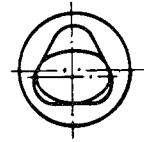
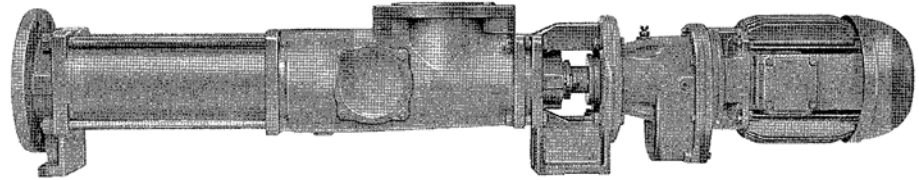


Eccentric Screw Pumps in Block Design

ALLTRI



Series AEB1L Design IE



Application

For handling liquid to highly viscous, neutral or aggressive, uncontaminated or abrasive liquids, liquids containing gases or which tend to froth, also containing fibers and solid matter.

In waste water and waste water treatment engineering, chemical and petrochemical industry, paper and cellulose industry, soap and fats industry, paint and lacquer industry, food and beverage industry, plastics industry, ceramics industry, agriculture, sugar industry and in shipbuilding.

Operating

Self-priming, single-stage, rotary positive displacement pump. Conveying elements are the rotating screw (rotor) and the fixed stator. In the cross-sectional plane, both are in contact with one another at three points forming three sealing lines along the length of the conveying elements. The contents of the sealed chambers which are formed as the rotor turns, are displaced axially and with complete continuity from the suction to the delivery end of the pump. Despite rotor rotation, there is no turbulence. The constant chamber volume excludes squeezing, thus ensuring an extremely gentle low-pulsating delivery.

Design features

The pump and drive are held together by the bearing bracket to form a modular unit.

By means of external casing connecting screws (clamping screws), the pressure casing, stator and suction casing are interconnected. The suction casings are designed particularly favorable to flow. The pump sizes 381 to 5001 are supplied in cast iron and are provided with staggered holes for cleaning. The stator vulcanized into a tube or shell casing (even elastomer wall thickness) is provided with external collars vulcanized to it on both sides, reliably sealing towards the suction casing and delivery casing and protecting the stator shell from corrosion.

The exchangeable shaft sealing housing or mechanical seal housing (subsequent conversion to another sealing variant is possible) are arranged between the suction casing and bearing bracket.

The torque of the drive is transmitted over the driving shaft and the joint shaft onto the rotor. On both sides, the joint shaft ends in liquid-tight encapsulated bolt joints, which are of particularly simple and sturdy design and easily absorb the eccentric movement of the rotor.

Shaft seal

By uncooled, cooled or heated stuffing box or by uncooled or cooled maintenance-free unbalanced, single or double-acting mechanical seal.

Material pairing and design are adapted to the respective operating conditions. For further data, refer to pages 4, 5.

The stuffing box or mechanical seal housings of the various shaft sealing types are interchangeable within one size. The various mechanical seal housing parts form a modular construction system and, in case of conversion to a different mechanical seal design, can be easily combined with one another.

Installation spaces for mechanical seals according to DIN 24 960 (except for double mechanical seal).

For further information, refer to pages 4, 5, 6 and 7.

Technical data

Deliveries, admissible speed ranges and required drive powers are to be taken from the performance graph on page 3 and/or the separate individual characteristic curves.

| | | | | AEB1L |
|-----------------------------------|----------------|-------|----|-----------|
| Delivery | Q | l/min | to | 2700 |
| Temperature of fluid pumped | t | °C ① | to | 100 |
| Delivery pressure single-stage | Δp | bar | to | 4 |
| Pump outlet pressure | p _d | bar ② | to | 16 |
| Attainable underpressure | p _s | bar ③ | to | 0.9 |
| Viscosity | η | mPa·s | to | 200.000 ③ |
| Admissible solids content | vol % ③ | | to | 60 |

The mentioned performance data are to be considered as a product and performance abstract only. The particular operating limits can be taken from the quotation or order acknowledgement.

Max. admissible grain sizes and fiber lengths

| | | | | | | |
|-------------------|-----|------|------|------|------|-----|
| Size | 51 | 101 | 201 | 381 | 551 | |
| max. grain size | mm | 3 | 4 | 5 | 6.3 | 8 |
| max. fiber length | mm | 35 | 42 | 42 | 48 | 60 |
| Size | 751 | 1001 | 1451 | 2701 | 5001 | |
| max. grain size | mm | 8 | 10 | 10 | 12.5 | 16 |
| max. fiber length | mm | 60 | 79 | 79 | 98 | 130 |

Increasing solids content and increasing grain size require a reduction of the pump speed:

- ① depending upon the fluid to be pumped and the elastomers employed
- ② depending on the direction of rotation, inlet pressure
- ③ depending on the pump size/design, speed and fluid to be pumped

Bearings

The driving and the joint shaft are situated in the reinforced bearings of the electric motors, gear motors or control gear which also absorb the generated axial forces.

As all drives are only supplied with reinforced bearings it must be assured that the assigned pumps can be run at full capacity within their permissible application limits.

Drive

The drive can be provided by non-explosion-proof or explosion-proof three-phase motors, gear motors or control gear. For drive options see page 12. For technical data and dimensions, please refer to the separate sales documentation, data sheet 19-00-0000-111-3.

A considerable advantage is the fact that within a pump size the connection dimensions for all drive types are the same. This allows a later change to a different drive type or size.

