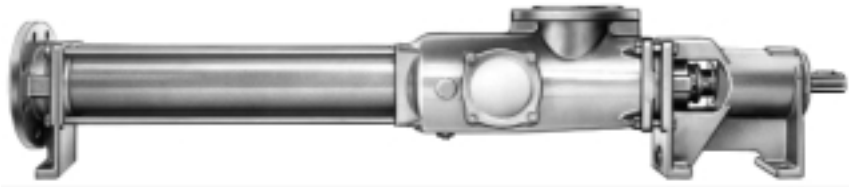
Eccentric Screw Pumps

Series AED2N
Design ID

ALLTRI



Application
For pumping liquid to highly viscous, neutral or aggressive, uncontaminated or abrasive liquids, liquids containing gases or which tend to froth also with fibrous and solid material.

Waste water and waste water treatment engineering, the chemical and petro-chemical industries, the paper and cellulose industries, the soap and fats industry, the paint industry, the food and beverage industry, the plastics industry, ceramics, agriculture, the sugar industry and shipbuilding.

Operation
Rotary self-priming, two-stage positive displacement pump. The pumping elements are the rotating eccentric screw (rotor) and the fixed stator. In any cross sectional plane, the elements are in contact with one another at three points and along the length of the elements these points form three lines of seal. The material contained in the sealed enclosed cavities which are formed as the rotor turns is displaced axially and with complete continuity from the suction to the delivery end of the pump. Despite the fact that the rotor rotates, no turbulence is produced. The constant volume of the enclosed cavities means that there are no pressurizing forces and thus guarantees a low-surge pumping action which is not at all severe on the material being pumped.

Design features
The outlet section, stator and suction casing are held together by external tie rods (clamping screws). The suction casings are designed to have a particularly large flow section. The sizes 150 to 7800 are available of grey cast iron with staggered cleaning ports. The stator which is vulcanized into a tubular casing is provided at both ends with external collars vulcanized to it. These provide a safe seal from the suction casing and outlet section and also protect the stator casing against corrosion.

Between the suction casing and bearing housing is situated an interchangeable housing for a stuffing box or mechanical seal (pumps can be converted retrospectively to a different type of seal). The sealing housings (shaft seals) are easily accessible as the complete bearing bracket can be withdrawn from the drive shaft without any further disassembly of the pump.

The drive shaft is carried in bearings in the bearing housing. The drive torque is transmitted to the rotor via the drive shaft and a coupling rod. The coupling rod terminates at both ends in universal joints which are encapsulated to form a liquid-tight seal. These pin-type universal joints are of particularly simple and rugged design and are able to withstand the eccentric movement of the rotor without any difficulty.

Shaft seals
Shafts are sealed by uncooled, cooled or heated stuffing boxes or uncooled or cooled non-balanced single or double-acting mechanical seals which require no maintenance.

The material pairings and designs are adapted to suit the particular operating conditions. For further details, see pages 4, 5.

In any given size of pump, the housings for the various types of stuffing boxes or mechanical seals are interchangeable with one another. The various parts of the housings for mechanical seals form a modular system and can be combined with one another without any difficulty should the pump be converted to a different type of mechanical seal.

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

For further details, see pages 4, 5, 6 and 7.

Technical characteristics
The output, permitted speed range and drive power required can be taken from the selection chart on page 3 or from the separate individual pump characteristics.

				AED2N
Flow rate	Q	l/min	up to	7500
Temperature of liquid pumped	t	°C ①	up to	150
Differential pressure two stage	Δp	bar ④	up to	16
Pump discharge pressure	p_d	bar ②	up to	16
Suction obtainable	p_s	bar ③	up to	0.95
Viscosity	η	mPa·s	up to	225,000 ③
Permissible solids content		% by 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. permissible grain sizes and fiber lengths

Pump size		38	75	150	300	560
max. grain size	mm	3	4	5	6.3	8
max. fiber length	mm	42	42	48	60	79

Pump size		1200	2300	4250	7800
max. grain size	mm	10	12.5	16	20
max. fiber length	mm	98	130	210	250

Increases in solid content and grain size mean that the speed of the pump must be reduced.

