	-
150-317	S03	D	X	X	-	-	-	-	-	-
150-317	S03	E	-	-	X	X	X	X	-	-
150-317	S03	K	-	-	X	X	X	X	-	-
150-317	S05	K	-	-	X	X	X	-	-	-
150-400	S04	K	-	-	X	X	X	-	-	-
150-400	S05	K	-	-	X	X	X	X	X	X
150-400	S05	D	-	-	X	X	X	X	X	X
150-401	S04	E	-	-	-	-	-	-	-	-
150-401	S04	F	-	-	X	X	X	-	-	-
150-401	S04	K	-	-	-	-	-	-	-	-
150-401	S05	D	-	-	X	X	X	X	X	X
150-401	S05	E	-	-	-	-	-	-	-	-
150-401	S05	F	-	-	X	X	X	X	X	X
150-401	S05	K	-	-	-	-	-	-	-	-
150-401	S06	D	-	-	X	X	X	X	-	X
150-401	S06	E	-	-	-	-	-	-	-	-
150-403	S04	K	-	-	X	X	X	-	-	-

Size	Bearing bracket	Impeller type	Installation types							
			Sewabloc	Sewabloc-vertical	Sewatec			Sewatec-vertical		
								 	 	
			BLOC	BLOC-VF	Fig. 0	3E-N	3E-NH	V	VU	VGW ³⁵⁾
150-403	S05	K	-	-	X	X	X	X	X	X
150-403	S04	D	-	-	X	X	X	-	-	-
150-403	S05	D	-	-	X	X	X	X	X	X
150-503	S06	D	-	-	X	X	X	X	X	X
150-503	S06	K	-	-	X	X	X	X	X	X
150-503	S07	D	-	-	X	X	X	X	X	X
150-503	S07	K	-	-	X	X	X	X	X	X
151-401	S05	K	-	-	-	-	-	-	-	-
151-403	S04	K	-	-	X	X	X	-	-	-
151-403	S05	K	-	-	X	X	X	X	X	X
200-315	B03	D	X	X	-	-	-	-	-	-
200-315	B03	K	X	X	-	-	-	-	-	-
200-315	S03	D	-	-	X	X	X	X	-	-
200-315	S03	K	-	-	X	X	X	X	-	-
200-316	B03	K	X	X	-	-	-	-	-	-
200-316	S03	K	-	-	X	X	X	X	-	-
200-317	B03	K	X	X	-	-	-	-	-	-
200-317	S03	K	-	-	X	X	X	X	-	-
200-317	S05	K	-	-	X	X	X	-	-	-
200-318	B03	K	X	X	-	-	-	-	-	-
200-318	S03	K	-	-	X	X	X	X	-	-
200-330	S04	K	-	-	-	-	-	-	-	-
200-330	S05	K	-	-	-	-	-	-	-	-
200-400	S05	D	-	-	X	X	X	X	X	X
200-400	S06	D	-	-	X	X	X	X	X	X
200-401	S04	E	-	-	-	-	-	-	-	-
200-401	S04	K	-	-	-	-	-	-	-	-
200-401	S05	E	-	-	-	-	-	-	-	-
200-401	S05	K	-	-	-	-	-	-	-	-
200-401	S06	E	-	-	-	-	-	-	-	-
200-402	S04	K	-	-	X	X	X	-	-	-
200-402	S05	K	-	-	X	X	X	X	X	X
200-402	S06	K	-	-	X	X	X	X	X	X
200-402	S04	D	-	-	X	X	X	-	-	-
200-402	S05	D	-	-	X	X	X	X	X	X
200-402	S06	D	-	-	X	X	X	X	X	X
200-403	S04	K	-	-	X	X	X	-	-	-
200-403	S05	K	-	-	X	X	X	X	X	X
200-403	S06	K	-	-	X	X	X	X	X	X
200-405	S04	D	-	-	X	X	X	-	-	-
200-405	S05	D	-	-	X	X	X	X	X	X

Size	Bearing bracket	Impeller type	Installation types							
			Sewabloc	Sewabloc-vertical	Sewatec			Sewatec-vertical		
										
			BLOC	BLOC-VF	Fig. 0	3E-N	3E-NH	V	VU	VGW ³⁵⁾
200-405	S06	D	-	-	X	X	X	X	X	X
200-500	S05	E	-	-	-	-	-	-	-	-
200-501	S06	K	-	-	-	-	-	-	-	-
200-503	S06	D	-	-	X	X	X	X	X	X
200-503	S07	D	-	-	X	X	X	X	X	X
200-504	S06	K	-	-	X	X	X	X	X	X
200-504	S07	K	-	-	X	X	X	X	X	X
200-505	S06	K	-	-	X	X	X	X	X	X
200-505	S07	K	-	-	X	X	X	X	X	X
200-631	S08	K	-	-	-	-	-	-	-	-
250-400	S04	K	-	-	-	-	-	-	-	-
250-400	S05	D	-	-	X	X	X	X	X	X
250-400	S05	K	-	-	-	-	-	-	-	-
250-400	S06	D	-	-	X	X	X	X	X	X
250-401	S04	K	-	-	X	X	X	-	-	-
250-401	S05	K	-	-	X	X	X	X	X	X
250-401	S06	K	-	-	X	X	X	X	X	X
250-402	S04	D	-	-	X	X	X	-	-	-
250-402	S05	D	-	-	X	X	X	X	X	X
250-402	S06	D	-	-	X	X	X	X	X	X
250-403	S04	K	-	-	X	X	X	-	-	-
250-403	S05	K	-	-	X	X	X	X	X	X
250-403	S06	K	-	-	X	X	X	X	X	X
250-500	S06	E	-	-	-	-	-	-	-	-
250-500	S07	E	-	-	-	-	-	-	-	-
250-630	S07	E	-	-	-	-	-	-	-	-
250-630	S07	K	-	-	-	-	-	-	-	-
250-630	S08	E	-	-	-	-	-	-	-	-
250-630	S08	K	-	-	-	-	-	-	-	-
250-632	S07	K	-	-	X	X	X	X	X	X
250-632	S08	K	-	-	X	X	X	X	X	X
250-900	S09	K	-	-	X	X	X	X	-	X
300-400	S04	K	-	-	X	X	X	-	-	-
300-400	S05	D	-	-	X	X	X	X	X	X
300-400	S05	K	-	-	X	X	X	X	X	X
300-400	S06	D	-	-	X	X	X	X	X	X
300-401	S04	K	-	-	X	X	X	-	-	-
300-401	S05	K	-	-	X	X	X	X	X	X
300-402	S04	D	-	-	X	X	X	-	-	-
300-402	S05	D	-	-	X	X	X	X	X	X

