

# Eccentric Screw Pumps in Block Design

## Series AEB1N, AEB2N 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 or two-stage, rotary positive displacement pump. Conveying elements are the rotating eccentric screw (rotor) and the fixed stator. In the cross-sectional plane, both are in contact with one another at two points forming two 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 100 to 1450 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.

Stators are supplied:

with uneven wall thickness:

- single-stage not for size 12
- two-stage for all sizes

with even wall thickness:

- single-stage not for sizes 12, 25, 50
- two-stage not for sizes 25, 50

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.

|                             |                         | AEB1N   | AEB2N |
|-----------------------------|-------------------------|---------|-------|
| Delivery                    | Q l/min to              | 1850    |       |
| Temperature of fluid pumped | t °C ① to               | 100     |       |
| Delivery pressure           | single-stage Δp bar to  | 6 ②     | –     |
|                             | two-stage Δp bar to     | –       | 12    |
| Pump outlet pressure        | p <sub>d</sub> bar ④ to | 16      |       |
| Attainable underpressure    | p <sub>s</sub> bar ③ to | 0.95    |       |
| Viscosity                   | η mPa·s ③ to            | 270.000 |       |
| 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                 | 12 | 25  | 50 | 100 | 200 | 380 |
|----------------------|----|-----|----|-----|-----|-----|
| max. grain size mm   | 2  | 2.5 | 3  | 3.8 | 5   | 6.8 |
| max. fiber length mm | 35 | 42  | 42 | 48  | 60  | 79  |

| Size                 | 750 | 1450 |
|----------------------|-----|------|
| max. grain size mm   | 9.5 | 14   |
| max. fiber length mm | 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 12 bar in the case of the stator with even elastomer wall thickness
- ③ depending on the pump size/design, speed and fluid to be pumped
- ④ depending on the direction of rotation, inlet pressure

**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**

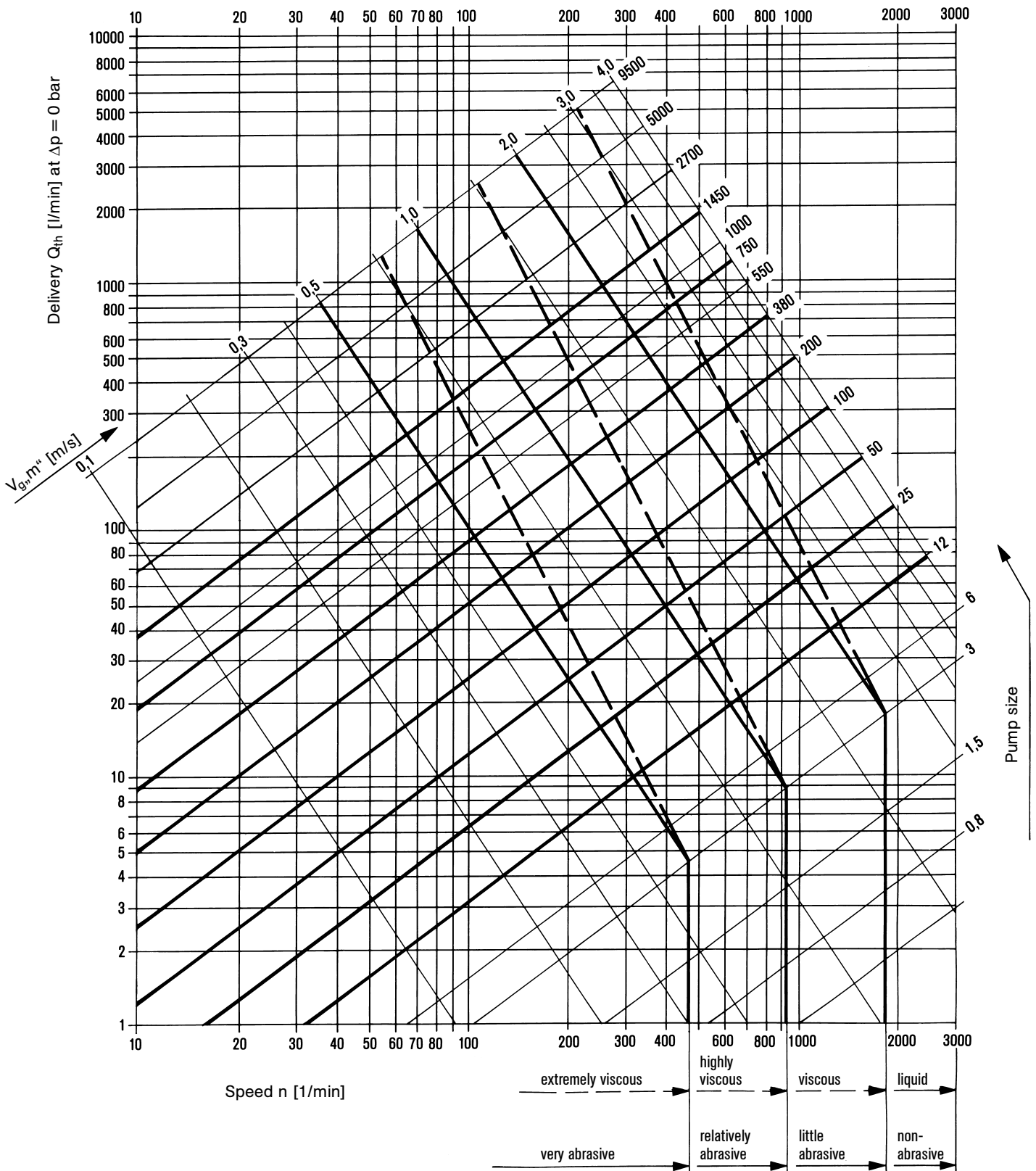
AE pumps may be installed horizontally or vertically. In case of vertical arrangement, "shaft shank downwards" is not admissible.