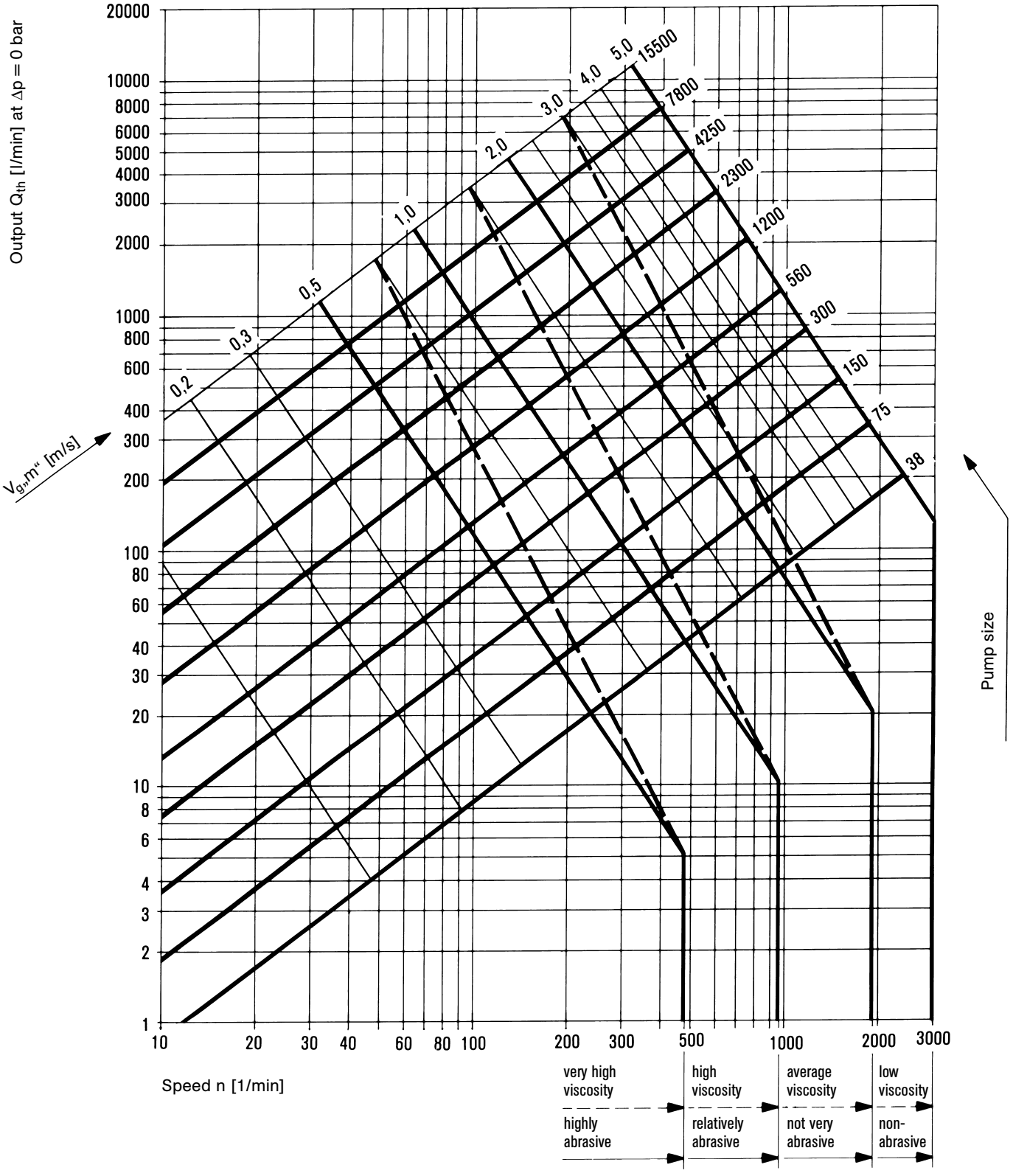
① Depending on the liquid pumped and the elastomers used.
② Depending on the sense of rotation and inlet pressure.
③ Depending on the pump size/design, speed and liquid pumped.
④ 12 bar for shaft with shaft wear sleeve.

Drivers
For possible types of drive see page 12.
Drivers produced by any manufacturer can be used. Technical characteristics and dimensions should be taken from the documentation issued by the manufacturer.

Installation
AED pumps may be installed horizontally or vertically. Vertical installation with the shaft down is not permissible.

The pump and driver are connected together via a flexible coupling or an intermediate transmission (generally a V-belt drive) and are mounted on a common base plate. Dimensions of assemblies available on request.

Performance chart
To give a rough indication of the appropriate pump size and speed as a function of the required output and the nature of the liquid to be pumped. V_g„m“ = mean rubbing speed of rotor in stator.



Sizes in AED2N series. Information on performance ranges not covered by the AED2N series can be found on the back cover of this brochure or in the separate brochures dealing with the other series.
For exact performance data, see the individual pump characteristics.

Type coding

Material code
Design features (geometry)
Type series

①	②	③	④	⑤		⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
AED	2	N	300	–	ID	/	2	3	2	P	0	1			NC	1	1	2	V	V	6230
AED	2	N	560	–	ID	/	1	1	1	G	0	D	D	1	ZS	4	2	3	P	P	6ATTV/2P

Product
Number of stages
Mechanical execution
Size
Design
Bearing design
Type of inlet/outlet connections
Branch position
Design of shaft seal
Type of shaft
Type of shaft seal
Heating/cooling jackets
Items jacketed
Design options
Suction and delivery casing, wetted, material
Drive shaft, joint shaft, wetted, material
Rotor material
Stator material
Material of cover sleeves
Shaft seal materials

