

SETP series eccentric screw pumps for vertical installation

Applications

For pumping neutral or corrosive liquids, uncontaminated or abrasive liquids, liquids containing gases or which tend to froth, and liquids of high or low viscosity, including liquids containing fibrous and solid material.

Principal fields of application

Waste Water and waste water treatment engineering, the chemical and petrochemical industry, the paper and cellulose industries, the soap and fats industry, the paint industry, the food and drinks industry, plastics industry, ceramics, agriculture, the sugar industry, shipbuilding etc.

Operation

Rotary self-priming, positive displacement pumps whose pumping elements are formed by a rotating eccentric screw (the rotor) and a fixed stator. In any cross-sectional plane, the elements are in contact with one another at two points and along the length of the elements these points form two 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 pressurising forces and thus guarantees a low surge pumping action which is not at all severe on the material being pumped.

Design features

The discharge casing, stator and suction cover are held together by external tie rods.

The stator, which is vulcanized into a tubular casing or a cast casing (uniform rubber wall thickness), is provided at both ends with external collars vulcanized to it, which provide a safe seal from the suction cover and discharge casing.

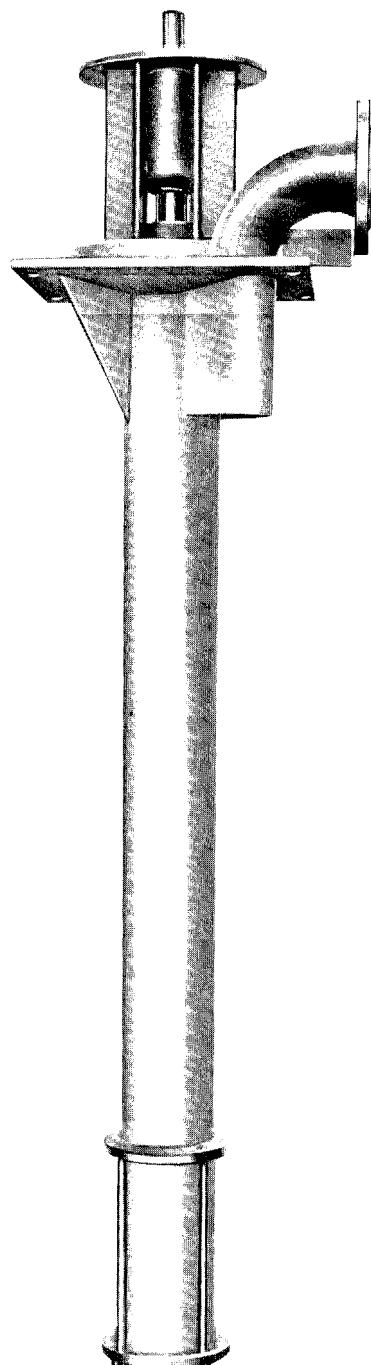
With stainless steel versions, the stator is also protected against external corrosion by a separate, sealed stator casing (with other materials available at extra charge).

The sizes 2700 and 5000 always have a stator of uniform rubber wall thickness.

For all pump sizes, the suction cover is designed in such a way that an inlet strainer can be added or a steady bracket (with/without inlet strainer) can be provided for the suction side of the pump (accessories available at extra charge).

Between the discharge casing and the 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 drive shaft is carried in bearings in the bearing housing. The drive torque is transmitted to the rotor via the drive shaft and the 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.



The standard installation depths and mounting flanges given in the table of dimensions (page 9) can be adapted to suit the customer's requirements in special cases.

Shaft seals/Shaft wear sleeves

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

The type of seal and the material pairings are adapted to suit the particular operating conditions which exist in any given case.

For further details see Page 5.

In any given size of pump, the housings for the various types of stuffing box or mechanical seal 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.

With all the types of seal the shaft can be supplied with or without a shaft wear sleeve at the point where the shaft seal is situated. For a given size of pump, one sleeve is used for all types of stuffing box and one sleeve for all types of mechanical seal.

Where shafts are fitted with shaft wear sleeves, a conversion from a stuffing box to a mechanical seal can easily be made by replacing the shaft wear sleeve and shaft sleeve and the seal housing without the need to modify the drive shaft.

Mechanical seals to DIN 24960 can be fitted.

For further details see pages 5, 6 and 7.

Leakage from the seal area is collected in a drip pan and can be drained externally or into the pump sump/reservoir.

Bearings

The drive shaft is carried in particularly rugged bearings. The bearings are situated in the bearing housing and consist of one radial bearing (a deep-groove ball-bearing) and one thrust bearing (a double-row angular contact ball-bearing) which are individually repackable.

For further details, see pages 4 and 6.

Replaceability of parts

The components for all our eccentric screw pumps are produced to a modular system. It is thus simple and inexpensive to maintain a stock of spares even where pumps of different designs belonging to different series are used in one and the same installation.

Installation

SETP pumps are installed vertically. The pump and driver are connected together via a flexible coupling and motor lantern or via an intermediate transmission (e.g. V-belt drive).

Depending on the installation depth and pump speed, it may be necessary to fit a steady bracket for suction-end guidance of the pump. It is designed to suit the structural conditions. Dimensions of assemblies available on request.

Drivers

For possible types of drive see page 11.

Drivers produced by any manufacturer can be used. Technical characteristics and dimensions should be taken from the documentation issued by the manufacturer.

Technical characteristics

The output and drive powers required can be taken from the selection chart on page 3 or from the individual pump characteristics.

See table below for maximum pump speeds with reference to pump size and installation depth.

Permissible casing pressure	10 bar	①
Maximum delivery pressure		
Single stage, sizes 50 to 1450	6 bar	
sizes 2700 to 5000	8 bar	①
size 9500		②
Two stage	10 bar	①
Suction obtainable	0.95 bar	③
Maximum permitted temperature for liquid pumped	150°C	④
Maximum permissible viscosity	300 000 mPa s	⑤
Maximum permissible solid content	60 % by volume	⑥

Vertically installed pumps for higher delivery pressures on request.

