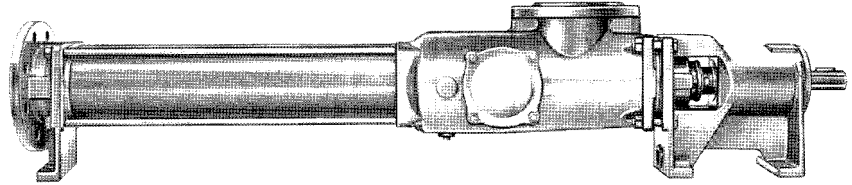


Eccentric Screw Pumps

Series AE1N, AE2N Design ID



Application

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

Function

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.

Structural design

By external casing connecting screws (clamping screws), the pressure casing, stator and suction casing are interconnected. The suction casings are designed particularly favourable to flow. The pump sizes 100 to 5000 in cast iron design 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 for all sizes,
two-stage not for size 5000

with even wall thickness:
single-stage not for sizes 25, 50
two-stage only for sizes 100, 200, 380, 750, 1450

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 The sealing housings (shaft seals) are easily accessible as the complete bearing unit can be withdrawn from the driving shaft without any further pump dismounting.

Bearing of the driving spindle is effected in the 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 designed particularly simple and sturdy properly taking 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 data, 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.

				AE1N	AE2N
Delivery	Q	l/min	up to	4800	2900
Temperature of fluid pumped	t	°C	up to	150	
Delivery pressure					
single-stage	Δp	bar	up to	6 ②	—
two-stage	Δp	bar	up to	—	12 (16 ⑥)
Pump outlet pressure	p _d	bar	up to	16	16 (25 ⑥)
Attainable underpressure	p _s	bar	up to		0,95
Viscosity	η	mPa·s	up to	270.000	
Admissible solids content	Vol% ⑤		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 fibre lengths

Size	25	50	100	200	380
max. grain size mm	2,5	3	3,8	5	6,8
max. fibre length mm	42	42	48	60	79

Size	750	1450	2700	5000
max. grain size mm	9,5	14	20	25
max. fibre length mm	98	130	210	250

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 upon the pump size/design, speed, fluid to be pumped.
- ④ depending on direction of rotation, inlet pressure.
- ⑤ 16 bar for stator with even elastomer wall thickness – up to 24 bar please consult the manufacturer.
- ⑥ for sizes 100, 200, 380, 750, 1450 possible.
- ⑦ 12 bar for shaft with shaft sleeve.

Drive

Driving possibilities see page 12.

Drives of any manufacturers can be employed. For the technical data and dimensions, please refer to the documents of the manufacturers.

