

HOW TO ORDER

1	P	LA/HA	Size	Rotation	Shaft	Front cover	Ports	Ports position	Seals	Options
Group	P- Pump M- Motor	Series LA-Front and end cover material aluminum BH-Front and end cover material cast iron, pressure than "BA" series high 30 bar.	1.4 2.1 2.8 3.5 4.1 5.2 6.2 7.6 9.3 11.0 13.8	D Clockwise S Counter clockwise R Reversible		B0 A0 Q0				
										Options
										Drain
										Q0- internal drain
										Q1- external drain G1/4
										Q2- external drain 7/16-20 UNF
										Q3- external drain 9/16-18 UNF

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:

1PLA-1.4-D-T0-B0-E0 =
clockwise rotation, 1.4 cc/rev, B0 front cover, 1:8 tapered shaft(T0), setting ports E0 type, standard seals
1PLA-1.4-D-A0-C0-R0 =
clockwise rotation, 1.4 cc/rev, A0 front cover, C0 parallel shaft, setting ports R0 type, standard seals
1PLA-1.4-D-C2-Q0-U0-N=
clockwise rotation, 1.4 cc/rev, Q0 front cover, C2 parallel shaft, setting ports U0 type, high pressure seals(N)

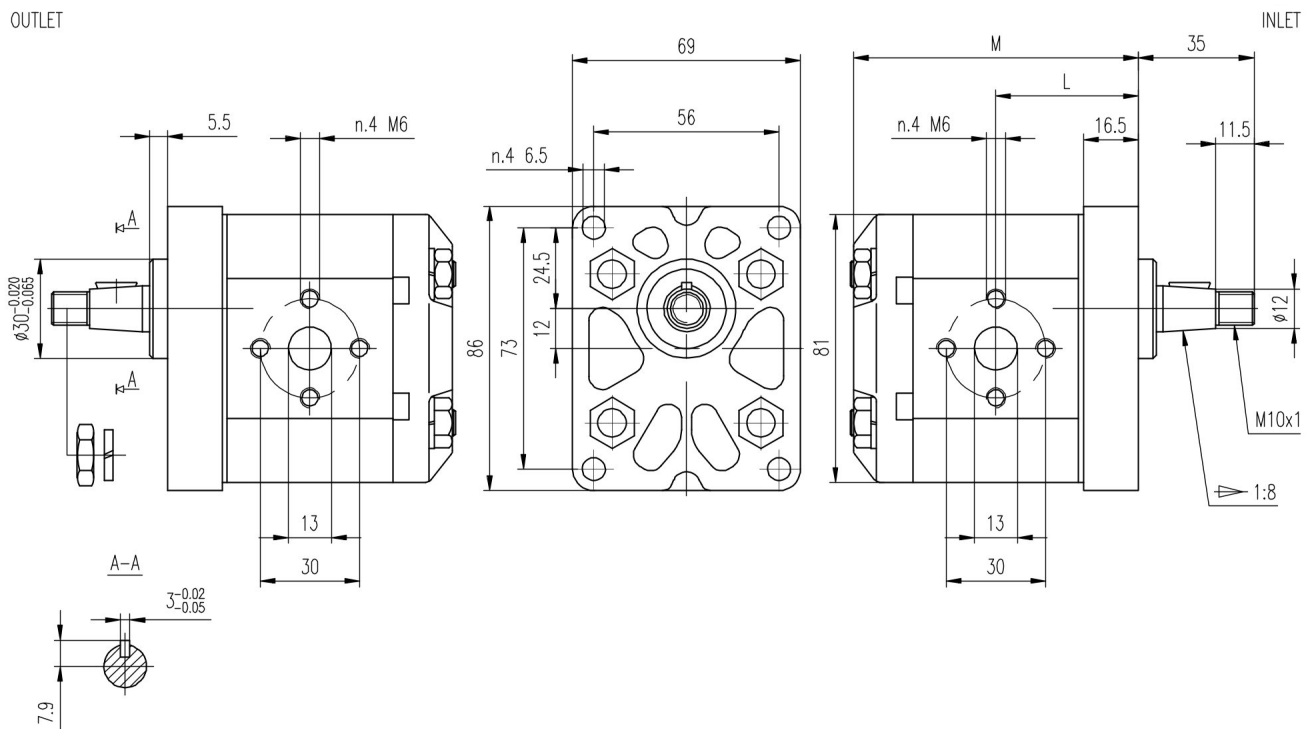


M6 thread depth 13.