Installation

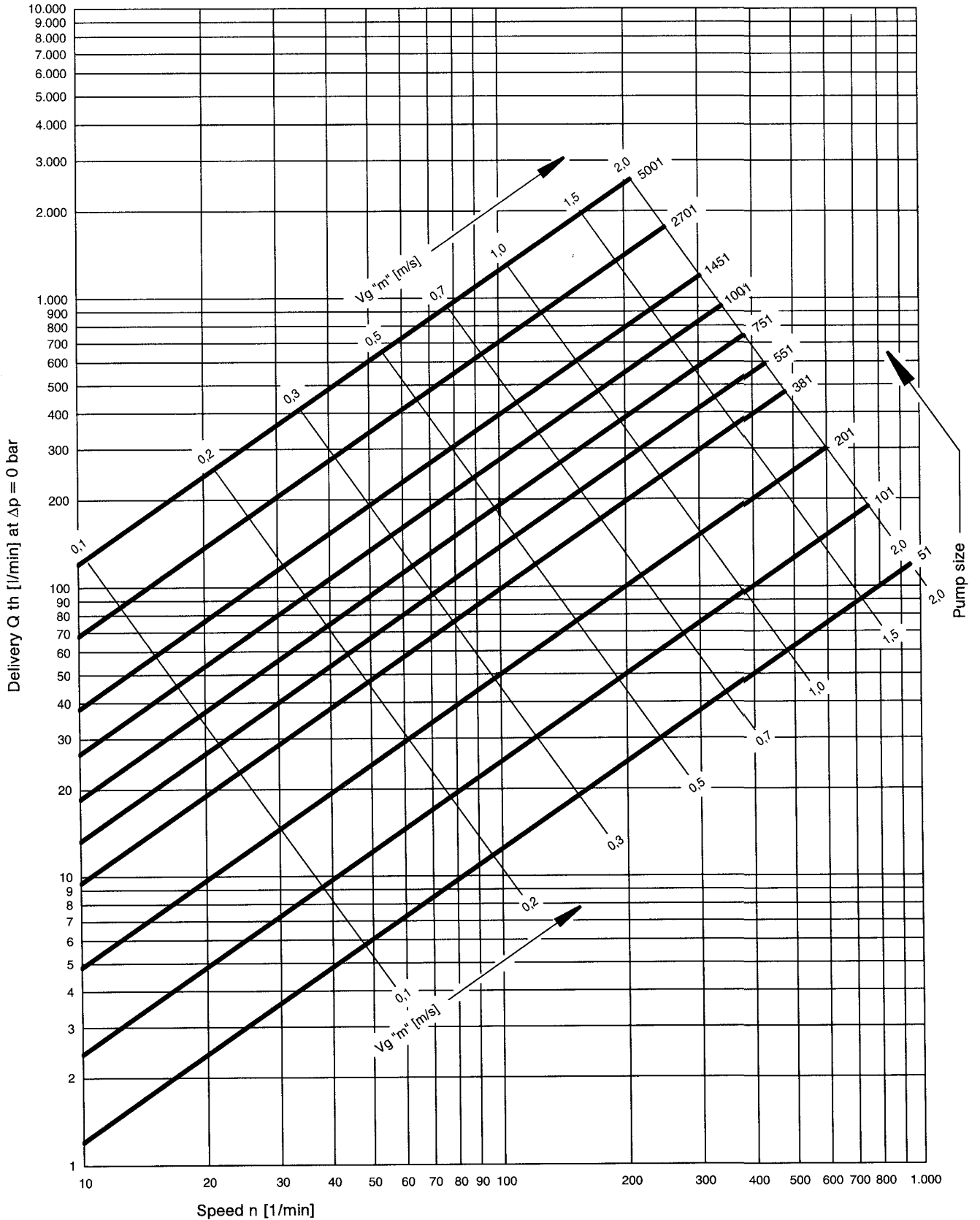
AEB1L pumps may be installed horizontally or vertically. In case of vertical arrangement, "shaft shank downwards" is not admissible.

Exchangeability of components

The components of all eccentric screw pumps are of a modular design. This allows a simple and cost-effective spare parts management even if different series and designs of pumps are used.

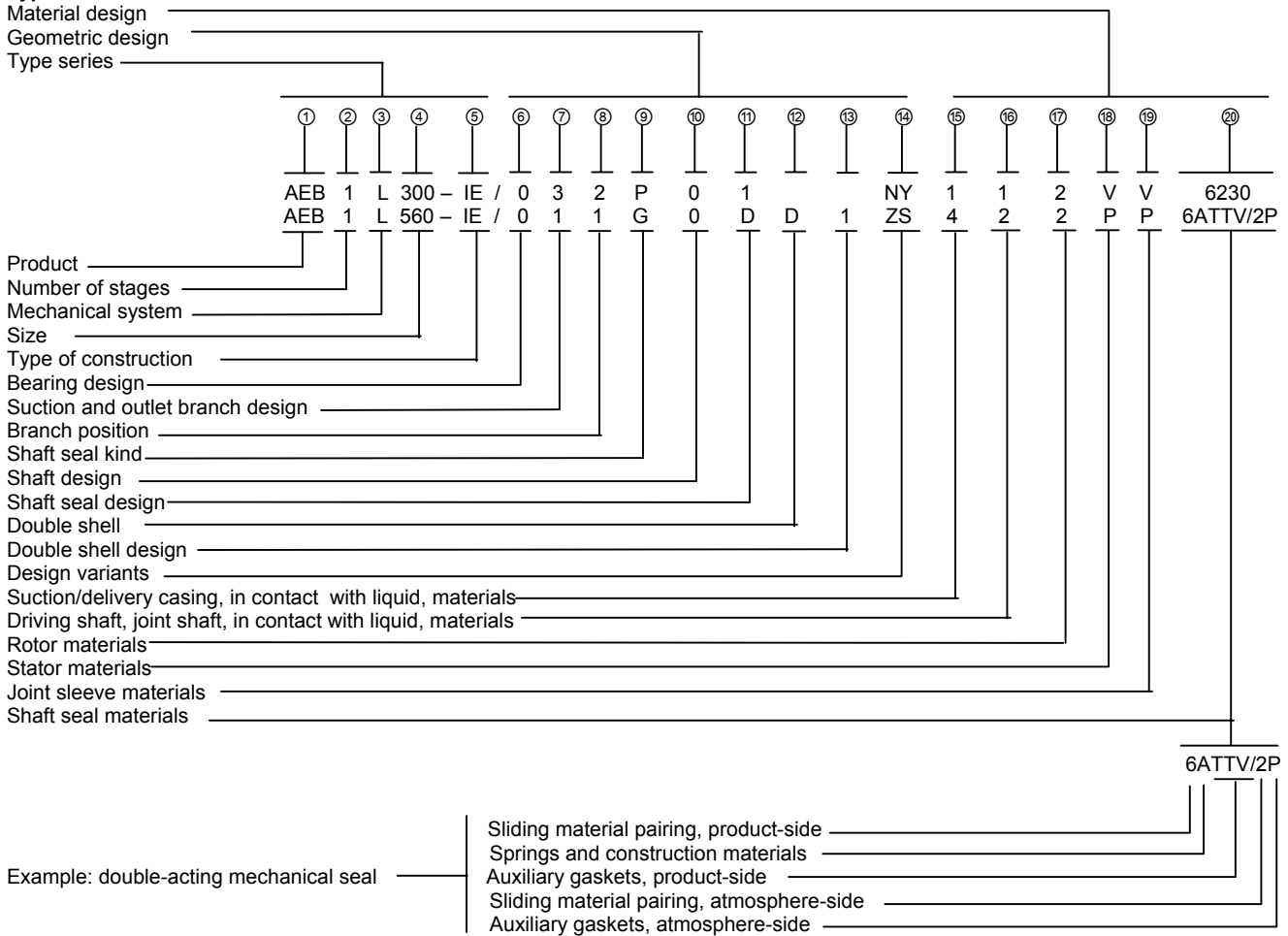
Performance graph

For a rough selection of the pump size and speed as a function of the requested delivery and kind of fluid to be pumped.
 $V_{g,m}$ = available, mean sliding speed of the rotor in the stator.