Size	Bearing bracket	Impeller type	Installation types							
			Sewabloc	Sewabloc-vertical	Sewatec			Sewatec-vertical		
								 a) ³¹⁾ b) ³²⁾	 a) ³³⁾ b) ³⁴⁾	
			BLOC	BLOC-VF	Fig. 0	3E-N	3E-NH	V	VU	VGW ³⁵⁾
300-402	S06	D	-	-	X	X	X	X	X	X
300-403	S05	K	-	-	X	X	X	X	X	X
300-500	S06	K	-	-	X	X	X	-	-	-
300-500	S07	K	-	-	X	X	X	X	X	X
300-502	S06	D	-	-	X	X	X	X	X	X
300-502	S07	D	-	-	X	X	X	X	X	X
300-505	S06	D	-	-	X	X	X	X	X	X
300-505	S06	K	-	-	X	X	X	X	X	X
300-505	S07	D	-	-	X	X	X	X	X	X
300-505	S07	K	-	-	X	X	X	X	X	X
300-630	S07	E	-	-	-	-	-	-	-	-
300-630	S08	E	-	-	-	-	-	-	-	-
350-500	S06	K	-	-	X	X	X	-	-	-
350-500	S07	K	-	-	X	X	X	X	X	X
350-501	S06	K	-	-	-	-	-	-	-	-
350-501	S07	K	-	-	-	-	-	-	-	-
350-502	S06	D	-	-	X	X	X	X	X	X
350-502	S07	D	-	-	X	X	X	X	X	X
350-503	S06	D	-	-	X	X	X	X	X	X
350-503	S06	K	-	-	X	X	X	X	X	X
350-503	S07	D	-	-	X	X	X	X	X	X
350-503	S07	K	-	-	X	X	X	X	X	X
350-632	S07	K	-	-	X	X	X	X	X	X
350-632	S08	K	-	-	X	X	X	X	X	X
350-633	S07	K	-	-	X	X	X	X	X	X
350-633	S08	K	-	-	X	X	X	X	X	X
350-710	S07	E	-	-	-	-	-	-	-	-
350-710	S08	E	-	-	-	-	-	-	-	-
350-710	S08	K	-	-	X	X	X	X	-	X
350-713	S09	K	-	-	X	X	X	X	-	X
400-500	S06	K	-	-	X	X	X	X	-	X
400-500	S07	K	-	-	X	X	X	X	-	X
400-632	S08	K	-	-	X	X	X	X	X	X
400-710	S09	K	-	-	X	X	X	X	-	X
400-713	S09	K	-	-	X	X	X	X	-	X
400-900	S09	K	-	-	X	X	X	X	-	X
500-632	S08	K	-	-	-	-	-	-	-	-
500-634	S07	K	-	-	X	X	X	X	X	X
500-634	S08	K	-	-	X	X	X	X	X	X
500-710	S09	K	-	-	X	X	X	X	-	X

Size	Bearing bracket	Impeller type	Installation types							
			Sewabloc	Sewabloc-vertical	Sewatec			Sewatec-vertical		
								 	 	
			BLOC	BLOC-VF	Fig. 0	3E-N	3E-NH	V	VU	VGW ³⁵⁾
500-900	S09	K	-	-	X	X	X	X	-	X
500-900	S10	K	-	-	X	X	X	X	-	X
600-520	S07	K	-	-	X	X	X	X	-	X
600-710	S08	K	-	-	X	X	X	X	-	X
600-900	S10	K	-	-	X	X	X	X	-	X
700-902	S08	K	-	-	X	X	X	X	X	X
700-902	S09	K	-	-	X	X	X	X	-	X

Recommended spare parts stock for 2 years' operation to DIN 24296

Table 24: Quantity of spare parts for recommended spare parts stock

Part No.	Description	Number of pumps (including stand-by pumps)								Spare part	Replacement part	Wear part
		1	2	3	4	5	6	8	10 and more			
135	Wear plate	1	2	2	2	3	3	4	50 %	-	-	X
163	Discharge cover	1	2	2	2	3	3	4	50 %	X	-	-
210	Shaft	1	1	1	2	2	2	3	30 %	X	-	-
230	Impeller	1	1	1	2	2	2	3	30 %	-	X	-
321.01/02	Rolling element bearing (set)	1	1	1	2	2	3	4	50 %	-	-	X
330	Bearing bracket, complete	-	-	-	-	-	-	1	2 pcs.	X	-	-
433.01/02	Mechanical seal, complete (set)	1	2	3	4	4	4	6	90 %	-	-	X
502.01	Casing wear ring	1	2	2	2	3	3	4	50 %	-	-	X
503	Impeller wear ring	1	2	2	2	3	3	4	50 %	-	-	X
	Assembly for gland packing consisting of: ▪ Neck bush ▪ Shaft protecting sleeve ▪ Lantern ring	1	1	1	2	2	2	3	40 %	-	X	-
	Packing cord (4 rings)	4	4	6	8	8	9	12	100 %	-	-	X
	Sealing elements (set)	2	4	6	8	8	9	12	150 %	-	-	X

Keeping a stock of wear parts and replacement parts is recommended also during the warranty period.