Maximum permitted grain sizes and fibre lengths:

Pump size	50	100	200	380	550	750
Max. grain size in mm	3	3.8	5	6.8	6.8	9.5
Max. fibre length in mm	42	48	60	79	79	98

Pump size	1000	1450	2700	5000	9500
Max. grain size in mm	9.5	14	20	25	②
Max. fibre length in mm	98	130	210	250	②

Reference table for maximum pump speeds (rpm) depending on pump size and installation depth:

	Installation depth T (mm)									
	800	1200	1600	2000	2400	2800	3200	3600	4000	
Pump size	50	850	850	850	850	830	720	620	530	460
	100	700	700	700	680	580	510	440	380	320
	200	-	600	550	480	410	360	310	270	230
	380	-	480	410	360	310	270	230	200	170
	550	-								
	750	-	330	280	250	210	185	160	140	120
	1000	-								
	1450	-	-	200	180	150	130	115	100	85
	2700	-	-	150	130	110	100	90	80	70
	5000	-	-	-	100	90	80	70	60	55
	9500									②

① Note also the permitted pressure for the shaft seal (see pages 6 and 7).

② On request.

③ Depending on operating conditions and number of stages.

④ Depending on the liquid being pumped and the elastomers used. Operating limits for cooling or heating of shaft seal available on request. For permitted pressures and temperatures of heating and cooling liquid, see page 10.

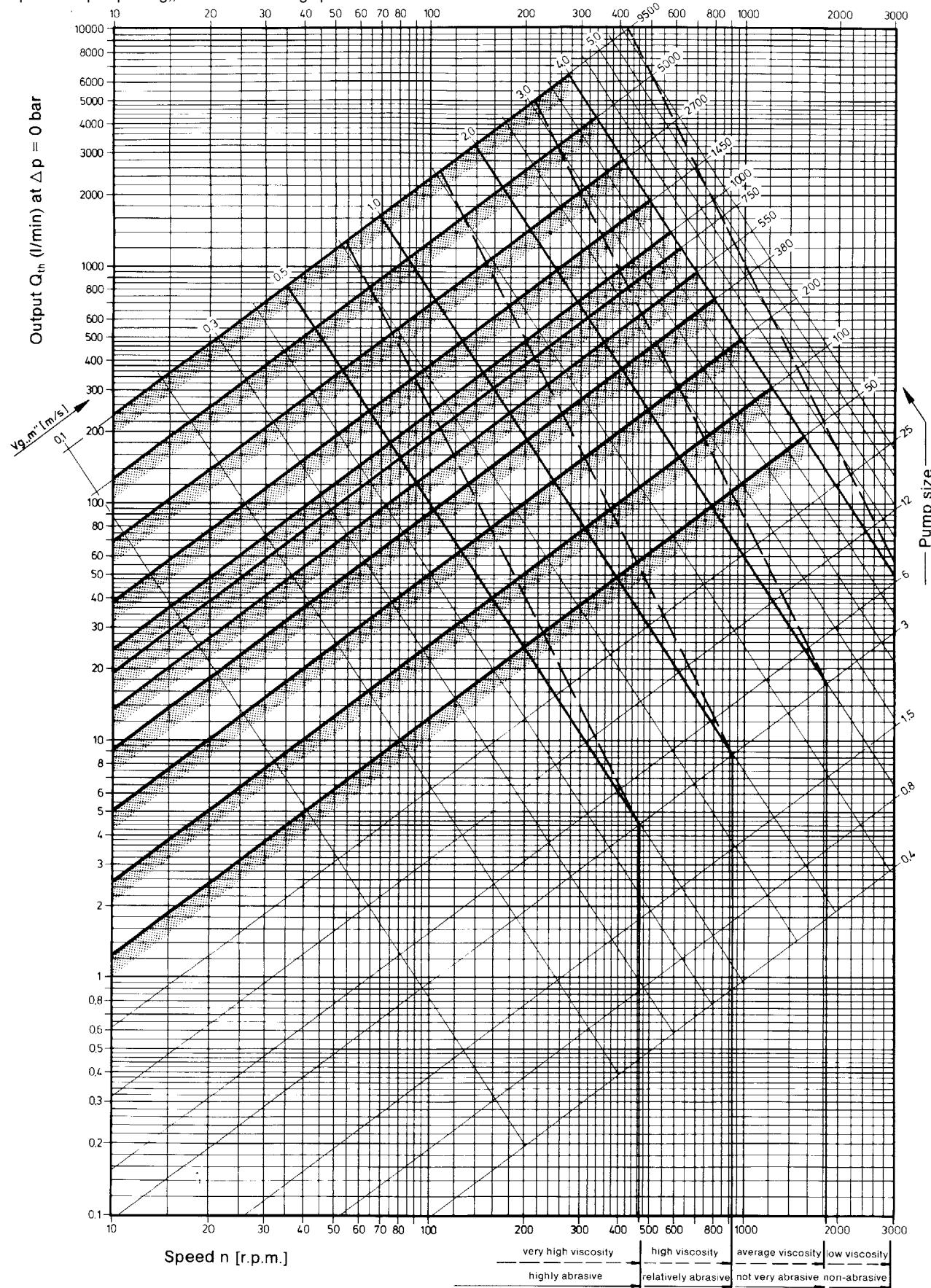
⑤ Depending on liquid being pumped, speed and pump size.

⑥ Depending on pump size and nature and size of solids.

⑦ Depending on site conditions, reduction may be necessary. When using steady brackets, higher speeds are possible in some cases (manufacturer must be consulted).

**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. $v_g, m/s$ = mean rubbing speed of rotor in stator.



Sizes in SETP Series. Information on performance ranges not covered by the SETP 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.