Sizes of the series AEB1L. Data on the performance range not covered by AEB1L series are to be taken from the last page of this brochure and/or the individual brochures of the other series.
 For exact performance data, please refer to the individual characteristics.

Type code

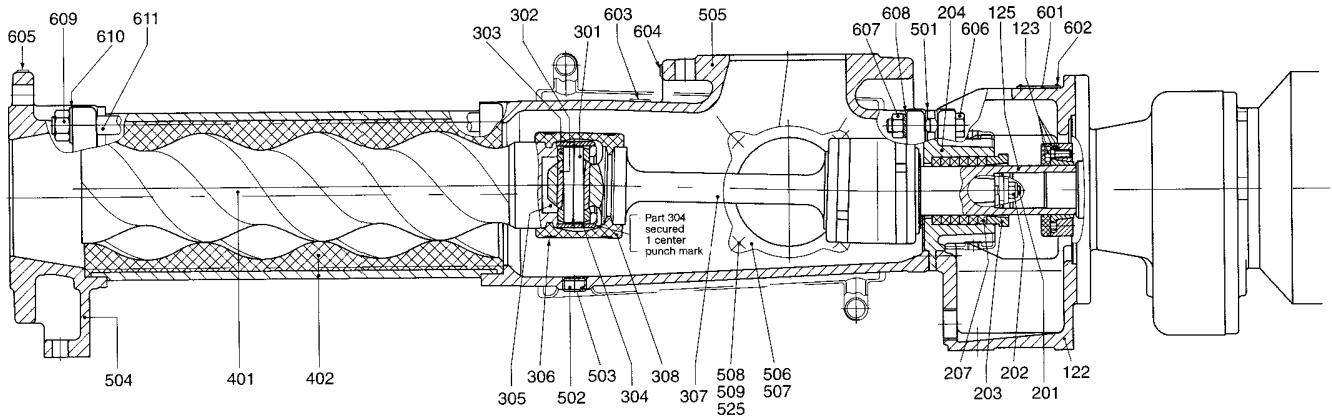


Explanations to the type code:

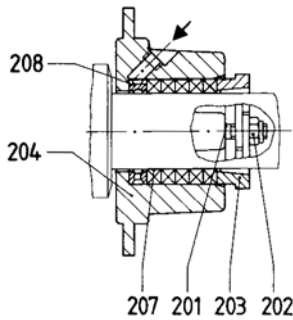
| Position in type code | Designation | Design |
|-----------------------|----------------------------------|--|
| ① | Product | ALLWEILER eccentric screw pumps |
| ② | Number of stages | 1 = single-stage up to delivery pressure Δp 4 bar |
| ③ | Mechanical system | L = rated for delivery pressure Δp 4 bar |
| ④ | Size | Possible sizes: 51, 101, 201, 381, 551, 751, 1001, 1451, 2701, 5001. The numbers indicate the theoretic delivery in l/min with $n = 400$ 1/min and $\Delta p = 0$ bar |
| ⑤ | Design | IE = Industrial design with external bearing |
| ⑥ | Bearing design | 0 = external bearing in drive unit |
| ⑦ | Suction and outlet branch design | 1 = DIN flanges 3 = ANSI flanges X = Suction and/or delivery branch of special design } according to dimensional sheet, pages 9 and 10 |
| ⑧ | Branch position | 1, 2, 3, 4 – For arrangement please refer to the representation, page 9. Arrangement 3 is not possible for size 75. |
| ⑨ | Shaft seal type | P = Stuffing box or other non-mechanical shaft seal G = Mechanical seal (mechanical shaft seal) |
| ⑩ | Shaft design | 0 = Shaft without shaft sleeve |
| ⑪ | Shaft seal design | Stuffing boxes P01 = Stuffing box of normal design (without sealing chamber ring / without flushing ring) P02 = Stuffing box with flushing ring P03 = Stuffing box with internal sealing chamber ring P04 = Stuffing box with external sealing chamber ring POX = Non-mechanical shaft seal of special design |