6ATTV/2P

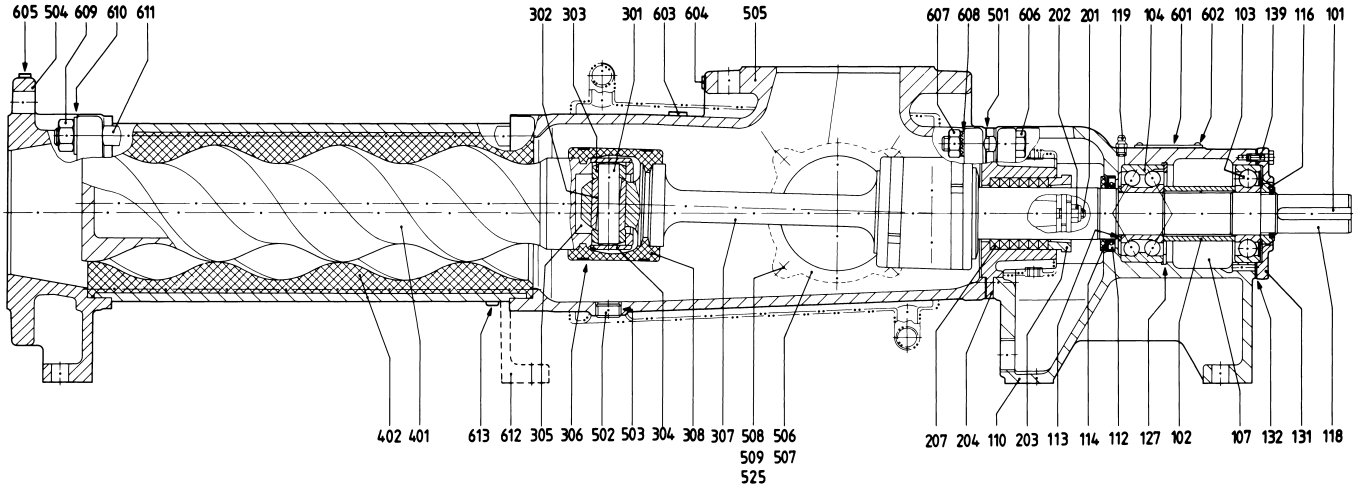
Example: double-acting mechanical seal
- Sliding material pairing, product-side
- Springs and body materials
- Auxiliary gaskets, product-side
- Sliding material pairing, atmospheric side
- Auxiliary gaskets, atmospheric side

Explanatory notes on the type coding:

Position in type code	Designation	Design
①	Product	ALLWEILER eccentric screw pump – three-spindle
②	Number of stages	2 = two stage up to $\Delta p = 16$ bar
③	Mechanical execution	N = rated for $\Delta p = 16$ bar
④	Size	Possible sizes: 38, 75, 150, 300, 560, 1200, 2300, 4250, 7800 The numbers indicate the theoretic flow rate in l/min with $n = 400$ 1/min and $\Delta p = 0$ 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 lip seal. Both bearings regreasable. For horizontal installation 2 = hose-proof, radial bearing on both sides with sealing washer, axial bearing pump-side with lip seal. Axial bearing regreasable, radial bearing lifetime-lubricated. For vertical installation with shaft upwards
⑦	Type of inlet/outlet connection	1 = DIN flanges 3 = ANSI flanges X = Special-type flanges } according to dimensional drawing, pages 9 and 10
⑧	Branch position	1, 2, 3, 4 – For the positions, please see drawing on page 9. Position 3 for size 38.2 not possbile.
⑨	Design of shaft seal	P = Stuffing box or other non-mechanical shaft seal G = Mechanical seal (mechanical shaft seal)
⑩	Type of shaft	0 = Shaft without shaft wear sleeve 1 = Shaft with shaft wear sleeve (only up to max. $\Delta p = 12$ bar) not possible with pump size 38.2.
⑪	Type of shaft seal	Stuffing boxes P01/P11 = Stuffing box of standard design (without lantern ring / without sealing flushing ring) P02/P12 = Stuffing box with flushing ring P03/P13 = Stuffing box with internal lantern ring P04/P14 = Stuffing box with external lantern ring P0X/P1X = Non-mechanical shaft seal of special design

