

BKP1

HOW TO ORDER

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

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°C, inlet pressure up to max. 3 bar absolute.
 V-Version suitable for fluid at hi-temperatures, range between -10°C and +120°C.
 H-Version suitable for fluid at low-temperatures, range between -40°C and +80°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:

BKP1-Q0-D-0.8-G0-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

BKP1-Q1-D-0.8-G0-L3= clockwise rotation, 0.8 cc/rev, Q1 front cover, G0 tang shaft, setting ports L3 type, standard seals

BKP1-B0-D-0.8-T0-F0-N= clockwise rotation, 0.8 cc/rev, B0 front cover, 1:8 tapered shaft(T0), setting ports F0 type, high pressure seals(N)

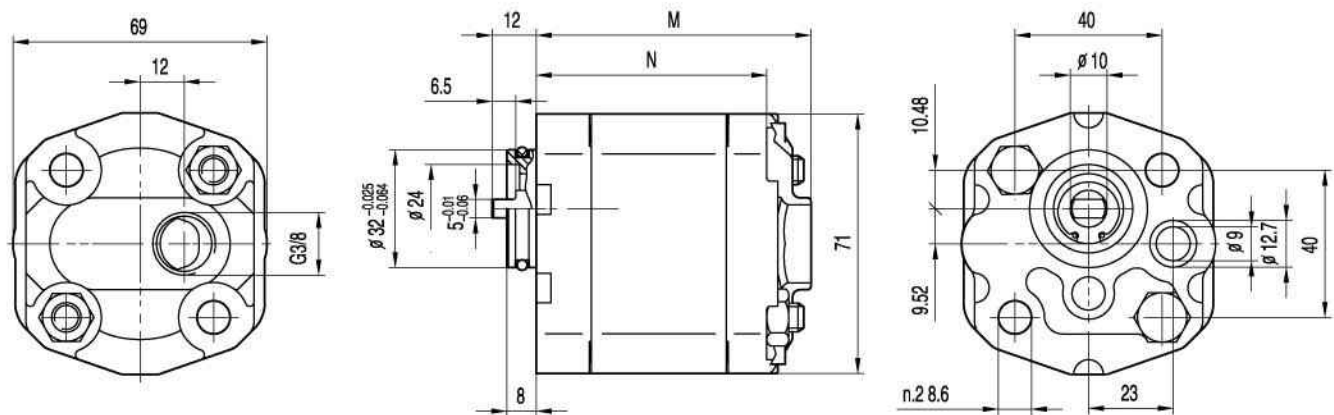
BKP1Q0



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
BKP1Q0-D-0.8	0.8	230	250	270	6000	1000	73.5	61.5
BKP1Q0-D-1.1	1.1	230	250	270	6000	1000	74	62
BKP1Q0-D-1.3	1.3	230	250	270	6000	1000	75	63
BKP1Q0-D-1.6	1.6	230	250	270	6000	1000	76	64
BKP1Q0-D-1.8	1.8	230	250	270	6000	1000	77	65
BKP1Q0-D-2.1	2.1	230	250	270	6000	1000	78	66
BKP1Q0-D-2.7	2.7	230	250	270	6000	800	80	68
BKP1Q0-D-3.2	3.2	210	230	250	5000	800	82	70
BKP1Q0-D-3.7	3.7	210	230	250	4500	800	84	72
BKP1Q0-D-4.2	4.2	210	230	250	4000	800	86	74
BKP1Q0-D-4.8	4.8	190	210	230	3500	600	88	76
BKP1Q0-D-5.8	5.8	190	210	230	3000	600	92	80
BKP1Q0-D-7.0	7.0	160	180	200	2500	600	96	84
BKP1Q0-D-8.0	8.0	160	180	200	2100	600	100	88

