



Progressive Cavity Pumps

Group E



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seepex semi-submersible **BE** range pumps are designed to be installed vertically. They handle liquids of varying viscosities, which may also be abrasive or corrosive. Because of their high efficiency, space saving and maintenance-friendly design, **seepex BE** pumps have low operating costs and represent an economical alternative to other pumping systems.

BE range pumps are self-priming. They are particularly suited to empty clarifiers, sumps, tanks, scum

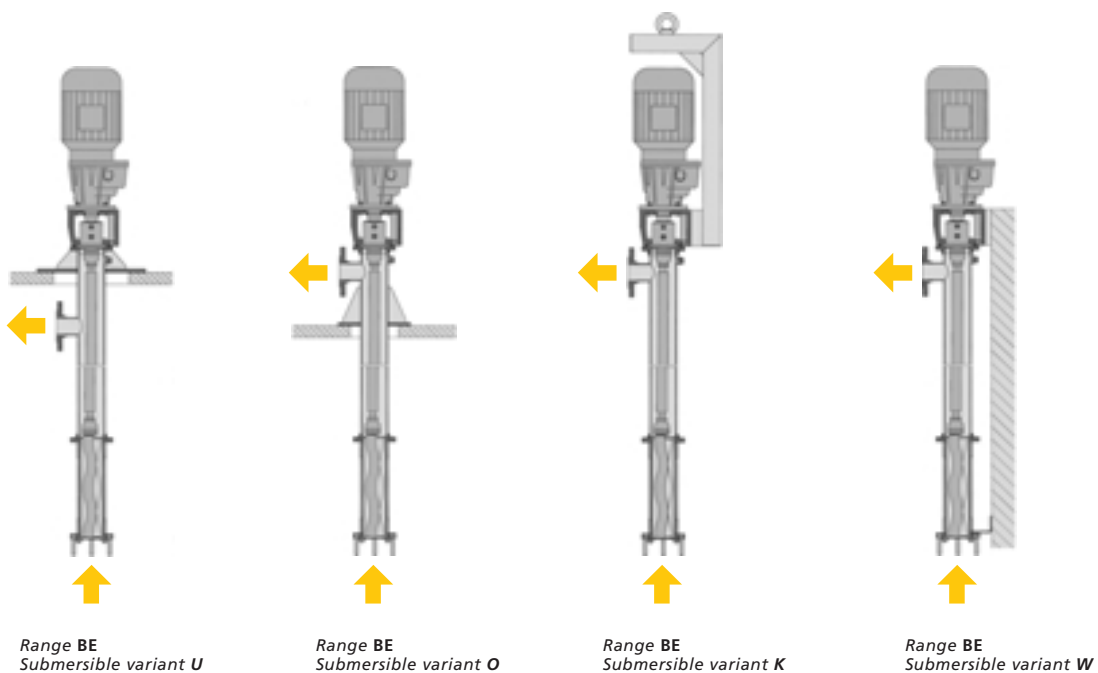
pits and a variety of containers. The use of gas- and vapor-tight mounting flanges (optional) allows the installation of the pumps in closed systems, making it easier to comply with strict environmental and safety regulations.

Industries in which **seepex** submersible pumps are used include oil and gas, chemical and petro-chemical, food, beverages, paint, civil engineering and water treatment.

Benefits and Characteristics

- ~ Minimal space requirements
- ~ Submersible depths up to 6,000 mm / 20'
- ~ Self-priming with no foot valves necessary
- ~ No suction side shaft seal
- ~ No intermediate bearings in drive train necessary
- ~ Good wear resistance because of **seepex 6L** geometry and low design speeds
- ~ No drop in efficiency from increased viscosity - low power consumption
- ~ Steady flow with minimal pulsation
- ~ Gentle handling of shear-sensitive products
- ~ Low NPSHR values
- ~ Differential pressures up to 12 bar / 174 psi
- ~ Low noise levels
- ~ Use of various drive systems
- ~ Easy maintenance with the optional intermediate housing

Submersible Variants



Design of Range BE

Drive, geared motors, variable speed drives or hydraulic motors of all major manufacturers, directly flanged to the pump without additional couplings or guards *information ADV, page 6.*

Lantern for connection of pump and drive

Plug-in Shaft connects the drive shaft to the joint; *information ADV, page 8.*

Pressure Casing with connections for pressure/vacuum gauge and mounting plate for fixing the pump. Flange connections in DIN or ANSI. Length acc. to customers specification.