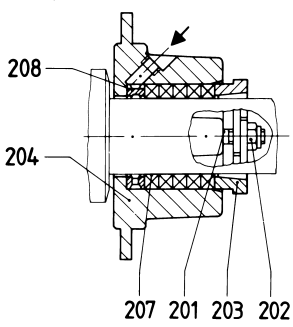
⑪	Type of shaft seal continued X = design possible	Mechanical seals								
		for pump sizes	38	75	150	300	560	1200	2300	4250	7800
		Shaft diameter at the location of the shaft seal	25①	30	35	43	53	60	75	90	110
		G0K/G1K = individual mechanical seal, DIN 24 960, design K, shape U	X①	X	X	X	X	X	X	X	②
		G0N/G1N = as above, however design N	X①	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	X①	X	X	X	X	X	X	X	②
		G0T/G1T = as above, however design N	X①	X	X	X	–	X	X	–	–
		G0Q/G1Q = individual mechanical seal, DIN 24 960, design K, shape U with quench	X①	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 wear sleeve ② please contact manufacturer for seal execution									
⑫	Heating/cooling jackets	D = Jackets for heating or cooling. Available with stainless steel versions only. Threaded connections for liquid injections. Max. pressure of heating/cooling liquid 6 bar, max. heating temperature +150°C, max. cooling temperature −40°C									
⑬	Items jacketed	1 = Suction casing jacketed 2 = Stuffing box P01/P11 jacketed 12 = Suction housing and stuffing box P01/P11 jacketed X = Special design for other jackets									
⑭	Design options	Stators (all elastomers) N, M, H, T: Rotor with temperature play as a function of the temperature of the fluid pumped									
		J = Rotor hollow C = Rotor hard-chrome-plated Y = Rotor ductile hard-chrome-plated Z = Rotor spray metal-coated S = Auger on coupling rod W = Coupling rod with large diameter sleeve X = Other designs									
⑮	Suction and delivery casing, wetted, material	1 = cast iron EN-GJL-250 3 = cast iron EN-GJL-250, hard rubber lined 4 = 1.4408/1.4571 A = 1.4462 X = Special materials									
⑯	Drive shaft, joint shaft, wetted, material	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 material	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 material	WB = Soft natural rubber/ butadiene (NR/BR) P = Perbunan N (NBR) Y = Hypalon (CSM) V = Viton (FPM) HP = Perbunan/ hydrogenated (HNBR) SL = Silicon light (MVQ) PU = Polyurethan E = EPDM X = Special materials									
⑲	Material of cover sleeves	P = Perbunan N (NBR) PL = Perbunan light (NBR) N = Neoprene (CR) Y = Hypalon (CSM) V = Viton (FPM) B = Butyl rubber (IIR) X = Special materials									
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 agent, asbestos-free									
		Mechanical seal:									
		Sliding material pairing	Spring and constr. materials	Auxiliary gaskets							
		1st point for single gasket 1st + 4th point for double gasket	2nd point	3rd point for single gasket 3rd + 5th points for double gasket							
		2 = CrMo cast iron/hard carbon 4 = Ceramics/hard carbon 5 = Hard metal/hard metal, highly wear-resistant 6 = Silicon carbide/silicon carbide highly wear-resistant, corrosion-resistant 7 = Silicon carbide/silicon carbide highly wear-resistant, highly corrosion-resistant X = Special materials	A = 1.4300 F = 1.4571 L = Hastelloy B M = Hastelloy C4 X = Special materials	P = Perbunan E = EP rubber S = Silicon rubber N = Neoprene V = Viton TTE = EP rubber ① TTV = Viton ① TTS = Silicon rubber ① X = Special materials	① double PTFE-coated						

Sectional drawing and parts list



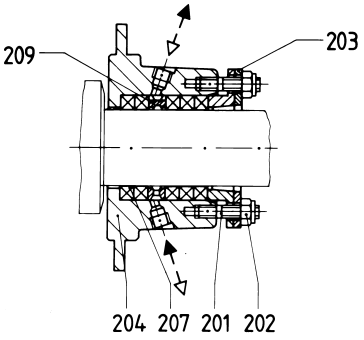
Bearing **1**: Hose-proof, radial bearing on drive-side with sealing washer; axial bearing on pump-side with lip seal. Both bearings regreasable. For horizontal installation only.

Shaft seal **P01**: Particularly long packing allows use in a wide variety of applications. Permissible pressure at the shaft seal p = −0,7 to 16 bar.



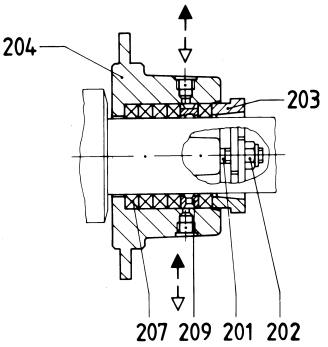
P02 Stuffing box with flushing ring

Suitable for highly abrasive liquids, with external flushing
p = −0,7 to 12 bar



P03 Stuffing box with internal lantern ring

Suitable for uncontaminated liquids with internal liquid sealing or for abrasive liquids with external flushing
p = −0,8 to 6,0 bar



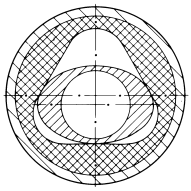
P04 Stuffing box with external lantern ring

For use where the external flushing liquid is not compatible with the pumped liquid or where the ingress of air is to be prevented
p = −0,9 to 12 bar

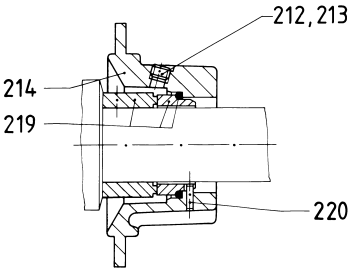
Part No.	Denomination
101	Key
102	Spacer sleeve
103	Radial bearing
104	Axial bearing
107	Bearing grease
110	Bearing housing
112	Lip seal
113	Spacer ring
114	Thrower
115	O-ring
116	Bearing nut
118	Drive shaft
119	Grease nipple

Part No.	Denomination
127	Retaining circlip
129	Distance ring
131	Bearing cover
132	Gasket
139	Hexagon head bolt
201	Stud
202	Self-locking nut
203	Gland half
204	Stuffing box housing
206	Shaft wear sleeve
207	Stuffing box packing
208	Flushing ring
209	Lantern ring

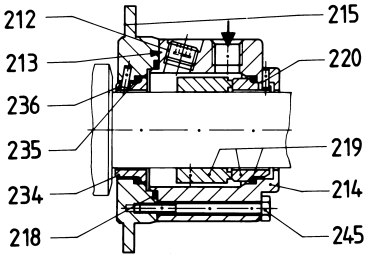
Part No.	Denomination
212	Screwed plug
213	Sealing tape
214	Mechanical seal housing
215	Mechanical seal cover
218	O-ring
219	Mechanical seal
220	Retaining pin
232	Lip seal
234	Throat bushing
235	O-ring
236	Retaining pin
245	Hexagon head bolt
251	Sealing compound



