

HOW TO ORDER

1	P	UA	Size	Rotation	Shaft	Front cover	Ports	Ports position	Seals	Options
Group	P- Pump	Series	0.8 1.1 1.3 1.6 1.8 2.1 2.7 3.2 3.7 4.2 4.8 5.8 7.0 8.0	D Clockwise S Counter clockwise R Reversible		Q0 Q1 Q2 B0				

Ports position

Omit-Side inlet and side outlet
 A-Front inlet and front outlet
 B-Back inlet and front outlet
 C-Back inlet and side outlet
 D-Side inlet and front outlet
 R-Back inlet and back outlet

Seals

Omit-Range between -10°C and $+80^{\circ}\text{C}$, inlet pressure up to max. 3 bar absolute.
 V-Version suitable for fluid at hi-temperatures, range between -10°C and $+120^{\circ}\text{C}$.
 H-Version suitable for fluid at low-temperatures, range between -40°C and $+80^{\circ}\text{C}$.
 T-Version suitable for inlet pressure up to max. 3 and 6 bar absolute.
 N-Version suitable for inlet pressure up to max. 3 and 10 bar absolute.

Examples:

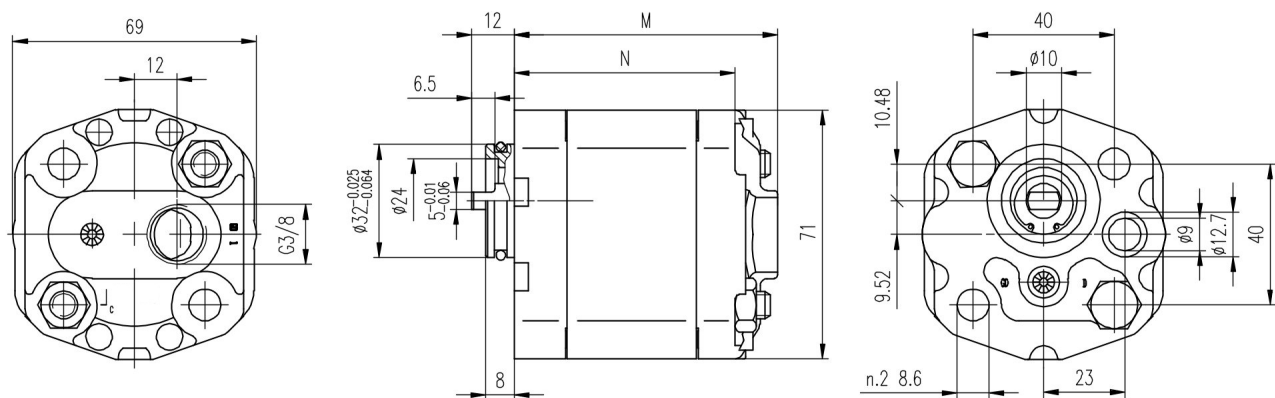
1PUA-0.8-D-G0*Q0-L1-B=
 clockwise rotation, 0.8 cc/rev, Q0 front cover, G0 tang shaft, setting ports L1 type, back inlet and front outlet (B), standard seals
 1PUA-0.8-D-G0*Q1-L3=
 clockwise rotation, 0.8 cc/rev, Q1 front cover, G0 tang shaft, setting ports L3 type, standard seals
 1PUA-0.8-D-T0*B0-F0-N=
 clockwise rotation, 0.8 cc/rev, B0 front cover, 1:8 tapered shaft(T0), setting ports F0 type, high pressure seals(N)



End cover: G3/8 thread depth 12.
To mount the pump, n.2 M8 screws,
with a torque wrench setting fixed
at 27±3 Nm.