Scope of supply

Sewabloc

Depending on the model, the following items are included in the scope of supply:

- Pump without motor or with directly flanged standardized motor
- Foundation rails (for horizontal installation)
- Suction-side flanged spacer or suction elbow with inspection hole
- Baseplate or soleplate
- Flanged bend (for vertical installation)

Sewatec

Depending on the model, the following items are included in the scope of supply:

- Pump
- Drive
- Baseplate or soleplate
- Coupling
- Coupling guard
- Suction-side flanged spacer or suction elbow with inspection hole
- Universal-joint shaft
- Foundation rails (for horizontal installation)

General assembly drawings with list of components

General assembly drawing: Sewatec with bearing brackets S01, S02, S03, S04

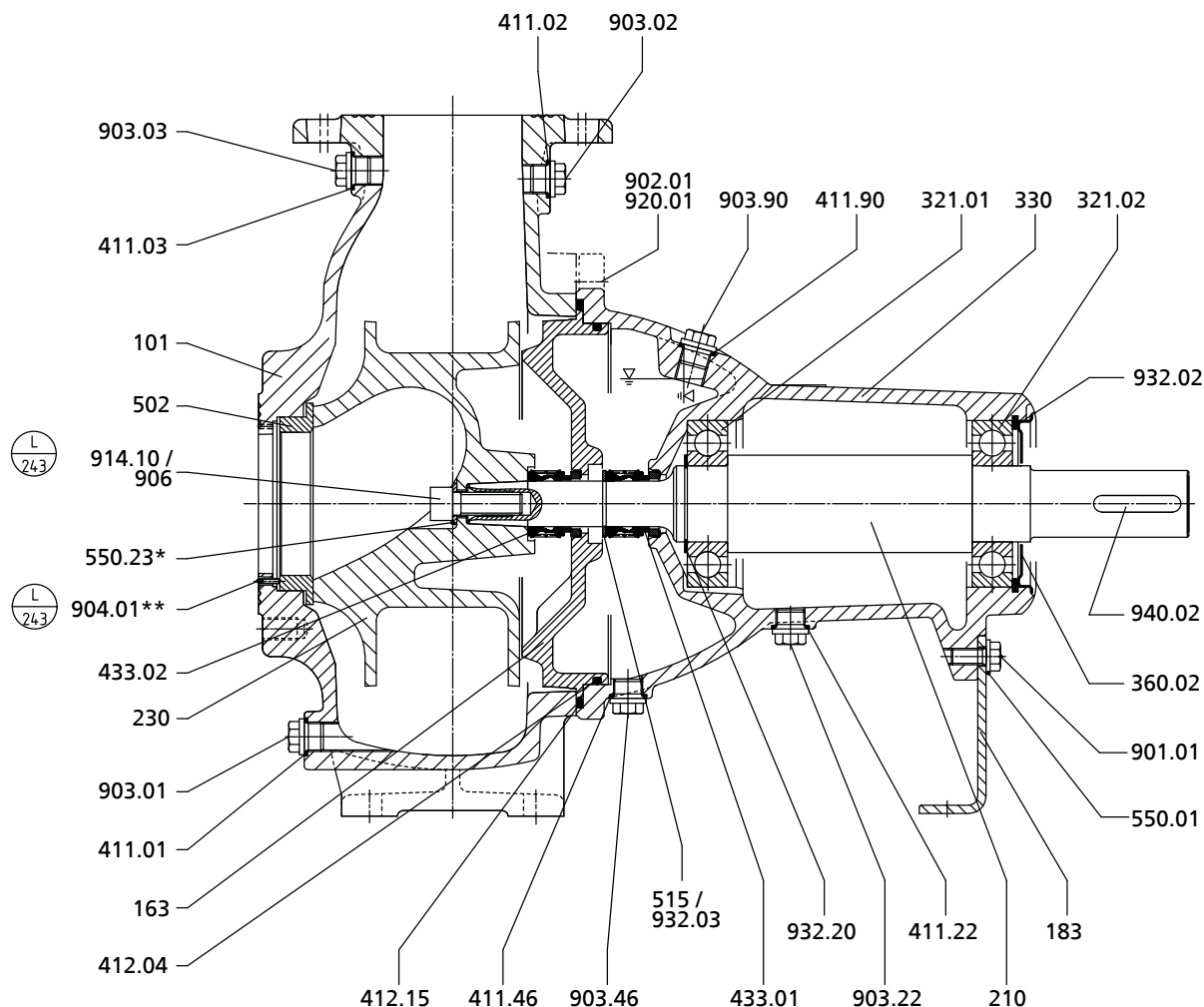


Fig. 8: General assembly drawing of Sewatec - with bearing brackets S01, S02, S03, S04, impeller type E; * if any, ** only for sizes E 100-250, E 100-253, E 100-317, E 150-317, K 100-253, K 100-254, K 100-316

