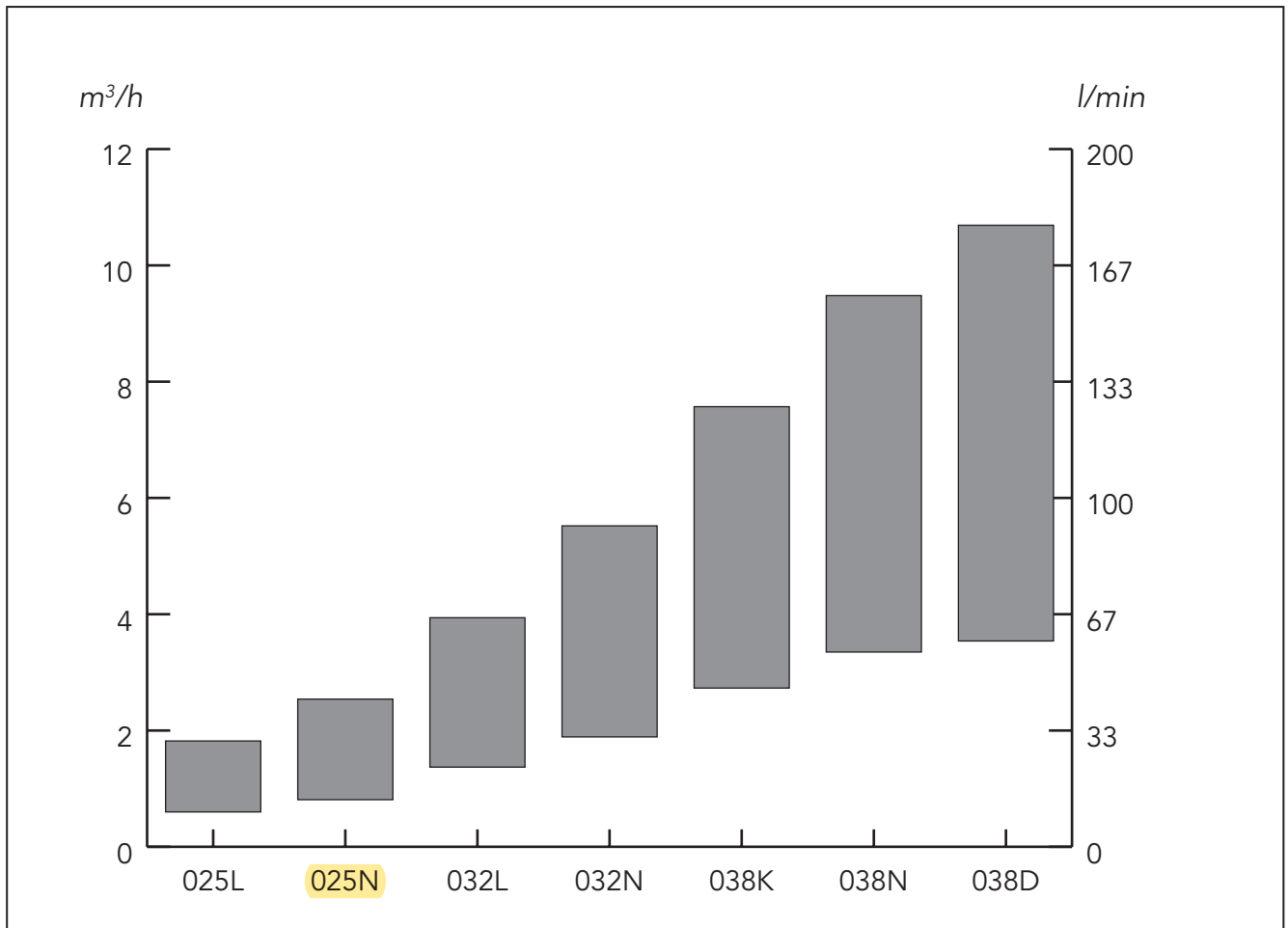


## 5. Performance

Typical performance values at 5 bar  
Flow calculated at 26 cSt, power at 260 cSt.