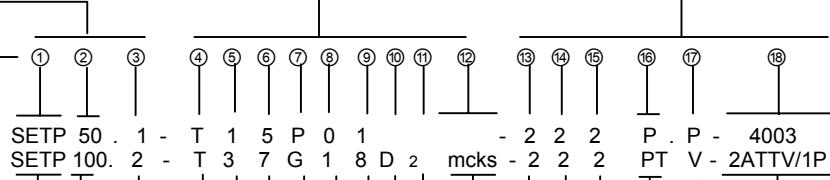
**Type coding**

Codes for materials _____

Design _____

Pump type number _____

Position in type coding _____



Series _____

Size _____

Number of stages _____

Bearings _____

Type of inlet/outlet connections _____

Design of mounting flange _____

Design of shaft seal _____

Type of shaft _____

Type of shaft seal _____

Heating/cooling jackets _____

Items jacketed _____

Rotor, rotating parts special treatment/types _____

Material of body parts _____

Material of rotating parts (not including rotor) _____

Rotor material _____

Stator material _____

Material of cover sleeves _____

Material of shaft seal _____

2ATTV/1P

Example: double-acting mechanical seal _____

Pairing of seal faces on medium side _____

Springs and body materials _____

Auxiliary seals on medium end _____

Pairing of seal faces on flushing side _____

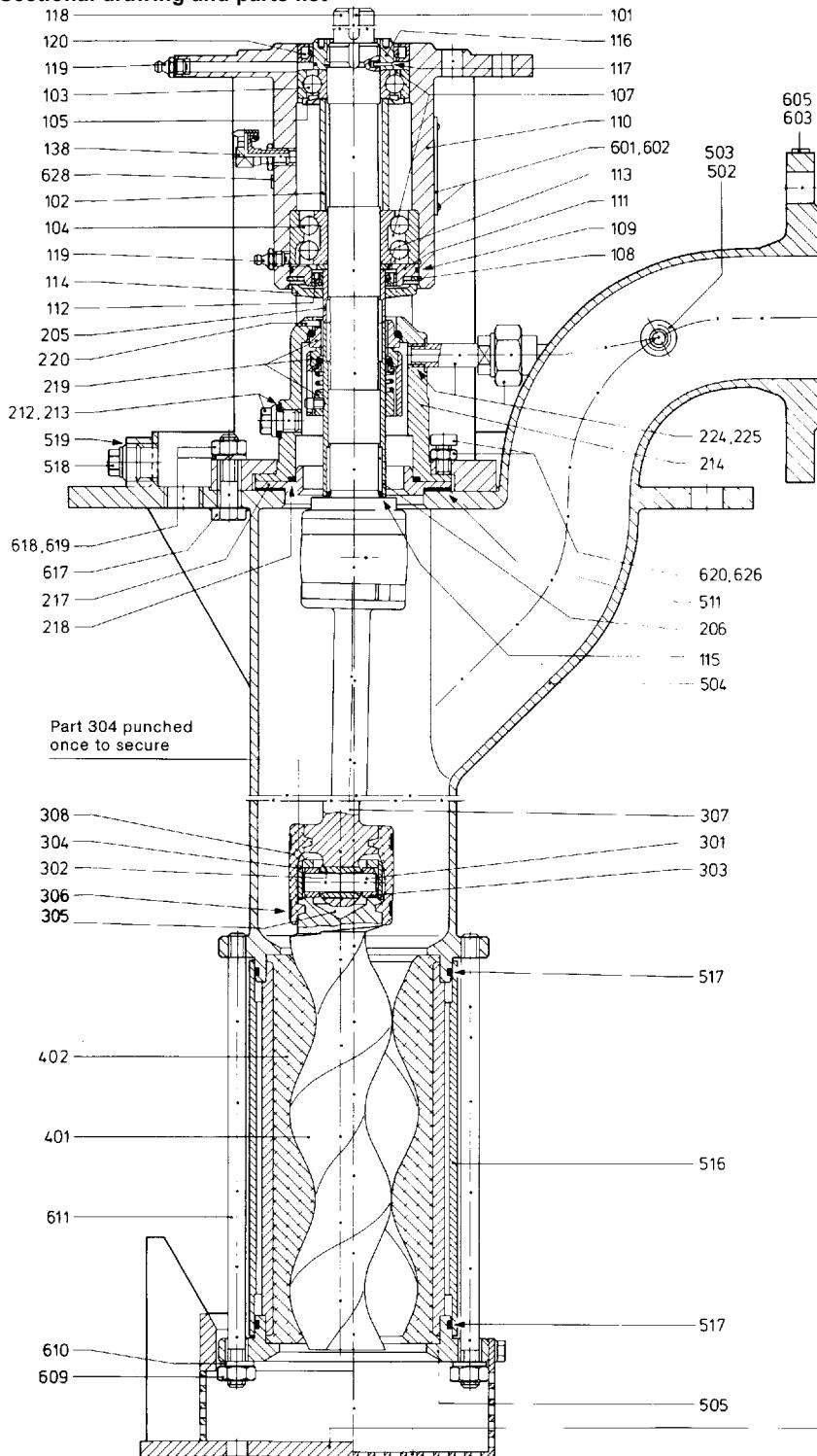
Auxiliary seals on flushing side _____

Explanatory notes on the type coding:

Position in type coding	Name	Explanation
①	Series	ALLWEILER eccentric screw pump
②	Size	Possible sizes: 50, 100, 200, 380, 550, 750, 1000, 1450, 2700, 5000, 9500 The numbers indicate the theoretical output in l/min. at n = 400 r.p.m. and Δp = 0 bar
③	Number of stages	1 = Single-stage up to 6 bar (size 50 to 1450); up to 8 bar (size 2700 and 5000) 2 = Two-stage up to 10 bar (sizes 550, 1000, 2700, 5000 and 9500 only available as single-stage pumps)
④	Bearings	T = Radial bearing with sealing cover on pump side and lip seal on drive side. Axial bearing with lip seal on pump side and grease quantity controller on drive side. Both bearings are regreaseable X = Special-type bearings
⑤	Type of outlet connections	1 = DIN-Flanges 3 = ANSI-Flanges X = Special Type Flanges
⑥	Design of mounting flange	5 = Standard, squared 6 = Small, squared 7 = circular X = Special type mounting flange (e.g. with machined contact surface)
⑦	Type of shaft seal	P = Stuffing box or other non-mechanical shaft seal G = Mechanical seal
⑧	Design of shaft seal	0 = No wear sleeve on shaft (special execution) 1 = Shaft fitted with wear sleeve