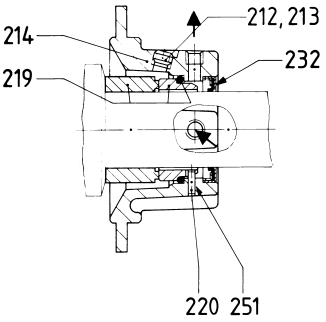
Geometry of pump elements
series AED2N



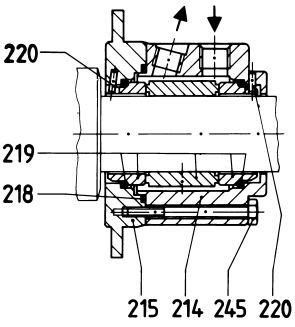
G0K/G0N Single acting mechanical seal, DIN 24 960, K/N design, U shape.
For application details consult manufacturer
p = –0,5 to 16 bar



G0S/G0T Single acting mechanical seal, DIN 24 960, K/N design, U shape, rotating part with integrated locking device, with flushing liquid connection and pump-side throat bushing.
For application details consult manufacturer
p = –0,5 to 16 bar



G0Q Single acting mechanical seal, DIN 24 960, K design, U shape, with quench.
For application details consult manufacturer
p = –0,5 to 16 bar



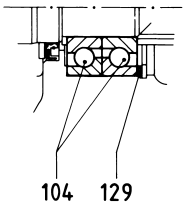
G0D Double acting mechanical seal, with sealing liquid connection.
For application details consult manufacturer
p = –0,95 to 16 bar

Part No.	Denomination
301	Coupling rod pin
302 ①	Coupling rod bush
303	Guide bush
304	Retaining sleeve
305	Joint grease
306	Clamping band
307	Coupling rod
308	Cover sleeve
401	Rotor
402	Stator
501	Suction casing gasket
502	Screwed plug
503	Sealing tape

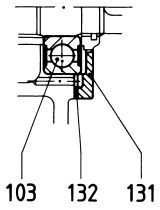
Part No.	Denomination
504	Discharge casing
505	Suction casing
506	Suction casing cover
507	Gasket
508	Stud
509	Hexagon nut
525	Washer
601	Name plate
602	Dome-headed grooved pin
603	Instruction label for commissioning
604	Suction label
605	Discharge label

Part No.	Denomination
606	Hexagon head bolt
607	Hexagon nut
608	Locking washer
609	Hexagon nut
610	Washer
611	Tie rod
612	Supporting foot
613	Hexagon head bolt

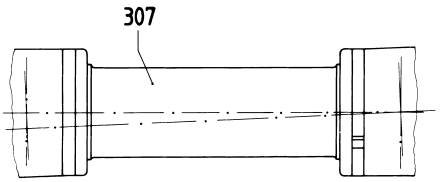
① not applicable for size 38



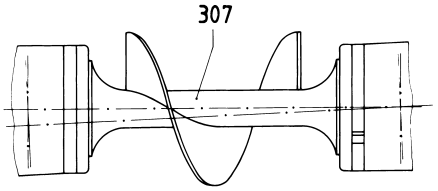
Bearing design **1** and **2:** for size AED2N 1200 and above axial bearing with two single-row angular contact ball bearings



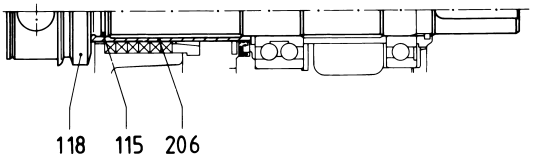
Radial bearing design in case of bearing **2** (for vertical installation with shaft upwards only)



Coupling rod with large diameter sleeve (to minimize rag build-up)