**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.

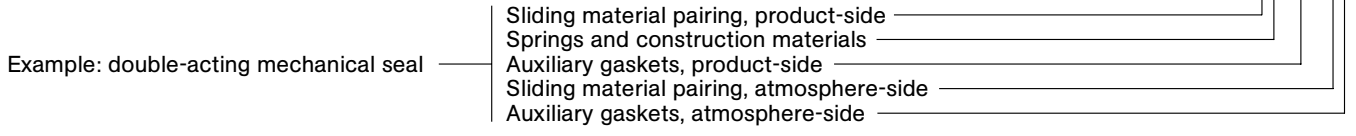
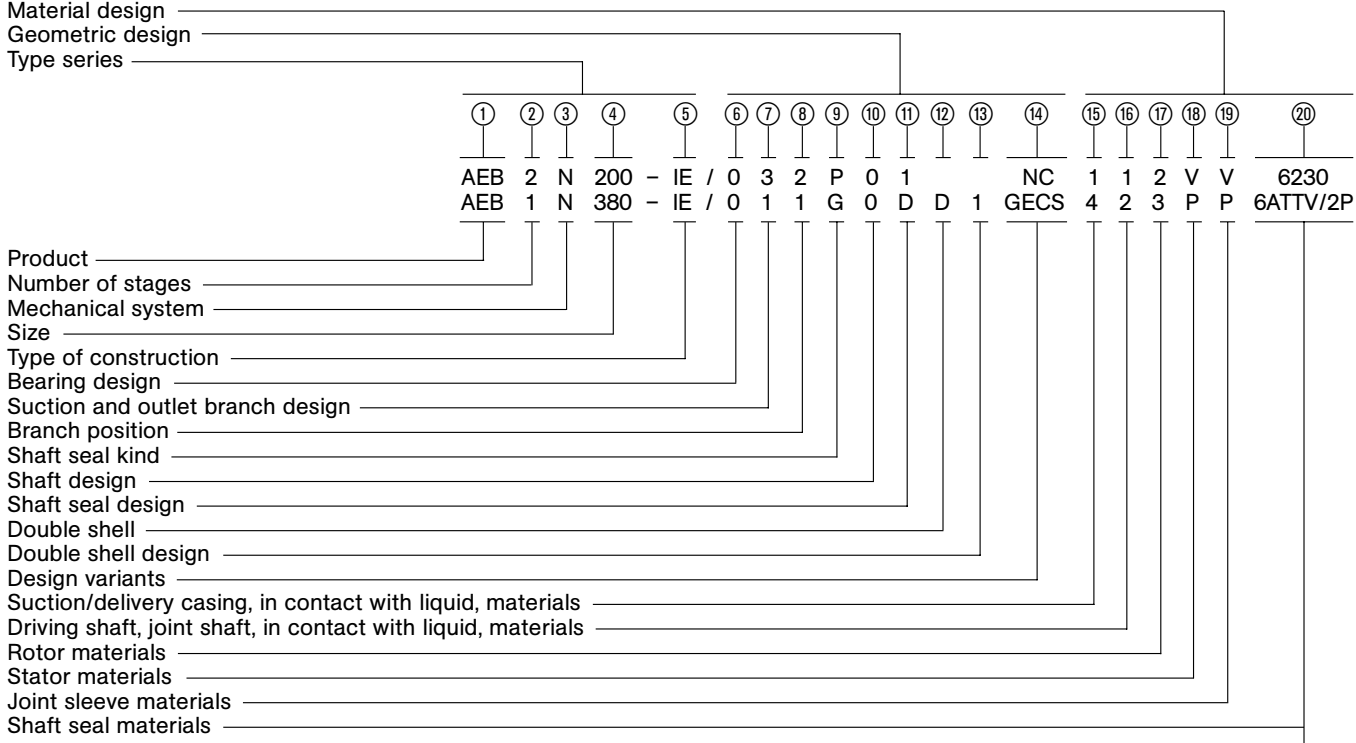
**Performance graph**

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 AEB1N, AEB2N. Data on the performance range not covered by AEB 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**