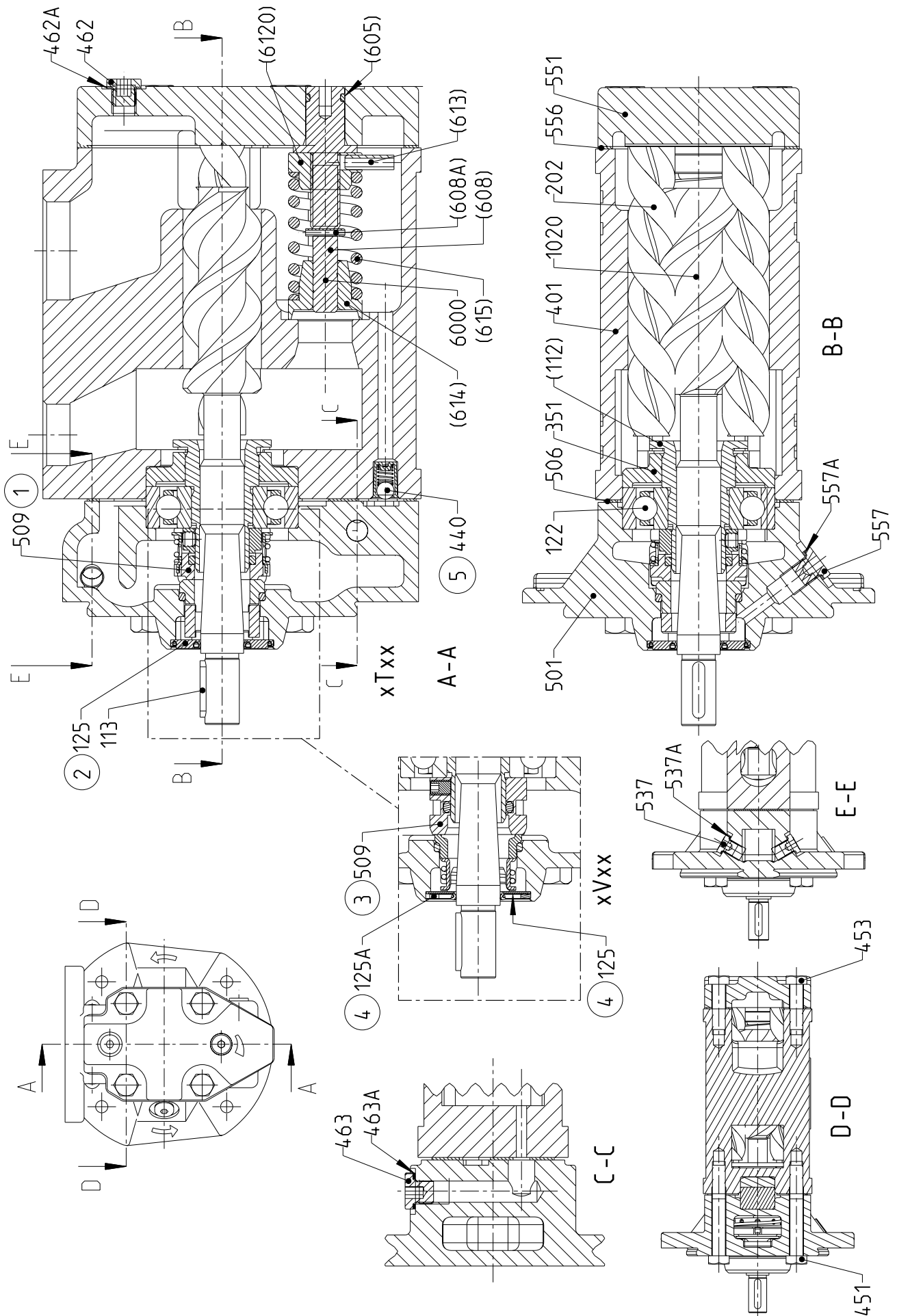


025L			025N		
rpm	l/min	kW	l/min	kW	
1470	10,0	0,3	13,5	0,4	
1770	12,9	0,4	17,7	0,5	
2950	24,5	0,9	34,1	1,0	
3550	30,4	1,1	42,5	1,3	

032L			032N		
rpm	l/min	kW	l/min	kW	
1470	22,8	0,5	35,9	0,8	
1770	29,0	0,7	44,6	1,0	
2950	53,3	1,3	79,0	1,9	
3550	65,6	1,7	96,4	2,4	

