

# Eccentric Screw Pumps in Block-Design

## Series AEB4H 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, four-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 prevents 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 50 is supplied in cast iron and is provided with staggered holes for cleaning. The stator vulcanized into a tube is provided with external collars vulcanized to it on both sides, reliably sealing towards the suction 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 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.

|                             |            |         |       | AEB4H   |
|-----------------------------|------------|---------|-------|---------|
| Delivery                    | Q          | l/min   | up to | 200     |
| Temperature of fluid pumped | t          | °C ①    | up to | 100     |
| Delivery pressure           | $\Delta p$ | bar     | up to | 24      |
| Pump outlet pressure        | $p_d$      | bar ③   | up to | 25      |
| Attainable underpressure    | $p_s$      | bar ②   | up to | 0,95    |
| Viscosity                   | $\eta$     | mPa·s ② | up to | 270.000 |
| Admissible solids content   | Vol%       | ②       | up 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 length

| Size                 | 12 | 25  | 50 |
|----------------------|----|-----|----|
| max. grain size mm   | 2  | 2,5 | 3  |
| max. fiber length mm | 35 | 42  | 42 |

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

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

### Bearings

The driving/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 facilitates a later change to a different drive type or size.**

**Installation**

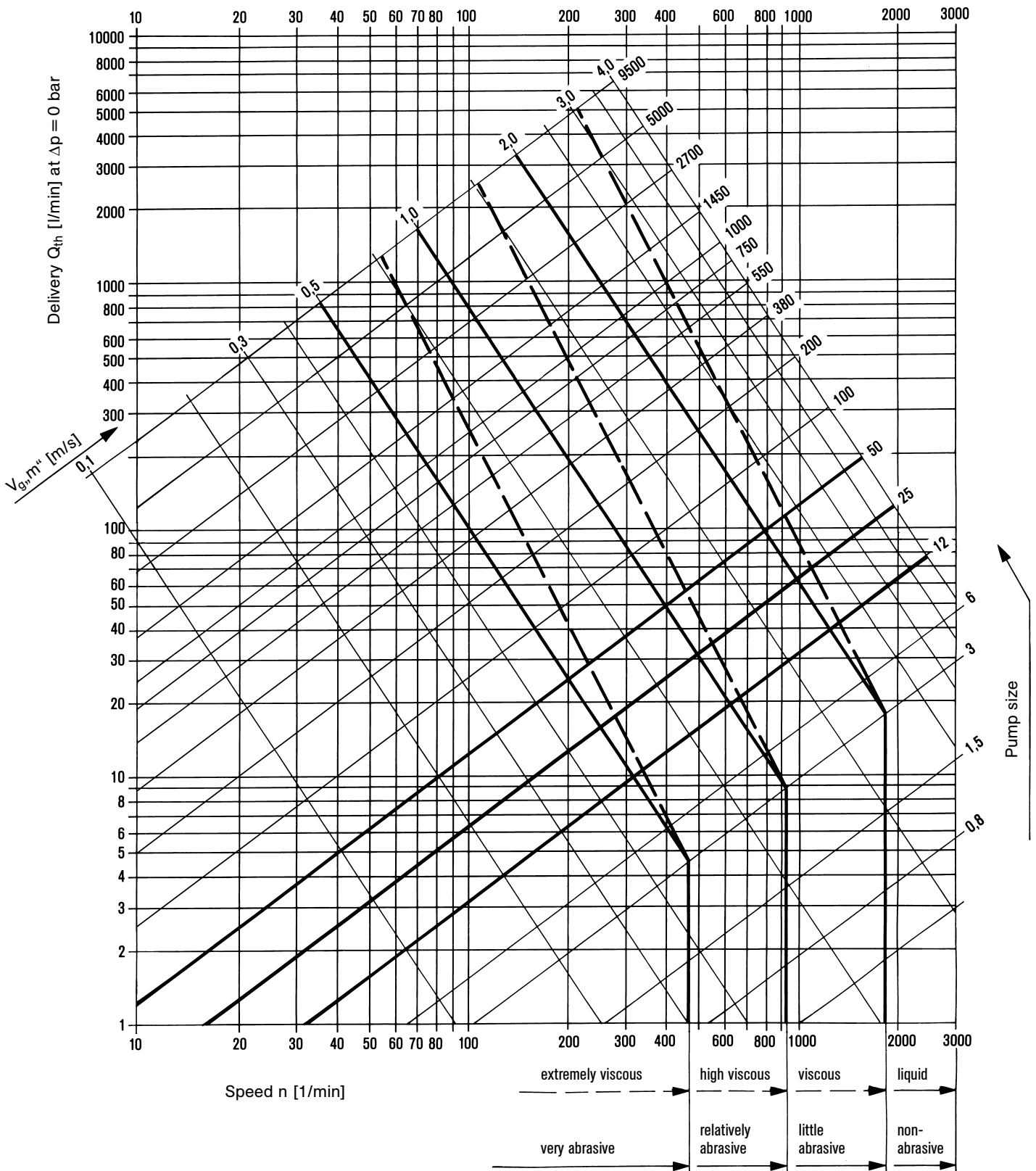
AE pumps may be installed horizontally or vertically. In case of vertical arrangement, "shaft shank downwards" is not admissible.