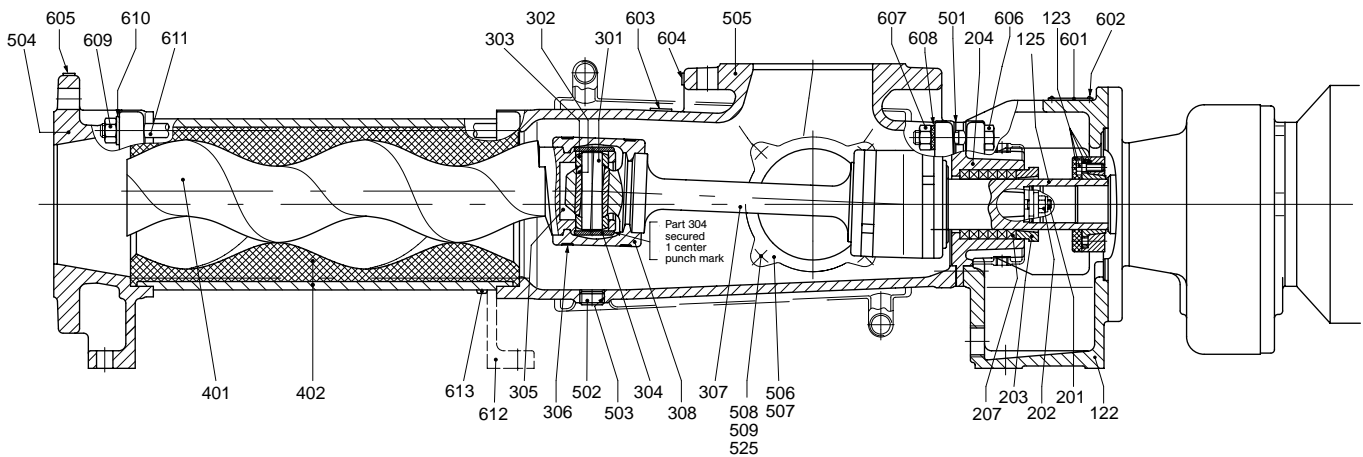


Explanations to the type code:

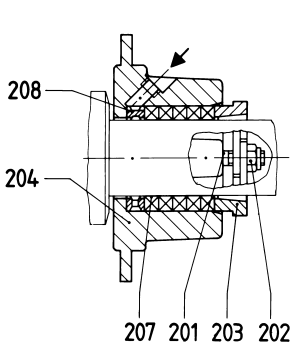
| Position in type code | Designation                      | Design   |
|-----------------------|----------------------------------|--|
| ①                     | Product                          | ALLWEILER eccentric screw pumps  |
| ②                     | Number of stages                 | 1 = single-stage up to delivery pressure $\Delta p$ 6 bar ( $\Delta p$ 12 bar for stators with even elastomer wall thickness), size 12 is only available as two-stage model<br>2 = two-stage up to $\Delta p = 12$ bar (sizes 550, 1000 only available as single-stage)  |
| ③                     | Mechanical system                | N = rated for delivery pressure $\Delta p$ 12 bar  |
| ④                     | Size                             | Possible sizes: 12, 25, 50, 100, 200, 380, 750, 1450.<br>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<br>3 = ANSI flanges<br>X = Suction and/or delivery branch of special design<br>} according to dimensional sheet, pages 9 and 10  |
| ⑧                     | Branch position                  | 1, 2, 3, 4 – For arrangement please refer to the representation, page 9.<br>Arrangement 3 is not possible for sizes 12, 25.  |
| ⑨                     | Shaft seal type                  | P = Stuffing box or other non-mechanical shaft seal<br>G = Mechanical seal (mechanical shaft seal)   |
| ⑩                     | Shaft design                     | 0 = Shaft without shaft sleeve   |
| ⑪                     | Shaft seal design                | Stuffing boxes<br>P01 = Stuffing box of normal design (without sealing chamber ring / without flushing ring)<br>P02 = Stuffing box with flushing ring<br>P03 = Stuffing box with internal sealing chamber ring<br>P04 = Stuffing box with external sealing chamber ring<br>POX = Non-mechanical shaft seal of special design |