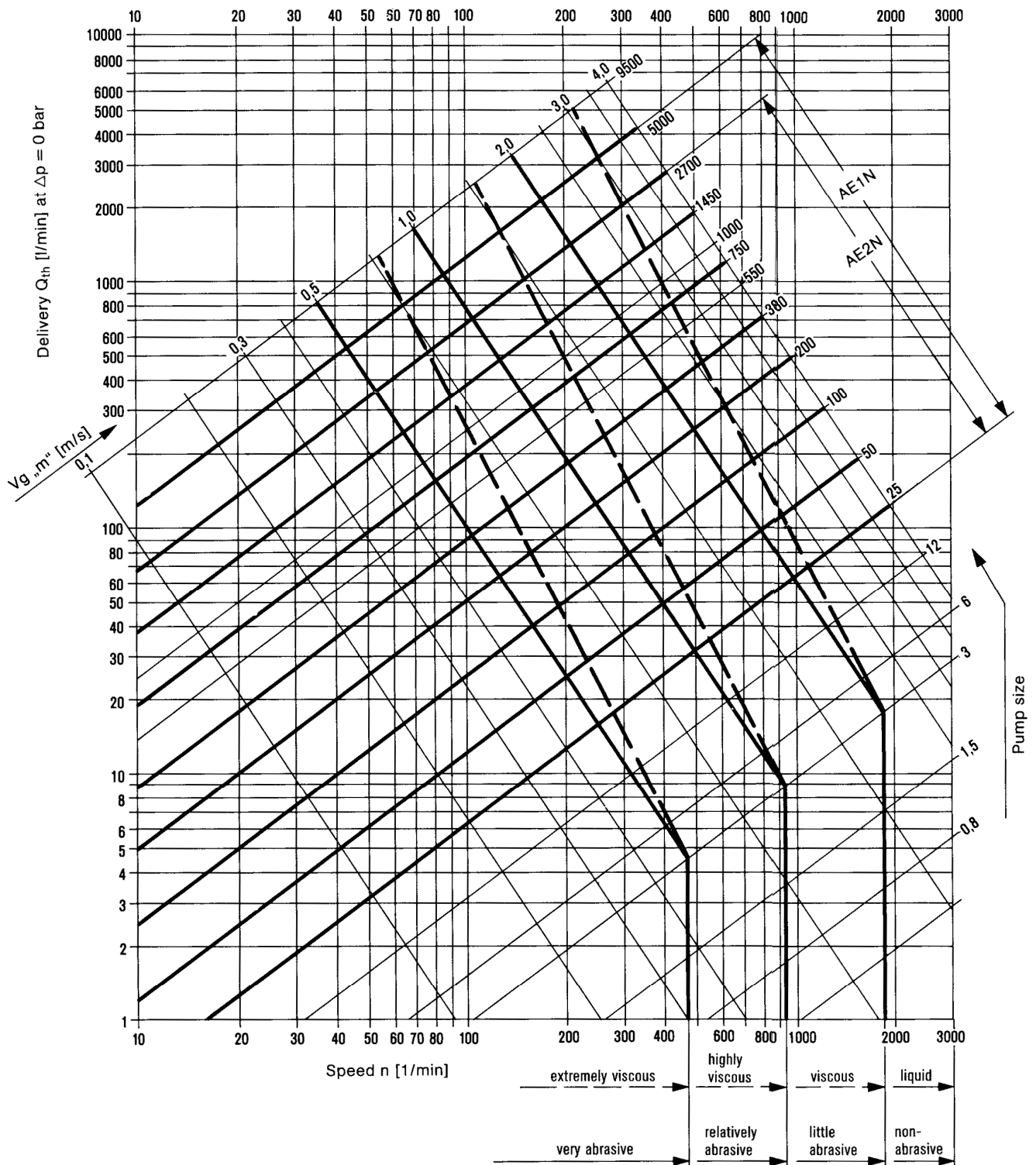
Installation

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

By means of a flexible coupling or via a gear (as a rule, V-belt drive), the pump and drive are connected with one another and mounted on a common base plate. For aggregate dimensions, please inquire.

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 series AE1N, AE2N. Data on the performance range not covered by AE series are to be taken from the rear side of this brochure and/or the individual brochures of the other series.

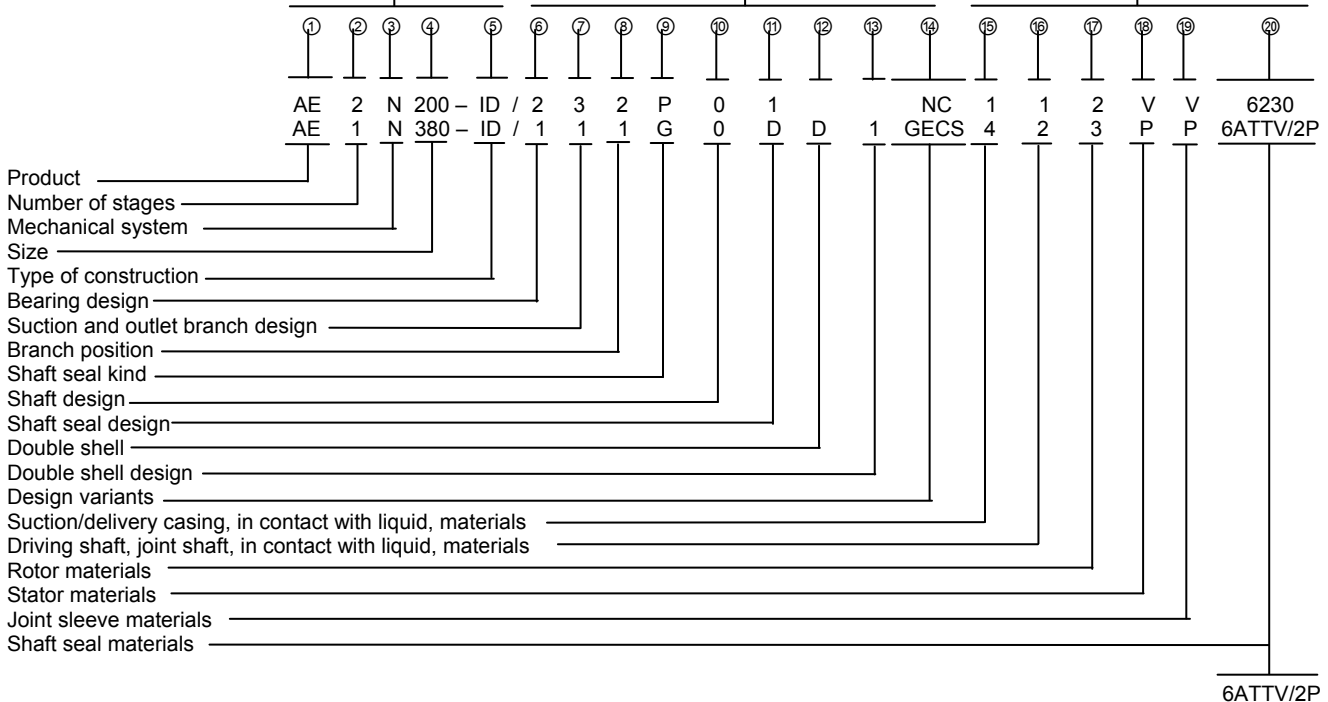
For exact performance data, please refer to the individual characteristics.