Table 25: List of components

Part number	Description	Part number	Description
101	Pump casing	502	Casing wear ring
135	Wear plate	515	Locking ring
163	Discharge cover	550.01/.04/.23	Disc
164.02	Inspection cover	900.02	Bolt/screw
183	Support foot	901.01	Hexagon head bolt
210	Shaft	902.01	Stud
230	Impeller	903.01/.02/.03/.22/.46/.90	Screw plug
321.01/.02	Radial ball bearing	904.01	Grub screw
330	Bearing bracket	906	Impeller screw
360.02	Bearing cover	914.10/.12/.24	Hexagon socket head cap screw
411.01/.02/.03/.22/.46/.90	Joint ring	920.01/.17	Nut
412.04/.05/.15/.34	O-ring	932.02/.03/.20	Circlip
433.01/.02	Mechanical seal		

General assembly drawing: Sewatec with bearing brackets S05, S06, S07, S08

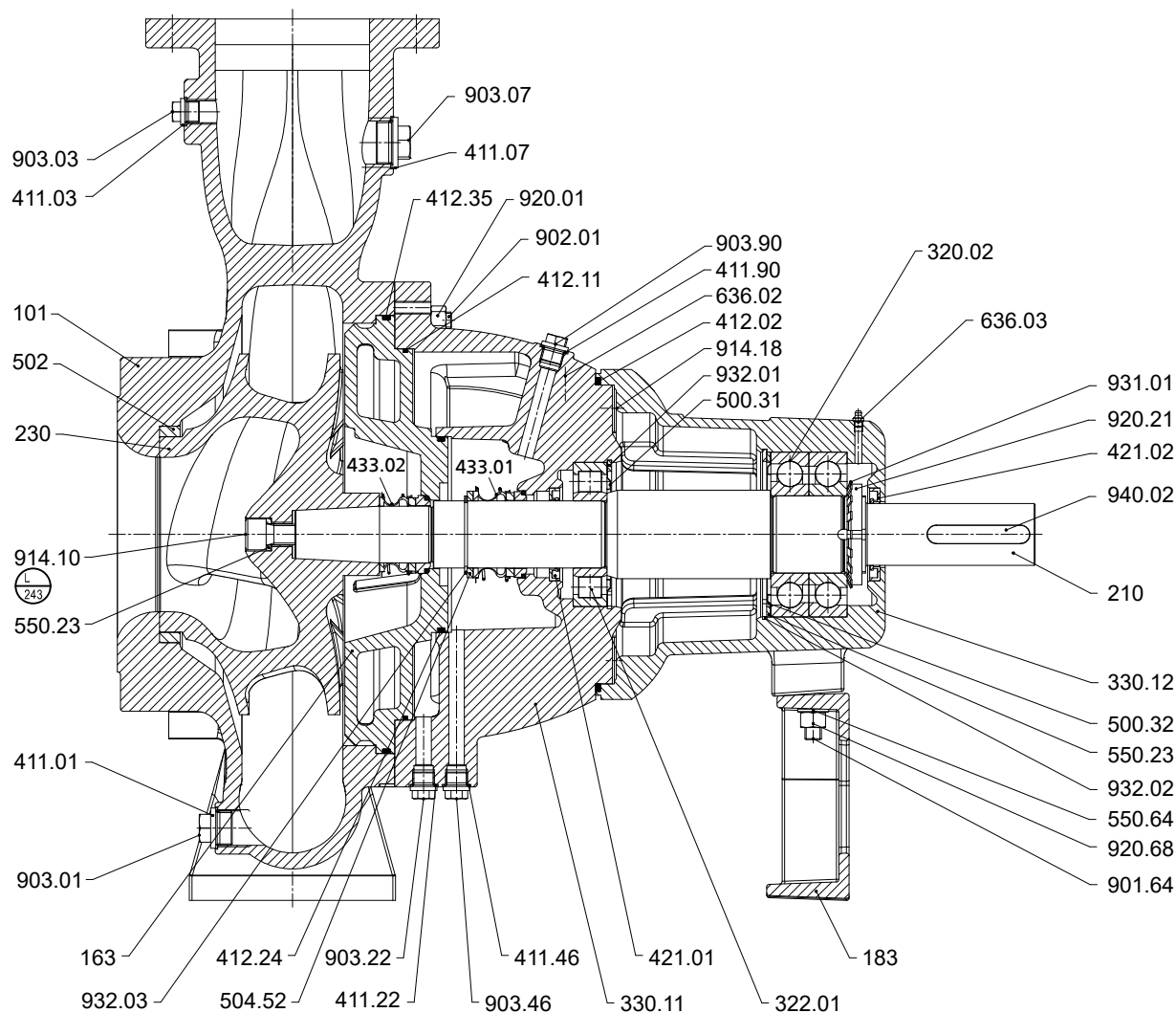


Fig. 9: Sewatec with bearing brackets S05 to S08

Table 26: Key to the symbols

Symbol	Key
	Always secure screwed connections marked with this symbol with Loctite 243 .

Table 27: List of components

Part No.	Description	Part No.	Description
101	Pump casing	502	Casing wear ring
163	Discharge cover	504.52	Spacer ring
183	Support foot	550.23/.64	Disc
210	Shaft	636.02/.03	Lubricating nipple
230	Impeller	901.64	Hexagon head bolt
320.02	Rolling element bearing	902.01	Stud
322.01	Radial roller bearing	903.01/.03/.07/.22/.46/.90	Screw plug
330.11/.12	Bearing bracket	914.10/.18	Hexagon socket head cap screw
411.01/.03/.07/.22/.46/.90	Joint ring	920.01/.21/.68	Nut
412.02/.11/.24/.35	O-ring	931.01	Lock washer
421.01/.02	Lip seal	932.01/.02/.03	Circlip
433.01/.02	Mechanical seal	940.02	Key
500.31/.32	Ring		

General assembly drawing: Sewatec with bearing brackets S05, S06, S07, underfloor installation and installation with universal-joint shaft