|                               |  |  |   |  |  |   |  |     |      |
|-------------------------------|--|--|---|--|--|---|--|-----|------|
| ⑪                             | Shaft seal design (continued)<br>X = design possible               | Mechanical seals   |   |  |  |   |  |     |      |
|                               |  | for pump sizes   | 25  | 50   | 100  | 200   | 380  | 750 | 1450 |
|                               |  | Shaft diameter at the location of the shaft seal   | 25  | 30   | 35   | 43  | 53   | 60  | 75   |
|                               |  | GOK = individual mechanical seal, DIN 24 960, design K, shape U  | X   | X  | X  | X   | X  | X   | X    |
|                               |  | GON = as above, however design N   | X   | X  | X  | X   | X  | X   | X    |
|                               |  | GOS = 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    |
|                               |  | GOT = as above, however design N   | X   | X  | X  | X   | -  | X   | X    |
|                               |  | GOQ = individual mechanical seal, DIN 24 960, design K, shape U with quench  | X   | X  | X  | X   | X  | X   | X    |
|                               |  | GOD = double mechanical seal   | ①   | ①  | ①  | ①   | ①  | ①   | ①    |
|                               |  | GOX = 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<br>2 = Stuffing box for P01 with double shell<br>12 = Suction and shaft sealing housing P01 with double shell<br>X = Special design for other double shells   |   |  |  |   |  |     |      |
| ⑭                             | Design variants  | Stators with uneven elastomer wall thickness (all qualities)   |   |  | Stators with even elastomer wall thickness (all qualities) |   |  |     |      |
|                               |  | N<br>M<br>H<br>T   | Rotor with temperature play as a function of the temperature of the fluid pumped                            |  |  | D<br>E<br>F<br>R  | Rotor with temperature play as a function of the temperature of the fluid pumped |     |      |
|                               |  | C = Rotor hard chromium-plated<br>Y = Rotor ductile hard chromium-plated<br>Z = Rotor metallically coated<br>S = Worm on joint shaft   | W = Winding protection on joint shaft<br>G = Stator with even elastomer wall thickness<br>X = other designs |  |  |   |  |     |      |
| ⑮                             | Suction and delivery casing in contact with fluid, materials       | 1 = gray cast iron EN-GJL-250<br>3 = gray cast iron EN-GJL-250, inside H-rubberized<br>4 = 1.4408<br>A = 1.4462<br>X = Special materials   |   |  |  |   |  |     |      |
| ⑯                             | Driving shaft, joint shaft casing in contact with fluid, materials | 1 = 1.4021<br>2 = 1.4301/1.4571/1.4462<br>4 = 1.4571/1.4462<br>A = 1.4462<br>X = Special materials, i.e. also for articulated components   |   |  |  |   |  |     |      |
| ⑰                             | Rotor materials  | 2 = 1.4301<br>3 = 1.2436/1.2379  | 4 = 1.4571<br>X = Special materials, e.g. other metals, plastic materials                                   | A = 1.4462   |  |   |  |     |      |
| ⑱                             | Stator materials   | WB = Caoutchouc soft<br>P = Perbunan N<br>PL = Perbunan bright<br>N = Neoprene<br>Y = Hypalon  | YL = Hypalon bright<br>V = Viton<br>HP = Perbunan/hydro-genated<br>SL = Silicon bright<br>PU = Polyurethan  | PE = Polyethylene<br>PT = Teflon glass fiber reinforced<br>E = EPDM<br>X = Special materials |  |   |  |     |      |
| ⑲                             | Joint sleeve materials   | P = Perbunan N<br>PL = Perbunan bright<br>N = Neoprene   | Y = Hypalon<br>V = Viton<br>B = Butyl caoutchouc  | X = Special materials  |  |   |  |     |      |
| ⑳                             | Shaft seal materials   | Stuffing box:<br>5846 = Ramie fiber with PTFE impregnation, asbestos-free<br>6426 = Aramid endless fiber with PTFE impregnation, asbestos-free<br>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<br>1st + 4th point for double gasket   |   | 2nd point  |  | 3rd point for single gasket<br>3rd + 5th points for double gasket   |  |     |      |
|                               |  | 2 = CrMo cast iron/hard carbon<br>4 = Ceramics/hard carbon<br>5 = Hard metal/hard metal, highly wear-resistant<br>6 = Silicon carbide/silicon carbide highly wear-resistant, corrosion-resistant<br>7 = Silicon carbide/silicon carbide highly wear-resistant, highly corrosion-resistant<br>X = Special materials |   | A = 1.4300<br>F = 1.4571<br>L = Hastelloy B<br>M = Hastelloy C4<br>X = Special materials     |  | P = Perbunan<br>E = EP caoutchouc<br>S = Silicon caoutchouc<br>N = Neoprene<br>V = Viton<br>TTE = EP caoutchouc ①<br>TTV = Viton ①<br>TTS = Silicon caoutchouc ①<br>X = Special materials |  |     |      |

Sectional drawing and components list

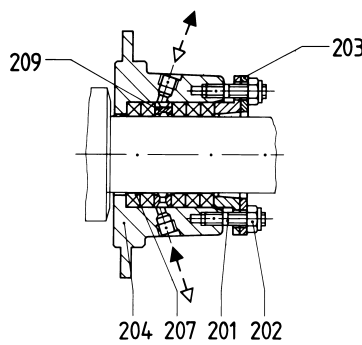


Bearing **0**: External bearing in drive unit  
 Shaft seal **P01**: Due to particularly great packing length, versatile,  
 admissible pressure at the shaft seal  $p = -0.7$  to 16 bar