| | | | | | | | | | | | | |
|-------------------------------|--|--|--|-----|--|-----|-----|--|------|------|------|------|
| ⑩ | Shaft seal design (continued) X = design possible | Mechanical seals | | | | | | | | | | |
| | | for pump sizes | 15 | 101 | 201 | 381 | 551 | 751 | 1001 | 1451 | 2701 | 5001 |
| | | Shaft diameter at the location of the shaft seal | 25 | 25 | 30 | 35 | 43 | 43 | 53 | 53 | 60 | 75 |
| | | G0K = Individual mechanical seal, DIN 24 960, design K, shape U | X | X | X | X | X | X | X | X | X | X |
| | | G0N = as above, however design N | X | X | X | X | X | X | X | X | X | X |
| | | G0S = individual mechanical seal, DIN 24 960, design K, shape U, rotating part with integrated locking device and pump-sided throttling ring | X | X | X | X | X | X | X | X | X | X |
| | | G0T = as above, however design N | X | X | X | X | X | X | - | - | X | X |
| | | G0Q = individual mechanical seal, DIN 24 960, design K, shape U with quench | X | X | X | X | X | X | X | X | X | X |
| | | G0D = double mechanical seal | ① | ① | ① | ① | ① | ① | ① | ① | ① | ① |
| | | G0X = mechanical seal of special design | | | | | | | | | | |
| ① design available on request | | | | | | | | | | | | |
| ⑫ | Double shell | D = Double shell for heating/cooling, available in stainless steel only. Connections as threaded nipples for liquid media. Maximum heating/cooling pressure 6 bar, maximum heating temperature +100°C, maximum cooling temperature -40°C | | | | | | | | | | |
| ⑬ | Double shell design | 1 = Suction case with double shell 2 = Stuffing box for P01 with double shell 12 = Suction and shaft sealing housing P01 with double shell X = Special design for other double shells | | | | | | | | | | |
| ⑭ | Design variants | Stators (all qualities) | | | | | | | | | | |
| | | N M H T | Rotor with temperature play as a function of the temperature of the fluid pumped | | | | | | | | | |
| | | S = Worm on joint shaft X = other designs W = Winding protection on joint shaft Y = Rotor ductile hard chromium-plated Z = Rotor metallurgically coated | | | | | | | | | | |
| ⑮ | Suction and delivery casing in contact with fluid, materials | 1 = gray cast iron EN-GJL-250 3 = gray cast iron EN-GJL-250, inside H-rubberized 4 = 1.4408 A = 1.4462 X = Special materials | | | | | | | | | | |
| ⑯ | Driving shaft, joint shaft casing in contact with fluid, materials | 1 = 1.4021 2 = 1.4301/1.4571/1.4462 4 = 1.4571/1.4462 A = 1.4462 X = Special materials, i.e. also for articulated components | | | | | | | | | | |
| ⑰ | Rotor materials | 2 = 1.4301/1.4571 4 = 1.4571 A = 1.4462 3 = 1.2436/1.2379 X = Special materials, e.g. other metals, plastic materials | | | | | | | | | | |
| ⑱ | Stator materials | V = Fluoroelastomer (FPM) X = Special materials P = Acrylonitrile-butadiene rubbers (NBR) HP = Acrylonitrile-butadiene rubbers hydrated (HNBR) PU = Polyurethan Y = Chlorosulfonated polyethylene (CSM) | | | | | | | | | | |
| ⑲ | Joint sleeve materials | P = Acrylonitrile-butadiene rubbers (NBR) X = Special materials V = Fluoroelastomer (FPM) Y = Chlorosulfonated polyethylene (CSM) | | | | | | | | | | |
| ⑳ | Shaft seal materials | Stuffing box: 5846 = Ramie fiber with PTFE impregnation, asbestos-free 6426 = Aramid endless fiber with PTFE impregnation, asbestos-free 6230 = Graphite-incorporated PTFE with sliding means, asbestos-free | | | | | | | | | | |
| | | Mechanical seal: | | | | | | | | | | |
| | | Sliding material pairing | | | Spring and constr. materials | | | Auxiliary gaskets | | | | |
| | | 1st point for single gasket 1st + 4th point for double gasket | | | 2nd point | | | 3rd point for single gasket 3rd + 5th points for double gasket | | | | |
| | | 2 = CrMo cast iron/hard carbon 4 = Ceramics/hard carbon 5 = Hard metal/hard metal, highly wear-resistant 6 = Silicon carbide/silicon carbide highly wear-resistant, corrosion-resistant 7 = Silicon carbide/silicon carbide highly wear-resistant, highly corrosion-resistant X = Special materials | | | A = 1.4300 F = 1.4571 L = Hastelloy B M = Hastelloy C4 X = Special materials | | | P = Acrylonitrile-butadiene rubbers (NBR) ① double PTFE-coated E = EP caoutchouc S = Silicon caoutchouc N = Polychloroprene (N) V = Fluoroelastomer (FPM) TTE = EP caoutchouc ① TTV = Fluoroelastomer (FPM) ① TTS = Silicon caoutchouc ① X = Special materials | | | | |

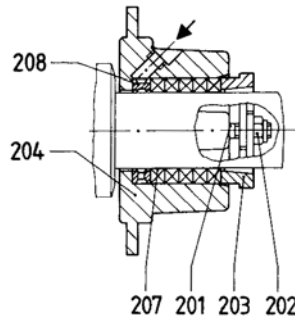
Sectional drawing and components list



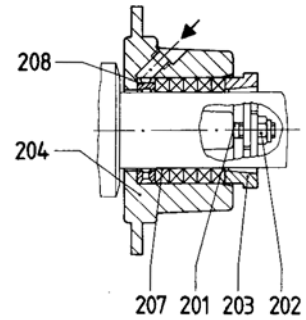
Bearing 0: External bearing in drive unit
 Shaft seal P01: Due to particularly great packing length, versatile, admissible pressure at the shaft seal $p = -0.7$ to 16 bar



P02 Stuffing box with flushing ring
 To be employed for very abrasive fluids pumped with external flushing
 $p = -0.7$ to 12 bar



P03 Stuffing box with internal sealing chamber ring
 To be employed for pure fluids with internal sealing or for abrasive fluids with external sealing
 $p = -0.8$ to 6.0 bar

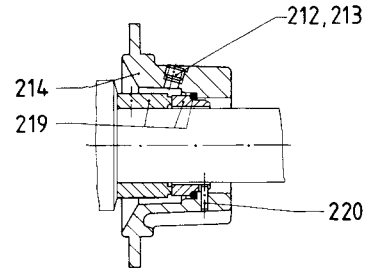
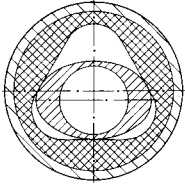


P04 Stuffing box with internal sealing chamber ring
 To be employed in case of incompatibility of the external sealing liquid with the fluid pumped or if air inlet is to be avoided
 $p = -0.9$ to bar

| Part No. | Name |
|----------|-------------------------|
| 122 | Bearing bracket |
| 123 | Tensioning set |
| 125 | Driving shaft |
| 201 | Stud bolt |
| 202 | Self-locking nut |
| 203 | Gland half |
| 204 | Shaft sealing housing |
| 207 | Stuffing box |
| 208 | Flushing ring |
| 209 | Sealing chamber ring |
| 212 | Screw plug |
| 213 | Joint tape |
| 214 | Mechanical seal housing |