⑨	Type of shaft seal	P.1 = Standard stuffing box (no lantern ring / no flushing ring) P.2 = Stuffing box with flushing ring P.3 = Stuffing box with internal lantern ring P.4 = Stuffing box with external lantern ring P.X = Special type of non-mechanical shaft seal G.0 = Mechanical seal, single acting, non-balanced, either direction of rotation, single spring, elastomer O-rings ¹⁾ G.1 = As for G.0 but with multiple springs ¹⁾ G.2 = As for G.0 but O-rings with double PTFE sheathing ¹⁾ G.3 = As for G.1 but O-rings with double PTFE sheathing ¹⁾ G.4 = As for G.0 but with throttled outlet for flushing liquid into pump chamber G.5 = As for G.4 but with multiple springs G.6 = As for G.4 but O-rings with double PTFE sheathing G.7 = As for G.5 but O-rings with double PTFE sheathing G.8 = Mechanical seal, double-acting, non-balanced, either direction of rotation, with multiple springs, all O-rings of elastomer or O-rings on medium side with double PTFE sheathing and elastomer O-rings on flushing liquid side G.9 = As for G.8 but all O-rings with double PTFE sheathing G.X = Special-type mechanical seal 1) with vent line to outlet connection, only for shaft seal design G.0, G.1, G.2, G.3		
⑩	Heating/cooling jacket	D = Jacket for heating or cooling		
⑪	Items jacketed	2 = Stuffing box housing X = Special version for extra jacketing		
⑫	Rotor/Rotating parts special treatment/types	m = Rotor with moderate thermal expansion clearance (standard stator) h = Rotor with high thermal expansion clearance (standard stator) e = Rotor with moderate thermal expansion clearance (stator with uniform rubber wall thickness) f = Rotor with high thermal expansion clearance (stator with uniform rubber wall thickness) c = Hard-chromed rotor k = Shaft or shaft wear sleeve ceramic coated s = Auger on coupling rod w = Coupling rod with large diameter sleeve (to minimise rag build-up) g = Stator with uniform rubber wall thickness x = Other types		
⑬	Material of body parts	1 = St 35/St 37 2 = 1.4301 4 = 1.4571 x = Special material		
⑭	Material of rotating parts(not including rotor)	1 = 1.4021/1.4301 2 = 1.4301 4 = 1.4571 x = Special materials, e.g. also for joint components		
⑮	Rotor material	2 = 1.4301 3 = 1.2436 4 = 1.4571 x = Special materials, e.g. other metals, plastics		
⑯	Stator material	W = Soft natural rubber P = Perbunan N L = Light-coloured Perbunan N = Neoprene Y = Hypalon V = Viton B = Butyl rubber T = Thiokol VU = Vulkollan PA = Polyamide pp = Polypropylene PT = PTFE reinforced ME = Cast Meehanite X = Special materials, e.g. metal plastics, elastomers		
⑰	Material of universal joint sleeves	P = Perbunan N L = Light-coloured Perbunan N = Neoprene Y = Hypalon V = Viton B = Butyl rubber T = Thiokol O = No sleeves fitted X = Special materials		
⑱	Materials of shaft seal	Stuffing boxes: 3207 mo = White asbestos packing, molycoated 4003 = Light-coloured cotton packing, tallowed 3207 mol = Oil packing 3235 = PTFE/white asbestos packing 3326/D/SA = PTFE/blue asbestos packing, solvent packing 6426 = Araflon packing X = Other Packing materials Mechanical seals: Seal faces	Spring and body materials	Auxiliary seals
		1st figure with single seals 1st and 4th figures with double seals	2nd figure	3rd figure with single seals, 3rd and 5th figure with double seals
		1 = Cast Cr steel/hard carbon 2 = Cast CrMo steel/hard carbon 3 = Armoured CrNiMo steel/hard carbon 4 = Ceramic/hard carbon 5 = Carbide/Carbide highly wear-resistant 6 = Carbide/Carbide corrosion resistant 7 = Carbide/Carbide highly corrosion resistant x = Special materials	A = 1.4300 F = 1.4571 L = Hastelloy B M = Hastelloy C X = Special materials ① With double	P = Perbunan E = EP rubber S = Silicone rubber N = Neoprene V = Viton TTE = EP rubber ① TTV = Viton ① TTS = Silicone rubber ① X = Special materials

Sectional drawing and parts list



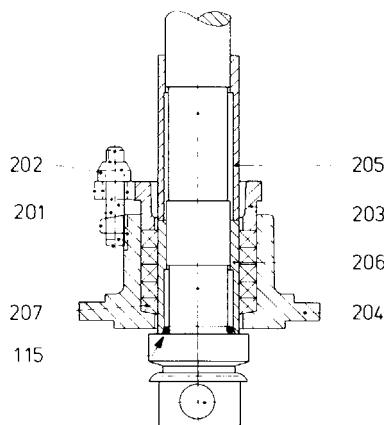
Bearings: T (repackable)

Shaft seal:

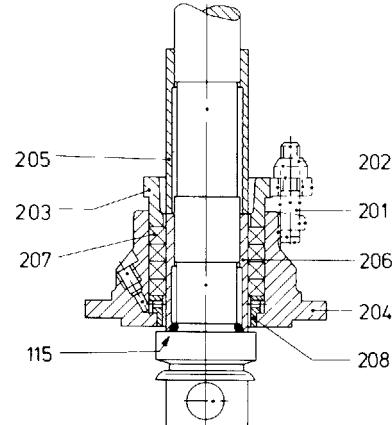
G10 to G13 Mechanical seal,
single acting, non-balanced,
either direction of rotation,
with shaft wear sleeve (type G12
shown in drawing). With vent line
to outlet connection ④

G00 to **G03** as **G10** to **G13** but
without shaft wear sleeve.
For pressures up to 10 bar
Consult manufacturer.

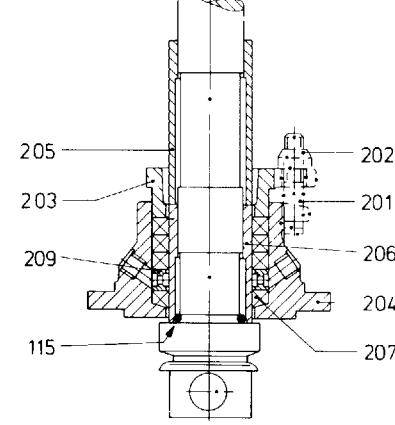
Part No.	Description	Part No.	Description	Part No.	Description
101	Key	117	Tab Washer for bearing nut	213	Sealing ring
102	Spacer sleeve	118	Drive shaft	214	Mechanical seal housing
103	Radial bearing	119	Grease nipple	215	Mechanical seal cover
104	Axial bearing	120	Lip-seal, drive side	216	Clamping ring
105	Nilos ring	138	Grease quantity controller	217	Locating ring
107	Bearing grease	201	T-head bolt	218	O-ring
108	Retaining circlip	202	Self-locking nut	219	Mechanical seal
109	O-ring	203	Packing gland	220 ②	Retaining pin
110	Bearing housing	204	Stuffing box housing	224 ④	Vent line for mechanical seal
111	Bearing cover	205①	Shaft sleeve	225 ④	Sealing compound
112	Lip seal, pump side	206①	Shaft wear sleeve	301	Coupling rod pin
113	Spacer ring	207	Stuffing box packing	302	Coupling rod bush
114	Flinger ring	208	Flushing ring	303	Guide bush
115①	O-ring	209	Lantern ring	304	Retaining sleeve
116	Bearing nut	212	Screwed plug	305	Joint grease