Universal Joint Sleeve With Holding Bands protects the grease-filled joints from penetration of the liquid pumped, even in case of maximum pressure loading; streamlined design to reduce turbulence and NPSHR *information ADV, page 9.*

Tie Bolts/Screws corrosion proof, available in stainless steel design as an option.

Rotor with 6L geometry, wear resistant and corrosion-proof materials, with additional surface treatment *information ADV, page 4f.*

Plug-In-Shaft-Connection for quick disassembly or repair of pump and drive, for quick replacement of the rotating parts and shaft seals; with plug-in shaft pin and splash ring seal to secure the plug-in shaft connection and additionally protect the bearing from contamination/gland leakage *information ADV, page 8.*

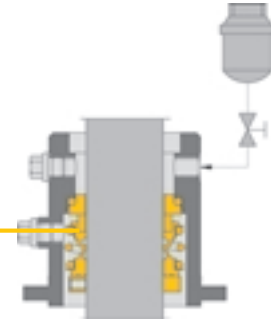
Shaft Sealing single-acting mechanical seal, independent of direction of rotation, with quench and supply tank (78cm³ - 4l) to protect the sliding surface against dry running.

Coupling Rod for power transmission; improved design.

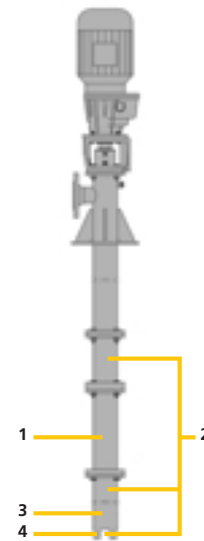
Intermediate Housing for quick assembly of rotor and stator used for submersible depths above 3m / 10'.

Joint Connection consisting of just 5 components. Power transmission through wear resistant, hardened and replaceable joint parts: easily repaired *information ADV, page 9.*

Stator with 6L geometry *information ADV, page 4f.* The seal on both ends is moulded as an integral part of the elastomeric stator; corrosion of the stator tube is never a problem because the pumped liquid never comes into contact with the metal tube or the bonding adhesive *information ADV, page 11.*



Options and Accessories

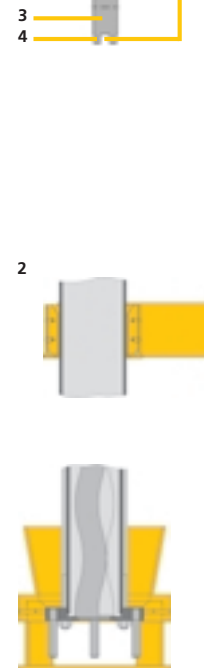


1. Incapsulated Stator used for corrosive liquids e.g. acids, lyes and solvents and for the use in the food-, pharmaceutical- and chemical industry.

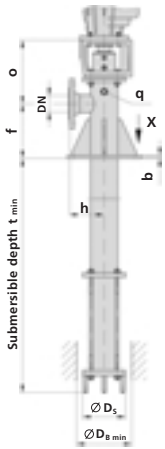
2. Guiding Unit for fixing the pump, alternatively for ground- or wall mounting.

3. Suction Pipe to increase the submersible depth.

4. Coarse Suction strainer prevents that larger solids penetrating the pump.

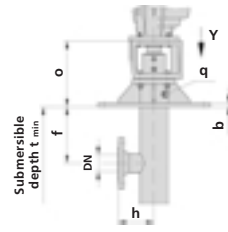
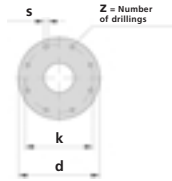