INLET

OUTLET

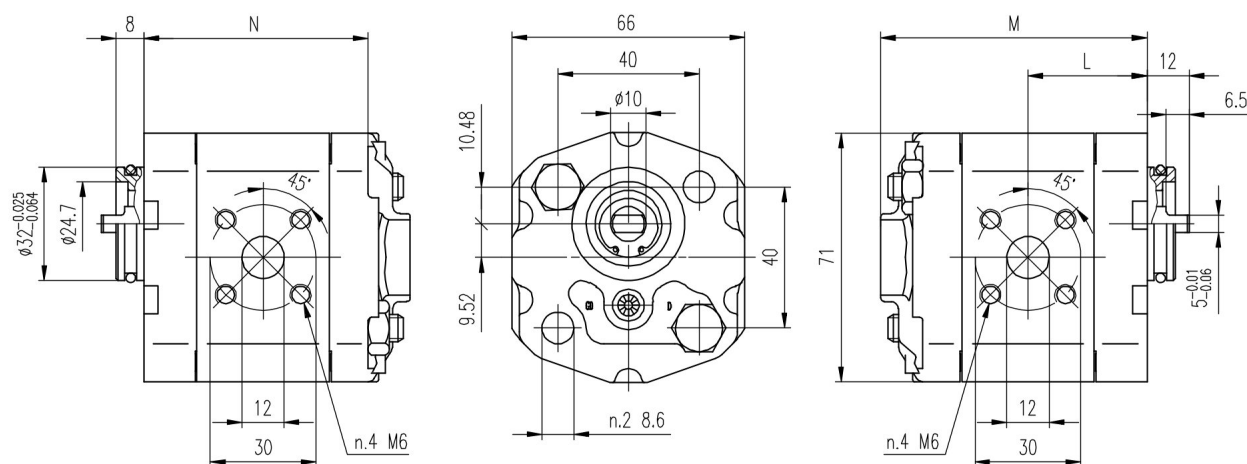


Type	Displacement (cm ³ /rev)	Max pressure			Max. speed (r/min)	Min. speed (r/min)	Dimensions	
		P1 bar	P2 bar	P3 bar			M mm	N mm
1PUA-0.8-D*Q0	0.8	230	250	270	6000	1000	73.5	61.5
1PUA-1.1-D*Q0	1.1	230	250	270	6000	1000	74	62
1PUA-1.3-D*Q0	1.3	230	250	270	6000	1000	75	63
1PUA-1.6-D*Q0	1.6	230	250	270	6000	1000	76	64
1PUA-1.8-D*Q0	1.8	230	250	270	6000	1000	77	65
1PUA-2.1-D*Q0	2.1	230	250	270	6000	1000	78	66
1PUA-2.5-D*Q0	2.5	230	250	270	6000	1000	79	67
1PUA-2.7-D*Q0	2.7	230	250	270	6000	800	80	68
1PUA-3.2-D*Q0	3.2	210	230	250	5000	800	82	70
1PUA-3.7-D*Q0	3.7	210	230	250	4500	800	84	72
1PUA-4.2-D*Q0	4.2	210	230	250	4000	800	86	74
1PUA-4.8-D*Q0	4.8	190	210	230	3500	600	88	76
1PUA-5.8-D*Q0	5.8	190	210	230	3000	600	92	80
1PUA-7.0-D*Q0	7.0	160	180	200	2500	600	96	84
1PUA-8.0-D*Q0	8.0	160	180	200	2100	600	100	88

M6 threads depth 12.
To mount the pump, n.2 M8 screws,
with a torque wrench setting fixed
at 27 ± 3 Nm.