**P11** Stuffing box of standard type (no lantern ring/no flushing ring) with shaft wear sleeve.

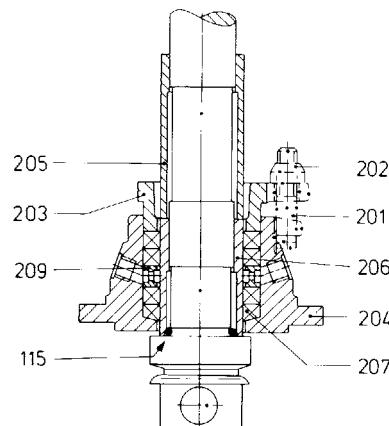
P01 as **P11**, but without shaft wear sleeve.
Particularly long packing allows pump to be used in a wide variety of applications.
Permitted pressure at shaft seal $p = \text{up to } 4.0 \text{ bar}$.

**P12** Stuffing box with shaft wear sleeve and flushing ring, as **P12**, but without shaft wear sleeve ①.

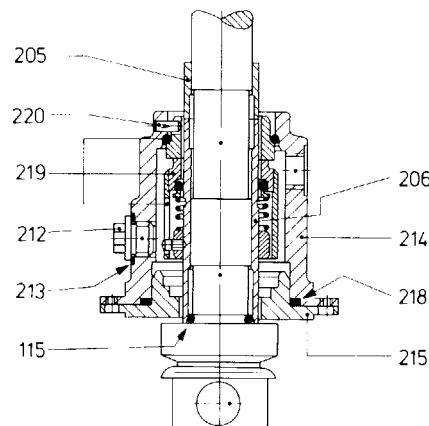
Suitable for highly abrasive pumped liquids with external flushing.
 $p = \text{up to } 4.0 \text{ bar}$

**P13** Stuffing box with shaft wear sleeve and internal lantern ring.

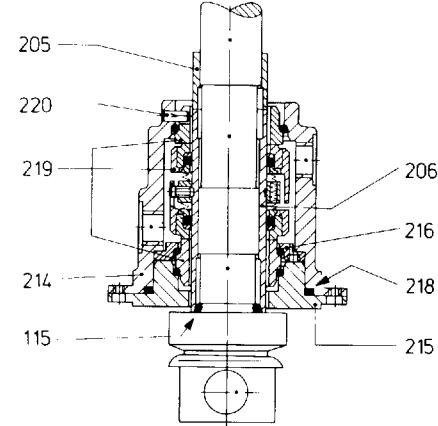
P03 as **P13**, but without shaft wear sleeve ①.
Suitable for abrasive pumped liquids with external liquid sealing $p = \text{up to } 4.0 \text{ bar}$.

**P14** Stuffing box with shaft wear sleeve and external lantern ring.

P04 as **P14**, but without shaft wear sleeve ①.
For use where external sealing liquid incompatible with pumped liquid.
 $p = \text{up to } 3.0 \text{ bar}$.

**G04** as **G17** Mechanical seal, single acting, non-balanced, either direction of rotation, with shaft wear sleeve and throttled outlet for seal liquid into pump chamber (type G16 shown in drawing).

G04 to **G07** as **G14** to **G17**, but without shaft wear sleeve ①.
 $p = \text{up to } 10 \text{ bar}$.
Consult manufacturer.

**G18** as **G19** Mechanical seal, double acting, non-balanced, either direction of rotation, with shaft wear sleeve.

(type G19 shown in drawing).
G08 and **G09** as **G18** and **G19** but without shaft wear sleeve ①.
 $p = \text{up to } 10 \text{ bar}$.
Consult manufacturer.

Part No.	Description	Part No.	Description
306	Clamping band	602	Dome headed grooved pin
307	Coupling rod	603	Instruction label for commissioning
308	Cover sleeve	605	Discharge label
401	Rotor	609	Hexagon nut
402	Stator	610	Washer
502 ④	Screwed plug	611	Tie rod
503 ④	Sealing ring	617	Hexagon head bolt
504	Discharge casing	618	Hexagon nut
505	Suction cover	619	Lock washer
211	Discharge casing gasket	620	Hexagon socket screw
516 ④	Stator casing	626	Hexagon nut
517 ④	O-ring	628	Instruction label grease quantity controller
518	Drain plug		
519	Sealing compound		
601	Name plate		

① Parts 115, 205 and 206 not fitted to the P0 and G0 types (without shaft wear sleeve special execution).

② Only fitted to types G02, G03, G06, G07, G09, G12, G13, G16, G17 and G19.

③ Only with stainless steel versions (with other materials, available against extra charge).

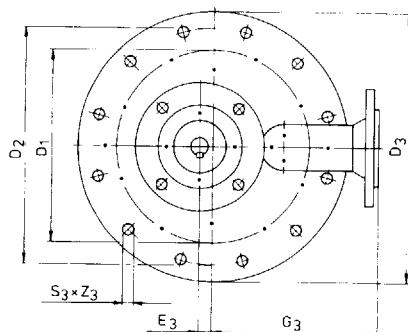
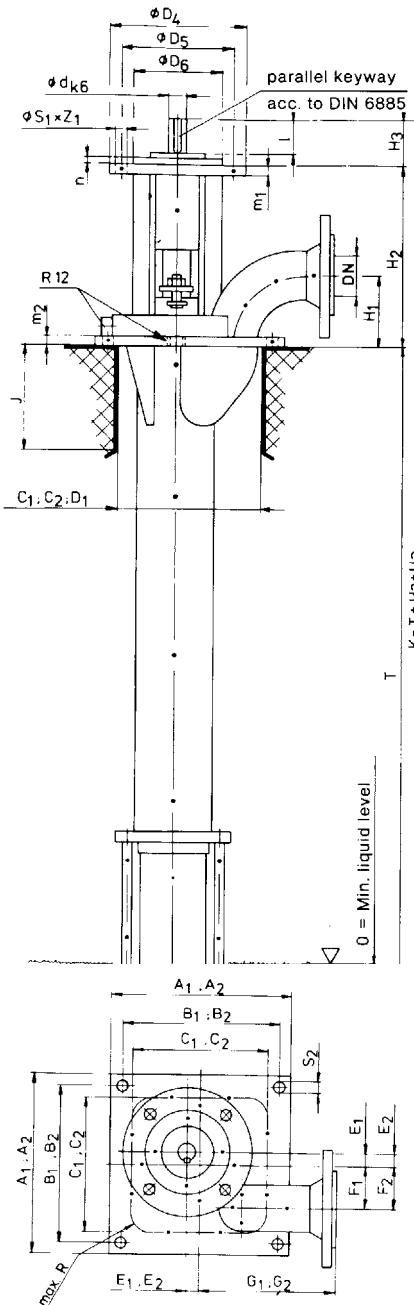
④ Only fitted to types G10 to G13 and G00 to G03.