Type code

Material design

Geometric design

Type series



Example: double-acting mechanical seal

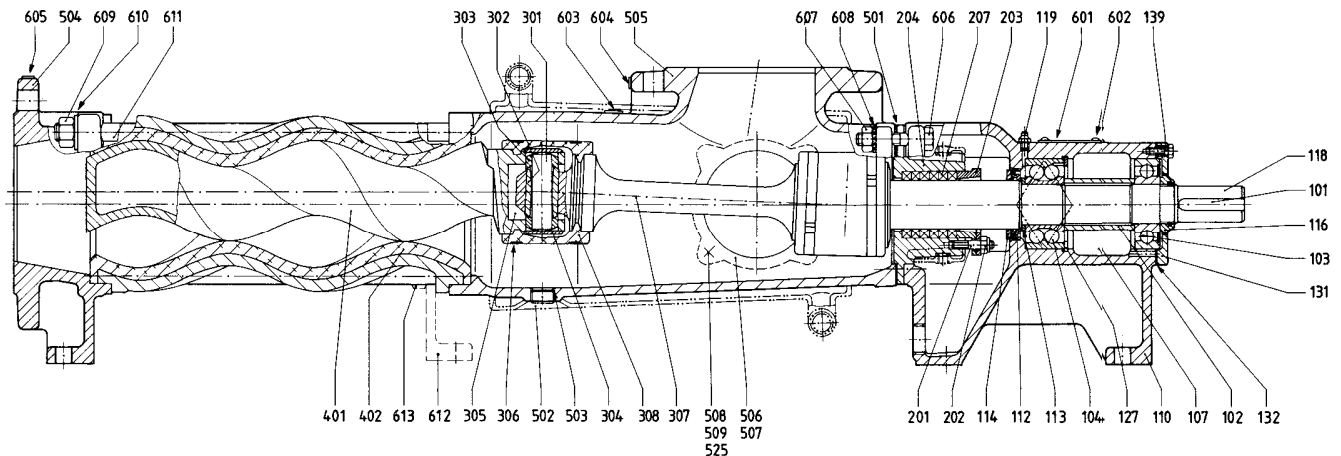
Sliding material pairing, product-side
Springs and construction materials
Auxiliary gaskets, product-side
Sliding material pairing, atmosphere-side
Auxiliary gaskets, atmosphere-side

Explanations to the type code:

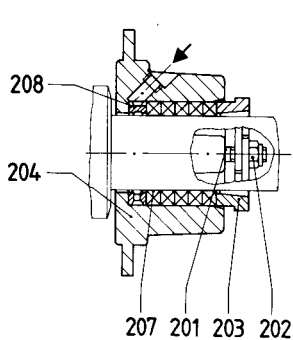
Position In type code	Designation	Design
①	Product	ALLWEILER eccentric screw pumps
②	Number of stages	1 = single-stage up to delivery pressure Δp 6 bar (sizes 25 to 5000) (Δp 12 bar for stator with even elastomer wall thickness) 2 = two-stage up to Δp = 12 bar (size 5000 only single-stage) up to Δp = 16 bar for stator with even elastomer wall thickness (up to Δp = 24 bar please consult the manufacturer)
③	Mechanical system	N = rated for delivery pressure Δp 16 bar (up to Δp 24 bar please consult the manufacturer)
④	Size	possible sizes: 25, 50, 100, 200, 380, 750, 1450, 2700, 5000. The numbers indicate the theoretic delivery in l/min with n = 400 1/min and Δp = 0 bar
⑤	Design	ID = Industrial design with external bearing
⑥	Bearing design	1 = hose-proof, radial bearing drive-side with sealing washer, axial bearing pump-side with shaft seal ring. Both bearings regreasable. For horizontal installation 2 = hose-proof, radial bearings on both sides with sealing washer, axial bearing pump-side with shaft seal-ring. Axial bearing regreasable, radial bearing lifetime-lubricated. For vertical installation with shaft shank upwards.
⑦	Suction and outlet branch design	1 = DIN flanges 3 = ANSI flanges } according to dimensional sheet, pages 9 and 10 X = Delivery branch DIN 2501, PN; ANSI B 16,1 Class 250; suction and/or branch of special design
⑧	Branch position	1, 2, 3, 4 – For the arrangement, please refer to the representation, page 9. Arrangement 3 for size 25 not possible.
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 1 = Shaft with shaft sleeve (not possible with pump size 25)
⑪	Shaft seal design	Stuffing boxes P01/P11 = Stuffing box of normal design (without sealing chamber ring/without flushing ring) P02/P12 = Stuffing box with flushing ring P03/P13 = Stuffing box with internal sealing chamber ring P04/P14 = Stuffing box with external sealing chamber ring P0X/P1X = Non-mechanical shaft seal of special design