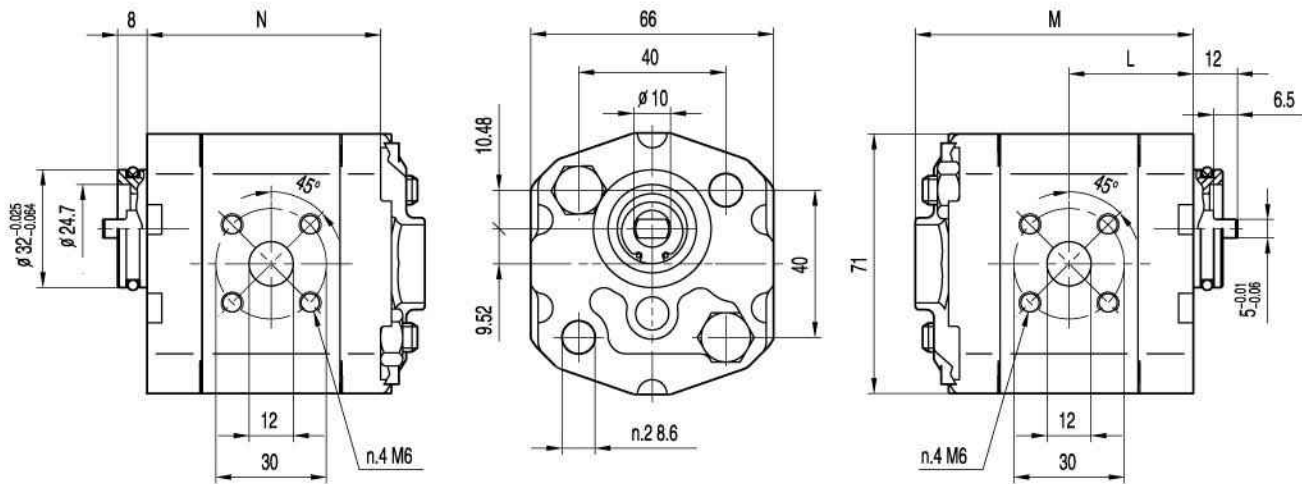
BKP1Q1



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 (cm³/rev)	Max pressure			Max. speed (r/min)	Min. speed (r/min)	Dimensions		
		P1 bar	P2 bar	P3 bar			M mm	N mm	L mm
BKP1Q1-D-0.8	0.8	230	250	270	6000	1000	73.5	61.5	32.8
BKP1Q1-D-1.1	1.1	230	250	270	6000	1000	74	62	33
BKP1Q1-D-1.3	1.3	230	250	270	6000	1000	75	63	33.5
BKP1Q1-D-1.6	1.6	230	250	270	6000	1000	76	64	34
BKP1Q1-D-1.8	1.8	230	250	270	6000	1000	77	65	34.5
BKP1Q1-D-2.1	2.1	230	250	270	6000	1000	78	66	35
BKP1Q1-D-2.7	2.7	230	250	270	6000	800	80	68	36
BKP1Q1-D-3.2	3.2	210	230	250	5000	800	82	70	37
BKP1Q1-D-3.7	3.7	210	230	250	4500	800	84	72	38
BKP1Q1-D-4.2	4.2	210	230	250	4000	800	86	74	39
BKP1Q1-D-4.8	4.8	190	210	230	3500	600	88	76	40
BKP1Q1-D-5.8	5.8	190	210	230	3000	600	92	80	42
BKP1Q1-D-7.0	7.0	160	180	200	2500	600	96	84	44
BKP1Q1-D-8.0	8.0	160	180	200	2100	600	100	88	46