⑤ Only fitted to types P01 to P04, P11 to P14, G04 to G09 and G14 to G19.



Pump dimensions

Dimensions in mm. Internal diameter of ANSI flanges (DN) and threaded connections in inches.
The manufacturers reserve the right to make technical modifications without prior notice.

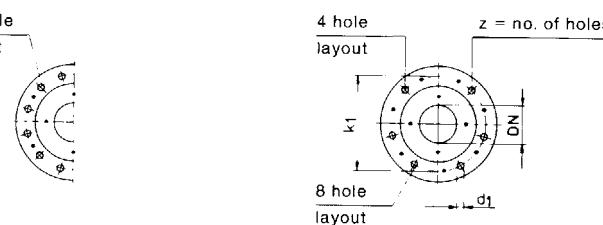


Size	Mating dimensions for delivery connection DIN 2633, PN 16				
	DN	k ₁	d ₁	z	for mounting flange
50.1	50	125	18	4	188
50.2	50	125	18	4	188
100.1	65	145	18	4	225
100.2	65	145	18	4	225
200.1	80	160	18	8	265
200.2	80	160	18	8	265
380.1	100	180	18	8	315
380.2	100	180	18	8	315
550.1	100	180	18	8	315
750.1	125	210	18	8	386
750.2	125	210	18	8	386
1000.1	125	210	18	8	386
1450.1	150	240	22	8	451
1450.2	150	240	22	8	451
2700.1	200	295	22	12	567
5000.1	250	355	26	12	693
9500.1	300	410	26	12	603

Size	Mating dimensions for delivery connection ANSI B 16.5, class 150				
	DN	k ₁	d ₁	z	for mounting flange
50.1	2	120,6	19	4	207
50.2	2	120,6	19	4	207
100.1	2 1/2	139,7	19	4	250
100.2	2 1/2	139,7	19	4	250
200.1	3	152,4	19	4	285
200.2	3	152,4	19	4	285
380.1	4	190,2	19	8	339
380.2	4	190,5	19	8	339
550.1	4	190,5	19	8	339
750.1	5	215,9	22,2	8	420
750.2	5	215,9	22,2	8	420
1000.1	5	215,9	22,2	8	420
1450.1	6	241,3	22,2	8	485
1450.2	6	241,3	22,2	8	485
2700.1	8	298,4	22,2	8	607
5000.1	10	361,9	25,4	12	725
9500.1	12	431,8	25,4	12	635

- ① min D₁ = 200, G₃ = 184
- ② min D₁ = 250, G₃ = 220
- ③ min D₁ = 450, G₃ = 386
- ④ min D₁ = 200, G₃ = 203
- ⑤ min D₁ = 250, G₃ = 245
- ⑥ min D₁ = 450, G₃ = 420

circular mounting flanges.
Also available in smaller dimensions.
For dimensions (e.g. D1) see page 9.



Z₁ Z₂ Z₃, = no. of holes

Direction of rotation: clockwise looking from the drive end is standard

		Pump size																
		50.1	50.2	100.1	100.2	200.1	200.2	380.1	380.2	550.1	750.1	750.2	1000.1	1450.1	1450.2	2700.1	5000.1	9500.1
Pump dimensions	D ₄	160	160	200	200	250	250	250	250	300	300	300	350	350	400	400		
	D ₅	130	130	165	165	215	215	215	215	265	265	265	300	300	350	350		
	D ₆	110	110	130	130	180	180	180	180	230	230	230	250	250	300	300		
	D ₇	135	135	150	150	180	180	215	215	215	270	270	270	320	320	375	455	
	H ₁	82	82	107	107	127	127	155	155	196	196	196	231	231	325	398		
	H ₂	219	219	255	255	287	287	321	321	384	384	384	438	438	521	402		
	H ₃	52	52	58	58	73	73	85	85	99	99	99	122	122	145	129		
	J	120	120	150	150	180	180	220	220	270	270	270	320	320	440	540		
	d	20	20	22	22	28	28	35	35	42	42	42	55	55	70	75		
	I	45	45	50	50	65	65	75	75	90	90	90	110	110	130	125		
	m ₁	11	11	11	11	11	11	11	11	11	11	11	15	15	15	15		
	m ₂	10	10	12	12	12	12	12	12	15	15	15	15	15	20	20		
	n	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5		
	0	20	20	20	20	25	25	25	25	30	30	30	30	30	40	50		
Standard installations @ depths	S ₁	9	9	11	11	13,5	13,5	13,5	13,5	13,5	13,5	13,5	17,5	17,5	17,5	17,5		
	Z ₁	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	R12⑥	R _P 3/8	R _P 3/8	R _P 1/2	R _P 1/2	R _P 1/2	R _P 1/2	R _P 3/4	R _P 1	R _P 1								
	T	640	800	600	800													
		1040	1200	1000	1200	948	1200	894	1200	1048								
		1440	1600	1400	1600	1348	1600	1294	1600	1448	1200	1600	1312			1600		
		1840	2000	1800	2000	1748	2000	1694	2000	1848	1600	2000	1712	1495	2000	2000	2000	
			2200	2400	2148	2400	2094	2400	2248	2000	2400	2112	1895	2400	2400	2400		
					2548	2800	2494	2800	2648	2400	2800	2512	2295	2800	2800	2800		
							2894	3200	3048	2800	3200	2912	3095	3600	3600	3600		
										3200	3600	3312	3095	3600	3600	3600		
													3495	4000	4000	4000		
Mounting flanges ④⑥	A ₁	270	270	320	320	380	380	440	440	440	540	540	540	640	640	750	900	
	B ₁	240	240	280	280	340	340	400	400	400	495	495	495	590	590	700	840	
	C ₁	210	210	250	250	300	300	360	360	360	450	450	450	540	540	640	780	
	E ₁	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	F ₁	71	71	85	85	100	100	120	120	120	150	150	150	180	180	200	245	
	R	30	30	35	35	45	45	55	55	55	70	70	70	90	90	110	140	
	S ₂	14	14	18	18	18	18	18	18	18	23	23	23	23	23	27	27	
	A ₂	240	240	280	280	330	330	380	380	380	460	460	460	540	540	610	720	
	B ₂	210	210	240	240	290	290	340	340	340	415	415	415	490	490	560	560	
	C ₂	180	180	210	210	250	250	300	300	300	370	370	370	440	440	500	500	
	E ₂	15	15	20	20	25	25	30	30	30	40	40	40	50	50	70	90	
	F ₂	56	56	65	65	75	75	90	90	90	110	110	110	130	130	130	155	
	R	30	30	35	35	45	45	55	55	55	70	70	70	90	90	110	140	
	S ₂	14	14	18	18	18	18	18	18	18	23	23	23	23	23	27	27	
	D ₁	300①	300①	300②	300②	300	300	350	350	350	500③	500③	500③	600	600	600	700	
	D ₂	375	375	375	375	375	375	420	420	420	560	560	560	665	665	665	765	
	D ₃	415	415	415	415	415	415	460	460	460	600	600	600	710	710	710	810	
	E ₃	0	0	15	15	41	41	55	55	55	37	37	37	90	90	110	140	
	S ₃	18	18	18	18	18	18	18	18	18	18	18	18	23	23	23	23	
	Z ₃	12	12	12	12	12	12	16	16	16	20	20	20	24	24	24	28	