⑪	Shaft seal design (continued) X = design possible	Mechanical seals										
		for pump sizes		25	50	100	200	380	750	1450	2700	5000
		Shaft diameter at the location of the shaft seal		25	30	35	43	53	60	75	90	110
		G0K/G1K = individual mechanical seal, DIN 24 960, design K, shape U		①X	X	X	X	X	X	X	X	②
		G0N/G1N = as above, however design N		X	X	X	X	X	X	X	X	-
		G0S/G1S = individual mechanical seal, DIN 24 960, design K, shape U, rotating part with integrated locking device and pump-sided throttling ring		①X	X	X	X	X	X	X	X	②
		G0T/G1T = as above, however design N		①X	X	X	X	-	X	X	-	-
		G0Q/G1Q = individual mechanical seal, DIN 24 960, design K, shape U with quench		①X	X	X	X	X	X	X	X	②
		G0D/G1D = double mechanical seal		①②	②	②	②	②	②	②	②	②
		G0X/G1X = mechanical seal of special design										
		① not available with shaft sleeve		② for gasket design, please inquire.								
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 + 150°C, maximum cooling temperature -40°C										
⑬	Double shell Design	1 = Suction casing with double shell 2 = Stuffing box for P01/P11 with double shell 12 = Suction and shaft sealing housing P01/P11 with double shell X = Special design for other double shells										
⑭	Design variants	Stators with uneven elastomer wall thickness (all qualities) N M H T] Rotor with temperature play as a function of the temperature of the fluid pumped		Stators with even elastomer wall thickness (all qualities) D E F R] Rotor with temperature play as a function of the temperature of the fluid pumped								
		C = Rotor hard-chromium-plated Y = Rotor ductile hard chromium-plated Z = Rotor metallically coated S = Worm on joint shaft		W = Winding protection on joint shaft G = Stator with even elastomer wall thickness X = other designs								
⑮	Suction and delivery casing in contact with fluid, materials	1 = gray cast iron EN-GJL-250/EN-GJL-400-15 3 = gray cast iron EN-GJL-250/EN-GJL-400-15, inside H-rubberized 4 = 1.4408 A = 1.4462 X = Special materials										
⑯	Driving shaft, joint shaft in contact with liquid, materials	1 = 1.4021/1.4571/1.1191 2 = 1.4301/1.4571 4 = 1.4571 A = 1.4462 X = Special materials, e.g. also for joint parts										
⑰	Rotor materials	2 = 1.4301 3 = 1.2436/1.2379	4 = 1.4571 X = Special materials, e.g. other metals, plastic materials	A = 1.4462								
⑱	Stator materials	WB= Caoutchouc soft	YL = Chlorosulfonated polyethylene (CSM) bright	PE = Polyethylene								
		P = Acrylonitrile-butadiene rubbers (NBR) PL = Acrylonitrile-butadiene rubbers (NBR) bright N = Polychloroprene (N) Y = Chlorosulfonated polyethylene (CSM)	V = Fluoroelastomer (FPM) HP = Acrylonitrile-butadiene rubbers hydrated (HNBR), SL = Silicon bright PU = Polyurethan	PT = Teflon glass fiber reinforced E = EPDM X = Special materials								
⑲	Joint sleeve materials	P = Acrylonitrile-butadiene rubbers (NBR) V = Fluoroelastomer (FPM) N = Polychloroprene (N)	Y = Chlorosulfonated polyethylene (CSM) B = Butyl caoutchouc	X = Special materials PL = Acrylonitrile-butadiene rubbers (NBR) bright								
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 points 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 E = EP caoutchouc PTFE-coated S = Silicon caoutchouc N = Polychloroprene (N) V = Fluoroelastomer (FPM) TTE = EP caoutchouc ① TTV = Fluoroelastomer (FPM) ① TTS = Silicon caoutchouc① X = Special materials					

Sectional drawing and component list

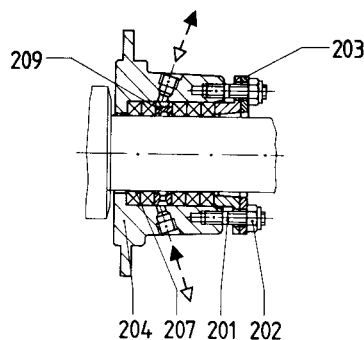


- Bearing 1:** Hose-proof, radial bearing drive-side with sealing washer; axial bearing pump-side with shaft seal ring.
Both bearings regreaseable. Only for horizontal installation.
- Shaft seal P01:** Due to particularly great packing length, versatile, admissible pressure at the shaft seal $p = -0,7$ to 16 bar.



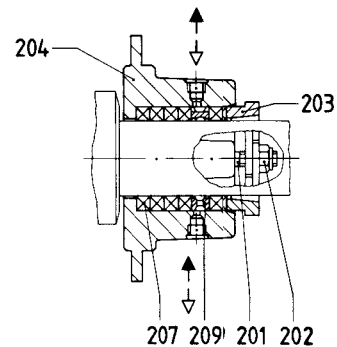
P02 Stuffing box with flushing ring

To be employed for very abrasive fluids pumped with external flushing
 $p = -0,7$ to 12 bars



P03 Stuffing box with internal sealing chamber ring

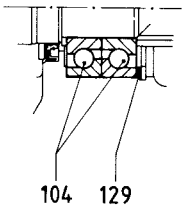
To be employed for pure fluids with internal sealing or for abrasive fluids with external sealing
 $p = -0,8$ to 6,0 bar



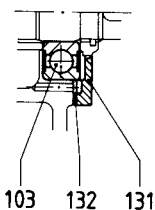
P04 Stuffing box with internal sealing chamber ring

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

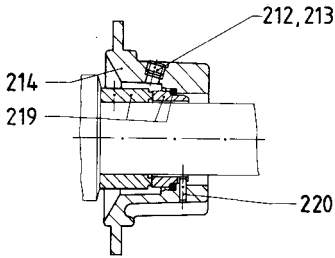
Part No.	Denomination	Part No.	Denomination	Part No.	Denomination
101	Key	127	Circlip	212	Screw plug
102	Spacer sleeve	129	Shim ring	213	Joint tape
103	Groove ball bearing	131	Bearing cover	214	Mechanical seal housing
104	Angular contact ball bearing	132	Gasket	215	Mechanical seal cover
107	Bearing grease	139	Hexagon screw	218	O-ring
110	Bearing bracket	201	Stud bolt	219	Mechanical seal
112	Shaft seal ring	202	Self-locking nut	220	Locking pin
113	Spacer ring	203	Gland half	232	Shaft seal ring
114	Thrower	204	Shaft sealing housing	234	Throttling ring
115	O-ring	206	Shaft sleeve	235	O-ring
116	Bearing nut	207	Stuffing box	236	Locking pin
118	Driving shaft	208	Flushing ring	245	Hexagon screw
119	Lubricating nipple	209	Sealing chamber ring	251	Sealing compound



