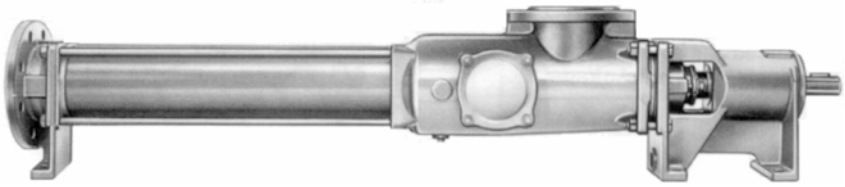
Eccentric Screw Pumps Series AE1N, AE2N Design ID



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	4850	2900
Temperature of fluid pumped	t	°C ①	up to	150	
Delivery pressure					
single-stage	Δp	bar	up to	6 ②	-
two-stage	Δp	bar ⑦	up to	-	12 (16 ⑤)
Pump outlet pressure	p_d	bar ④	up to	16	16 (25 ⑥)
Attainable under pressure	p_s	bar ③	up to	0,95	
Viscosity	η	mPa s	up to	270.000	
Admissible solids content	Vol% ③		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 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 for 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 – uo 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.

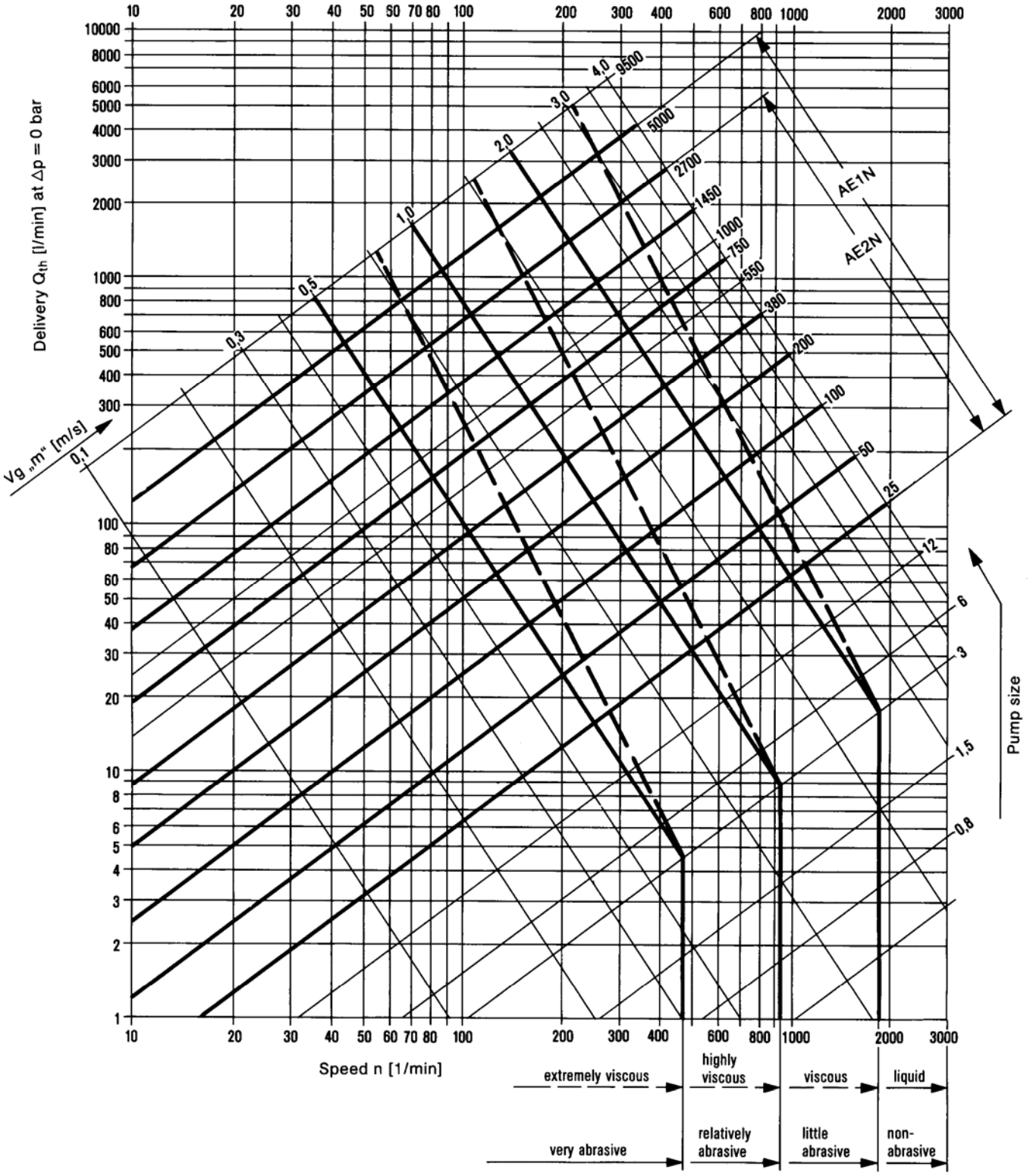
Installation

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. vg„m"= available, mean sliding speed of the rotor in the stator.