038K			038N		038D	
rpm	l/min	kW	l/min	kW	l/min	kW
1470	45,5	1,0	55,8	1,3	59,1	1,2
1770	57,1	1,3	70,5	1,7	76,2	1,5
2950	102,9	2,5	128,4	3,2	143,9	2,9
3550	126,2	3,2	157,9	4,1	178,2	3,6

6. Sectional view



## 7. List of components

Pos No	Denomination	Pos No	Denomination	Pos No	Denomination
1020	Complete power rotor	453	Screw	556	Gasket
(112)	Balancing piston	462	Plug	557	Plug
113	Key	462A	Sealing washer	557A	Sealing washer
122	Ball bearing	463	Plug	6000	Complete valve element
125	Secondary seal	463A	Sealing washer	(605)	O-ring
125A	Retaining ring	501	Front cover	(608)	Valve spindle
202	Idler rotor	506	Gasket	(608A)	Tension pin
351	Balancing bush	509	Shaft seal	(6120)	Complete regulating nut
401	Pump body	537	Deaeration plug	(613)	Pin
440	Return valve	537A	Sealing washer	(614)	Valve piston
451	Screw	551	Rear cover	(615)	Valve spring

**Drawing remarks:**

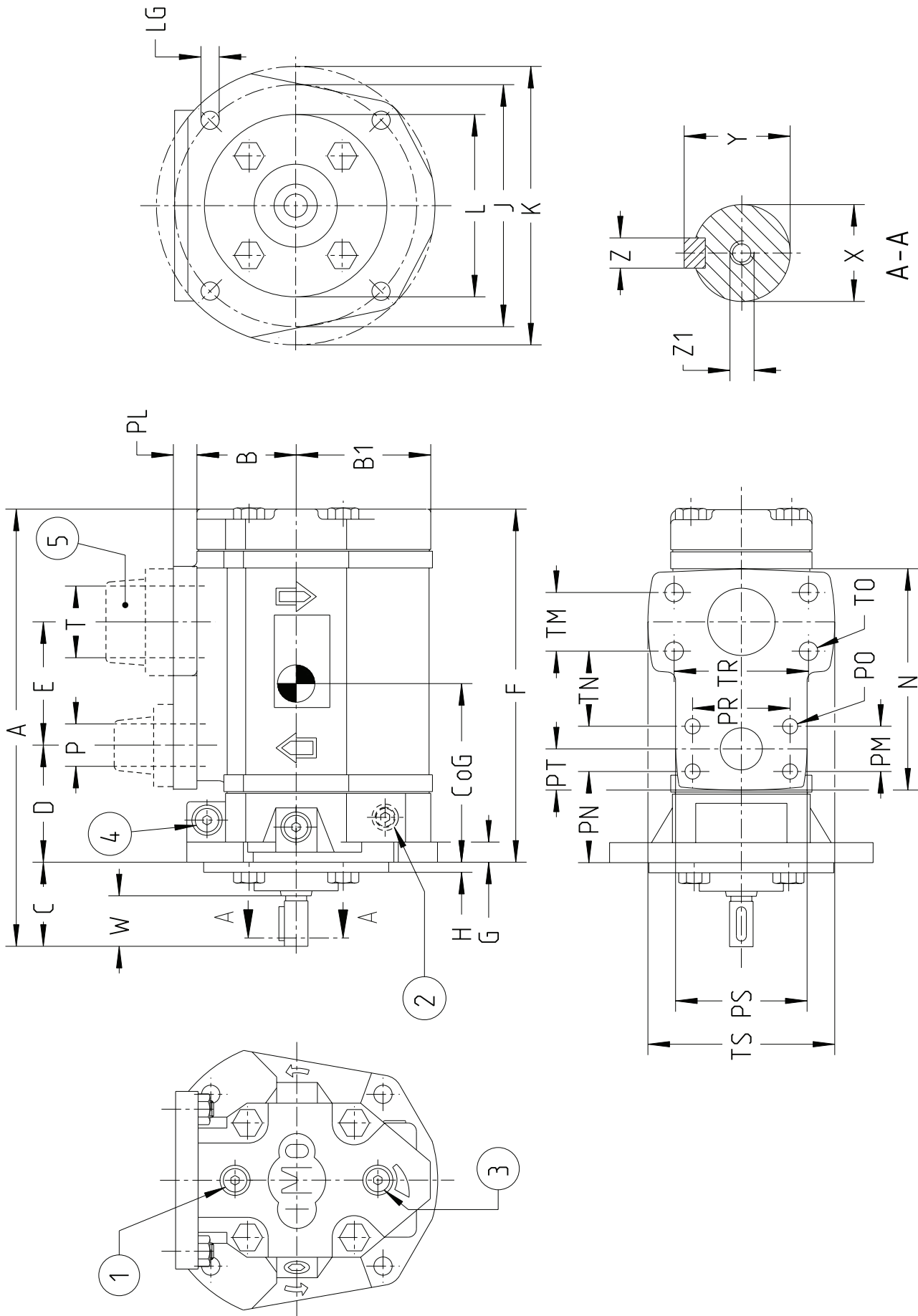
- (1) Shaft seal. Execution code xTxX
- (2) Applicable for shaft seal execution code xTxX
- (3) Shaft seal. Execution code xVxx
- (4) Applicable for shaft seal execution code xVxx