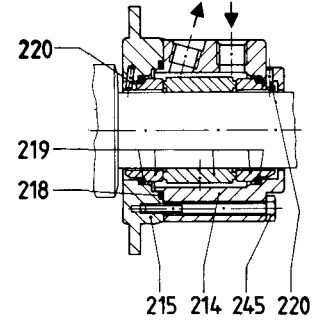
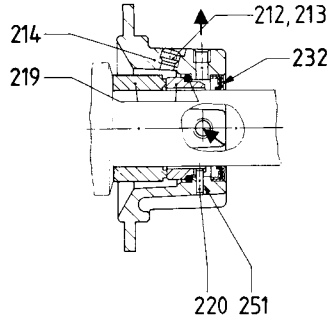
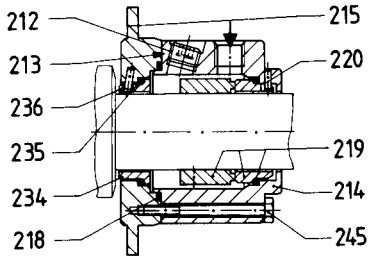
| Part No. | Name |
|----------|-----------------------|
| 215 | Mechanical seal cover |
| 218 | O-ring |
| 219 | Mechanical seal |
| 220 | Locking pin |
| 232 | Shaft seal ring |
| 234 | Throttling ring |
| 235 | O-ring |
| 236 | Locking pin |
| 245 | Hexagon screw |
| 251 | Sealing compound |
| 301 | Joint bolt |
| 302 | Joint bush |
| 303 | Bush for joint bolt |

| Part No. | Name |
|----------|-----------------------------|
| 304 | Joint sleeve |
| 305 | Joint lubricant |
| 306 | Joint clamp |
| 307 | Joint shaft |
| 308 | Joint collar |
| 401 | Rotor |
| 402 | Stator |
| 403 | Stator gasket delivery-side |
| 404 | Stator gasket suction-side |
| 501 | Gasket for suction casing |
| 502 | Screw plug |
| 503 | Joint tape |
| 504 | Delivery casing |



Geometry of pump elements
series AEB1L

G0K/G0N Single mechanical seal,
DIN 24 960, K/N design, U shape.
For employment, please inquire,
 $p = -0.5$ to 16 bar



G0S/G0T Single mechanical seal,
DIN 24 960, K/N design, U shape.
Integrated locking device with
flushing liquid connection and
pump-side throttling ring.
For employment, please inquire,
 $p = -0.5$ to 16 bar

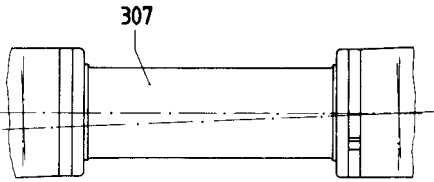
G0Q Single mechanical seal,
DIN 24 960, K design, U shape
with quench.
For employment, please inquire,
 $p = -0.5$ to 16 bar

G0D Double mechanical seal
with sealing liquid connection.
For employment, please inquire,
 $p = -0.95$ to 16 bar

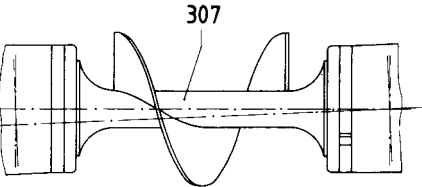
| Part No. | Name |
|----------|------------------------------------|
| 505 | Suction casing |
| 506 | Suction casing cover |
| 507 | Gasket |
| 508 | Stud bolt |
| 509 | Hexagon nut |
| 525 | Washer |
| 601 | Type plate |
| 602 | Round head grooved pin |
| 603 | Information plate commissioning |
| 604 | Information plate suction |
| 605 | Information plate pressure |
| 606 | Hexagon screw |

| Part No. | Name |
|----------|----------------------|
| 607 | Hexagon nut |
| 608 | Fan-type lock washer |
| 609 | Hexagon nut |
| 610 | Washer |
| 611 | Clamp bolt |

① not applicable for size 51, 101

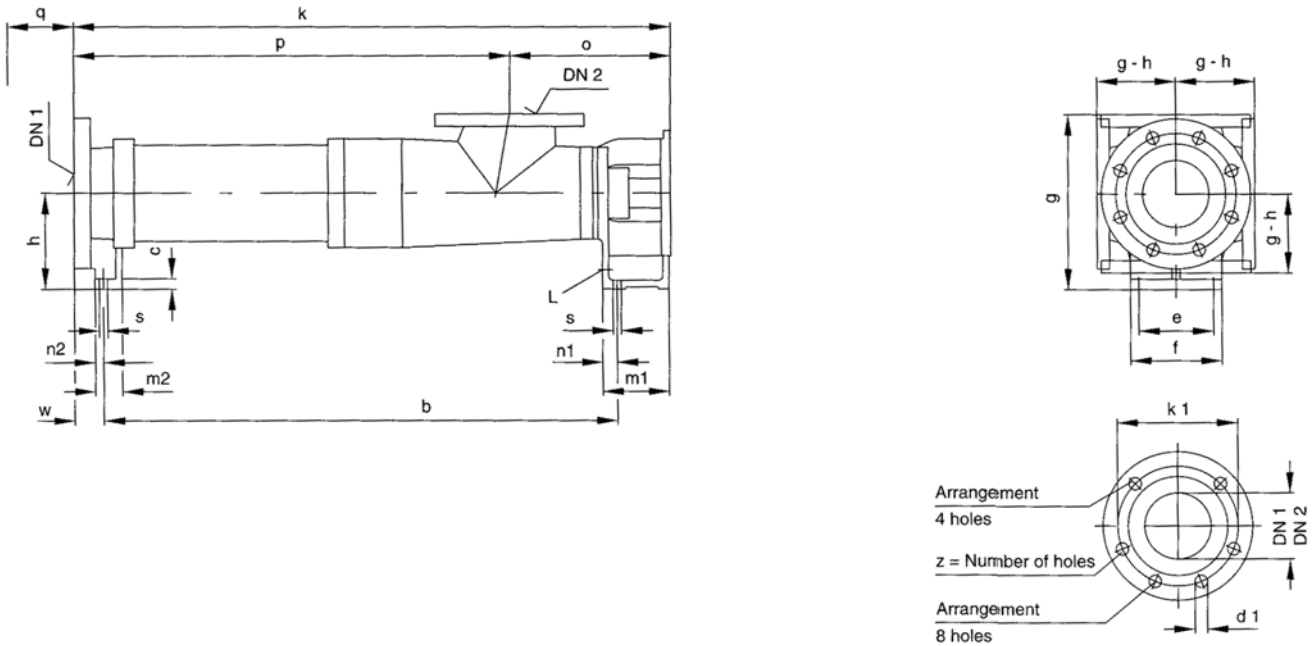


Winding protection on joint shaft



Worm on joint shaft

Pump dimensions, auxiliary connections, possible branch positions, weights



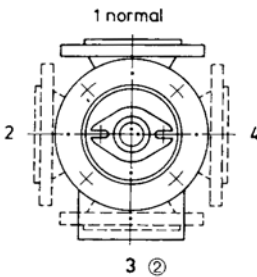
Dimensions in mm, nominal width of ANSI flanges (DN) in inches. Subject to alteration.