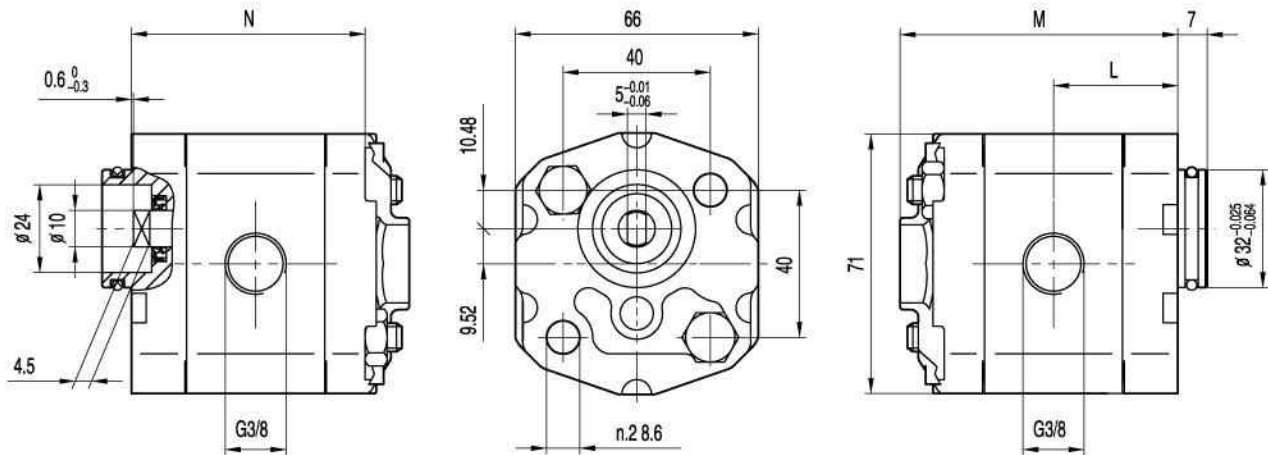
BKP1Q2



G3/8 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 (cm³/rev)	Max pressure			Max. speed (r/min)	Min. speed (r/min)	Dimensions		
		P1 bar	P2 bar	P3 bar			M mm	N mm	L mm
BKP1Q2-D-0.8	0.8	230	250	270	6000	1000	73.5	61.5	32.8
BKP1Q2-D-1.1	1.1	230	250	270	6000	1000	74	62	33
BKP1Q2-D-1.3	1.3	230	250	270	6000	1000	75	63	33.5
BKP1Q2-D-1.6	1.6	230	250	270	6000	1000	76	64	34
BKP1Q2-D-1.8	1.8	230	250	270	6000	1000	77	65	34.5
BKP1Q2-D-2.1	2.1	230	250	270	6000	1000	78	66	35
BKP1Q2-D-2.7	2.7	230	250	270	6000	800	80	68	36
BKP1Q2-D-3.2	3.2	210	230	250	5000	800	82	70	37
BKP1Q2-D-3.7	3.7	210	230	250	4500	800	84	72	38
BKP1Q2-D-4.2	4.2	210	230	250	4000	800	86	74	39
BKP1Q2-D-4.8	4.8	190	210	230	3500	600	88	76	40
BKP1Q2-D-5.8	5.8	190	210	230	3000	600	92	80	42
BKP1Q2-D-7.0	7.0	160	180	200	2500	600	96	84	44
BKP1Q2-D-8.0	8.0	160	180	200	2100	600	100	88	46

BKP1B0



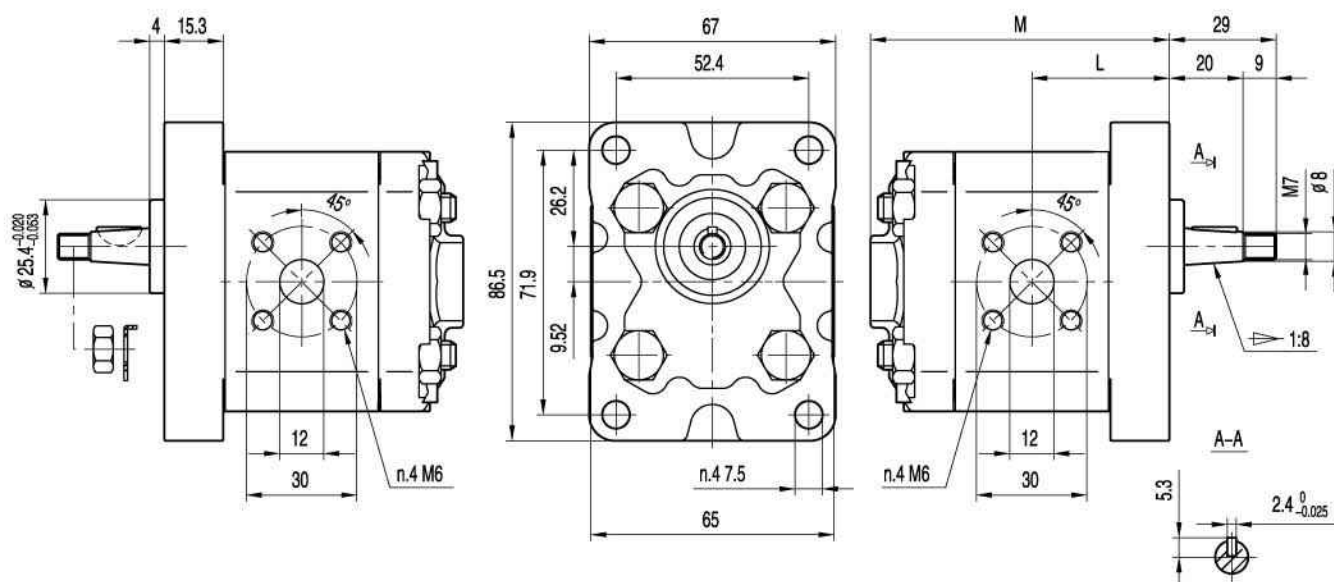
M6 thread depth 12.