**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.

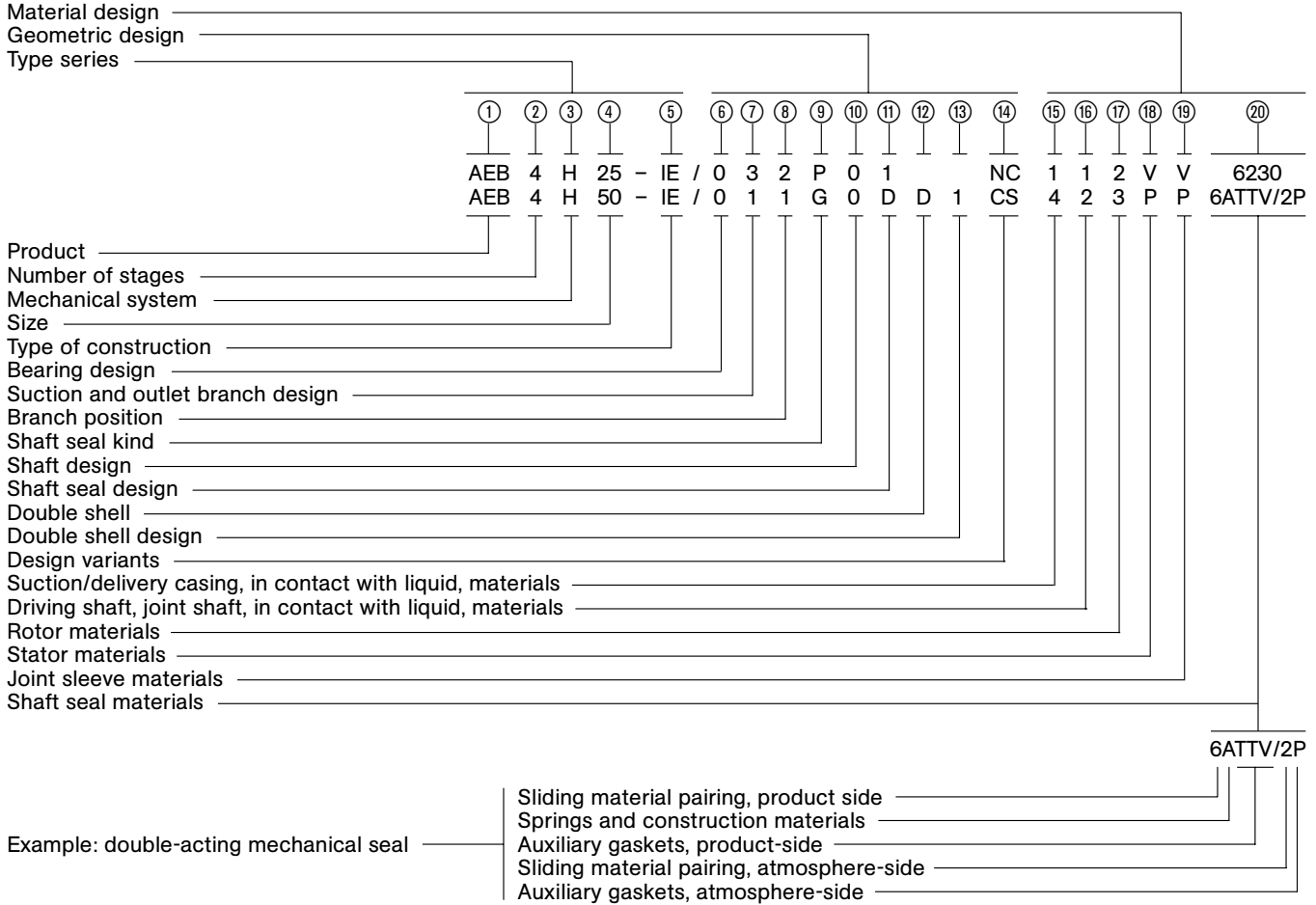
**Performance graph**

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 AEB4H. 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**