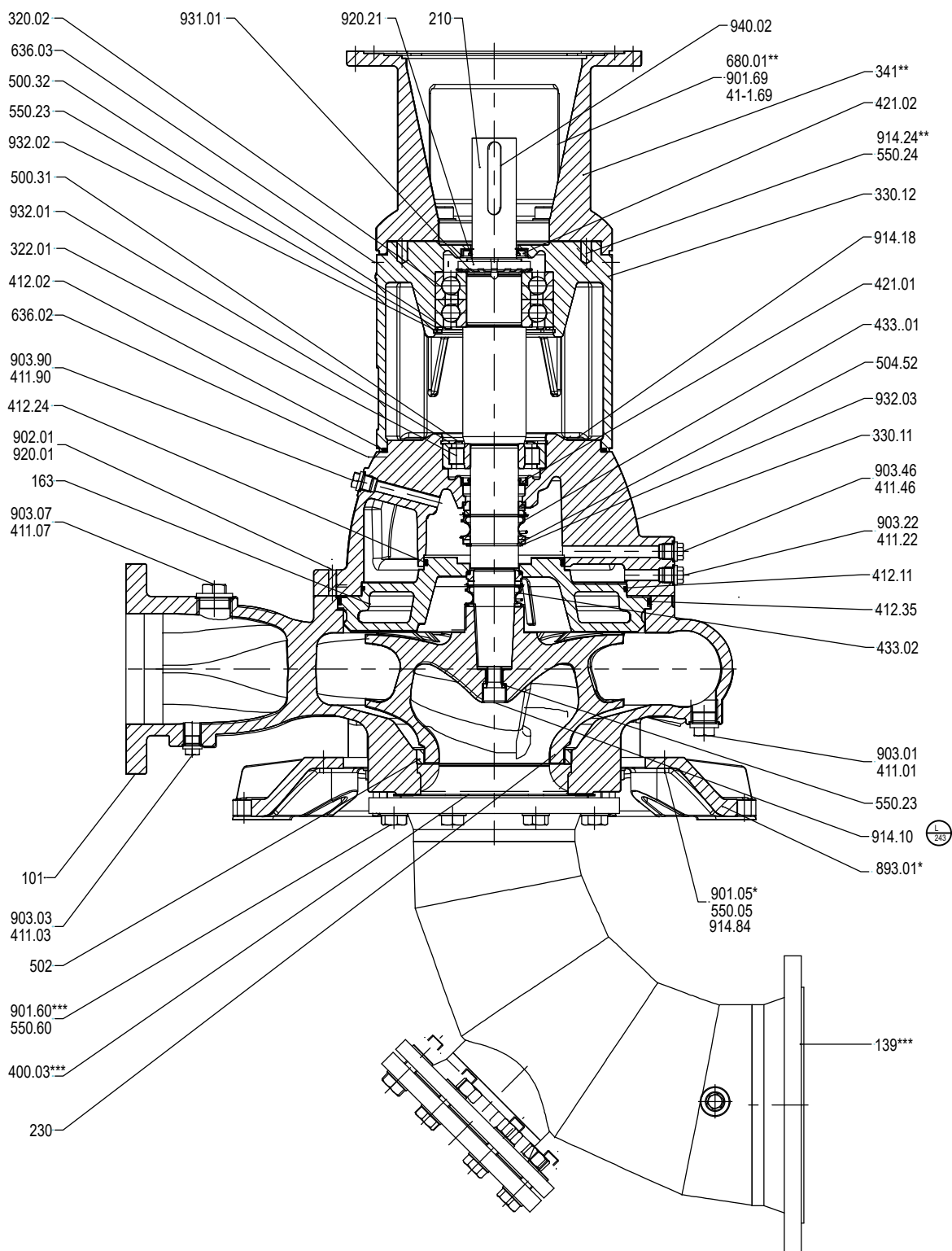


Fig. 10: Sewatec with E impeller – pump for underfloor installation and installation with universal-joint shaft

Table 28: Key to the symbols

Symbol	Key
	Always secure screwed connections marked with this symbol with Loctite 243 .
*	Only for Sewatec K 100-400, F/K 100-401, D 100-403, D/K 150-400, D 150-401, D/K 150-403, D 150-503, K 150-503, K 151-403, D 200-400, D/K 200-402, K 200-403, D 200-405, D 200-503, K 200-504, K 200-505, D 250-402, D 300-402
**	If any
***	Not for universal-joint shaft

Table 29: List of components

Part No.	Designation	Part No.	Description
41-1.69	Sealing washer	502	Casing wear ring
101	Pump casing	504.52	Spacer ring
139	Suction elbow	525.04	Spacer sleeve
163	Discharge cover	550.05/.16/.23/.24/.60	Disc
210	Shaft	636.02/.03	Lubricating nipple
230	Impeller	680.01**	Guard
320.02	Rolling element bearing	893.01*	Soleplate
322	Radial roller bearing	901.05*/.16/.18/.60***	Hexagon head bolt
330.11/.12	Bearing bracket	902.01	Stud
341**	Drive lantern	903.01/.03/.07/.22/.46/.90	Screw plug
400.03***	Gasket	906	Impeller screw
411.01/.03/.07/.22/.46/.90	Joint ring	914.18/.10/24***	Hexagon socket head cap screw
412.02/.11/.24/.35	O-ring	920.01/.11/.21	Nut
421.01/.02	Lip seal	931.01	Lock washer
433.01/.02	Mechanical seal	932.01/.02/.03	Circlip
500.31/.32	Ring	940.02	Key