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

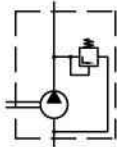


Type	Displacement (cm ³ /rev)	Max pressure			Max. speed (r/min)	Min. speed (r/min)	Dimensions	
		P1 bar	P2 bar	P3 bar			M mm	L mm
BKP1B0-D-0.8	0.8	230	250	270	6000	1000	73.5	32.8
BKP1B0-D-1.1	1.1	230	250	270	6000	1000	74	33
BKP1B0-D-1.3	1.3	230	250	270	6000	1000	75	33.5
BKP1B0-D-1.6	1.6	230	250	270	6000	1000	76	34
BKP1B0-D-1.8	1.8	230	250	270	6000	1000	77	34.5
BKP1B0-D-2.1	2.1	230	250	270	6000	1000	78	35
BKP1B0-D-2.7	2.7	230	250	270	6000	800	80	36
BKP1B0-D-3.2	3.2	210	230	250	5000	800	82	37
BKP1B0-D-3.7	3.7	210	230	250	4500	800	84	38
BKP1B0-D-4.2	4.2	210	230	250	4000	800	86	39
BKP1B0-D-4.8	4.8	190	210	230	3500	600	88	40
BKP1B0-D-5.8	5.8	190	210	230	3000	600	92	42
BKP1B0-D-7.0	7.0	160	180	200	2500	600	96	44
BKP1B0-D-8.0	8.0	160	180	200	2100	600	100	46