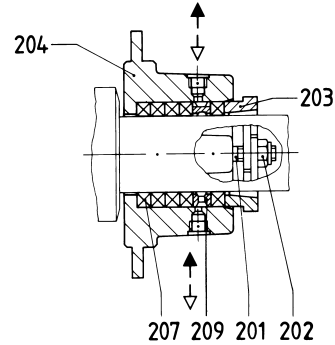
**P02** Stuffing box with flushing ring

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



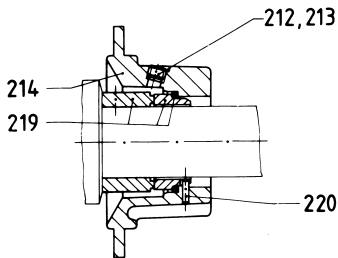
**P04** Stuffing box with internal sealing chamber ring

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 12 bar

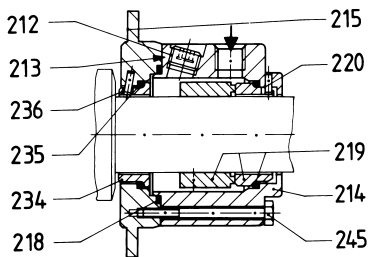
| Part No. | Name                  |
|----------|-----------------------|
| 122      | Bearing bracket       |
| 123      | Tensioning set        |
| 125      | Driving shaft         |
| 201      | Stud bolt             |
| 202      | Self-locking nut      |
| 203      | Gland half            |
| 204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

| Part No. | Name                    |
|----------|-------------------------|
| 214      | Mechanical seal housing |
| 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              |

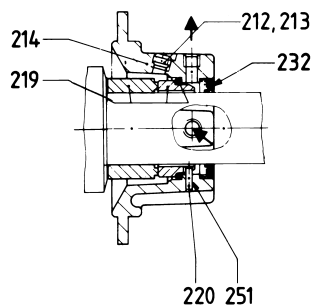
| Part No. | Name                        |
|----------|-----------------------------|
| 302      | Joint bush                  |
| 303      | Bush for joint bolt         |
| 304      | Joint sleeve                |
| 305      | Joint lubricant             |
| 306      | Joint clamp                 |
| 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   |



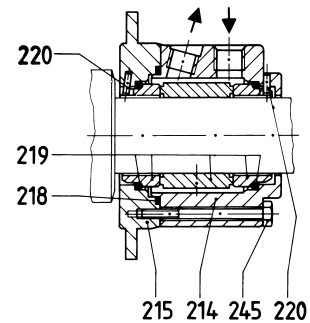
**GOK/GON** Single mechanical seal,  
DIN 24 960, K/N design, U shape.  
For employment, please inquire,  
 $p = -0.5$  to 16 bar



**GOS/GOT** 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



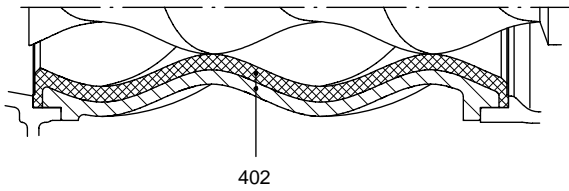
**GOQ** Single mechanical seal,  
DIN 24 960, K design, U shape  
with quench.  
For employment, please inquire,  
 $p = -0.5$  to 16 bar



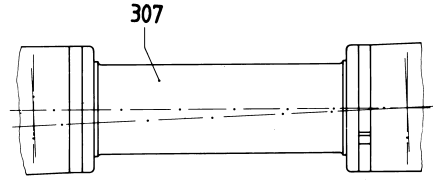
**GOD** Double mechanical seal  
with sealing liquid connection.  
For employment, please inquire,  
 $p = -0.95$  to 16 bar

| Part No. | Name                   |
|----------|------------------------|
| 502      | Screw plug             |
| 503      | Joint tape             |
| 504      | Delivery casing        |
| 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 |

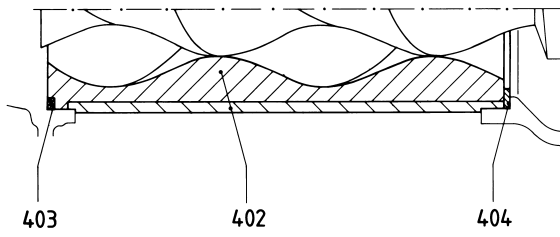
| Part No. | Name                               |
|----------|------------------------------------|
| 603      | Information plate<br>commissioning |
| 604      | Information plate suction          |
| 605      | Information plate pressure         |
| 606      | Hexagon screw                      |
| 607      | Hexagon nut                        |
| 608      | Fan-type lock washer               |
| 609      | Hexagon nut                        |
| 610      | Washer                             |
| 611      | Clamp bolt                         |
| 612      | Support                            |
| 613      | Hexagon screw                      |