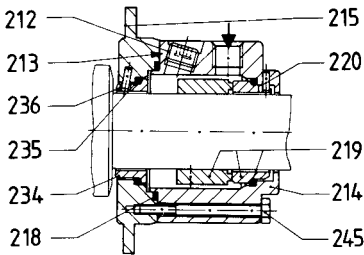
Bearing 1 for size 750 and above
and 2: Axial bearing with two single-row angular contact ball bearings



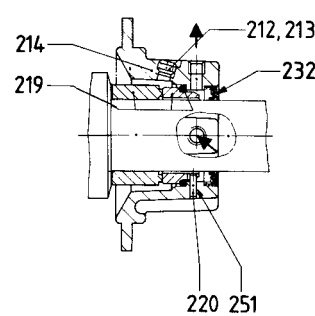
Radial bearing in case of bearing 2
(only for vertical installation with shaft shank upwards)



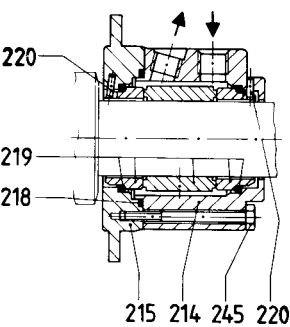
G0K/G0N Single mechanical seal, DIN 24 960, K/N design, U shape. For employment, please inquire. $p = -0,5$ to 16 bar



G0S/G0T Single mechanical seal, DIN 24 960, K/N design, U shape, rotating part with 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

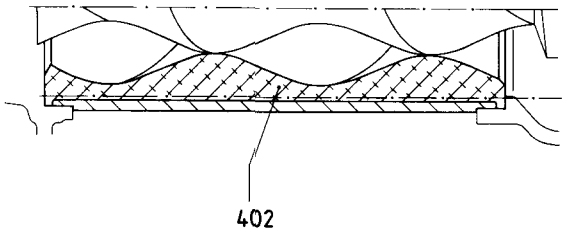


G0D Double mechanical seal, with sealing liquid connection. For employment, please inquire, $p = -0,95$ to 16 bar

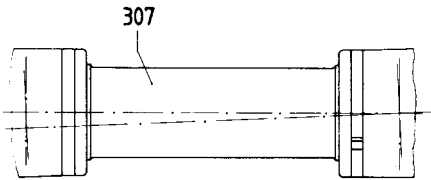
Part No.	Denomination
301	Joint bolt
302	Joint bush
303	Bush for joint bolt
304	Joint sleeve
305	Joint lubricant
306	Joint clamp
307	Joint shaft
308	Joint collar
401	Rotor
402	Stator
403	Stator gasket delivery-side
404	Stator gasket suction-side
501	Gasket for suction casing

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
510	Fan-type lock washer
525	Washer
601	Type plate
602	Round head grooved pin
603	Information plate commissioning

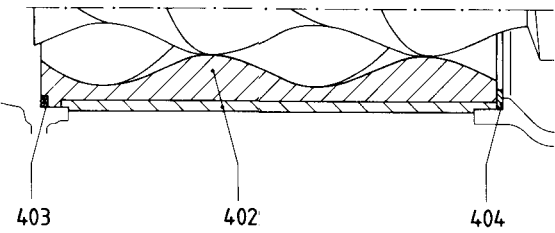
Part No.	Denomination
604	Information plate suction
605	Information plate pressure
606	Hexagon screw
607	Hexagon nut
608	Fan-type lock washer
609	Hexagon nut
610	Washer
611	Clamp bolt
612	Support
613	Hexagon screw



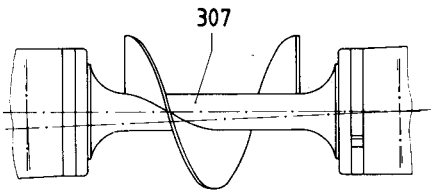
Stator with uneven elastomer wall thickness