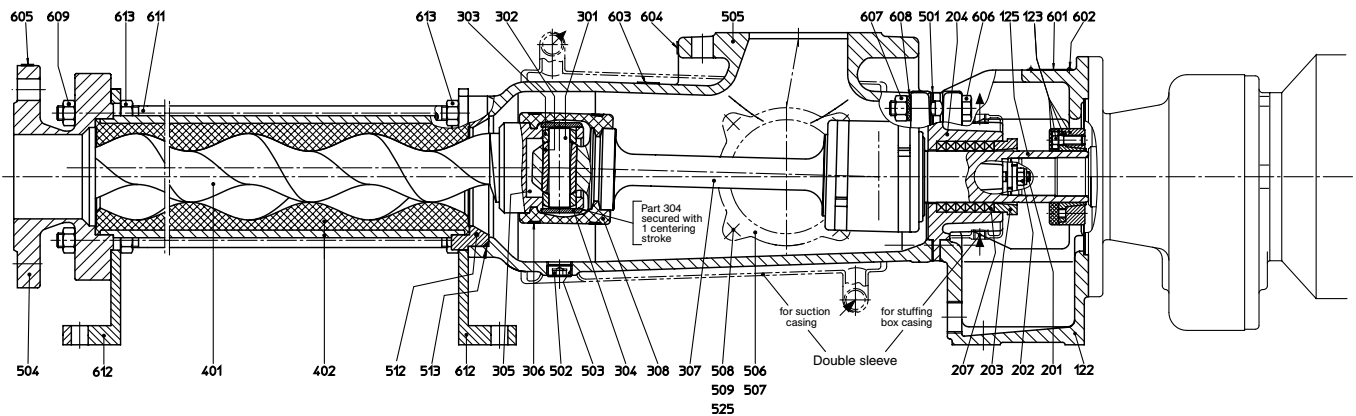


**Explanations to the type code:**

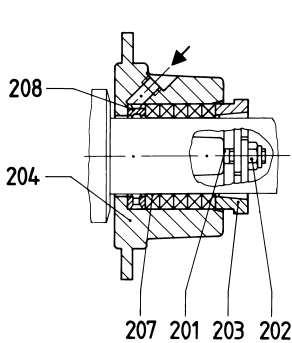
| Position in type code | Designation                      | Design   |
|-----------------------|----------------------------------|--|
| ①                     | Product                          | ALLWEILER eccentric screw pumps  |
| ②                     | Number of stages                 | 4 = four-stage up to delivery pressure $\Delta p$ 24 bar   |
| ③                     | Mechanical system                | H = rated for delivery pressure $\Delta p$ 24 bar  |
| ④                     | Size                             | Possible sizes: 12, 25, 50.<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 size 12.   |
| 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   | 12  | 25  | 50 |
|                               |  | Shaft diameter at the location of the shaft seal   | 25  | 30  | 35 |
|                               |  | GOK = individual mechanical seal, DIN 24 960, design K, shape U  | X   | X   | X  |
|                               |  | GON = as above, however design N   | 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  |
|                               |  | GOT = as above, however design N   | X   | X   | X  |
|                               |  | GOQ = individual mechanical seal, DIN 24 960, design K, shape U with quench  | X   | X   | X  |
|                               |  | GOD = double mechanical seal   | 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)   |   |   |    |
|                               |  | N<br>M<br>H<br>T   | 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>X = other designs  |   |    |