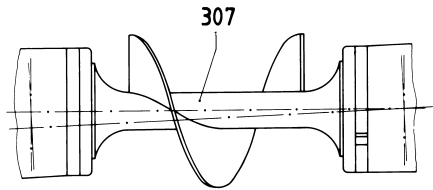
Stator with even wall thickness



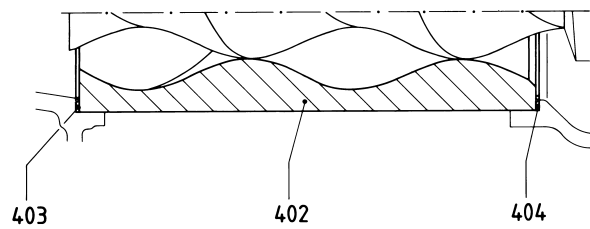
Winding protection on joint shaft



Plastic stator



Worm on joint shaft



Metal stator



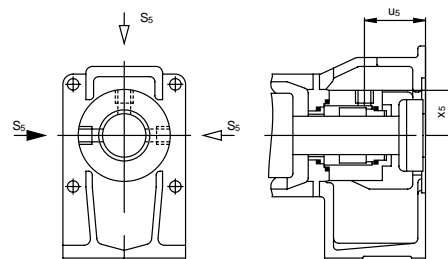
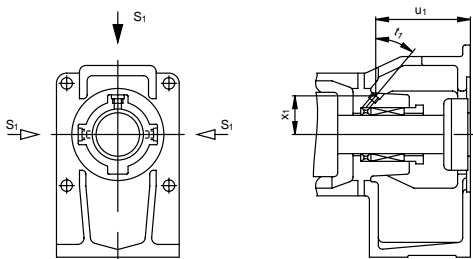


| Series Size                    | Connection dimensions for suction and outlet branch |                   |                 |              |     |     |                 |                                 |                 |              |     |     |                 |                                 |                 |              |    |     |  |
|--------------------------------|---|-------------------|-----------------|--------------|-----|-----|-----------------|---------------------------------|-----------------|--------------|-----|-----|-----------------|---------------------------------|-----------------|--------------|----|-----|--|
|                                | Flanges DIN 2501, PN 16 ⑤                           |                   |                 |              |     |     |                 | Flanges ANSI B16.1, Class 125 ④ |                 |              |     |     |                 | Flanges ANSI B16.5, Class 150 ④ |                 |              |    |     |  |
|                                | DN <sub>1</sub>                                     | ③ DN <sub>2</sub> | ③ k             | ③ p          | ③ w | g   | DN <sub>1</sub> | DN <sub>2</sub>                 | ③ k             | ③ p          | ③ w | ③ g | DN <sub>1</sub> | DN <sub>2</sub>                 | k               | p            | w  | g   |  |
| AEB1N 25-IE<br>AEB2N 25-IE     | 40  | 40                | 498<br>624      | 336<br>462   | 41  | 175 | 1 1/2           | 1 1/2                           | 495<br>621      | 333<br>459   | 38  | 172 | 1 1/2           | 1 1/2                           | 498<br>624      | 336<br>462   | 41 | 175 |  |
| AEB1N 50-IE<br>AEB2N 50-IE     | 50  | 50                | 587<br>747      | 402<br>562   | 43  | 190 | 2               | 2                               | 533<br>743      | 398<br>558   | 39  | 186 | 2               | 2                               | 587<br>747      | 402<br>562   | 43 | 190 |  |
| AEB1N 100-IE<br>AEB2N 100-IE   | 65  | 65                | 716<br>916      | 496<br>696   | 40  | 230 | 2 1/2           | 2 1/2                           | 715<br>915      | 495<br>695   | 39  | 229 | 2 1/2           | 2 1/2                           | 720<br>920      | 500<br>700   | 44 | 234 |  |
| AEB1N 200-IE<br>AEB2N 200-IE   | 80  | 80                | 839.5<br>1091.5 | 598<br>850   | 44  | 260 | 3               | 3                               | 837.5<br>1089.5 | 596<br>848   | 42  | 258 | 3               | 3                               | 842.5<br>1094.5 | 601<br>853   | 47 | 263 |  |
| AEB1N 380-IE<br>AEB2N 380-IE   | 100   | 100               | 996<br>1302     | 704<br>1010  | 41  | 300 | 4               | 4                               | 998<br>1304     | 706<br>1012  | 43  | 302 | 4               | 4                               | 998<br>1304     | 706<br>1012  | 43 | 302 |  |
| AEB1N 750-IE<br>AEB2N 750-IE   | 125   | 125               | 1209<br>1609    | 893<br>1293  | 44  | 350 | 5               | 5                               | 1209<br>1609    | 893<br>1293  | 44  | 350 | 5               | 5                               | 1209<br>1609    | 893<br>1293  | 44 | 350 |  |
| AEB1N 1450-IE<br>AEB2N 1450-IE | 150   | 150               | 1485<br>1990    | 1102<br>1607 | 53  | 425 | 6               | 6                               | 1485<br>1990    | 1102<br>1607 | 53  | 425 | 6               | 6                               | 1485<br>1990    | 1102<br>1607 | 53 | 425 |  |