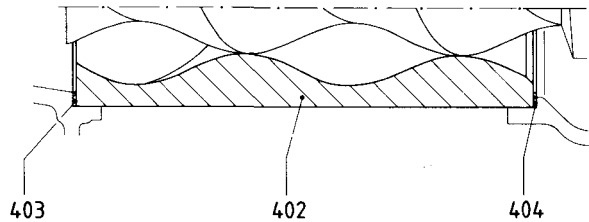
Winding protection on joint shaft



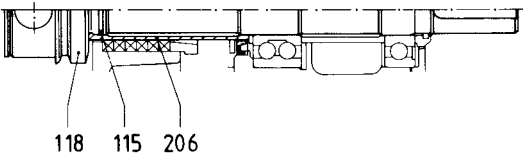
Stator of plastic material



Worm on joint shaft



Stator of metal

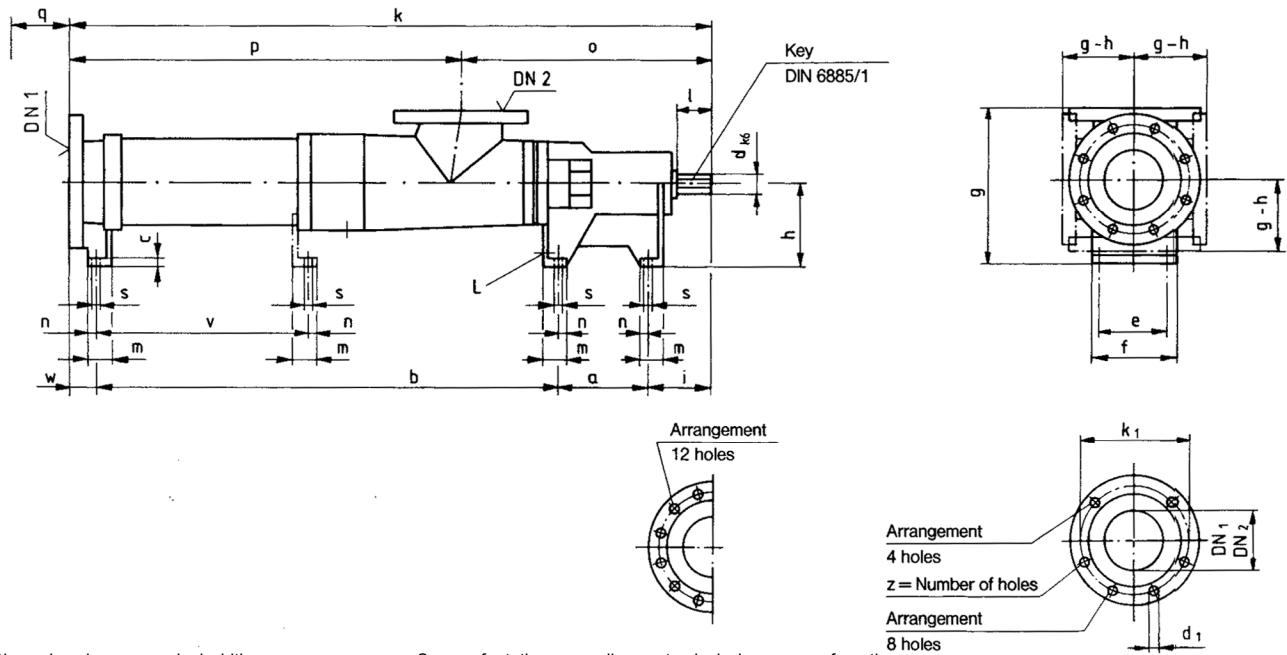


Shaft with shaft sleeve from size 50
and above for all gasket designs possible

Series AE1N, AE2N

Design ID

Pump dimensions, auxiliary connections, possible branch positions, weights



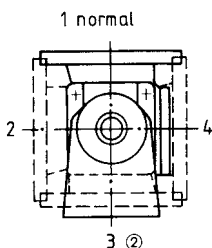
Dimensions in mm, nominal widths of ANSI flanges (DN) in inch. Subject to alterations.

Sense of rotation: normally counterclockwise as seen from the driving side, here DN₁ = outlet branch, DN₂ = suction branch, change of sense of rotation possible, then, DN₁ = suction branch, DN₂ = outlet branch

Series Size		Pump dimensions																Max. mass kg
		a	b	c	d	e	f	h	i	l	m	n	o	① q	s	L	v	
AE1N	25-ID	114	389	10	18	75	95	90	65	30	30	11	273	170	9	Rp ¾	-	17
AE2N	25-ID		515											215				19
AE1N	50-ID	122	467	10	22	85	105	100	79	40	30	11	309	210	9	Rp ¾	-	25
AE2N	50-ID		627											285				29
AE1N	100-ID	140	592	13	28	100	125	125	95	50	38	13	371	270	11,5	Rp ½	-	43
AE2N	100-ID		792											370				50
AE1N	200-ID	151	708	15	32	114	140	140	106	60	40	14	411	330	14	Rp ¾	-	61
AE2N	200-ID		960											470				73
AE1N	380-ID	171	854	16	42	132	168	160	118	65	50	19	480	410	18	Rp ¾	-	94
AE2N	380-ID		1160											590				116
AE1N	750-ID	190	1061	16	48	164	200	180	130	75	50	19	532	520	18	Rp ¾	-	156
AE2N	750-ID		1461											780				190
AE1N	1450-ID	220	1315	21	60	200	245	225	158	90	63	23	644	640	22	Rp 1	-	270
AE2N	1450-ID		980											1091			370	
AE1N	2700-ID	266	1632	24	75	245	290	250	182	110	65	23	769	820	22	Rp 1	-	490
AE2N	2700-ID		1250											1361			630	
AE1N	5000-ID	320	1994	29	95	290	350	280	215	130	80	30	922	980	27	Rp 1	-	770

① Stator-dismantling dimension

Possible branch positions as seen from the drive



② for size 25 not possible
VM 762 GB/2017.03 2000

Flange dimensions							
DIN 2501, PN 16 ⑤				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
250	355	26	12	10	361,9	25,4	12

Flange dimensions							
DIN 2501, PN 25 ⑦				ANSI B16.1, Class 250 ④			
DN ₁	k ₁	d ₁	z	DN ₁	k ₁	d ₁	z
65	145	18	4	2 1/2	149,2	22,2	8
80	160	18	8	3	168,3	22,2	8
100	190	22	8	4	200	22,2	8
125	220	26	8	5	234,9	22,2	8
150	250	26	8	6	269,9	22,2	12