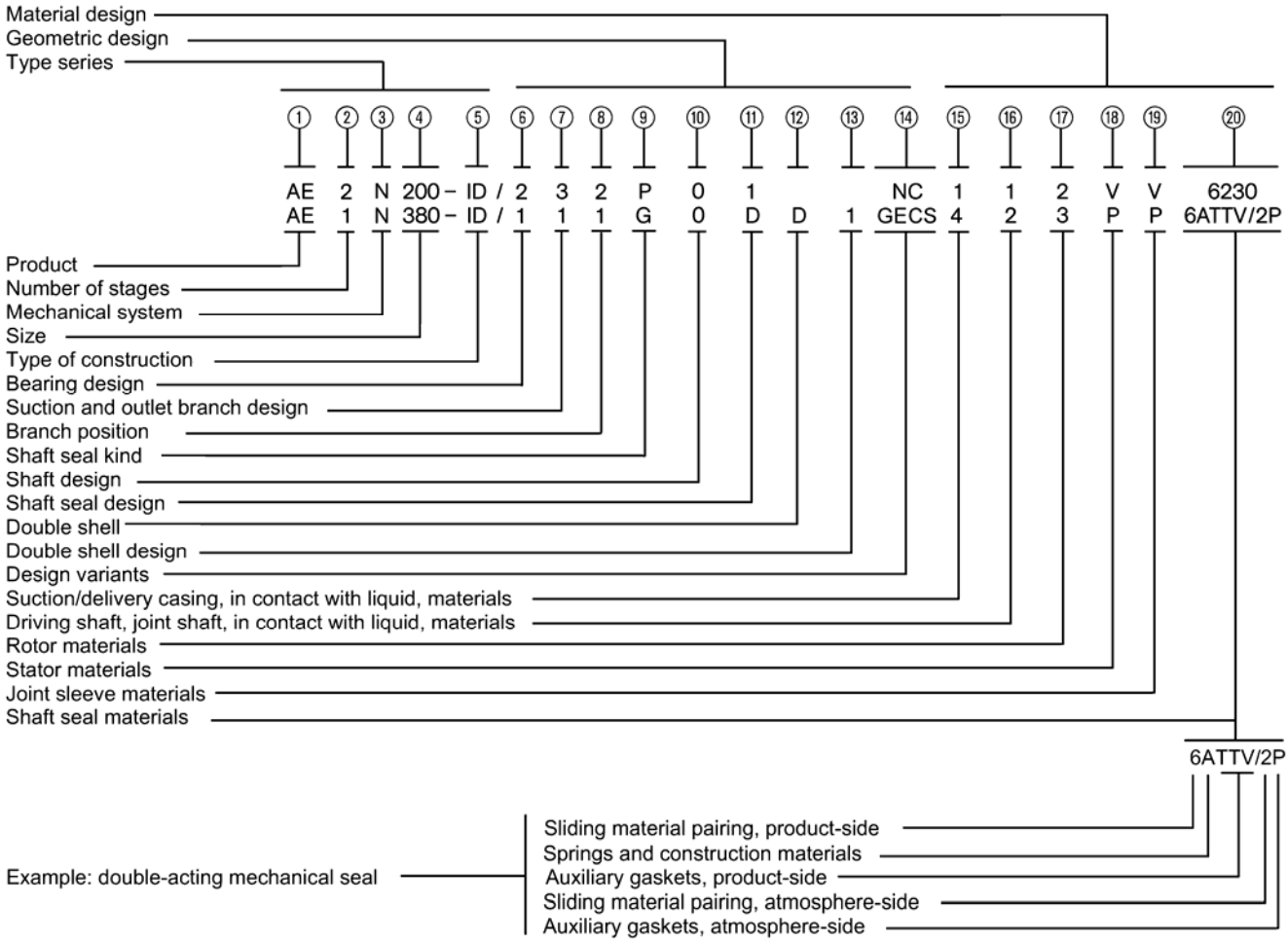


Sizes of series AE1E, AE2E. Data on the performance range not covered by AE series are to be taken from the rear side of this brochure and/or the individual brochures of the other series.