③ for rubber-coating + 3 mm  
④ Sealing surface: stock finish

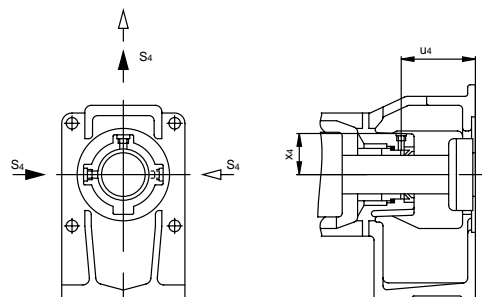
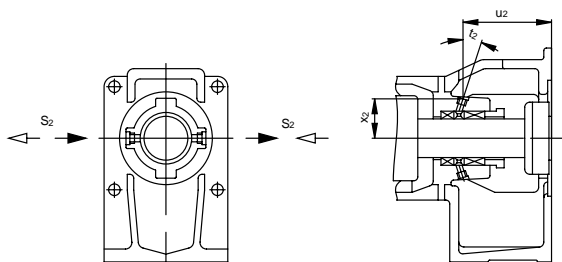
⑤ up to DN 100 sealing surface DIN 2526 shape C, machined as shape A  
from DN 125 sealing surface DIN 2526 shape A

**Arrangement of auxiliary connections for shaft seals**



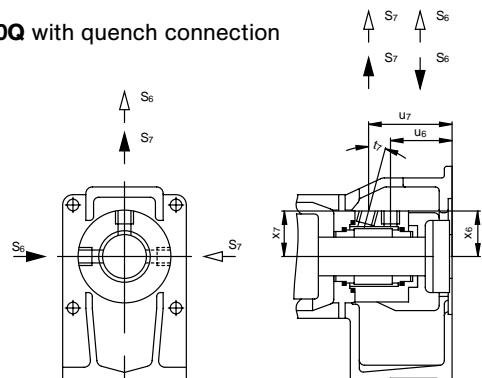
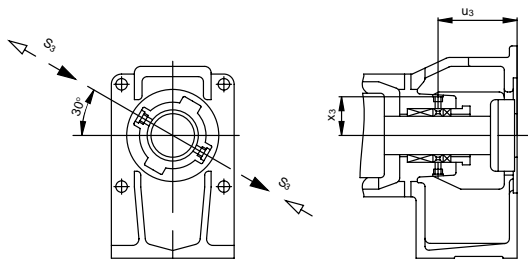
**P02 with flushing rod**

**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**

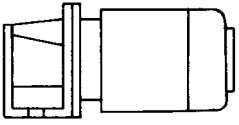
| Series<br>Size | Connection dimensions for auxiliary connections for shaft seals |                |                |                |  |                |                |                |  |                |                |
|----------------|---|----------------|----------------|----------------|--|----------------|----------------|----------------|--|----------------|----------------|
|                | PO2 with flushing ring  |                |                |                | PO3 with internal sealing chamber ring |                |                |                | PO4 with external sealing chamber ring |                |                |
|                | S <sub>1</sub> ⑥  | u <sub>1</sub> | x <sub>1</sub> | t <sub>1</sub> | S <sub>2</sub> ⑥                       | u <sub>2</sub> | x <sub>2</sub> | t <sub>2</sub> | S <sub>3</sub> ⑥                       | u <sub>3</sub> | x <sub>3</sub> |
| AEB.N 25-IE    | M 8 x 1   | 84             | 28             | 42°            | M 8 x 1                                | 77             | 30             | 20°            | M 8 x 1                                | 69             | 30.5           |
| AEB.N 50-IE    | M 8 x 1   | 93             | 31.5           | 40°            | M 8 x 1                                | 87             | 32             | 20°            | M 8 x 1                                | 78.5           | 33.5           |
| AEB.N 100-IE   | Rp 1/8  | 104.5          | 38             | 42°            | Rp 1/8                                 | 97             | 40             | 17°            | Rp 1/8                                 | 85             | 39.5           |
| AEB.N 200-IE   | Rp 1/8  | 109.5          | 42             | 42°            | Rp 1/8                                 | 102            | 44             | 17°            | Rp 1/8                                 | 91.5           | 43.5           |
| AEB.N 380-IE   | Rp 1/8  | 128.5          | 52             | 42°            | Rp 1/8                                 | 119.5          | 54             | 17°            | Rp 1/8                                 | 105            | 54.5           |
| AEB.N 750-IE   | Rp 1/8  | 133            | 56             | 35°            | Rp 1/8                                 | 122.5          | 57             | 13°            | Rp 1/8                                 | 106            | 58             |
| AEB.N 1450-IE  | Rp 1/4  | 155            | 67             | 35°            | Rp 1/4                                 | 142            | 68.5           | 13°            | Rp 1/4                                 | 122            | 69.5           |