① min D₁ = 200, E₃ = 33

circular mounting flanges. Also available in smaller dimensions.

For remaining mounting flange versions see ⑧

④ Contact surface no machined

⑤ Pipe thread acc. to DIN 2999

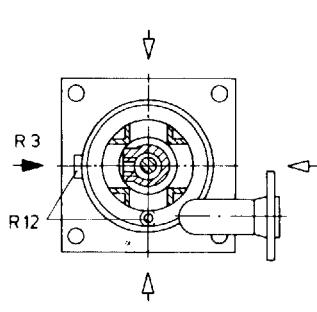
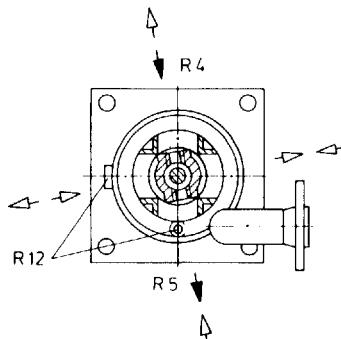
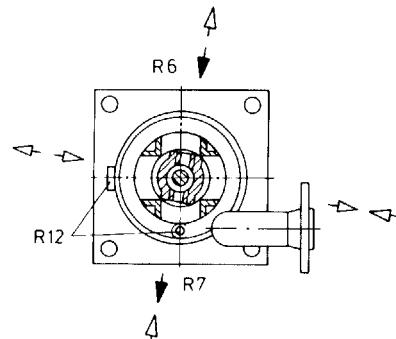
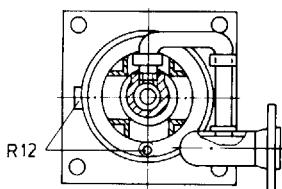
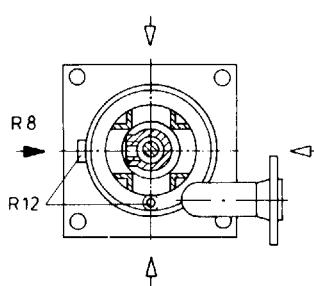
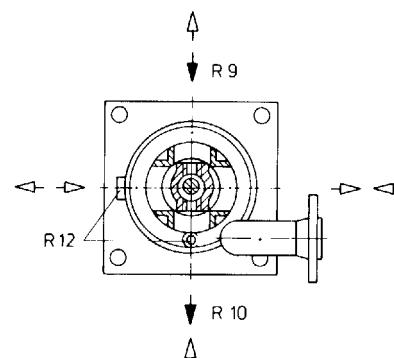
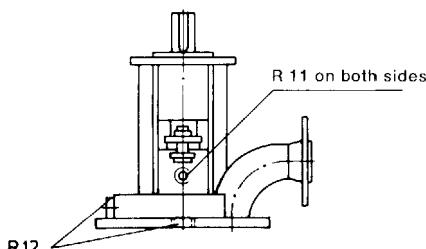
⑥ Alternative installation depths possible (consult manufacturer)

⑦ Mating dimensions acc. to DIN 28034

⑧ Larger mounting flanges possible (consult manufacturer)

Auxiliary connections

Positions of auxiliary connections

Stuffing boxes
P12 and P02Stuffing boxes
P13 and P03Stuffing boxes
P14 and P04Mechanical seals G10 to G13
and G00 to G03Mechanical seals G14 to G17
and G04 to G07Mechanical seals G18 to G19
and G08 to G09

Auxiliary connections where jacket fitted for heating or cooling.
Heating or cooling liquid:
max. permissible pressure 10 bar,
max. permissible temperature 180°C.