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

ALLWEILER

Type code



Explanations to the type code:

Position in type code	Designation	Design		
①	Product	ALLWEILER eccentric screw pump		
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 available 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 bat 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 internal 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 bearing 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, 10
		X	=	Delivery branch DIN 2501, PN 25; ANSI B 16,1, Class 250; suction and/or delivery 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	38	750	14	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									

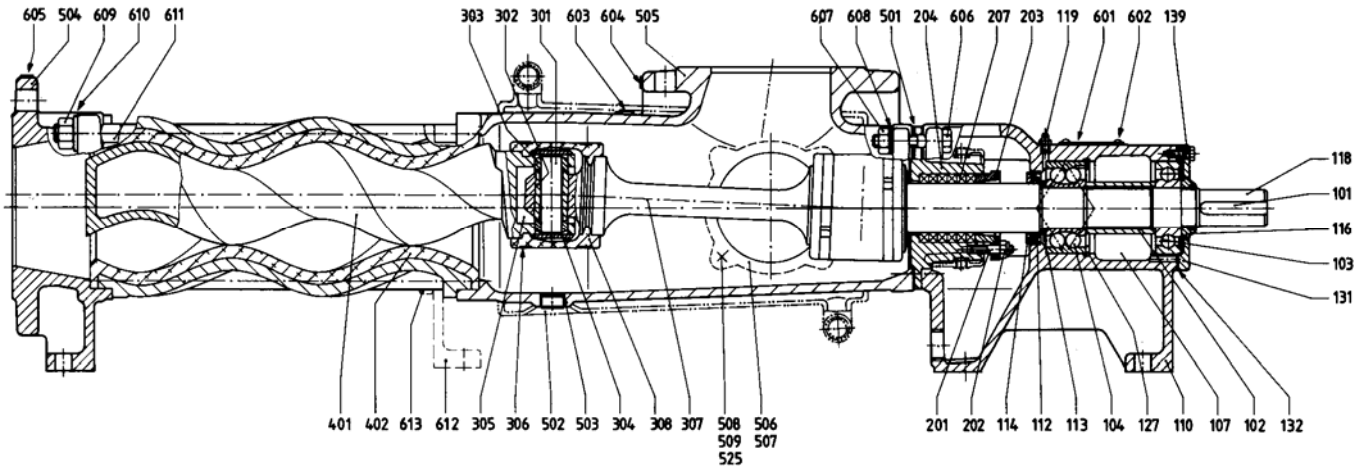
① not available with shaft sleeve ② for gasket design, please inquire

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	Stator 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 Stator 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 = grey cast iron EN-GJL-250 / EN-GJL-400-15 3 = grey 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 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 P = Acrylonitrile-butadiene rubbers (NBR) PL = Acrylonitrile-butadiene rubbers (NBR) N = Polychloroprene (N) Y = Chlorosulfonated polyethylene (CSM) YL = Chlorosulfonated polyethylene (CSM) V = Fluoroelastomer (FPM) HP = Acrylonitrile-butadiene rubbers hydrated (HNBR) SL = Silicon bright PU = Polyurethan PE = Polyethylene PT = Teflon glass fibre reinforced E = EPDM X = Special materials
⑲	Joint sleeve materials	P = Acrylonitrile-butadiene rubbers (NBR) PL = Acrylonitrile-butadiene rubbers (NBR) N = Polychloroprene (N) Y = Chlorosulfonated polyethylene (CSM) V = Fluoroelastomer (FPM) B = Butyl caoutchouc X = Special materials
⑳	Shaft seal materials	Stuffing box: 5846 = Ramie fibre with PTFE impregnation, asbestos-free 6426 = Aramid endless fibre with PTFE impregnation, asbestos-free 6230 = Graphite-incorporated PTFE with sliding means, asbestos-free

Mechanical seal:

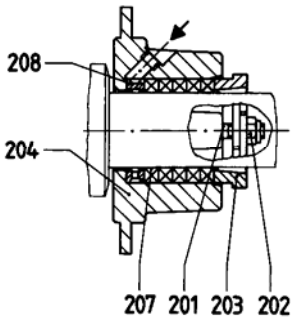
Sliding material pairing 1st point for single gasket 1st + 4th point for double gasket	Spring and constr. materials 2nd point	Auxiliary gaskets 3rd point for single gasket 3rd + 5th points for double gasket
2 = CrMo cast iron/hard carbon 4 = Ceramics/hard carbon 5 = Hard metal/hard metal, highly wear-resistant 6 = Silicon carbide/silicon carbide highly wear-resistant, corrosion-resistant 7 = Silicon carbide/silicon carbide highly wear-resistant, 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) E = EP-caoutchouc S = Silicon caoutchouc N = Polychloroprene (N) V = Fluoroelastomer (FPM) TTE = EP-caoutchouc ① TTV = Fluoroelastomer (FPM) ① TTS = Silicon caoutchouc ① X = Special materials ① double PTFE-coated

Sectional drawing and component list



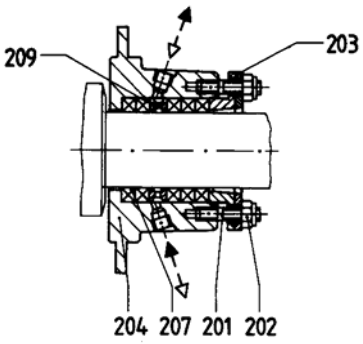
Bearing **1**: Hose-proof, radial bearing drive-side with sealing washer; axial bearing pump-side with shaft seal ring. Both bearings regreasable. Only for horizontal installation.

Shaft seal **P01**: Due to particularly great packing length, versatile, admissible pressure at the shaft seal p = -0, 7 to 16 bar.



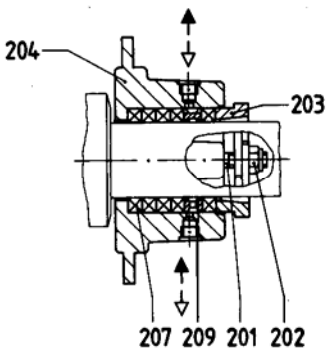
P0 Stuffing box with flushing ring

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



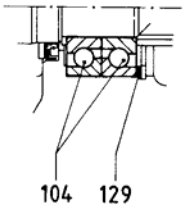
P04 Stuffing box with internal sealing chamber ring

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

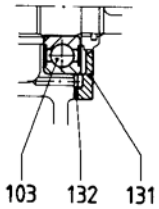
Part No.	Denomination
101	Key
102	Spacer sleeve
103	Groove ball bearing
104	Angular contact ball bearing
107	Bearing grease
110	Bearing bracket
112	Shaft seal ring
113	Spacer ring
114	Thrower
115	O-ring
116	Bearing nut
118	Driving shaft
119	Lubricating nipple

Part No.	Denomination
127	Circlip
129	Shim ring
131	Bearing cover
132	Gasket
139	Hexagon screw
201	Stud bolt
202	Self-locking nut
203	Gland half
204	Shaft sealing housing
206	Shaft sleeve
207	Stuffing box
208	Flushing ring
209	Sealing chamber ring

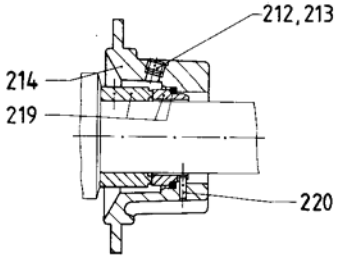
Part No.	Denomination
212	Screw plug
213	Joint tape
214	Mechanical seal housing
215	Mechanical seal cover
218	O-ring
219	Mechanical seal
220	Locking pin
232	Shaft seal ring
234	Throttling ring
235	O-ring
236	Locking pin
245	Hexagon screw
251	Sealing compound



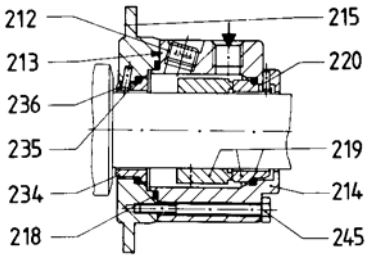
Bearing **1** and **2**: for size 1450 and above
Axial bearing with two-single-row angular contact ball bearings



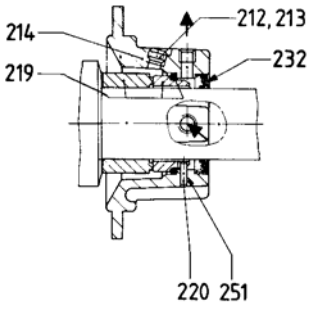
Radial bearing in case of bearing **2** (only for vertical installation with shaft shank upwards)