| Series<br>Size | Connection dimensions for auxiliary connections for shaft seals |                |                |                            |                |                |                             |                  |                |                |                |                |                |
|----------------|---|----------------|----------------|----------------------------|----------------|----------------|-----------------------------|------------------|----------------|----------------|----------------|----------------|----------------|
|                | GOS/GOT with flushing connection                                |                |                | GOQ with quench connection |                |                | GOD with sealing connection |                  |                |                |                |                |                |
|                | S <sub>5</sub> ⑥  | u <sub>5</sub> | x <sub>5</sub> | S <sub>4</sub> ⑥           | u <sub>4</sub> | x <sub>4</sub> | S <sub>6</sub> ⑥            | S <sub>7</sub> ⑥ | u <sub>6</sub> | u <sub>7</sub> | x <sub>6</sub> | x <sub>7</sub> | t <sub>7</sub> |
| AEB.N 25-IE    | Rp 1/4  | 46.5           | 34             | Rp 1/8                     | 56             | 30.5           | Rp 1/4                      | Rp 1/4           | 46.5           | 71.5           | 34             | 33             | 15°            |
| AEB.N 50-IE    | Rp 1/4  | 55             | 38             | Rp 1/8                     | 63.5           | 30.5           | Rp 1/4                      | Rp 1/4           | 55             | 79             | 38             | 36.5           | 15°            |
| AEB.N 100-IE   | Rp 1/4  | 69.5           | 41.5           | Rp 1/8                     | 74             | 33.5           | Rp 1/4                      | Rp 1/4           | 69.5           | 95             | 41.5           | 40             | 15°            |
| AEB.N 200-IE   | Rp 3/8  | 71.5           | 48.5           | Rp 1/8                     | 79             | 41             | Rp 3/8                      | Rp 3/8           | 71.5           | 96.5           | 48.5           | 47             | 15°            |
| AEB.N 380-IE   | Rp 3/8  | 92.5           | 56             | Rp 1/8                     | 99.5           | 54             | Rp 3/8                      | Rp 3/8           | 92.5           | 118            | 56             | 53.5           | 20°            |
| AEB.N 750-IE   | Rp 3/8  | 80.5           | 61             | Rp 1/8                     | 99             | 57.5           | Rp 3/8                      | Rp 3/8           | 80.5           | 121            | 61             | 58.5           | 20°            |
| AEB.N 1450-IE  | Rp 3/8  | 103            | 71.5           | Rp 1/4                     | 106.5          | 68.5           | Rp 3/8                      | Rp 3/8           | 103            | 145            | 71.5           | 69             | 22°            |

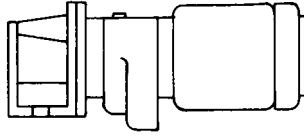
⑥ Threaded connection DIN 3852, shape Z

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

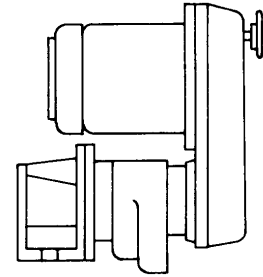
**Drive options**



AEB-IE with electric motor



AEB-IE with gear motor



AEB-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 <sup>3</sup> /h                    | l/min |                           |                         |
|                                | AE.E-ID    | 1,2              | 450                                  | 7500  | 10                        | 300.000                 |
|                                | AE.N-ID    | 1,2              | 290                                  | 4850  | 12                        | 270.000                 |
|                                | AEB.E-IE   | 1,2              | 174                                  | 2900  | 6                         | 300.000                 |
|                                | AEB.N-IE   | 1,2              | 111                                  | 1850  | 12                        | 270.000                 |
|                                | AED.E-ID   | 1                | 720                                  | 12000 | 8                         | 250.000                 |
|                                | AED.N-ID   | 2                | 450                                  | 7500  | 16                        | 225.000                 |
|                                | AEDB.E-IE  | 1                | 258                                  | 4300  | 6                         | 250.000                 |
|                                | AEDB.N-IE  | 2                | 174                                  | 2900  | 12                        | 225.000                 |
|                                | AE.N...-RG | 1,2,4            | 30                                   | 500   | 20                        | 1.000.000               |
|                                | TECFLOW    | 1                | 186                                  | 3100  | 4                         | 200.000                 |
|                                | SEZP       | 1,2              | 21                                   | 250   | 10                        | 1.000.000               |
|                                | SHP        | 2,4              | 110                                  | 1830  | 24                        | 270.000                 |
|                                | 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 <sup>3</sup> /h | l/min |                           |                         |
|                   | ASL    | 2,4               | 40    | 4                         | 100.000                 |
|                   | ASH    | 60                | 1000  | 15                        | 100.000                 |

| Macerator range | Series      | Maximum throughput | Generated delivery head |
|-----------------|-------------|--------------------|-------------------------|
|                 |             | m <sup>3</sup> /h  | m                       |
|                 | AM ... S-1  | 80 at 3 % solids   | 3                       |
|                 | 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 COLFAX PUMP GROUP

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