Dimensions



Submersible variant K, W, and O.
K and W without mounting plate

View X mounting plate



Submersible variant U

View Y mounting plate



Size Pressure stage						Suction fitting		Discharge fitting		Mounting plate Dimensions similar to DIN 2631, PN 6				
	t _{min}	f	h	o	q	D _{B min}	D _S	DN 1)	DN 2)	d	b	k	s	z
025-12	320	175	115	170	G1/4"	130	110	25	1"	210	10	170	11	4
05-12	360	175	115	170	G1/4"	130	110	32	1 1/4"	210	10	170	11	4
1-6L	360	175	115	170	G1/4"	130	110	32	1 1/4"	210	10	170	11	4
1-12	430	175	115	219	G3/8"	160	140	40	1 1/2"	240	10	200	11	8
2-6L	430	175	115	219	G3/8"	160	140	40	1 1/2"	240	10	200	11	8
2-12	510	180	115	210	G3/8"	160	140	50	2"	240	10	200	11	8
5-6L	510	180	115	210	G3/8"	160	140	50	2"	240	10	200	11	8
5-12	630	190	130	247	G1/2"	180	160	65	2 1/2"	265	12	225	13	8
10-6L	630	190	130	247	G1/2"	180	160	65	2 1/2"	265	12	225	13	8
10-12	780	200	150	289	G1/2"	205	185	80	3"	320	12	280	13	8
15-6LT	630	190	130	247	G1/2"	180	160	65	2 1/2"	265	12	225	13	8
15-12T	780	200	150	289	G1/2"	205	185	80	3"	320	12	280	13	8
30-6LT	780	200	150	289	G1/2"	205	185	80	3"	320	12	280	13	8
30-12T	930	210	165	329	G1/2"	230	210	100	4"	320	15	280	13	8
14-12	920	210	165	314	G1/2"	230	210	100	4"	320	15	280	13	8
17-6L	780	200	150	289	G1/2"	205	185	80	3"	320	12	280	13	8
17-12	930	210	165	329	G1/2"	230	210	100	4"	320	15	280	13	8
26-6L	920	210	165	314	G1/2"	230	210	100	4"	320	12	280	13	8
26-12	1035	225	165	329	G1/2"	250	230	125	5"	320	15	280	13	8
35-6L	930	210	165	329	G1/2"	230	210	100	4"	320	15	280	13	8
35-12	1180	225	195	381	G3/4"	270	250	125	5"	375	15	335	18	12
40-6LT	920	210	165	314	G1/2"	230	210	100	4"	320	15	280	13	8
52-6L	1035	225	165	329	G1/2"	250	230	125	5"	320	15	280	13	8
52-12	1310	240	195	381	G3/4"	305	285	150	6"	375	15	335	18	12
55-6LT	930	210	165	329	G1/2"	230	210	100	4"	320	15	280	13	8
55-12T	1180	225	195	381	G3/4"	270	250	125	5"	375	15	335	18	12
70-6L	1180	225	195	381	G3/4"	270	250	125	5"	375	15	335	18	12
70-12	1470	240	220	429	G3/4"	320	300	150	6"	440	18	395	18	12
75-6LT	1035	225	195	329	G1/2"	250	230	125	5"	320	15	280	13	8
100-6L	1310	240	195	381	G3/4"	305	285	150	6"	375	15	335	18	12
110-6LT	1180	225	195	381	G3/4"	270	250	125	5"	375	15	335	18	12
110-12T	1470	240	220	429	G3/4"	320	300	150	6"	440	18	395	18	12
130-6L	1470	240	220	429	G3/4"	320	300	150	6"	440	18	395	18	12
130-12	1760	270	240	522	G1"	405	385	200	8"	490	18	445	23	12
200-6L	1630	270	220	429	G3/4"	320	300	200	8"	440	18	395	18	12
200-12T	1760	270	240	522	G1"	405	385	200	8"	490	18	445	23	12
202-6L	1665	270	240	522	G1"	405	385	200	8"	490	18	445	23	12
300-6L	1760	270	240	522	G1"	405	385	200	8"	490	18	445	23	12

All dimensions are subject to change without notice

1) Available in metric system; i.e. DIN 2501, PN16, DIN 11851

2) Available in inch system; i.e. ANSI B16.5, 150lbs, ISO 228, ISO 2852

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