Series Size		Companion dimensions for suction and outlet branch																	
		Flanges DIN 2501, PN 16						Flanges ANSI B16.1, Class 125 ④						Flanges ANSI B16.5, Class 150④					
		⑤ DN ₁	⑤ 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
AE1N	25-ID	40	40	609	336	41	175	1 ½	1 ½	606	333	38	172	1 ½	1 ½	609	336	41	175
AE2N	25-ID			735	462					732	459					735	462		
AE1N	50-ID	50	50	711	402	43	190	2	2	707	398	39	186	2	2	711	402	43	190
AE2N	50-ID			871	562					867	558					871	562		
AE1N	100-ID	65	65	867	496	40	230	2 ½	2 ½	866	495	39	229	2 ½	2 ½	871	500	44	234
AE2N	100-ID			1067	696					1066	695					1071	700		
AE1N	200-ID	80	80	1009	598	44	260	3	3	1007	596	42	258	3	3	1012	601	47	263
AE2N	200-ID			1261	850					1259	848					1264	853		
AE1N	380-ID	100	100	1184	704	41	300	4	4	1186	706	43	302	4	4	1186	706	43	302
AE2N	380-ID			1490	1010					1492	1012					1492	1012		
AE1N	750-ID	125	125	1425	893	44	350	5	5	1425	893	44	350	5	5	1425	893	44	350
AE2N	750-ID			1825	1293					1825	1293					1825	1293		
AE1N	1450-ID	150	150	1746	1102	53	425	6	6	1746	1102	53	425	6	6	1746	1102	53	425
AE2N	1450-ID			2251	1607					2251	1607					2251	1607		
AE1N	2700-ID	200	200	2142	1373	62	485	8	8	2142	1373	62	485	8	8	2142	1373	62	485
AE2N	2700-ID			2800	2031					2800	2031					2800	2031		
AE1N	5000-ID	250	250	2604	1682	75	550	10	10	2604	1682	75	550	10	10	2604	1682	75	550

Series Size ③	Companion dimensions for suction and outlet branch (DIN)						Companion dimensions for suction and outlet branch (ANSI)					
	Flanges DIN 2501, PN 25⑦				Flanges DIN 2501, PN 16 ⑤		Flanges ANSI B16.1, Class 250④				Flanges ANSI B16.1, Class 125 ④	
	DN ₁	k ③	p ③	w ③	DN ₂	g ③	DN ₁	k ③	p ③	w ③	DN ₂	g ③
AE2N 100-ID	65	1072	701	45	65	230	2 ½	1074	703	47	2 ½	229
AE2N 200-ID	80	1266	855	49	80	260	3	1269	858	52	3	258
AE2N 380-ID	100	1496	1016	47	100	300	4	1500	1020	51	4	302
AE2N 750-ID	125	1831	1299	50	125	350	5	1836	1304	55	5	350
AE2N 1450-ID	150	2259	1615	61	150	425	6	2262	1618	64	6	425

③ for rubber-coating + 3 mm

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

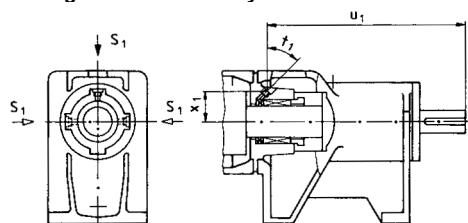
⑦ Sealing surface DIN 2526 shape C, machined as shape A

④ Sealing surface: stock finish

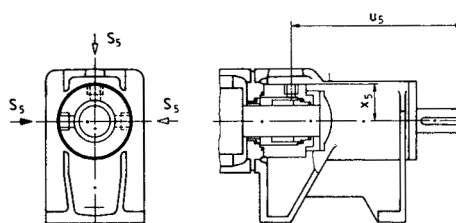
from DN 125 sealing surface DIN 2526 shape A

⑥ Pump outlet pressure p₀ up to 25 bar.

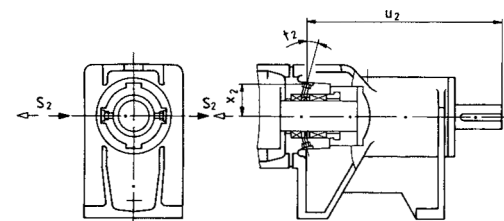
Arrangement of auxiliary connections for shaft seals



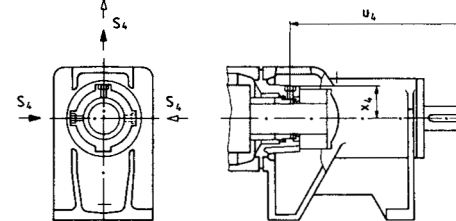
P02, P12 with flushing ring



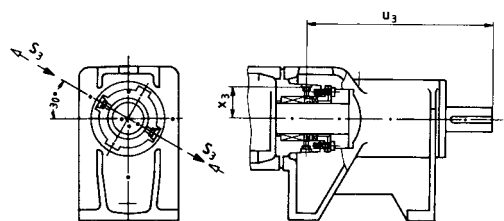
G0S/G0T, G1S/G1T with flushing connection



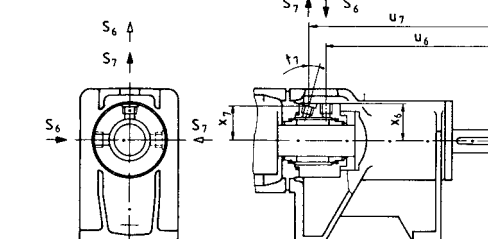
P03, P13 with internal sealing chamber ring