▲ Standard flow direction
△ alternative flow direction

Sizes of auxiliary connections

Size	Flushing connections		Gland seal connections			Heating/ cooling connections	Drain connection
	R3	R8 ①	R4/R5 ①	R6/R7 ①	R9/R10 ①		
50.1	M 8x1 ②	G 1/4	G 1/8	G 1/4	G 1/4	R _p 1/8	R _p 3/8
50.2	M 8x1 ②	G 1/4	G 1/8	G 1/8	G 1/4	R _p 1/8	R _p 3/8
100.1	G 1/8 ①	G 1/4	G 1/8	G 1/8	G 1/4	R _p 1/8	R _p 1/2
100.2	G 1/8 ①	G 1/4	G 1/8	G 1/8	G 1/4	R _p 1/8	R _p 1/2
200.1	G 1/8 ①	G 3/8	G 1/8	G 1/8	G 3/8	R _p 1/4	R _p 1/2
200.2	G 1/8 ①	G 3/8	G 1/8	G 1/8	G 3/8	R _p 1/4	R _p 1/2
380.1	G 1/8 ①	G 1/2	G 1/8	G 1/8	G 1/2	R _p 1/4	R _p 3/4
380.2	G 1/8 ①	G 1/2	G 1/8	G 1/8	G 1/2	R _p 1/4	R _p 3/4
550.1	G 1/8 ①	G 1/2	G 1/8	G 1/8	G 1/2	R _p 1/4	R _p 3/4
750.1	G 1/4 ①	G 1/2	G 1/4	G 1/4	G 1/2	R _p 3/8	R _p 3/4
750.2	G 1/4 ①	G 1/2	G 1/4	G 1/4	G 1/2	R _p 3/8	R _p 3/4
1000.1	G 1/4 ①	G 1/2	G 1/4	G 1/4	G 1/2	R _p 3/8	R _p 3/4
1450.1	G 1/4 ①	G 1/2	G 1/4	G 1/4	G 1/2	R _p 3/8	R _p 3/4
1450.2	G 1/4 ①	G 1/2	G 1/4	G 1/4	G 1/2	R _p 3/8	R _p 3/4
2700.1	G 1/4 ①	G 1/2	G 3/8	G 3/8	G 1/2	R _p 3/8	R _p 1
5000.1	G 1/4 ①	G 1/4	G 1/4	G 1/4	G 1/2	R _p 3/8	R _p 1
9500.1	G 1/4 ①	G 1/4					

① Pipe thread acc. to DIN ISO 228,
Part 1

② Metric fine thread acc. to DIN 13

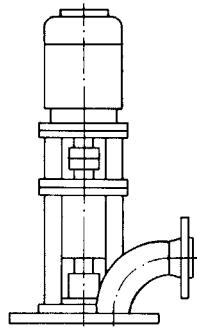
③ Pipe thread acc. to DIN 2999.

Tappings for pressure gages can be provided, if required, at extra cost.

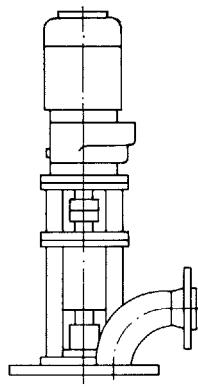
Auxiliary connections R3 to R12 can also be supplied with NPT threads (same i.D.).

Weights, possible drive arrangements**Weights**

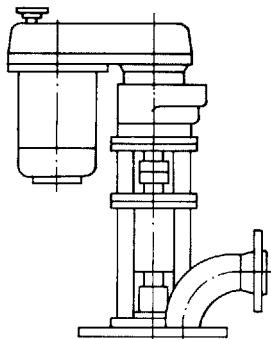
	Pump size																
Weights	50.1	50.2	100.1	100.2	200.1	200.2	380.1	380.2	550.1	750.1	750.2	1000.1	1450.1	1450.2	2700.1	5000.1	9500.1
T = 1000 mm, mounting flange, standard, squared																	
kg																	
T = 1000 mm, mounting flange, small, squared																	
kg																	
T = 1000 mm, mounting flange, circular																	
kg																	
Extension per 1000 mm																	
kg																	

Possible drive arrangements

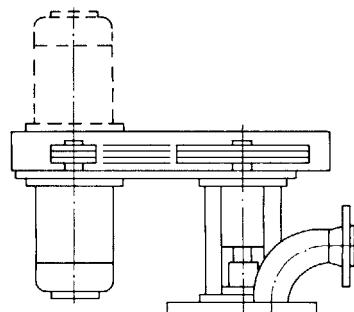
1 SETP with flexible coupling
and electric motor



2 SETP with flexible coupling
and geared motor



3 SETP with flexible coupling
and infinitely variable speed gear



4 SETP with V-belt drive
and electric motor
Consult manufacturers

Range of eccentric screw pumps	Series	Number of stages	Maximum output at $\Delta p = 0$ bar m ³ /h	Maximum del. pressure bar l/min	Maximum viscosity mPa·s
AE.E-ID	1,2	450	7500	10	300.000
AE.N-ID	1,2	290	4850	12	270.000
AEB.E-IE	1,2	174	2900	6	300.000
AEB.N-IE	1,2	111	1850	12	270.000
AED.E-ID	1	720	12000	8	250.000
AED N-ID	2	450	7500	16	225.000
AEDB.E-IE	1	258	4300	6	250.000
AEDB.N-IE	2	174	2900	12	225.000
AE.N...-RG	1,2,4	30	500	20	1.000.000
TECFLOW	1	186	3100	4	200.000
SEZP	1,2	21	250	10	1.000.000
SHP	2,4	110	1830	24	270.000
SNZP	1,2	45	750	12	1.000.000
SNZBP	1,2	45	750	12	1.000.000
SSP	1,2	48	800	12	150.000
SSBP	1,2	48	800	12	150.000
SETP①	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
ADB	3	0,6	10	12	20.000
ACNP	1,2	29	480	12	150.000
ACNBP	1,2	29	480	12	150.000

①Special versions for higher pressures available.

Peristaltic range	Series	Maximum output m ³ /h	Maximum del. pressure bar l/min	Maximum viscosity mPa·s
	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	<u>Pump accessories:</u> Stator setting devices, electrical heaters, bridge breakers. <u>Drivers:</u> Electric motors, geared motors, variable speed transmissions, reduction gearboxes, internal combustion engines, pneumatic and hydraulic drives. <u>Transmission components:</u> Couplings, V-belt transmissions, toothed belt transmissions, other types of transmission. <u>Base plates:</u> Standard and special versions, wheeled trolleys, mounting flanges. <u>Safety arrangements:</u> Bypass lines with safety or regulating valves, systems to guard against dry running (conductive, capacitive, thermal etc.). <u>Other accessories:</u> Electrical, hydraulic and pneumatic control arrangements, filter systems, metering equipment, seal liquid and circulating systems for shaft seals, valves, flanges, flexible pipes.
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Subject to technical alterations.



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