BKP1B0-Y

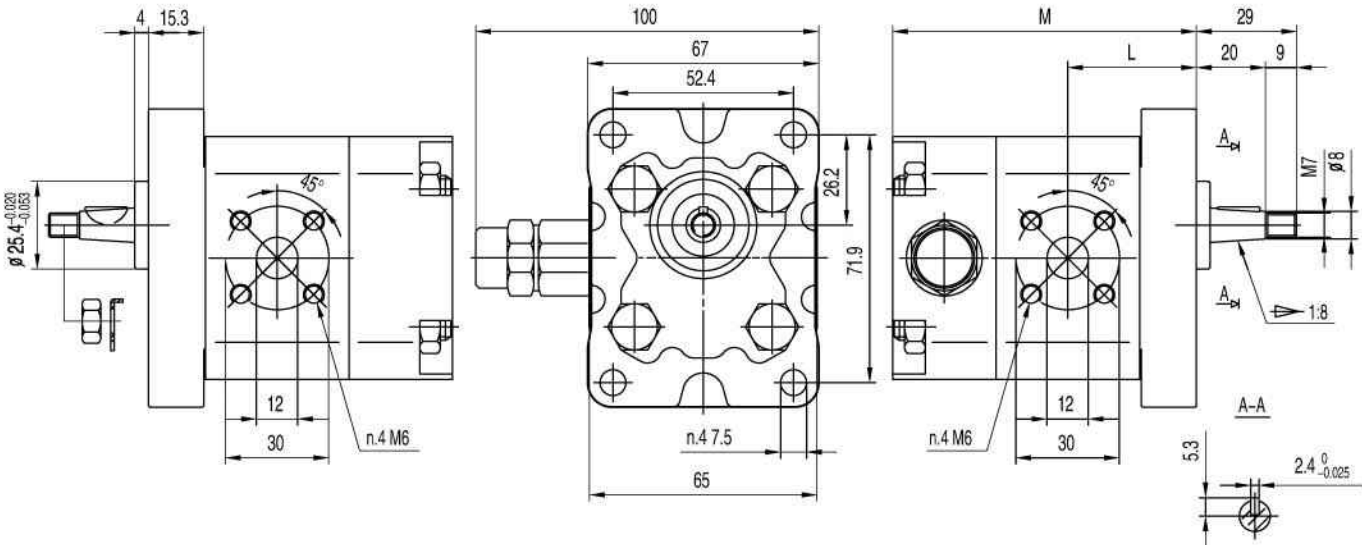


M6 thread depth 12.
 To mount the pump, n.4 M8 screws,
 with a torque wrench setting fixed
 at 27 ± 3 Nm.
 Shaft M7 nut, with a torque wrench
 setting fixed at 8 Nm.



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
BKP1B0-D-0.8-Y	0.8	230	250	270	6000	1000	82.5	32.8
BKP1B0-D-1.1-Y	1.1	230	250	270	6000	1000	83	33
BKP1B0-D-1.3-Y	1.3	230	250	270	6000	1000	84	33.5
BKP1B0-D-1.6-Y	1.6	230	250	270	6000	1000	85	34
BKP1B0-D-1.8-Y	1.8	230	250	270	6000	1000	86	34.5
BKP1B0-D-2.1-Y	2.1	230	250	270	6000	1000	87	35
BKP1B0-D-2.7-Y	2.7	230	250	270	6000	800	89	36
BKP1B0-D-3.2-Y	3.2	210	230	250	5000	800	91	37
BKP1B0-D-3.7-Y	3.7	210	230	250	4500	800	93	38
BKP1B0-D-4.2-Y	4.2	210	230	250	4000	800	95	39
BKP1B0-D-4.8-Y	4.8	190	210	230	3500	600	97	40
BKP1B0-D-5.8-Y	5.8	190	210	230	3000	600	101	42
BKP1B0-D-7.0-Y	7.0	160	180	200	2500	600	105	44
BKP1B0-D-8.0-Y	8.0	160	180	200	2100	600	109	46

BHLP1

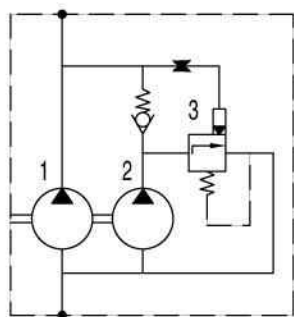
HIGH-LOW MUULTIPLE PUMPS

BHLP1 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.

BHLP1 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 /r ev to 3.2cm ³ /r ev- P1= 230 bar
Second stage High displacement low pressure	From 3.7cm ³ /r ev to 9.8cm ³ /r ev- (Pressure set by unloading valve)
Unloading valve	Standard setting 35 bar
RPM pump range	From 1000 rpm to 3500 rpm
Flanges and shafts	Ref. BKP1 catalogue
Ports	Common inlet. Common outlet. Side ports code L5



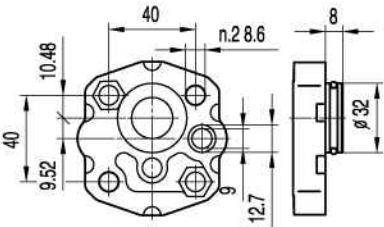
1. First stage high pressure
2. Second stage low pressure
3. Unloading valve