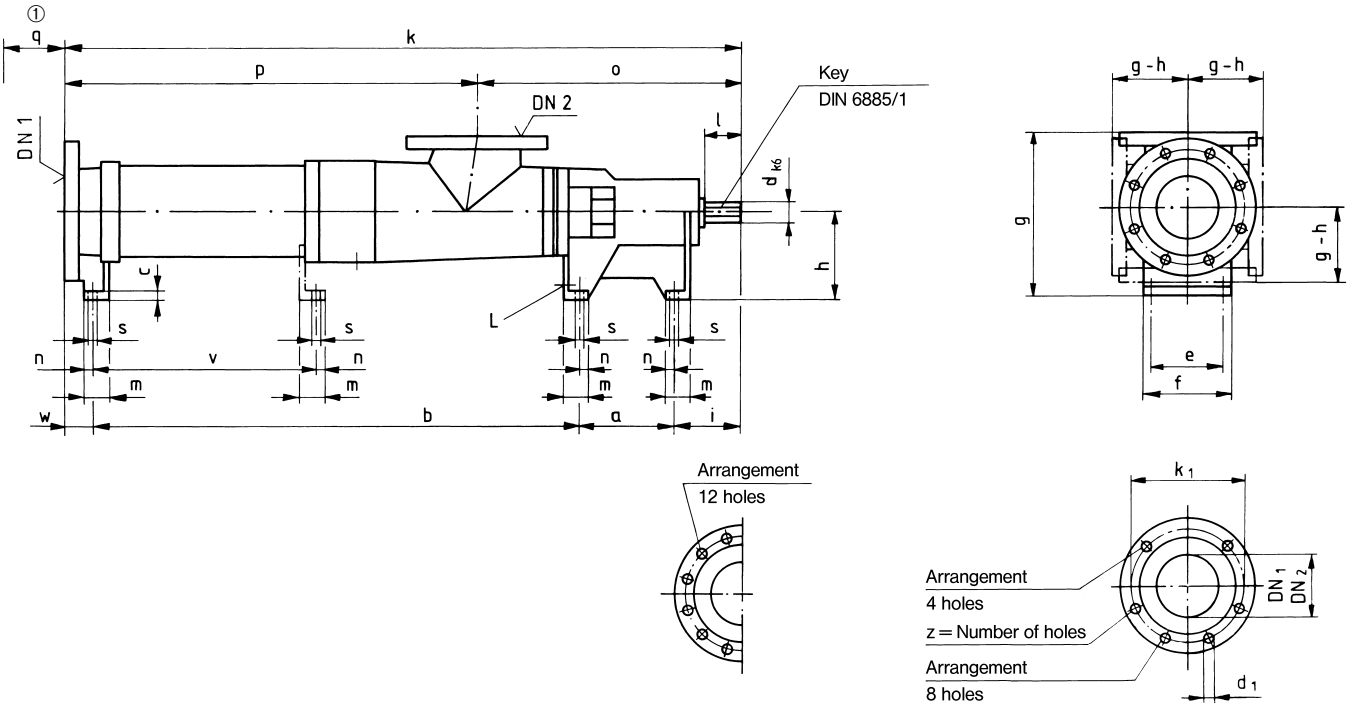


Auger on coupling rod



Shaft with shaft wear sleeve from size AED2N 75 and above for all shaft seal designs possible

Pump dimensions, auxiliary connections, possible branch positions, weights



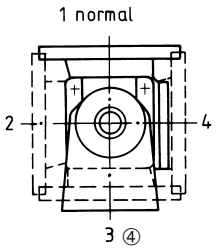
Dimensions in mm, nominal widths of ANSI flanges (DN) in inches. Subject to alteration.

Sense of rotation: normally counter-clockwise as seen from the, driving side with DN_1 = outlet branch, DN_2 = suction branch, change of rotation possible, then, DN_1 = suction branch, DN_2 = outlet branch

Series Size	Pump dimensions																Max. weight kg
	a	b	c	d	e	f	h	i	l	m	n	o	① q	s	L	v	
AED2N 38-ID	114	530	10	18	75	95	90	65	30	30	11	273	230	9	Rp $^3/_8$	–	20
AED2N 75-ID	122	650	10	22	85	105	100	79	40	30	11	309	305	9	Rp $^3/_8$	–	30
AED2N 150-ID	140	820	13	28	100	125	125	95	50	38	13	371	395	11,5	Rp $^1/_2$	–	53
AED2N 300-ID	151	991	15	32	114	140	140	106	60	40	14	411	500	14	Rp $^3/_4$	–	78
AED2N 560-ID	171	1198	16	42	132	168	160	118	65	50	19	480	625	18	Rp $^3/_4$	–	128
AED2N 1200-ID	190	1517	16	48	164	200	180	130	75	50	19	532	830	18	Rp $^3/_4$	–	190
AED2N 2300-ID	220	1876	21	60	200	245	225	158	90	63	23	644	1040	22	Rp 1	1147	360
AED2N 4250-ID	266	2319	24	75	245	290	250	182	110	65	23	769	1270	22	Rp 1	1390	595
AED2N 7800-ID	320	2833	29	95	290	350	280	215	130	80	30	922	1540	27	Rp 1	1711	921

① Space required for stator replacement

Possible branch positions as seen from the drive



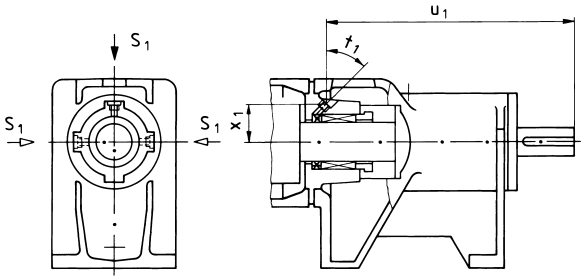
④ not for series/size AED2E 38-ID

Flange dimensions							
DIN 2501, PN 16 ⑤				ANSI B16.1/16.5, Class 125/150 ③			
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