OUTLET

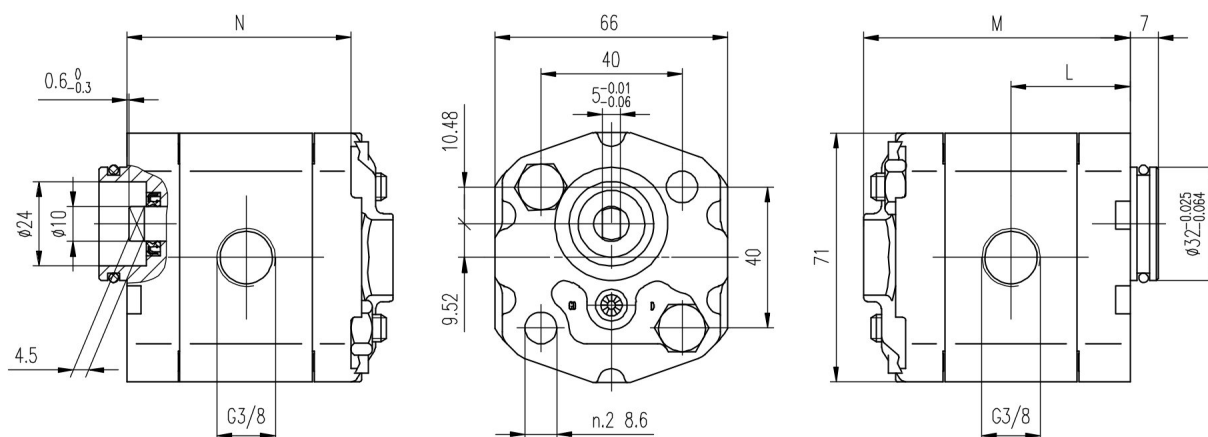
INLET



Type	Displacement (cm ³ /rev)	Max pressure			Max. speed (r/min)	Min. speed (r/min)	Dimensions		
		P1 bar	P2 bar	P3 bar			M mm	N mm	L mm
1PUA-0.8-D*Q1	0.8	230	250	270	6000	1000	73.5	61.5	32.8
1PUA-1.1-D*Q1	1.1	230	250	270	6000	1000	74	62	33
1PUA-1.3-D*Q1	1.3	230	250	270	6000	1000	75	63	33.5
1PUA-1.6-D*Q1	1.6	230	250	270	6000	1000	76	64	34
1PUA-1.8-D*Q1	1.8	230	250	270	6000	1000	77	65	34.5
1PUA-2.1-D*Q1	2.1	230	250	270	6000	1000	78	66	35
1PUA-2.7-D*Q1	2.7	230	250	270	6000	800	80	68	36
1PUA-3.2-D*Q1	3.2	210	230	250	5000	800	82	70	37
1PUA-3.7-D*Q1	3.7	210	230	250	4500	800	84	72	38
1PUA-4.2-D*Q1	4.2	210	230	250	4000	800	86	74	39
1PUA-4.8-D*Q1	4.8	190	210	230	3500	600	88	76	40
1PUA-5.8-D*Q1	5.8	190	210	230	3000	600	92	80	42
1PUA-7.0-D*Q1	7.0	160	180	200	2500	600	96	84	44
1PUA-8.0-D*Q1	8.0	160	180	200	2100	600	100	88	46

To mount the pump, n.2 M8 screws, with a torque wrench setting fixed at 27 ± 3 Nm.