Sense of rotation: normally counter-clockwise as seen from the driving side with DN₁ = outlet branch, DN₂ = suction branch, change of rotation possible, then, DN₁ = suction branch, DN₂ = outlet branch

| Series Size | Pump dimensions | | | | | | | | | | | | | | Max. mass kg |
|---------------|-----------------|----|-----|-----|-----|----------------|----------------|----------------|----------------|-------|-----|------|--------|-----|--------------|
| | b | c | e | f | h | m ₁ | m ₂ | n ₁ | n ₂ | o | ① q | s | L | | |
| AEB1L 51-IE | 460 | 10 | 75 | 95 | 90 | 84 | 30 | 19 | 11 | 162 | 170 | 9 | Rp 3/8 | 19 | |
| AEB1L 101-IE | 506 | 10 | 75 | 95 | 90 | 84 | 30 | 19 | 11 | 167 | 210 | 9 | Rp 3/8 | 22 | |
| AEB1L 201-IE | 606 | 10 | 85 | 105 | 100 | 93 | 30 | 19 | 11 | 192 | 260 | 9 | Rp 3/8 | 34 | |
| AEB1L 381-IE | 748 | 13 | 100 | 125 | 125 | 106 | 38 | 25 | 13 | 227 | 325 | 11,5 | Rp 1/2 | 54 | |
| AEB1L 551-IE | 807 | 15 | 114 | 140 | 140 | 110 | 40 | 26 | 14 | 252 | 330 | 14 | Rp 3/4 | 77 | |
| AEB1L 751-IE | 931 | 15 | 114 | 140 | 140 | 110 | 40 | 26 | 14 | 252 | 435 | 14 | Rp 3/4 | 85 | |
| AEB1L 1001-IE | 1012.5 | 16 | 132 | 168 | 160 | 128 | 50 | 31 | 19 | 304 | 425 | 18 | Rp 3/4 | 118 | |
| AEB1L 1451-IE | 1117.5 | 16 | 132 | 168 | 160 | 128 | 50 | 31 | 19 | 304 | 540 | 18 | Rp 3/4 | 131 | |
| AEB1L 2701-IE | 1329.5 | 16 | 164 | 200 | 180 | 131 | 50 | 31 | 19 | 330 | 630 | 18 | Rp 3/4 | 332 | |
| AEB1L 5001-IE | 1625.5 | 21 | 200 | 245 | 225 | 153 | 63 | 40 | 23 | 407.5 | 775 | 22 | Rp 1 | 364 | |

① Stator dismantling dimension

Possible branch positions as seen from the drive



② not for series/size 51 and 101

| Flange dimensions | | | | | | | |
|----------------------------------|----------------|----------------|----|----------------------------------|----------------|----------------|---|
| DIN 2501, PN 16 ③ | | | | ANSI B16.1/16.5, Class 125/150 ④ | | | |
| DN ₁ /DN ₂ | k ₁ | d ₁ | z | DN ₁ /DN ₂ | k ₁ | d ₁ | z |
| 40 | 110 | 18 | 4 | 1 1/2 | 98,4 | 15,9 | 4 |
| 50 | 125 | 18 | 4 | 2 | 120,6 | 19 | 4 |
| 65 | 145 | 18 | 4 | 2 1/2 | 139,7 | 19 | 4 |
| 80 | 160 | 18 | 8 | 3 | 152,4 | 19 | 4 |
| 100 | 180 | 18 | 8 | 4 | 190,5 | 19 | 8 |
| 125 | 210 | 18 | 8 | 5 | 215,9 | 22,2 | 8 |
| 150 | 240 | 22 | 8 | 6 | 241,3 | 22,2 | 8 |
| 200 | 295 | 22 | 12 | 8 | 298,4 | 22,2 | 8 |

| Series Size | Connection dimensions for suction and outlet branch | | | | | | | | | | | | | | | | | |
|---------------|---|-----------------|--------|------|------|-----|-----------------|---------------------------------|--------|------|------|-----|-----------------|---------------------------------|--------|------|------|-----|
| | Flanges DIN 2501, PN 16 ⑤ | | | | | | | Flanges ANSI B16.1, Class 125 ④ | | | | | | Flanges ANSI B16.5, Class 150 ④ | | | | |
| | DN ₁ | DN ₂ | ③ k | ③ p | ③ w | ③ g | DN ₁ | DN ₂ | ③ k | ③ p | ③ w | ③ g | DN ₁ | DN ₂ | k | p | w | g |
| AEB1L 51-IE | 40 | 40 | 569 | 407 | 41 | 175 | 1½ | 1½ | 566 | 404 | 38 | 172 | 1½ | 1½ | 569 | 407 | 41 | 175 |
| AEB1L 101-IE | 50 | 50 | 617 | 450 | 43 | 175 | 2 | 2 | 613 | 446 | 39 | 171 | 2 | 2 | 617 | 450 | 43 | 175 |
| AEB1L 201-IE | 65 | 65 | 729 | 537 | 46 | 190 | 2 ½ | 2 ½ | 728 | 536 | 45 | 189 | 2 ½ | 2 ½ | 733 | 541 | 50 | 194 |
| AEB1L 381-IE | 80 | 80 | 877 | 650 | 45 | 230 | 3 | 3 | 875 | 648 | 43 | 228 | 3 | 3 | 880 | 653 | 48 | 233 |
| AEB1L 551-IE | 100 | 100 | 938 | 686 | 43.5 | 260 | 4 | 4 | 940 | 688 | 45.5 | 262 | 4 | 4 | 940 | 688 | 45.5 | 262 |
| AEB1L 751-IE | 100 | 100 | 1062 | 810 | 43.5 | 260 | 4 | 4 | 1064 | 812 | 45.5 | 262 | 4 | 4 | 1064 | 812 | 45.5 | 262 |
| AEB1L 1001-IE | 125 | 125 | 1158 | 854 | 44 | 300 | 5 | 5 | 1158 | 854 | 44 | 300 | 5 | 5 | 1158 | 854 | 44 | 300 |
| AEB1L 1451-IE | 125 | 125 | 1263 | 959 | 44 | 300 | 5 | 5 | 1263 | 959 | 44 | 300 | 5 | 5 | 1263 | 959 | 44 | 300 |
| AEB1L 2701-IE | 150 | 150 | 1492 | 1162 | 59 | 350 | 6 | 6 | 1492 | 1162 | 59 | 350 | 6 | 6 | 1492 | 1162 | 59 | 350 |
| AEB1L 5001-IE | 200 | 200 | 1806.5 | 1399 | 64 | 425 | 8 | 8 | 1806.5 | 1399 | 64 | 425 | 8 | 8 | 1086.5 | 1399 | 64 | 425 |