General assembly drawing: Sewatec with bearing brackets S09, S10

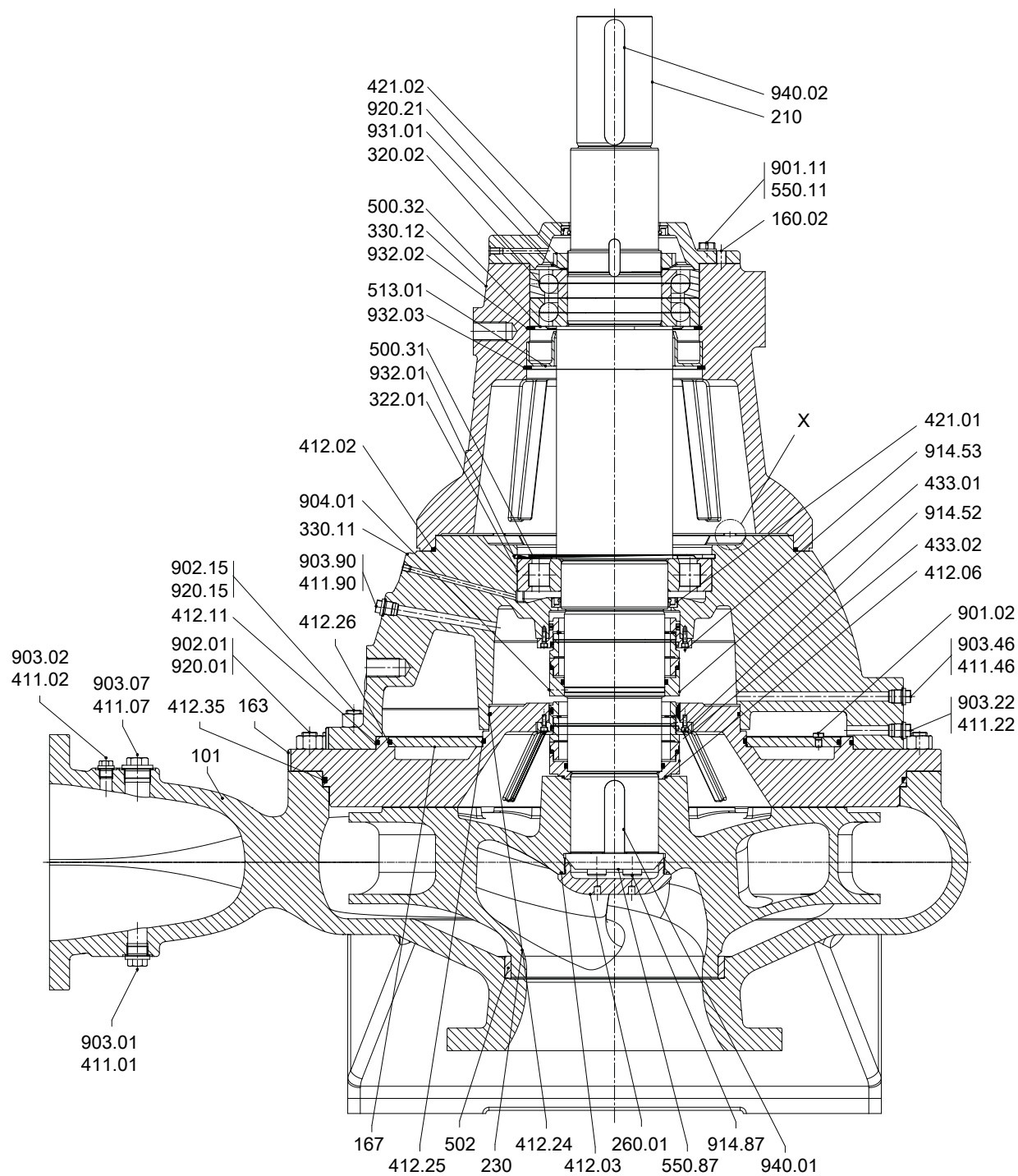


Fig. 11: Sewatec with bearing brackets S09, S10

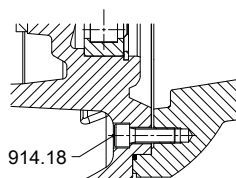


Fig. 12: Detail X

Table 30: List of components

Part No.	Description	Part No.	Description
101	Pump casing	500.31/.32	Ring
160.02	Cover	502	Casing wear ring
163	Discharge cover	513.01	Insert ring
167	Cover insert	550.04/.11/.87	Disc
210	Shaft	901.02/.11	Hexagon head bolt
230	Impeller	902.01/.02/.15	Stud
260.01	Impeller hub cap	903.01/.02/.07/.22/.46/.90	Screw plug
320.02	Rolling element bearing	904.01	Grub screw
322.01	Radial roller bearing	914.18/.52/.53/.87	Hexagon socket head cap screw
330.11/.12	Bearing bracket	920.01/.15/.17/.21	Nut
411.01/.02/.07/.22/.46/.90	Joint ring	931.01	Lock washer
412.02/.03/.05/.06/.11/.24/.25/.26/.35	O-ring	932.01/.02/.03	Circlip
421.01/.02	Lip seal	940.01/.02	Key
433.01/.02	Mechanical seal		