INLET

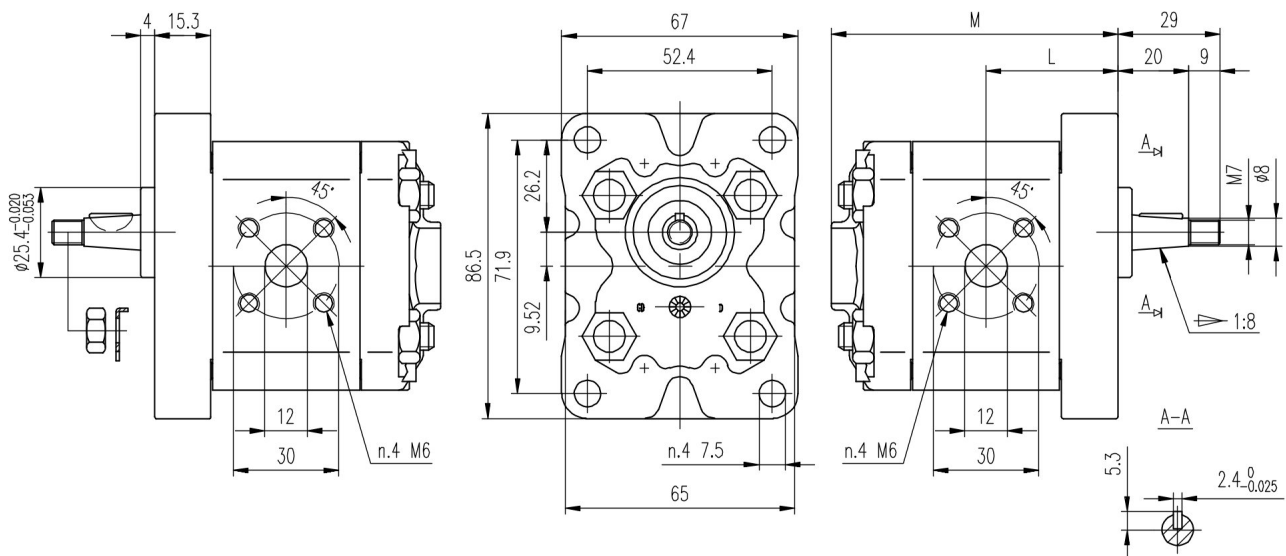


Type	Displacement	Max pressure			Max. speed	Min. speed	Dimensions		
		P1	P2	P3			M	N	L
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm
1PUA-0.8-D*Q2	0.8	230	250	270	6000	1000	73.5	61.5	32.8
1PUA-1.1-D*Q2	1.1	230	250	270	6000	1000	74	62	33
1PUA-1.3-D*Q2	1.3	230	250	270	6000	1000	75	63	33.5
1PUA-1.6-D*Q2	1.6	230	250	270	6000	1000	76	64	34
1PUA-1.8-D*Q2	1.8	230	250	270	6000	1000	77	65	34.5
1PUA-2.1-D*Q2	2.1	230	250	270	6000	1000	78	66	35
1PUA-2.7-D*Q2	2.7	230	250	270	6000	800	80	68	36
1PUA-3.2-D*Q2	3.2	210	230	250	5000	800	82	70	37
1PUA-3.7-D*Q2	3.7	210	230	250	4500	800	84	72	38
1PUA-4.2-D*Q2	4.2	210	230	250	4000	800	86	74	39
1PUA-4.8-D*Q2	4.8	190	210	230	3500	600	88	76	40
1PUA-5.8-D*Q2	5.8	190	210	230	3000	600	92	80	42
1PUA-7.0-D*Q2	7.0	160	180	200	2500	600	96	84	44
1PUA-8.0-D*Q2	8.0	160	180	200	2100	600	100	88	46

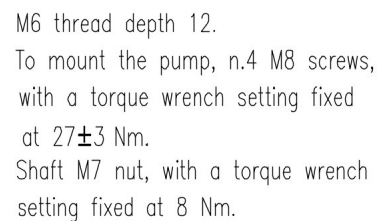
M6 thread depth 12.
 To mount the pump, n.4 M8 screws,
 with a torque wrench setting fixed
 at 27 ± 3 Nm.
 Shaft M7 nut, with a torque wrench
 setting fixed at 8 Nm.