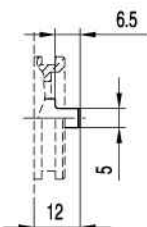
BKP1

FRONT COVER

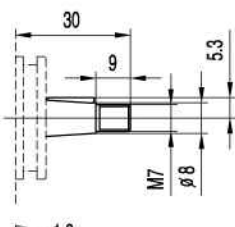
SHAFTS



Q0



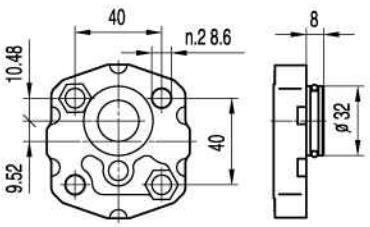
G0



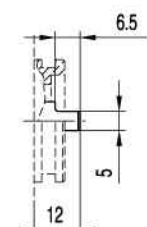
T0

Max.Torque 20 Nm

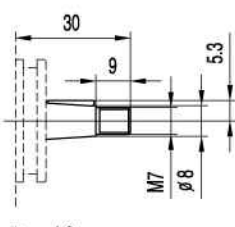
Max.Torque 25 Nm



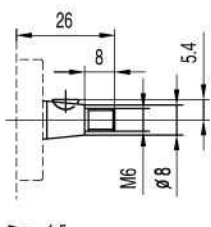
Q1



G0



T0

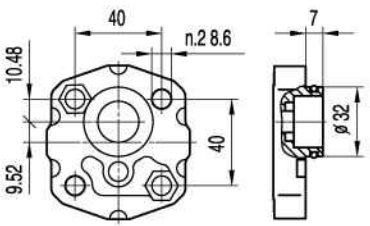


T1

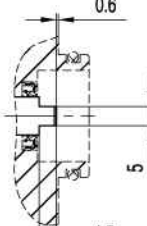
Max.Torque 20 Nm

Max.Torque 25 Nm

Max.Torque 23 Nm

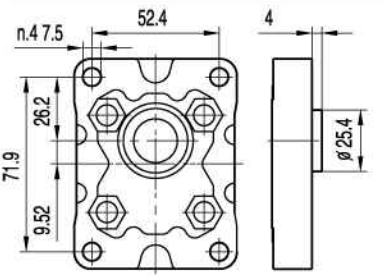


Q2

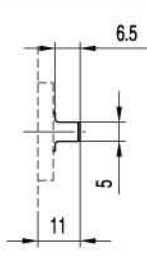


G1

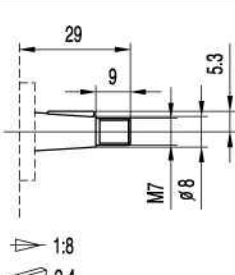
Max.Torque 20 Nm



B0



G0



T0

Max.Torque 20 Nm

Max.Torque 25 Nm

BKP1

PORTS



L0

TYPE	INLET	OUTLET
	A	a
BKP1...0.8 ÷ BKP1...8.0	G1/4	ø 9



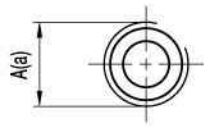
L1

TYPE	INLET	OUTLET
	A	a
BKP1...0.8 ÷ BKP1...8.0	G3/8	ø 9



N0

TYPE	INLET	OUTLET
	A	a
BKP1...0.8 ÷ BKP1...8.0	3/8 NPT	ø 9

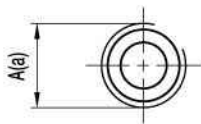


L2

TYPE	INLET	OUTLET
	A	a
BKP1...0.8 ÷ BKP1...8.0	G3/8	G1/4

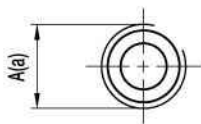
BKP1

PORTS



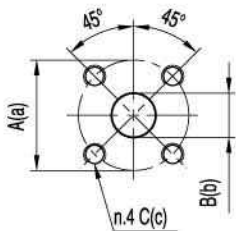
L3

TYPE	INLET	OUTLET
	A	a
BKP1...0.8 ÷ BKP1...8.0	G3/8	G3/8



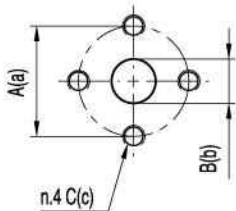
Z0

TYPE	INLET	OUTLET
	A	a
BKP1...0.8 ÷ BKP1...8.0	M18x1.5	M14x1.5



F0

TYPE	INLET			OUTLET		
	A	B	C	a	b	c
BKP1...0.8 ÷ BKP1...8.0	30	12	M6	30	12	M6



E0

TYPE	INLET			OUTLET		
	A	B	C	a	b	c
BKP1...0.8 ÷ BKP1...8.0	30	12	M6	30	12	M6