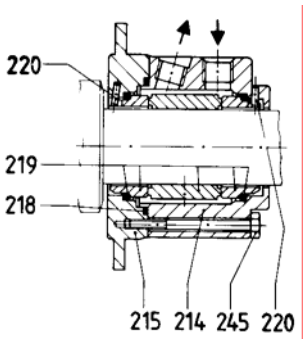
G0K/G0N Single mechanical seal, DIN 24960, K/N design, U shape.
For employment, please inquire.
p = -0.5 to16 bar



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

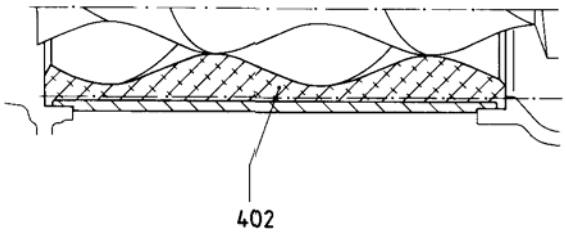


G0D Double mechanical seal, with sealing liquid connection.
For employment, please inquire,
p = -0.95 to 16 bar

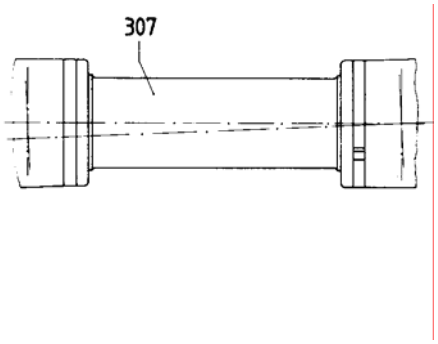
Part No.	Denomination
301	Joint bolt
302	Joint bush
303	Bush for joint bolt
304	Joint sleeve
305	Joint lubricant
306	Joint clamp
307	Joint shaft
308	Joint collar
401	Rotor
402	Stator
403	Stator gasket delivery-side
404	Stator gasket suction-side
501	Gasket for suction casing

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

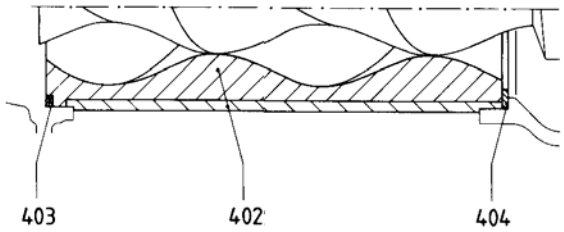
Part No.	Denomination
604	Information plate suction
605	Information plate pressure
606	Hexagon screw/stud bolt
607	Hexagon nut
608	Fan-type lock washer
609	Hexagon nut
610	Washer
611	Clamp bolt
612	Support
613	Hexagon screw



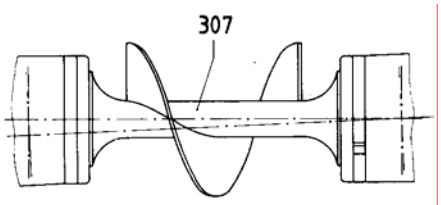
Stator with uneven elastomer wall thickness