| ⑮                             | Suction and delivery casing in contact with fluid, materials       | 1 = grey cast iron EN-GJL-250/St<br>3 = grey cast iron EN-GJL-250/inside H-rubberized<br>4 = 1.4408/1.4571<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, e.g. 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 = Natural rubber soft<br>P = Perbunan N<br>PL = Perbunan bright<br>N = Neoprene<br>Y = Hypalon  | YL = Hypalon bright<br>V = Viton<br>HP = Perbunan/hydrogenated<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 rubber  | 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 gaskets<br>1st + 4th points 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 rubber<br>S = Silicon rubber<br>N = Neoprene<br>V = Viton<br>TTE = EP rubber ①<br>TTV = Viton ①<br>TTS = Silicon rubber ①<br>X = Special materials |    |

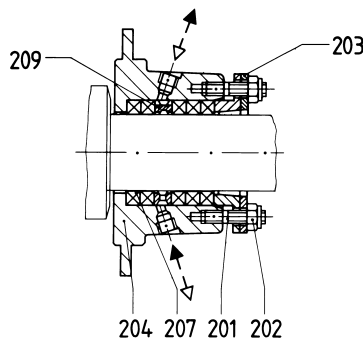
Sectional drawing and components list



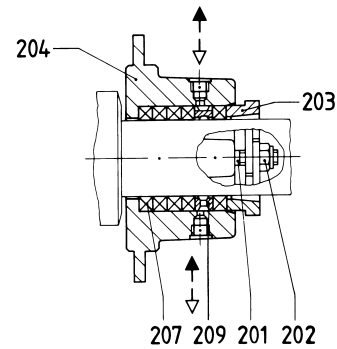
Bearing **0**: External bearing in drive unit  
 Shaft seal **P01**: Due to particularly great packing length, versatile admissible pressure at the shaft seal  $p = -0.7$  to 16 bar.



**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 bar

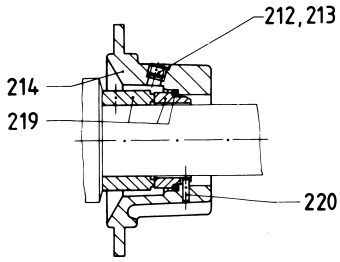


**P04** Stuffing box with internal sealing chamber ring  
 To be employed in case of incompatibility of the external sealing liquid with the fluid pumped or if air inlet is to be avoided  
 $p = -0.9$  to 12 bar

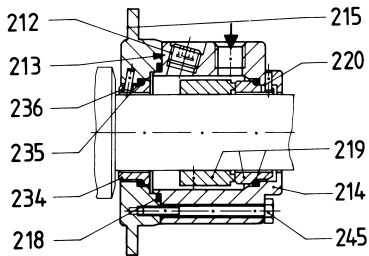
| Part No. | Denomination          |
|----------|-----------------------|
| 122      | Bearing bracket       |
| 123      | Tensioning set        |
| 125      | Driving shaft         |
| 201      | Stud bolt             |
| 202      | Self-locking nut      |
| 203      | Gland half            |
| 204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

| Part No. | Denomination            |
|----------|-------------------------|
| 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              |