OUTLET

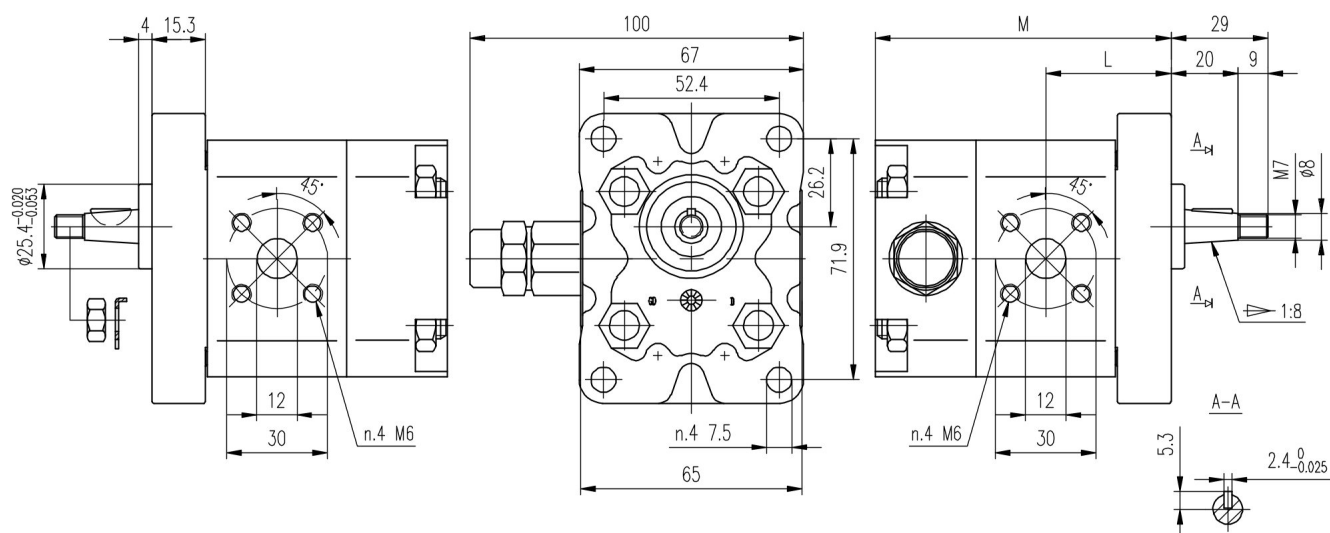
INLET



Type	Displacement (cm ³ /rev)	Max pressure			Max. speed (r/min)	Min. speed (r/min)	Dimensions	
		P1 bar	P2 bar	P3 bar			M mm	L mm
1PUA-0.8-D*B0	0.8	230	250	270	6000	1000	73.5	32.8
1PUA-1.1-D*B0	1.1	230	250	270	6000	1000	74	33
1PUA-1.3-D*B0	1.3	230	250	270	6000	1000	75	33.5
1PUA-1.6-D*B0	1.6	230	250	270	6000	1000	76	34
1PUA-1.8-D*B0	1.8	230	250	270	6000	1000	77	34.5
1PUA-2.1-D*B0	2.1	230	250	270	6000	1000	78	35
1PUA-2.7-D*B0	2.7	230	250	270	6000	800	80	36
1PUA-3.2-D*B0	3.2	210	230	250	5000	800	82	37
1PUA-3.7-D*B0	3.7	210	230	250	4500	800	84	38
1PUA-4.2-D*B0	4.2	210	230	250	4000	800	86	39
1PUA-4.8-D*B0	4.8	190	210	230	3500	600	88	40
1PUA-5.8-D*B0	5.8	190	210	230	3000	600	92	42
1PUA-7.0-D*B0	7.0	160	180	200	2500	600	96	44
1PUA-8.0-D*B0	8.0	160	180	200	2100	600	100	46



INLET



Type	Displacement	Max pressure			Max. speed	Min. speed	Dimensions	
		P1	P2	P3			M	L
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm
1PUA-0.8-D*B0-Y	0.8	230	250	270	6000	1000	82.5	32.8
1PUA-1.1-D*B0-Y	1.1	230	250	270	6000	1000	83	33
1PUA-1.3-D*B0-Y	1.3	230	250	270	6000	1000	84	33.5
1PUA-1.6-D*B0-Y	1.6	230	250	270	6000	1000	85	34
1PUA-1.8-D*B0-Y	1.8	230	250	270	6000	1000	86	34.5
1PUA-2.1-D*B0-Y	2.1	230	250	270	6000	1000	87	35
1PUA-2.7-D*B0-Y	2.7	230	250	270	6000	800	89	36
1PUA-3.2-D*B0-Y	3.2	210	230	250	5000	800	91	37
1PUA-3.7-D*B0-Y	3.7	210	230	250	4500	800	93	38
1PUA-4.2-D*B0-Y	4.2	210	230	250	4000	800	95	39
1PUA-4.8-D*B0-Y	4.8	190	210	230	3500	600	97	40
1PUA-5.8-D*B0-Y	5.8	190	210	230	3000	600	101	42
1PUA-7.0-D*B0-Y	7.0	160	180	200	2500	600	105	44
1PUA-8.0-D*B0-Y	8.0	160	180	200	2100	600	109	46

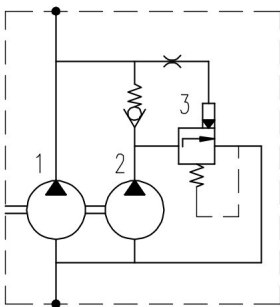
HIGH-LOW MULTIPLE PUMPS

1PUA High-Low hydraulic gear pumps is the very ideal pump for applications which require a quick approach and/or return of the actuator at low loads and slow motion of the actuator at high loads. In particular this model offers the advantage of requiring lower power of the motor.

1PUA High-Low hydraulic gear pumps is a special double stage pump with special integrated valves (as shown in the hydraulic diagram) has been specially designed for applications such as trash compactors, log splitters, clamping mechanisms, crimping machines, metal forming machines etc.

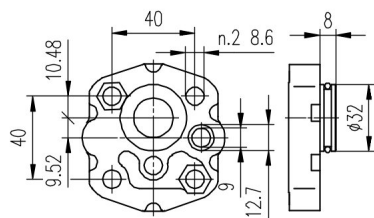
Technical features

First stage Low displacement high pressure	From 1.1cm ³ /rev to 3.2cm ³ /rev-P1=230 bar
Second stage High displacement low pressure	From 3.7cm ³ /rev to 9.8cm ³ /rev-(Pressure set by unloading valve)
Unloading valve	Standard setting 35 bar
RPM pump range	From 1000 rpm to 3500 rpm
Flanges and shafts	Ref. 1PUA catalogue
Ports	Common inlet. Common outlet. Side ports code L5