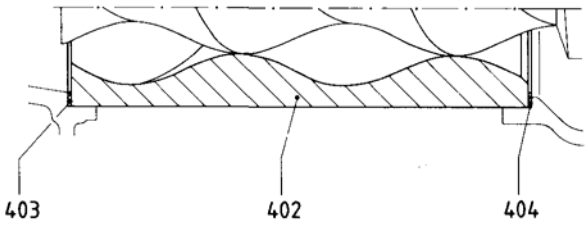
Winding protection on joint shaft



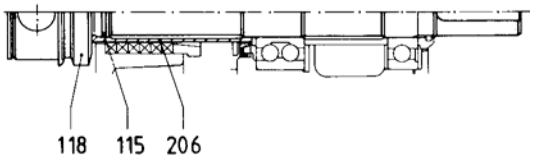
Stator of plastic material



Worm on joint shaft

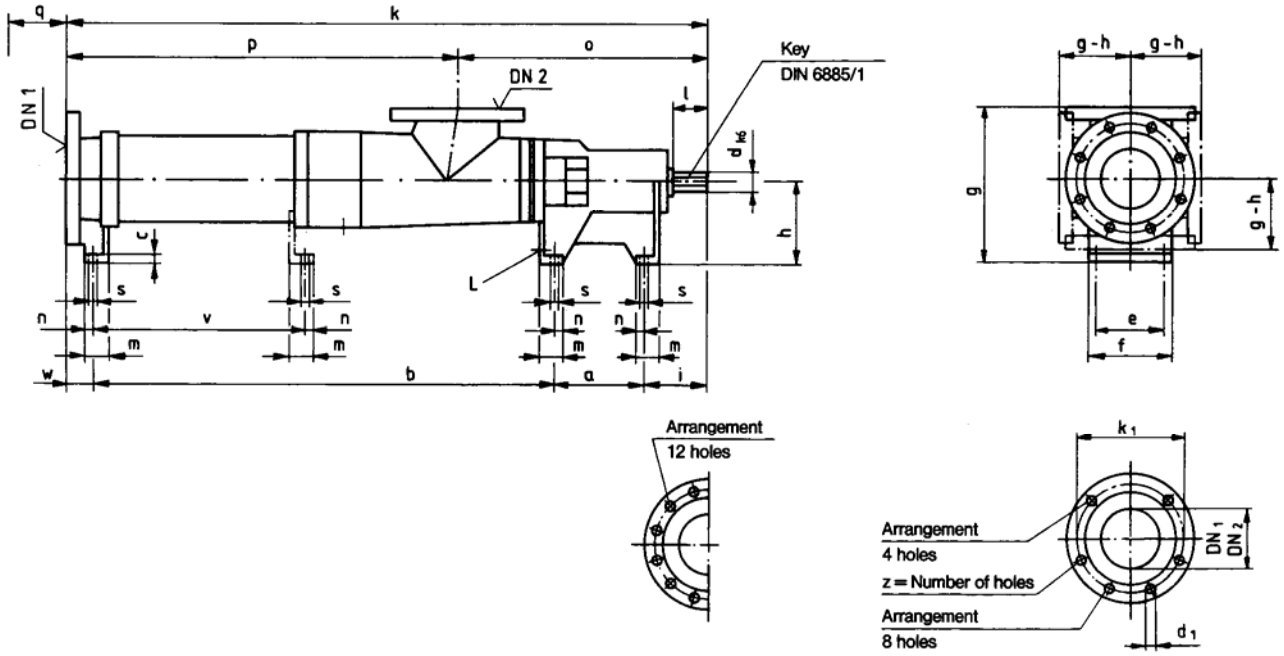


Stator of metal



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

Pump dimensions, auxiliary connections, possible branch positions, weights
Suction casing with flange connection



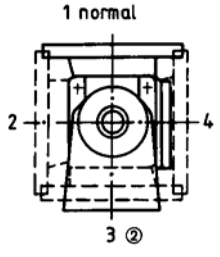
Dimensions in mm, nominal widths of ANSI flanges (DN) in inch.
Subject to alternations.

Sense of rotation: normally counterclockwise as seen from the driving side, here DN_1 = outlet branch, DN_2 = suction branch, change of sense of rotation possible, then, DN_1 = suction branch, DN_2 = 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 AE2N 25-ID	114	389 515	10	18	75	95	90	65	30	30	11	273	170 215	9	Rp ⅜	-	17 19
AE1N 50-ID AE2N 50-ID	122	467 627	10	22	85	105	100	79	40	30	11	309	210 285	9	Rp ⅜	-	25 29
AE1N 100-ID AE2N 100-ID	140	592 792	13	28	100	125	125	95	50	38	13	371	270 370	11,5	Rp ½	-	43 50
AE1N 200-ID AE2N 200-ID	151	708 960	15	32	114	140	140	106	60	40	14	411	330 470	14	Rp ¾	-	61 73
AE1N 380-ID AE2N 380-ID	171	854 1160	16	42	132	168	160	118	65	50	19	480	410 590	18	Rp ¾	-	94 116
AE1N 750-ID AE2N 750-ID	190	1061 1461	16	48	164	200	180	130	75	50	19	532	520 780	18	Rp ¾	-	156 190
AE1N 1450-ID AE2N 1450-ID	220	1315 1820	21	60	200	245	225	158	90	63	23	644	640 980	22	Rp 1	- 1091	270 370
AE1N 2700-ID AE2N 2700-ID	266	1632 2290	24	75	245	290	250	182	110	65	23	769	820 1250	22	Rp 1	- 1361	490 630
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

Flange dimensions							
DIN 2501, PN 16 ⑤				ANSI B 16.1/16.5, Class 125/150 ④			
DN_1/DN_2	k_1	d_1	z	DN_1/DN_2	k_1	d_1	z_1
40	110	18	4	1 ½	98,4	15,9	4
50	125	18	4	2	120,6	19	4
65	145	18	4	2 ½	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