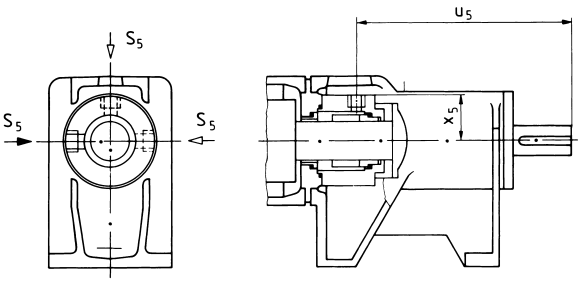
Series Size	Mating dimensions for suction and discharge connections																	
	Flanges DIN 2501, PN 16 ⑤						Flanges ANSI B16.1, Class 125 ③						Flanges ANSI B16.5, Class 150 ③					
	DN_1	DN_2	② k	② p	② w	② g	DN_1	DN_2	② k	② p	② w	② g	DN_1	DN_2	k	p	w	g
AED2N 38-ID	40	40	750	477	41	175	1 1/2	1 1/2	747	474	38	172	1 1/2	1 1/2	750	477	41	175
AED2N 75-ID	50	50	894	585	43	190	2	2	890	581	39	186	2	2	894	585	43	190
AED2N 150-ID	65	65	1095	724	40	230	2 1/2	2 1/2	1094	723	39	229	2 1/2	2 1/2	1099	728	44	234
AED2N 300-ID	80	80	1292	881	44	260	3	3	1290	879	42	258	3	3	1295	884	47	263
AED2N 560-ID	100	100	1528	1048	41	300	4	4	1530	1050	43	302	4	4	1530	1050	43	302
AED2N 1200-ID	125	125	1881	1349	44	350	5	5	1881	1349	44	350	5	5	1881	1349	44	350
AED2N 2300-ID	150	150	2307	1663	53	425	6	6	2307	1663	53	425	6	6	2307	1663	53	425
AED2N 4250-ID	200	200	2829	2060	62	485	8	8	2829	2060	62	485	8	8	2829	2060	62	485
AED2N 7800-ID	250	250	3443	2521	75	550	10	10	3443	2521	75	550	10	10	3443	2521	75	550

② Where rubber-lined + 3 mm
③ 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

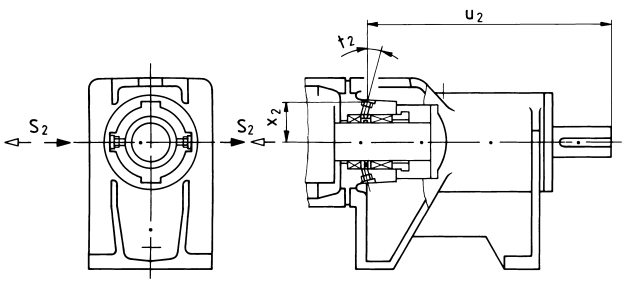
Position of auxiliary connections for shaft seals



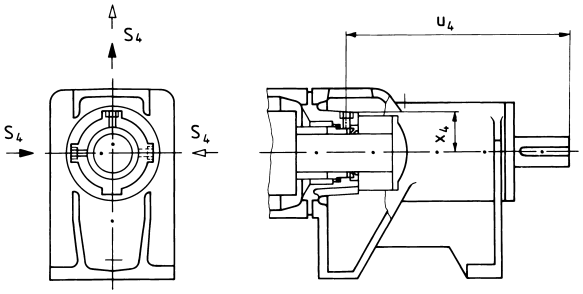
P02, P12 with flushing ring



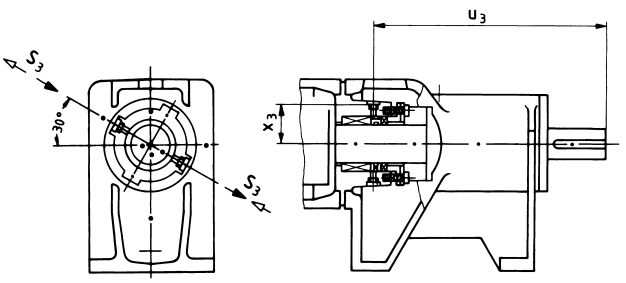
G0S/G0T, G1S/G1T with flushing connection