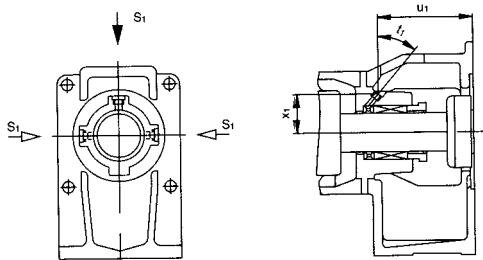
③ for rubber-coating + 3 mm

⑤ up to DN 100 sealing surface DIN 2526 shape C, machined as shape A

④ Sealing surface: stock finish

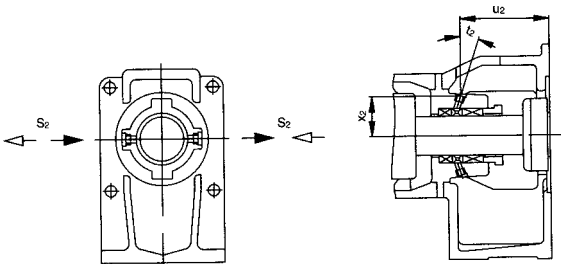
from DN 125 sealing surface DIN 2526 shape A

Arrangement of auxiliary connections for shaft seals



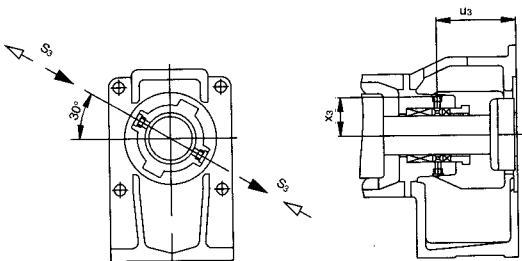
P02 with flushing rod

G0S/G0T with flushing connection



P03 with internal sealing chamber ring

G0Q with quench connection



P04 with external sealing chamber ring

G0D with sealing connection

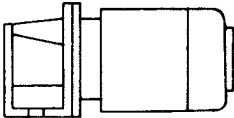
| Series Size | Connection dimensions for auxiliary connections for shaft seals | | | | | | | | | | |
|---------------|---|----------------|----------------|----------------|--|----------------|----------------|----------------|--|----------------|----------------|
| | P02 with flushing ring | | | | P03 with internal sealing chamber ring | | | | P04 with external sealing chamber ring | | |
| | S ₁ ⊕ | u ₁ | x ₁ | t ₁ | S ₂ ⊕ | u ₂ | x ₂ | t ₂ | S ₃ ⊕ | u ₃ | x ₃ |
| AEB1L 51-IE | M 8 x 1 | 84 | 28 | 42° | M 8 x 1 | 77 | 30 | 20° | M 8 x 1 | 69 | 30.5 |
| AEB1L 101-IE | M 8 x 1 | 84 | 28 | 42° | M 8 x 1 | 77 | 30 | 20° | M 8 x 1 | 69 | 30.5 |
| AEB1L 201-IE | M 8 x 1 | 93 | 31.5 | 40° | M 8 x 1 | 87 | 32 | 20° | M 8 x 1 | 78,5 | 33.5 |
| AEB1L 381-IE | Rp ½ | 104.5 | 38 | 42° | Rp ½ | 97 | 40 | 17° | Rp ½ | 85 | 39.5 |
| AEB1L 551-IE | Rp ½ | 109.5 | 42 | 42° | Rp ½ | 102 | 44 | 17° | Rp ½ | 91,5 | 43.5 |
| AEB1L 751-IE | Rp ½ | 109.5 | 42 | 42° | Rp ½ | 102 | 44 | 17° | Rp ½ | 91,5 | 43.5 |
| AEB1L 1001-IE | Rp ½ | 128.5 | 52 | 42° | Rp ½ | 119,5 | 54 | 17° | Rp ½ | 105 | 54.5 |
| AEB1L 1451-IE | Rp ½ | 128.5 | 52 | 42° | Rp ½ | 119,5 | 54 | 17° | Rp ½ | 105 | 54.5 |
| AEB1L 2701-IE | Rp ½ | 133 | 56 | 35° | Rp ½ | 122,5 | 57 | 13° | Rp ½ | 106 | 58 |
| AEB1L 5001-IE | Rp ¼ | 155 | 67 | 35° | Rp ¼ | 142 | 68.5 | 13° | Rp ¼ | 122 | 69.5 |