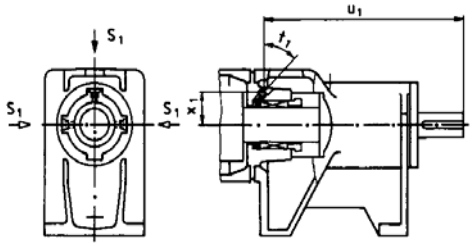
Flange dimensions							
DIN 2501, PN 25 ⑤				ANSI B 16.1, Class 250 ④			
DN_1	k_1	d_1	z	DN_1	k_1	d_1	z
65	145	18	4	2 ½	149,2	22,2	8
80	160	18	8	3	168,3	22,2	8
100	190	22	8	4	200	22,2	8
125	220	26	8	5	234,9	22,2	8
150	250	26	8	6	269,9	22,2	12

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 150 ④					
		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

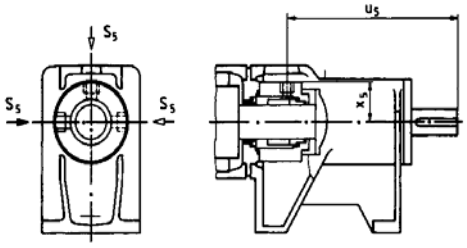
Series / Size ⑧		Companion dimensions for suction and outlet branch (DIN)						Companion dimensions for suction and outlet branch (ANSI)					
		Flanges DIN 2501, PN 25 ⑦				Flanges DIN 2501, PN 16 ⑤		Flanges ANSI B16.1, Class 250 ④				Flanges ANSI 16.1, Class 125 ④	
		DN_1	k ③	p ③	w ③	DN_2	g ③	DN_1	k 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
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
⑦ Sealing surface DIN 2526 shape C, machined as shape A
⑧ Pump outlet pressure pd up to 25 bar

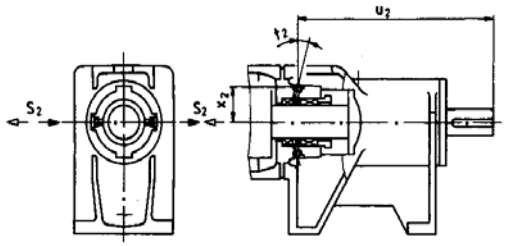
Arrangement of auxiliary connections for shaft seals



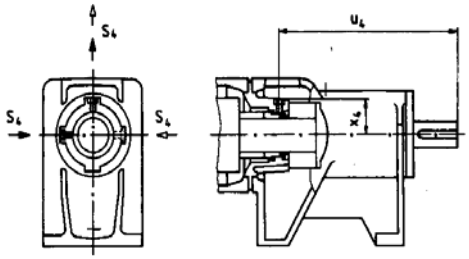
P02, P12 with flushing ring



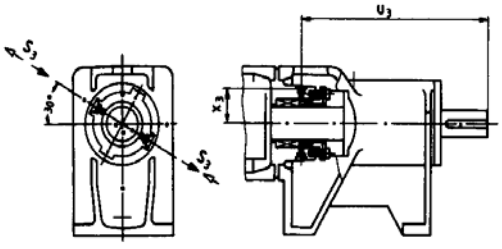
G0S/G0T, G1S/G1T with flushing connection



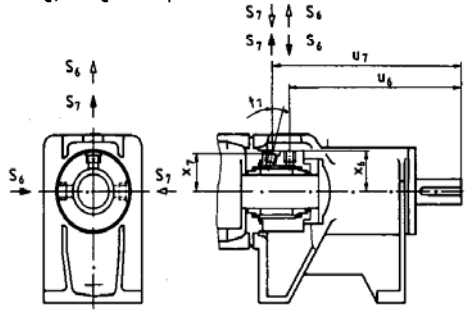
P03, P13 with internal sealing chamber ring



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		
		$S_1$⑥	u_1	x_1	t_1	$S_2$⑥	u_2	x_2	t_2	$S_3$⑥	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 ⅛	255	38	42°	Rp ⅛	248	40	17°	Rp ⅛	236	39,5
AE.N	200-ID	Rp ⅛	279	42	42°	Rp ⅛	272	44	17°	Rp ⅛	261	43,5
AE.N	380-ID	Rp ⅛	316	52	42°	Rp ⅛	307	54	17°	Rp ⅛	292,5	54,5
AE.N	750-ID	Rp ⅛	349	56	35°	Rp ⅛	338,5	57	13°	Rp ⅛	322,5	58
AE.N	1450-ID	Rp ¼	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