General assembly drawing: Sewabloc

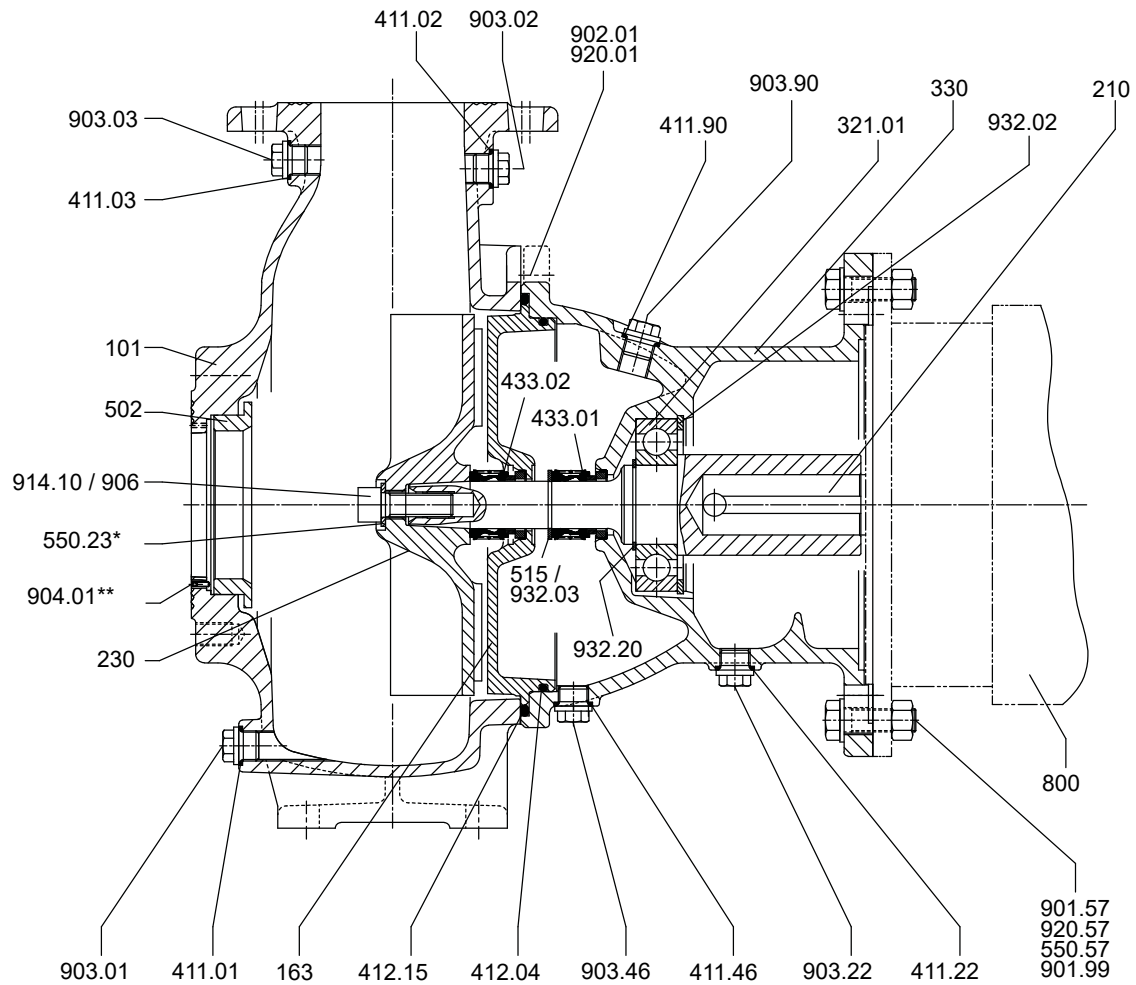


Fig. 13: General assembly drawing of Sewabloc; * if any, ** only for sizes 100-253, 100-254, K 100-316

Table 31: List of components

Part No.	Description	Part No.	Description
101	Pump casing	502	Casing wear ring
135	Wear plate	550.23/.57	Disc
163	Discharge cover	800	Motor
164	Inspection cover	901.57/.99	Hexagon head bolt
210	Shaft	902.01	Stud
230	Impeller	903.01/.02/.03/.22/.46/.90	Screw plug
321.01	Radial ball bearing	904.01	Grub screw
330	Bearing bracket	906	Impeller screw
411.01/.02/.03/.22/.46/.90	Joint ring	914.10/.12/.24	Hexagon socket head cap screw
412.04/.15/.34	O-ring	920.01/.57	Nut
433.01/.02	Mechanical seal	932.02	Circlip

Detailed views

Impeller types

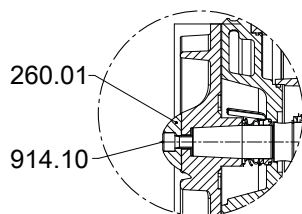


Fig. 14: F impeller

Table 32: List of components

Part No.	Description	Part No.	Description
260.01	Impeller hub cap	914.10	Hexagon socket head cap screw

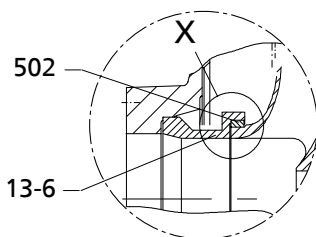


Fig. 15: K impeller

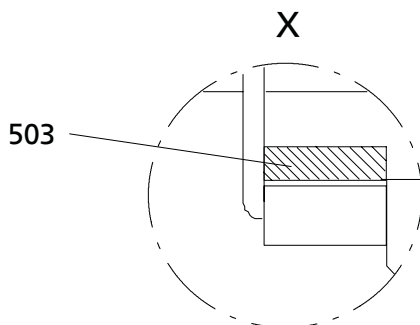


Fig. 16: Detail X: impeller wear ring for K impeller

Table 33: List of components

Part No.	Description	Part No.	Description
13-6 ³⁶⁾	Casing insert	502 ³⁷⁾	Casing wear ring
503	Impeller wear ring		