G0Q, G1Q with quench connection



P04, P14 with external sealing chamber ring



G0D, G1D with sealing connection

Series Size	Companion dimensions auxiliary connections for shaft seals											
	P02, P12 with flushing ring				P03, P13 with internal sealing chamber ring				P04, P14 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	
AE.N 25-ID	M 8 x 1	195,5	28	42°	M 8 x 1	188	30	20°	M 8 x 1	180,5	30,5	
AE.N 50-ID	M 8 x 1	217	31,5	40°	M 8 x 1	211	32	20°	M 8 x 1	202,5	33,5	
AE.N 100-ID	Rp ½	255	38	42°	Rp ½	248	40	17°	Rp ½	236	39,5	
AE.N 200-ID	Rp ½	279	42	42°	Rp ½	272	44	17°	Rp ½	261	43,5	
AE.N 380-ID	Rp ½	316	52	42°	Rp ½	307	54	17°	Rp ½	292,5	54,5	
AE.N 750-ID	Rp ½	349	56	35°	Rp ½	338,5	57	13°	Rp ½	322,5	58	
AE.N 1450-ID	Rp ½	416	67	35°	Rp ¼	403	68,5	13°	Rp ¼	383	69,5	
AE.N 2700-ID	Rp ¼	492	77	35°	Rp ¼	474,5	79	13°	Rp ¼	451	80	
AE.N 5000-ID	Rp ¼	588	94,5	35°	Rp ¼	568,5	97	13°	Rp ¼	542	97	

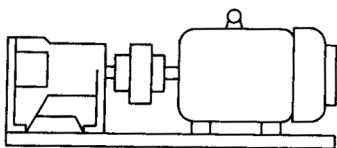
Series Size		Companion dimensions auxiliary connections for shaft seals												
		G0S/G0T, G1S/G1T with flushing connection			G0Q, G1Q with quench connection			G0D, G1D with sealing connection						
		S ₅ ⊗	u ₅	x ₅	S ₄ ⊗	u ₄	x ₄	S ₆ ⊗	S ₇ ⊗	u ₆	u ₇	x ₆	x ₇	t ₇
AE.N	25-ID	Rp ¼	157	34	Rp ⅞	167	30,5	Rp ¼	Rp ¼	157	182,5	34	33	15°
AE.N	50-ID	Rp ¼	179	38	Rp ⅞	187,5	30,5	Rp ¼	Rp ¼	179	204,5	38	36,5	15°
AE.N	100-ID	Rp ¼	220,5	41,5	Rp ⅞	230	33,5	Rp ¼	Rp ¼	220,5	245,5	41,5	40	15°
AE.N	200-ID	Rp ⅝	241	48,5	Rp ⅞	255	41	Rp ⅜	Rp ⅝	241	266	48,5	47	15°
AE.N	380-ID	Rp ⅝	280	56	Rp ⅞	287	54	Rp ⅝	Rp ⅝	280	305,5	56	53,5	20°
AE.N	750-ID	Rp ⅝	297	61	Rp ⅞	315,5	57,5	Rp ⅝	Rp ⅝	297	337,5	61	58,5	20°
AE.N	1450-ID	Rp ⅝	364	71,5	Rp ¼	375,5	68,5	Rp ⅝	Rp ⅝	364	406	71,5	69	22°
AE.N	2700-ID	Rp ⅝	440,5	81	Rp ⅝	446	79	Rp ⅝	Rp ⅝	440,5	479,5	81	78,5	20°
AE.N	5000-ID	Rp ⅝	527	98	Rp ⅝	542	96	Rp ⅝	Rp ⅝	527	576	98	95,5	25°

⊗ Screw hole DIN 3852, shape Z

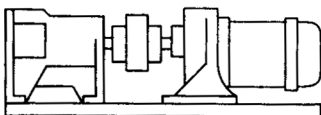
► Standard supply

▷ Possible supply, for these purposes, the sealing housing must be turned in case of designs P02/P12, G0S/G1S, G0T/G1T, G0Q/G1Q, G0D/G1D.

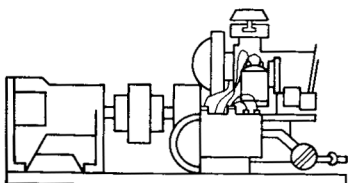
Driving possibilities



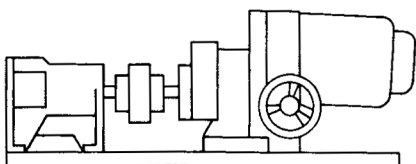
1 AE-ID with flexible coupling and motor



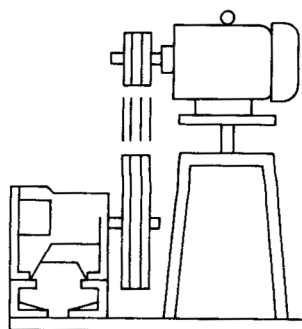
2 AE-ID with flexible coupling and geared motor



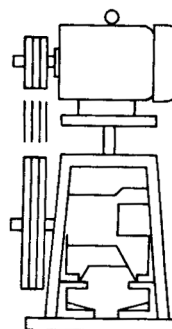
3 AE-ID with flexible coupling and combustion engine



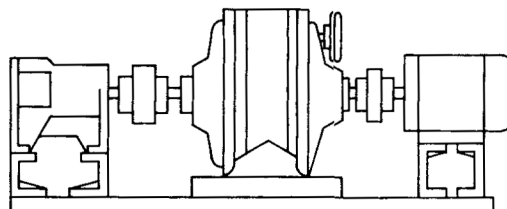
6 AE-ID with flexible coupling and infinitely variable gear



4 AE-ID with V-belt drive, rocker and motor arranged behind the pump



5 AE-ID with V-belt drive, rocker and motor arranged above the pump



7 AE-ID with flexible coupling, gear or variable speed gear, flexible coupling and motor

Further driving variants (e.g. hydraulic or pneumatic drives) are possible.

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
	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.

Transmissions 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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