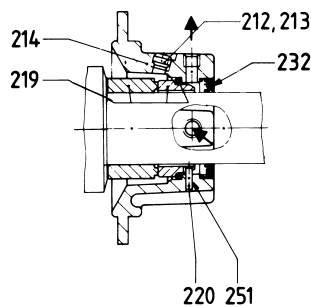
| Part No. | Denomination                |
|----------|-----------------------------|
| 302      | Joint bush                  |
| 303      | Bush for joint bolt         |
| 304      | Joint sleeve                |
| 305      | Joint lubricant             |
| 306      | Joint clamp                 |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



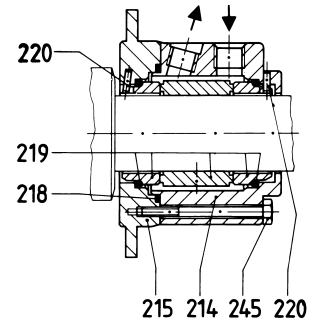
**GOK/GON** Single mechanical seal,  
DIN 24 960, K/N design, U shape.  
For employment, please inquire  
 $p = -0.5$  to 16 bar



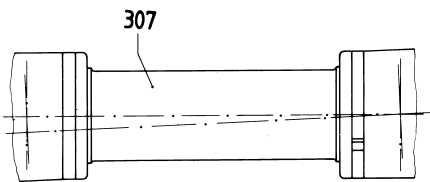
**GOS/GOT** Single mechanical seal,  
DIN 24 960, K/N design, U shape.  
Integrated locking device  
with flushing liquid connection and  
pump-side throttling ring.  
For employment, please inquire,  
 $p = -0.5$  to 16 bar



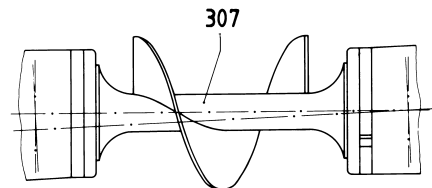
**GOQ** Single mechanical seal,  
DIN 24 960, K design, U shape,  
with quench.  
For employment, please inquire,  
 $p = -0.5$  to 16 bar



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



Winding protection on joint shaft

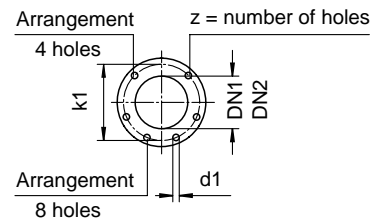
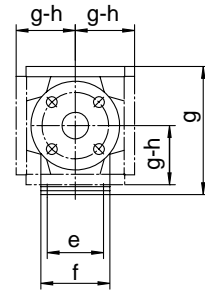
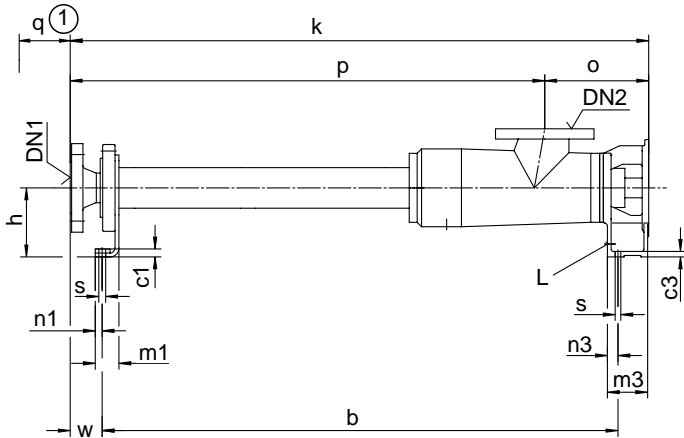


Worm on joint shaft

| Part No. | Denomination         |
|----------|----------------------|
| 502      | Screw plug           |
| 503      | Joint tape           |
| 504      | Delivery casing      |
| 505      | Suction casing       |
| 506      | Suction casing cover |
| 507      | Gasket               |
| 508      | Stud bolt            |
| 509      | Hexagon nut          |
| 512      | Reduction flange     |
| 513      | O-Ring               |
| 525      | Washer               |
| 601      | Type plate           |

| Part No. | Denomination                       |
|----------|------------------------------------|
| 602      | Round head grooved pin             |
| 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                        |
| 611      | Clamp bolt                         |
| 612      | Support                            |
| 613      | Hexagon screw                      |