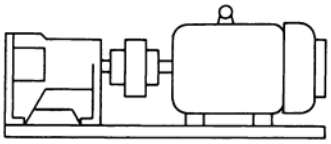
Series / Size		Companion dimensions auxiliary connections for shaft seals												
		G0S/G0T, G1S/G1T with flushing connection			G0Q, G1Q with quench connection			G0D, G1D with sealing connection						
		$S_5$⑥	u_5	x_5	$S_4$⑥	u_4	x_4	$S_6$⑥	$S_7$⑥	u_6	u_7	x_6	x_7	t_7
AE.N	25-ID	Rp ¼	157	34	Rp ⅛	167	30,5	Rp ¼	Rp ¼	157	182,5	34	33	15°
AE.N	50-ID	Rp ¼	179	38	Rp ⅛	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 ⅛	230	33,5	Rp ¼	Rp ¼	220,5	245,5	41,5	40	15°
AE.N	200-ID	Rp ⅜	241	48,5	Rp ⅜	255	41	Rp ⅜	Rp ⅜	241	266	48,5	47	15°
AE.N	380-ID	Rp ⅜	280	56	Rp ⅜	287	54	Rp ⅜	Rp ⅜	280	305,5	56	53,5	20°
AE.N	750-ID	Rp ⅜	297	61	Rp ⅜	315,5	57,5	Rp ⅜	Rp ⅜	297	337,5	61	58,5	20°
AE.N	1450-ID	Rp ⅜	364	71,5	Rp ¼	375,5	68,5	Rp ⅜	Rp ⅜	364	406	71,5	69	22°
AE.N	2700-ID	Rp ⅜	440,5	81	Rp ¼	446	79	Rp ⅜	Rp ⅜	440,5	479,5	81	78,5	20°
AE.N	5000-ID	Rp ⅜	527	98	Rp ⅜	542	96	Rp ⅜	Rp ⅜	527	576	98	95,5	25°

⑥ Screw hole DIN 3852, shape Z

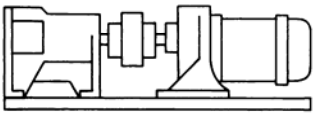
▶ Standard supply

▷ 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.

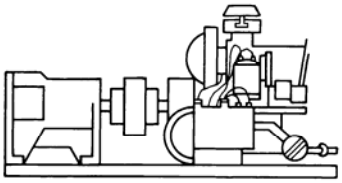
Driving possibilities



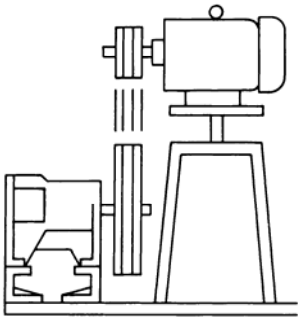
1 AE-ID with flexible coupling and motor



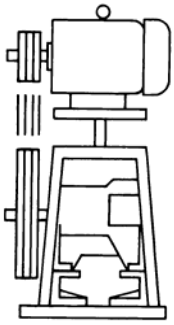
2 AE-ID with flexible coupling and geared motor



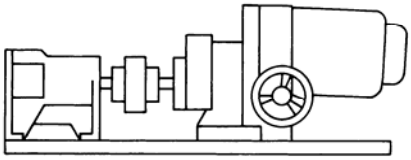
3 AE-ID with flexible coupling and combustion engine



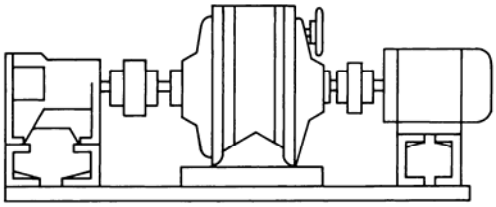
4 AE-ID with V-belt drive, rocker and motor arranged behind the pump



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



6 AE-ID with flexible coupling and infinitely variable gear



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.

Series AE1N, AE2N
Design ID

ALLWEILER

Range of eccentric screw pumps

Series	Number of stages	Maximum output at Δp = 0 bar		Maximum delivery pressure	Maximum viscosity
		m³/h	l/min	bar	mPa s
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
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 delivery pressure	Maximum viscosity
	m³/h	l/min	bar	mPa s
ASL	2,4	40	4	100.000
ASH	60	1000	15	100.000

Macerator range

Series	Maximum throughput m³/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.

ALLWEILER
ALL FLUIDS. NO LIMITS.

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