(5) Removed from August 2011

**Notes:**

- Components with Pos No within parenthesis are parts of subassembly

8. Pump dimensions



## 8. Pump dimensions

Pump size	Main dimensions					Flange dimensions					Outlet					Inlet					Shaft					Weight								
	A	B	B1	C	D	E	F	N	G	H	J	K	L <sup>1)</sup>	LG	P	PL	PM	PN	PO	PR	PS	PT	T	TM	TN	TO	TR	TS	W	X <sup>2)</sup>	Y	Z	Z1	CoG
025	225	73	81		60	60	175	110	12	6	130	160	110	9	25	14	28	46	9	62	82	25	28	32	9	62	82	29	14	16	5		75	10
	261		50	68	75	211	133																											
038	273	83	83		75	85	223	151	15	145	170	120	11	40	15	40	55	11	90	115	33	40	40	45	11	90	115	34	19	21.5	6	100	15	

Drawing remarks:

(1) Inlet gauge. ISO G1/8

(2) Other side: Outlet gauge. ISO G1/8

(3) Relief valve. Turn clockwise to increase opening pressure

(4) Deceleration (2x)

(5) For counter flanges dimensions see Pump unit dimensions page 12

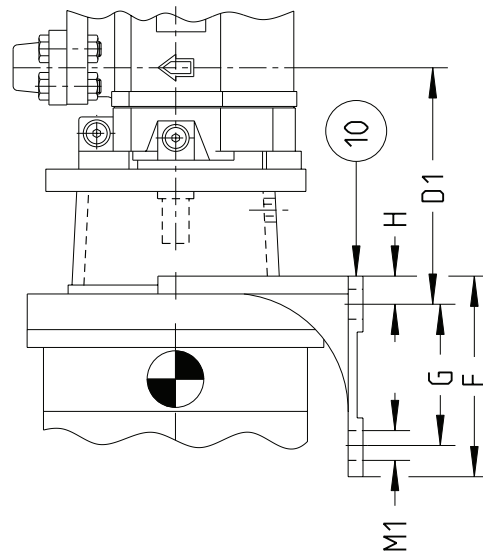
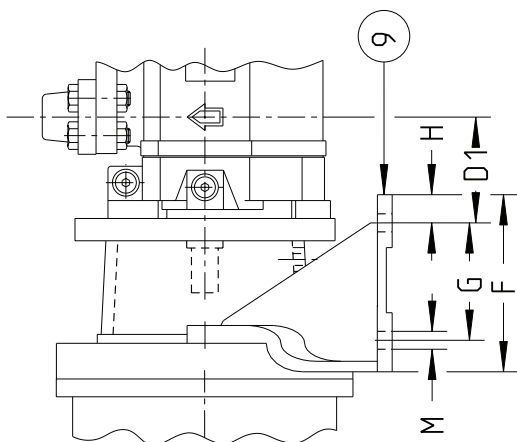
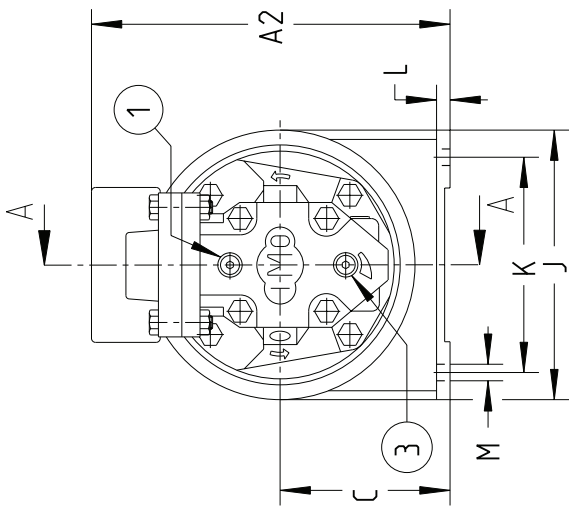
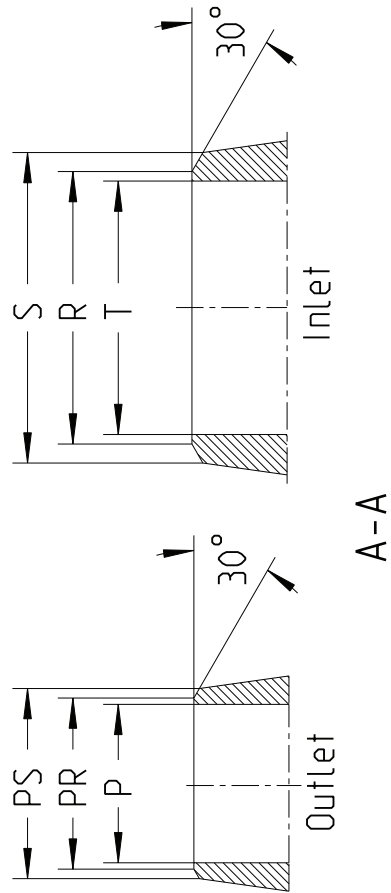
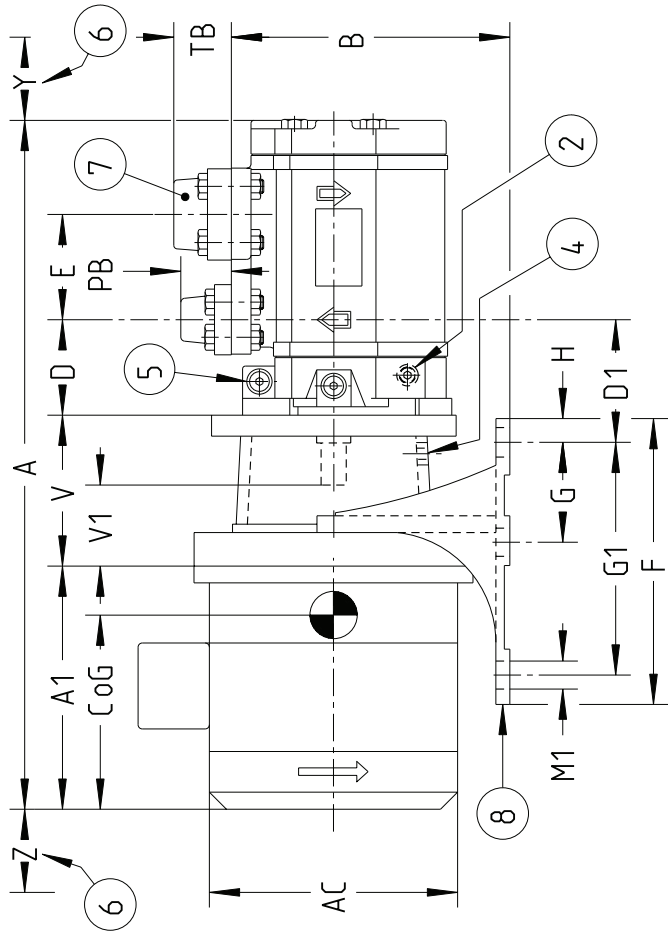
Notes:

- Dimensions in mm

1) Tolerances ISO h7

2) Tolerances ISO j6

9. Pump Unit dimensions



## 9. Pump Unit Dimensions

Pump size	IEC No	Frame size	Main dimensions										Foot dimensions										Outlet				Inlet			Dism.		Weight			
			A	A1	A2	AC	B	C	D	D1	E	V	V1	F	G	G1	H	J	K	L	M	M1	P	PB	PR	PS	T	TB	R	S	Y	Z	CoG	kg	
025	71	F130	481	208	213	140	171	98	156	98	48	105	70	19	205	8	9	16														48	283	20	
	80	F165	521	238	239	160	185	112	88	108	58	90	60	15	210	12	Ø11	-								25	37	27	30	58	291	24			
	90		565	272	247	178		60	98	60	118	68																		68	287	30			
100	F215	611	308	309	199	228	155	109	128	78	230	75	185	22	250	15	14	24												78	285	40			
112		624	321	322	215																									25	37	27	30	78	281
032	71	F130	517	208	213	140	171	98	164	98	48	105	70	19	205	8	9	16													48	302	22		
	80	F165	557	238	239	160	185	112	96	108	58	90	60	15	210	12	Ø11	-													58	310	26		
	90		601	272	247	178		68	106	75	118	68																		68	305	32			
100	F215	647	308	309	199	228	155	117	128	78	230	75	185	22	250	15	14	24													78	300	42		
112		660	321	322	215																									40	42	42	49	78	295
038	80	F165	569	238	239	160	195	112	103	108	58	90	60	15	210	12	Ø11	-													58	327	29		
	90		613	272	247	178			113	118	68																			68	323	35			
	100	F215	659	308	309	199	238	155	124	128	78	230	75	185	22	250	15	14	24													58	327	29	
112	672		321	322	215		75	130	85	150	100	270	95	225	23	300	265	18												68	323	35			
132	F265	744	371	373	255	268	185	130	130	150	100	270	95	225	23	300	265	18												70	100	309	75		

Drawing remarks:

- (1) Inlet gauge. ISO G1/8
- (2) Other side: Outlet gauge. ISO G1/8
- (3) Relief valve. Turn clockwise to increase opening pressure
- (4) Connecting frame drainage. ISO G3/8

- (5) Deaeration (2x)
- (6) Space for dismantling
- (7) Butt weld counter flanges of IMO design necessary
- (8) Angle bracket for frame size F215-F265

- (9) Angle bracket for frame size F165
- (10) Angle bracket for frame size F130

Notes:

- Dimensions in mm
- Dimensions A, A1, AC, A2 and weight are approximate values for Brook Crompton motors type WU-DA

## 10. Accessories

A bare shaft pump (Fig. 1) can be ordered with the accessories in fig. 2-8.

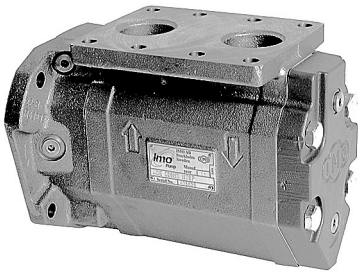


Fig. 1 Bare shaft pump



Fig. 2 Set of counter flanges



Fig. 3 Connecting frame

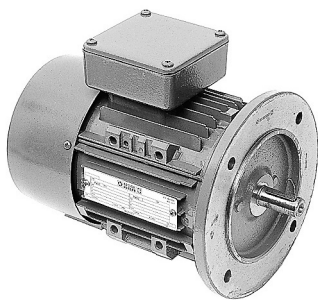


Fig. 4 Electric motor

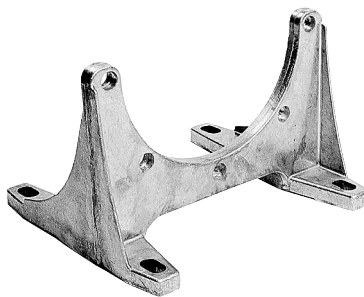


Fig. 5 Angle bracket

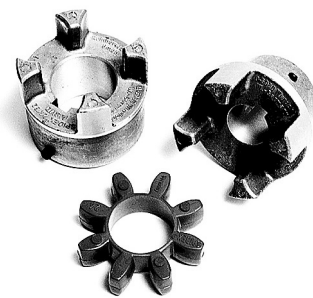


Fig. 6. Shaft coupling

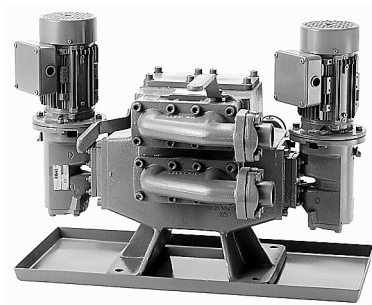


Fig. 7. Valve block



Fig. 8. Gauge panel

## 11. Maintenance

Spare parts for these pumps are easily available from stock. For detailed information and know-how about service, see the Maintenance & Service Instruction for ACE3 pumps or contact IMO AB.