**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: counter-clockwise as seen from driving side with DN<sub>1</sub> = outlet branch, DN<sub>2</sub> = suction branch

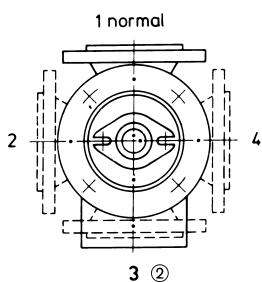
| Series Size | Pump dimensions |                |                |     |     |     |                |                |                |                |     |     |      |        | Max. mass kg |
|-------------|-----------------|----------------|----------------|-----|-----|-----|----------------|----------------|----------------|----------------|-----|-----|------|--------|--------------|
|             | b               | c <sub>1</sub> | c <sub>3</sub> | e   | f   | h   | m <sub>1</sub> | m <sub>3</sub> | n <sub>1</sub> | n <sub>3</sub> | o   | ① q | s    | L      |              |
| AEB4H 12-IE | 668             | 8              | 10             | 75  | 95  | 90  | 42             | 84             | 11             | 19             | 162 | 360 | 9    | Rp 3/8 |              |
| AEB4H 25-IE | 814             | 8              | 10             | 85  | 105 | 100 | 42             | 93             | 11             | 19             | 185 | 465 | 9    | Rp 3/8 |              |
| AEB4H 50-IE | 1032            | 13             | 13             | 100 | 125 | 125 | 48             | 106            | 13             | 25             | 220 | 605 | 11,5 | Rp 1/2 |              |

| Series Size | Connection dimensions/Flange dimensions for outlet branch |                |      |                |     |     |   |                                    |                |        |                |       |      |   |  |
|-------------|---|----------------|------|----------------|-----|-----|---|------------------------------------|----------------|--------|----------------|-------|------|---|--|
|             | Flanges DIN 2501, PN 25 ③                                 |                |      |                |     |     |   | Flanges ANSI B16.5 RF, Class 300 ④ |                |        |                |       |      |   |  |
|             | DN <sub>1</sub>   | d <sub>1</sub> | ⑤ k  | k <sub>1</sub> | ⑤ p | ⑤ w | z | DN <sub>1</sub>                    | d <sub>1</sub> | ⑤ k    | k <sub>1</sub> | ⑤ p   | ⑤ w  | z |  |
| AEB4H 12-IE | 32  | 18             | 775  | 100            | 613 | 39  | 4 | 1 1/4                              | 19             | 797    | 98,4           | 635   | 61   | 4 |  |
| AEB4H 25-IE | 40  | 18             | 938  | 110            | 753 | 47  | 4 | 1 1/2                              | 22,2           | 960    | 114,3          | 775   | 69   | 4 |  |
| AEB4H 50-IE | 50  | 18             | 1164 | 125            | 944 | 48  | 4 | 2                                  | 19             | 1185,5 | 127            | 965,5 | 69,5 | 8 |  |

| Series Size | Connection dimensions/Flange dimensions for suction branch |                |     |                |   |                                 |                |     |                |   |                                 |                |     |                |   |
|-------------|--|----------------|-----|----------------|---|---------------------------------|----------------|-----|----------------|---|---------------------------------|----------------|-----|----------------|---|
|             | Flanges DIN 2501, PN 16 ⑥                                  |                |     |                |   | Flanges ANSI B16.1, Class 125 ④ |                |     |                |   | Flanges ANSI B16.5, Class 150 ④ |                |     |                |   |
|             | DN <sub>2</sub>  | d <sub>1</sub> | ⑤ g | k <sub>1</sub> | z | DN <sub>2</sub>                 | d <sub>1</sub> | ⑤ g | k <sub>1</sub> | z | DN <sub>2</sub>                 | d <sub>1</sub> | ⑤ g | k <sub>1</sub> | z |
| AEB4H 12-IE | 40   | 18             | 175 | 110            | 4 | 1 1/2                           | 15,9           | 172 | 98,4           | 4 | 1 1/2                           | 15,9           | 175 | 98,4           | 4 |
| AEB4H 25-IE | 50   | 18             | 190 | 125            | 4 | 2                               | 19             | 186 | 120,6          | 4 | 2                               | 19             | 190 | 120,6          | 4 |
| AEB4H 50-IE | 65   | 18             | 230 | 145            | 4 | 2 1/2                           | 19             | 229 | 139,7          | 4 | 2 1/2                           | 19             | 234 | 139,7          | 4 |