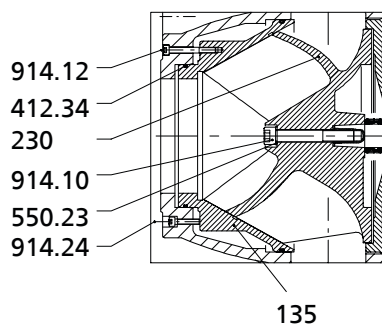


Fig. 17: D impeller (single-vane impeller)

Part No.	Description	Part No.	Description
230	Impeller	550.23	Disc
412.34	O-ring	914.10/.12/.24	Hexagon socket head cap screw

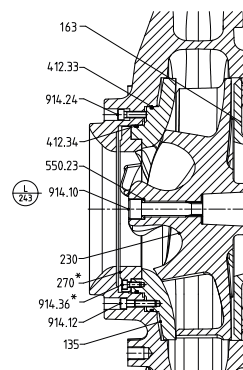


Fig. 18: D impeller (multi-vane impeller)

*: On specific designs only

Table 35: Impeller type D

Part No.	Description	Part No.	Description
135	Wear plate	412	O-ring
163	Discharge cover	550	Disc
230	Impeller	914	Hexagon socket head cap screw
270	Deflector		

Impeller fastening elements

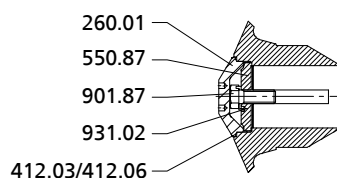


Fig. 19: Impeller fastening for bearing brackets S07 and S08 (impeller types E and K), except Sewatec size 500-632

Table 36: List of components

Part No.	Description	Part No.	Description
260.01	Impeller hub cap	901.87	Hexagon head bolt
412.03/412.06	O-ring	931.02	Lock washer
550.87	Disc		

³⁶ Only for Sewatec 100-401 and 200-400

³⁷ Not for Sewatec 100-401

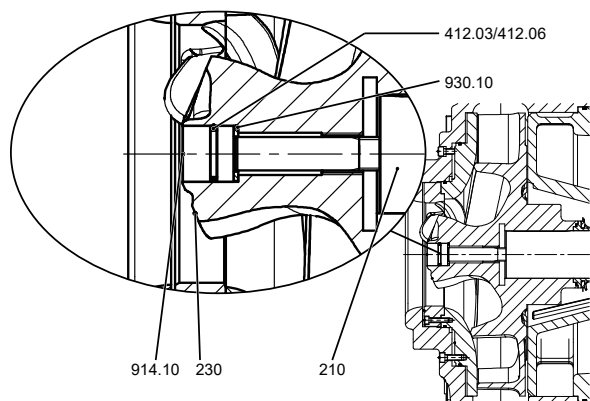


Fig. 20: Impeller fastening for bearing bracket S07 (impeller type D)

Table 37: List of components

Part No.	Description	Part No.	Description
210	Shaft	914.10	Hexagon socket head cap screw
230	Impeller	930.10	Safety device
412.03/412.06	O-ring		

Inspection hole, bearing brackets S01 to S08

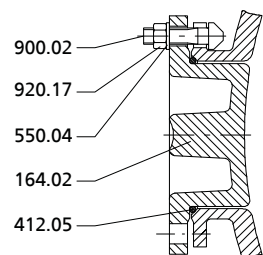


Fig. 21: Inspection hole, bearing brackets S01 to S08

Table 38: List of components

Part No.	Description	Part No.	Description
164.02	Inspection cover	900.02	Bolt/screw
412.05	O-ring	920.17	Nut
550.04	Disc		

Inspection hole, bearing brackets S09 and S10

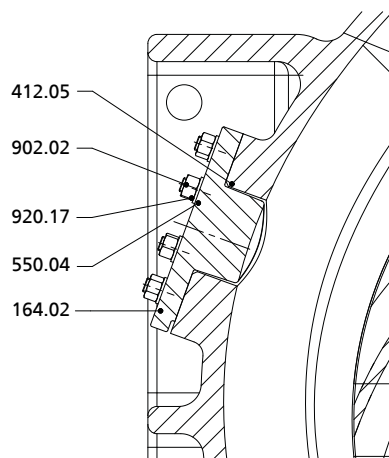


Fig. 22: Inspection hole, bearing brackets S09 and S10

Table 39: List of components

Part No.	Description	Part No.	Description
164.02	Inspection cover	902.17	Stud
412.05	O-ring	920.17	Nut
550.04	Disc		

Drilled hole required during manufacturing, bearing brackets S09 and S10

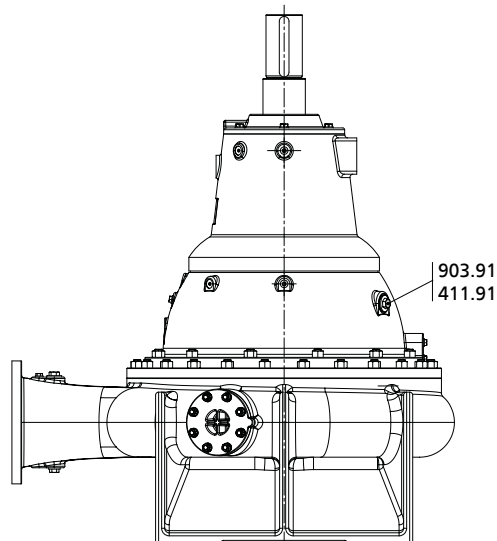


Fig. 23: Drilled hole required during manufacturing, bearing brackets S09 and S10

Table 40: List of components

Part No.	Description	Part No.	Description
411.91	Joint ring	903.91	Screw plug



KSB SE & Co. KGaA
Turmstraße 92 • 06110 Halle (Germany)
Tel. +49 345 4826-0
www.ksb.com