| Series Size | Connection dimensions for auxiliary connections for shaft seals | | | | | | | | | | | | |
|---------------|---|----------------|----------------|----------------------------|----------------|----------------|-----------------------------|------------------|----------------|----------------|----------------|----------------|----------------|
| | G0S/G0T with flushing connection | | | G0Q with quench connection | | | G0D with sealing connection | | | | | | |
| | S ₅ ⊕ | u ₅ | x ₅ | S ₄ ⊕ | u ₄ | x ₄ | S ₆ ⊕ | S ₇ ⊕ | u ₆ | u ₇ | x ₆ | x ₇ | t ₇ |
| AEB1L 51-IE | Rp ¼ | 46.5 | 34 | Rp ½ | 56 | 30.5 | Rp ¼ | Rp ¼ | 46.5 | 71.5 | 34 | 33 | 15° |
| AEB1L 101-IE | Rp ¼ | 46.5 | 34 | Rp ½ | 56 | 30.5 | Rp ¼ | Rp ¼ | 46.5 | 71.5 | 34 | 33 | 15° |
| AEB1L 201-IE | Rp ¼ | 55 | 38 | Rp ½ | 63.5 | 30.5 | Rp ¼ | Rp ¼ | 55 | 79 | 38 | 36.5 | 15° |
| AEB1L 381-IE | Rp ¼ | 69.5 | 41.5 | Rp ½ | 74 | 33.5 | Rp ¼ | Rp ¼ | 69.5 | 95 | 41.5 | 40 | 15° |
| AEB1L 551-IE | Rp ¾ | 71.5 | 48.5 | Rp ½ | 79 | 41 | Rp ¾ | Rp ¾ | 71.5 | 96.5 | 48.5 | 47 | 15° |
| AEB1L 751-IE | Rp ¾ | 71.5 | 48.5 | Rp ½ | 79 | 41 | Rp ¾ | Rp ¾ | 71.5 | 96.5 | 48.5 | 47 | 15° |
| AEB1L 1001-IE | Rp ¾ | 92.5 | 56 | Rp ½ | 99.5 | 54 | Rp ¾ | Rp ¾ | 92.5 | 118 | 56 | 53.5 | 20° |
| AEB1L 1451-IE | Rp ¾ | 92.5 | 56 | Rp ½ | 99.5 | 54 | Rp ¾ | Rp ¾ | 92.5 | 118 | 56 | 53.5 | 20° |
| AEB1L 2701-IE | Rp ¾ | 80.5 | 61 | Rp ½ | 99 | 57.5 | Rp ¾ | Rp ¾ | 80.5 | 121 | 61 | 58.5 | 20° |
| AEB1L 5001-IE | Rp ¾ | 103 | 71.5 | Rp ¼ | 106.5 | 68.5 | Rp ¾ | Rp ¾ | 103 | 145 | 71.5 | 69 | 22° |

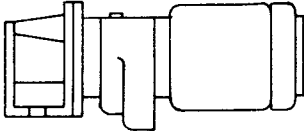
⊕ Threaded connection DIN 3852, shape Z

- ▶ Standart supply
- ▷ Possible supply. In this case, the sealing housing must be turned for designs P02, G0S, G0T, G0Q, GOD.

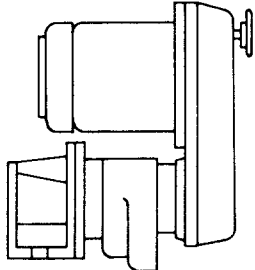
Drive options



AEDB-IE with electric motor



AEDB-IE with gear motor



AEDB-IE with infinitely variable gear

| Range of eccentric screw pumps | Series | Number of stages | Maximum output at $\Delta p = 0$ bar | | Maximum del. pressure bar | Maximum viscosity mPa·s |
|--------------------------------|------------|------------------|--------------------------------------|-------|---------------------------|-------------------------|
| | | | m ³ /h | l/min | | |
| | AE1L-ID | 1 | 162 | 2700 | 4 | 200.000 |
| | AE.E-ID | 1,2 | 450 | 7500 | 10 | 300.000 |
| | AE.N-ID | 1,2 | 290 | 4850 | 16 | 270.000 |
| | AE.H-ID | 2,4 | 174 | 2900 | 24 | 270.000 |
| | AEB1L-IE | 1 | 162 | 2700 | 4 | 200.000 |
| | AEB.E-IE | 1,2 | 174 | 2900 | 6 | 300.000 |
| | AEB.N-IE | 1,2 | 111 | 1850 | 12 | 270.000 |
| | AEB4H-IE | 4 | 12 | 200 | 24 | 270.000 |
| | AE.N...-RG | 1,2,4 | 30 | 500 | 20 | 1.000.000 |
| | TECFLOW | 1 | 162 | 2700 | 4 | 200.000 |
| | SEZP | 1,2 | 21 | 350 | 10 | 1.000.000 |
| | SNZP | 1,2 | 45 | 750 | 12 | 1.000.000 |
| | SNZBP | 1,2 | 45 | 750 | 12 | 1.000.000 |
| | SSP | 1,2 | 48 | 800 | 12 | 150.000 |
| | SSBP | 1,2 | 48 | 800 | 12 | 150.000 |
| | SETP ① | 1,2 | 140 | 2350 | 10 | 300.000 |
| | SETBP | 1,2 | 40 | 670 | 10 | 150.000 |
| | SEFBP | 1 | 40 | 670 | 6 | 150.000 |
| | SMP | 1 | 40 | 670 | 6 | 150.000 |
| | SMP2 | 1 | 5,5 | 92 | 6 | 11.500 |
| | AFP | 1 | 2,8 | 47 | 6 | 50.000 |
| | ANP | 2 | 2,5 | 42 | 12 | 20.000 |
| | ANBP | 2 | 2,5 | 42 | 12 | 20.000 |
| | ASP | 2 | 2,5 | 42 | 12 | 20.000 |
| | ASBP | 2 | 2,5 | 42 | 12 | 20.000 |
| | ADP | 3 | 0,6 | 10 | 12 | 20.000 |
| | ADBP | 3 | 0,6 | 10 | 12 | 20.000 |
| | ACNP | 1,2 | 29 | 480 | 12 | 150.000 |
| | ACNBP | 1,2 | 29 | 480 | 12 | 150.000 |

① Special versions for higher pressures available.

| Peristaltic range | Series | Maximum output | | Maximum del. pressure bar | Maximum viscosity mPa·s |
|-------------------|--------|-------------------|-------|---------------------------|-------------------------|
| | | m ³ /h | l/min | | |
| | ASL | 2,4 | 40 | 4 | 100.000 |
| | ASH | 60 | 1000 | 15 | 100.000 |

| Macerator range | Series | Maximum throughput m ³ /h | Generated delivery head m |
|-----------------|-------------|--------------------------------------|---------------------------|
| | | | |
| | ABM ... S-1 | 80 at 3 % solids | 3 |
| | AM ... I-1 | 160 at 3 % solids | - |
| | ABM ... I-1 | 80 at 3 % solids | - |

Accessories

Pump accessories: Stator setting devices, electrical heaters, bridge breakers.
Drivers: Electric motors, geared motors, variable speed transmissions, reduction gearboxes, internal combustion engines, pneumatic and hydraulic drives.
Transmission components: Couplings, V-belt transmissions, toothed belt transmissions, other types of transmission.
Base plates: Standard and special versions, wheeled trolleys, mounting flanges.
Safety arrangements: Bypass lines with safety or regulating valves, systems to guard against dry running (conductive, capacitive, thermal etc.).
Other accessories: Electrical, hydraulic and pneumatic control arrangements, filter systems, metering equipment, seal liquid and circulating systems for shaft seals, valves, flanges, flexible pipes.

Subject to technical alterations.



A Member of the
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