- ① Stator dismantling dimension
- ③ Sealing surface DIN 2526 shape C
- ④ Sealing surface: stock finish
- ⑤ for rubber-coating + 3 mm
- ⑥ up to DN 100 sealing surface DIN 2526 shape C, machined as shape A from DN 125 sealing surface DIN 2526 shape A

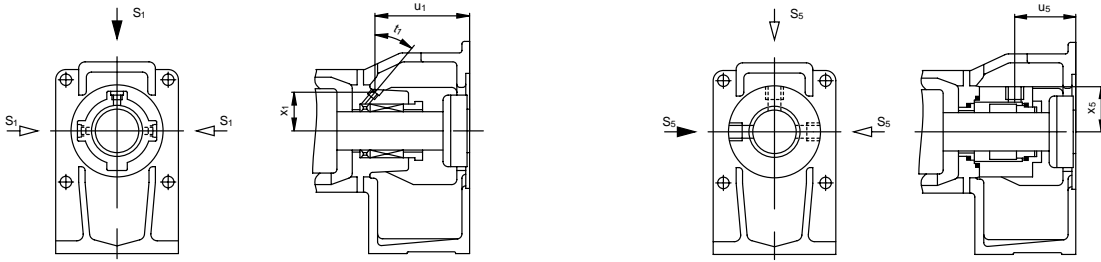
**Possible branch positions as seen from the drive**



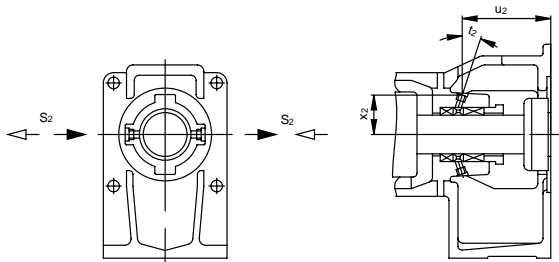
② not for size 12



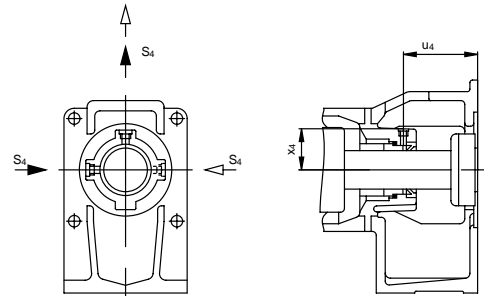
Arrangement of auxiliary connections for shaft seals