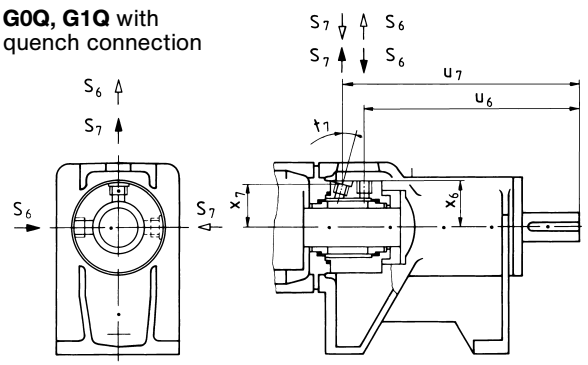
P03, P13 with internal lantern ring



G0Q, G1Q with quench connection



P04, P14 with external lantern ring



G0D, G1D with seal liquid connection

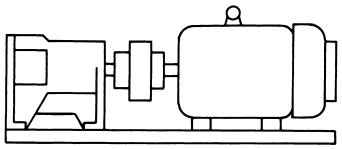
Series Size	Mating dimensions auxiliary connections for shaft seals										
	P02, P12 with flushing ring				P03, P13 with internal lantern ring				P04, P14 with external lantern ring		
	S_1 ⑥	u_1	x_1	t_1	S_2 ⑥	u_2	x_2	t_2	S_3 ⑥	u_3	x_3
AED2N 38-ID	M 8 x 1	195,5	28	42°	M 8 x 1	188	30	20°	M 8 x 1	180,5	30,5
AED2N 75-ID	M 8 x 1	217	31,5	40°	M 8 x 1	211	32	20°	M 8 x 1	202,5	33,5
AED2N 150-ID	Rp 1/8	255	38	42°	Rp 1/8	248	40	17°	Rp 1/8	236	39,5
AED2N 300-ID	Rp 1/8	279	42	42°	Rp 1/8	272	44	17°	Rp 1/8	261	43,5
AED2N 560-ID	Rp 1/8	316	52	42°	Rp 1/8	307	54	17°	Rp 1/8	292,5	54,5
AED2N 1200-ID	Rp 1/8	349	56	35°	Rp 1/8	338,5	57	13°	Rp 1/8	322,5	58
AED2N 2300-ID	Rp 1/4	416	67	35°	Rp 1/4	403	68,5	13°	Rp 1/4	383	69,5
AED2N 4250-ID	Rp 1/4	492	77	35°	Rp 1/4	474,5	79	13°	Rp 1/4	451	80
AED2N 7800-ID	Rp 1/4	588	94,5	35°	Rp 1/4	568,5	97	13°	Rp 1/4	542	97

Series Size	Mating dimensions auxiliary connections for shaft seals												
	G0S/G0T, G1S/G1T with flushing connection			G0Q, G1Q with quench connection			G0D, G1D with seal liquid 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
AED2N 38-ID	Rp 1/4	157	34	Rp 1/8	167	30,5	Rp 1/4	Rp 1/4	157	182,5	34	33	15°
AED2N 75-ID	Rp 1/4	179	38	Rp 1/8	187,5	30,5	Rp 1/4	Rp 1/4	179	204,5	38	36,5	15°
AED2N 150-ID	Rp 1/4	220,5	41,5	Rp 1/8	230	33,5	Rp 1/4	Rp 1/4	220,5	245,5	41,5	40	15°
AED2N 300-ID	Rp 3/8	241	48,5	Rp 1/8	255	41	Rp 3/8	Rp 3/8	241	266	48,5	47	15°
AED2N 560-ID	Rp 3/8	280	56	Rp 1/8	287	54	Rp 3/8	Rp 3/8	280	305,5	56	53,5	20°
AED2N 1200-ID	Rp 3/8	297	61	Rp 1/8	315,5	57,5	Rp 3/8	Rp 3/8	297	337,5	61	58,5	20°
AED2N 2300-ID	Rp 3/8	364	71,5	Rp 1/4	375,5	68,5	Rp 3/8	Rp 3/8	364	406	71,5	69	22°
AED2N 4250-ID	Rp 3/8	440,5	81	Rp 3/8	446	79	Rp 3/8	Rp 3/8	440,5	479,5	81	78,5	20°
AED2N 7800-ID	Rp 3/8	527	98	Rp 3/8	542	96	Rp 3/8	Rp 3/8	527	576	98	95,5	25°

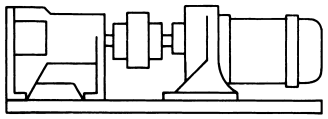
⑥ Threaded connection DIN 3852, shape Z

► Standard flow direction
▷ Possible flow direction, for these purposes, the seal housing must be turned in case of shaft seal types P02/P12, G0S/G1S, G0T/G1T, G0Q/G1Q, G0D/G1D.

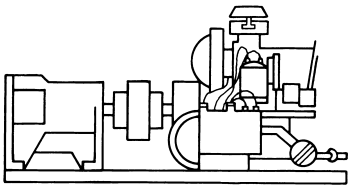
Driving possibilities



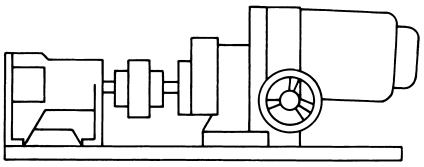
1 AED-ID with flexible coupling and electric motor



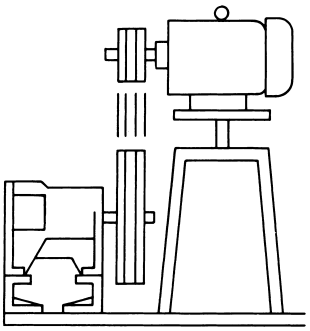
2 AED-ID with flexible coupling and geared motor



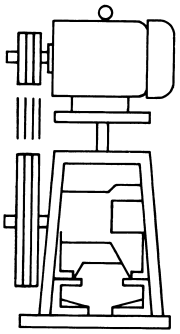
3 AED-ID with flexible coupling and internal combustion engine



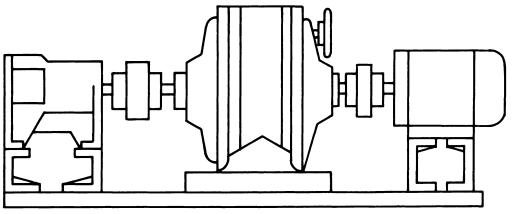
6 AED-ID with flexible coupling and infinitely variable speed drive



4 AED-ID with V-belt drive, adjustable motor platform and motor situated behind the pump



5 AED-ID with V-belt drive, adjustable motor platform and motor situated above the pump



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

Further drive options (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	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
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	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.

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