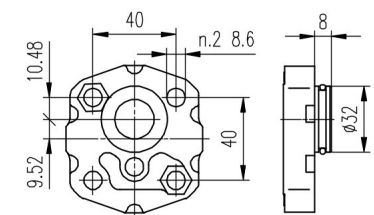


1. First stage high pressure
2. Second stage low pressure
3. Unloading valve

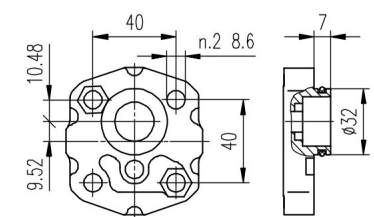
FRONT COVER



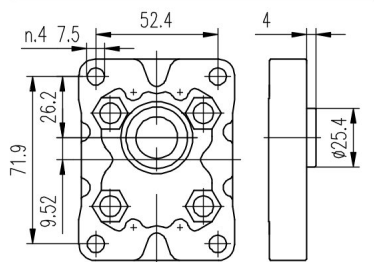
Q0



Q1

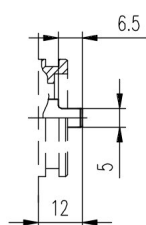


Q2



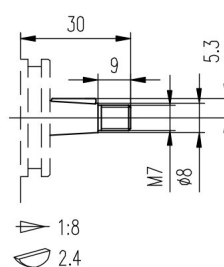
B0

SHAFTS



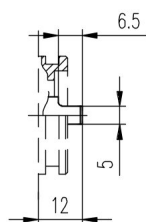
G0

Max.Torque 20 Nm



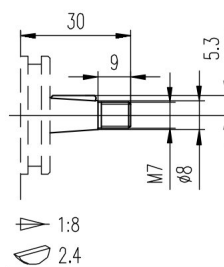
T0

Max.Torque 25 Nm



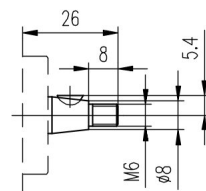
G0

Max.Torque 20 Nm



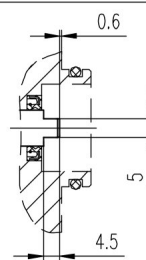
T0

Max.Torque 25 Nm



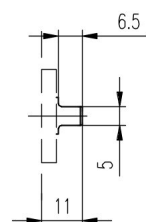
T1

Max.Torque 23 Nm



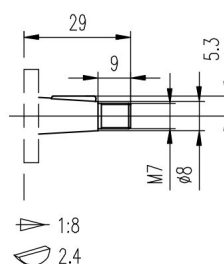
G1

Max.Torque 20 Nm



G0

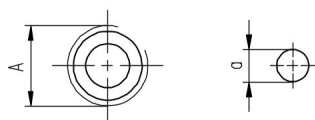
Max.Torque 20 Nm



T0

Max.Torque 25 Nm

PORTS



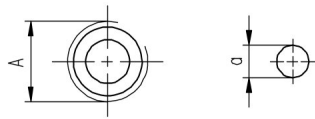
L0

TYPE	INLET	OUTLET
	A	a
1PUA...0.8 ÷ 1PUA...8.0	G1/4	ø9



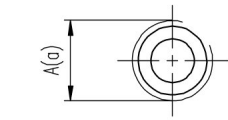
L1

TYPE	INLET	OUTLET
	A	a
1PUA...0.8 ÷ 1PUA...8.0	G3/8	ø9



NO

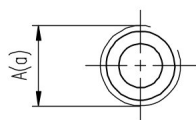
TYPE	INLET	OUTLET
	A	a
1PUA...0.8 ÷ 1PUA...8.0	3/8 NPT	ø9



L2

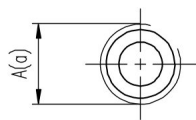
TYPE	INLET	OUTLET
	A	a
1PUA...0.8 ÷ 1PUA...8.0	G3/8	G1/4

PORTS



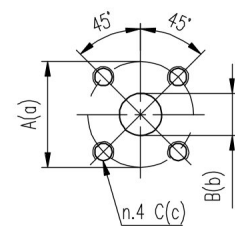
L3

TYPE	INLET	OUTLET
	A	a
1PUA...0.8 ÷ 1PUA...8.0	G3/8	G3/8



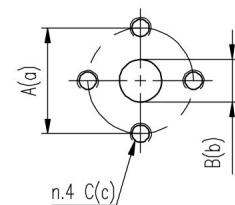
Z0

TYPE	INLET	OUTLET
	A	a
1PUA...0.8 ÷ 1PUA...8.0	M18x1.5	M14x1.5



F0

TYPE	INLET			OUTLET		
	A	B	C	a	b	c
1PUA...0.8 ÷ 1PUA...8.0	30	12	M6	30	12	M6



E0

TYPE	INLET			OUTLET		
	A	B	C	a	b	c
1PUA...0.8 ÷ 1PUA...8.0	30	12	M6	30	12	M6