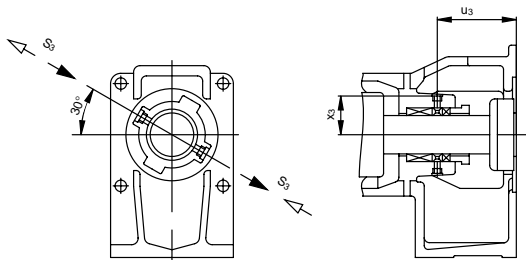
P02 with flushing rod



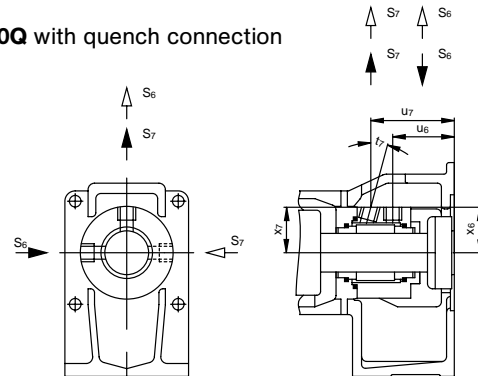
G0S/G0T with flushing connection



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 rod   |                |                |                | P03 with internal sealing chamber ring  |                |                |                | P04 with external sealing chamber ring  |                |                |
|             | S <sub>1</sub> $\text{\textcircled{Z}}$                         | u <sub>1</sub> | x <sub>1</sub> | t <sub>1</sub> | S <sub>2</sub> $\text{\textcircled{Z}}$ | u <sub>2</sub> | x <sub>2</sub> | t <sub>2</sub> | S <sub>3</sub> $\text{\textcircled{Z}}$ | u <sub>3</sub> | x <sub>3</sub> |
| AEB4H 12-IE | M 8 x 1   | 84             | 28             | 42°            | M 8 x 1                                 | 77             | 30             | 20°            | M 8 x 1                                 | 69             | 30,5           |
| AEB4H 25-IE | M 8 x 1   | 93             | 31,5           | 40°            | M 8 x 1                                 | 87             | 32             | 20°            | M 8 x 1                                 | 78,5           | 33,5           |
| AEB4H 50-IE | Rp 1/8  | 104,5          | 38             | 42°            | Rp 1/8                                  | 97             | 40             | 17°            | Rp 1/8                                  | 85             | 39,5           |

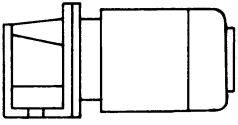
| Series Size | Connection dimensions for auxiliary connections for shaft seals |                |                |   |                |                |   |   |                |                |                |                |                |
|-------------|---|----------------|----------------|---|----------------|----------------|---|---|----------------|----------------|----------------|----------------|----------------|
|             | G0S/G0T with flushing connection                                |                |                | G0Q with quench connection              |                |                | G0D with sealing connection             |   |                |                |                |                |                |
|             | S <sub>5</sub> $\text{\textcircled{Z}}$                         | u <sub>5</sub> | x <sub>5</sub> | S <sub>4</sub> $\text{\textcircled{Z}}$ | u <sub>4</sub> | x <sub>4</sub> | S <sub>6</sub> $\text{\textcircled{Z}}$ | S <sub>7</sub> $\text{\textcircled{Z}}$ | u <sub>6</sub> | u <sub>7</sub> | x <sub>6</sub> | x <sub>7</sub> | t <sub>7</sub> |
| AEB4H 12-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°            |
| AEB4H 25-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°            |
| AEB4H 50-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°            |

$\text{\textcircled{Z}}$  Threaded connection DIN 3852, shape Z

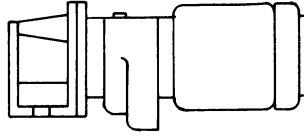
► Standard supply

▷ Possible supply, for these purposes, the sealing housing must be turned in case of designs P02, G0S, G0T, G0Q, G0D.

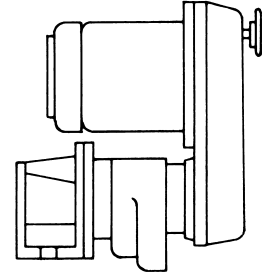
**Driving possibilities**



AEB4H-IE with electric motor



AEB4H-IE with gear motor



AEB4H-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  | 16                        | 270.000                 |
|                                | AE.H-ID    | 2,4              | 174                                  | 2900  | 24                        | 270.000                 |
|                                | 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                 |
|                                | 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                                   | 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 <sup>3</sup> /h | l/min |                           |                         |
|                   | ASL    | 2,4               | 40    | 4                         | 100.000                 |
|                   | ASH    | 60                | 1000  | 15                        | 100.000                 |

| Macerator range | Series      | Maximum throughput m <sup>3</sup> /h | Generated delivery head |
|-----------------|-------------|--------------------------------------|-------------------------|
|                 |             |                                      | 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.



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