To mount the pump, n.4 M8 screws,
with a torque wrench setting fixed
at 27 ± 3 Nm.

Shaft M10 nut, with a torque wrench
setting fixed at 40 Nm.

OUTLET



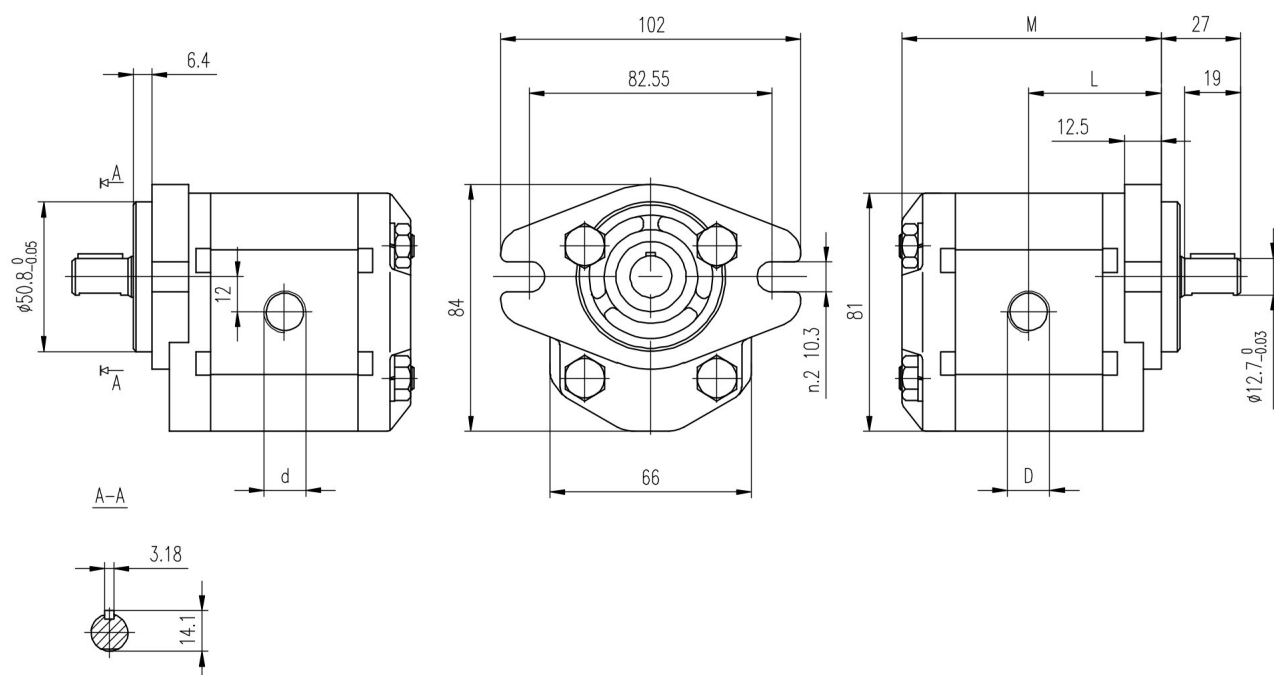
Type	Displacement (cm ³ /rev)	Max pressure			Max. speed (r/min)	Min. speed (r/min)	Dimensions	
		P1 bar	P2 bar	P3 bar			M mm	L mm
1PLA-1.4-D*B0	1.4	250	270	290	6000	800	80.5	40
1PLA-2.1-D*B0	2.1	250	270	290	6000	800	82.5	41
1PLA-2.8-D*B0	2.8	250	270	290	5000	800	84.5	42
1PLA-3.5-D*B0	3.5	250	270	290	5000	800	86.5	43
1PLA-4.1-D*B0	4.1	250	270	290	4000	800	88.5	44
1PLA-5.2-D*B0	5.2	230	245	260	4000	800	91.5	45.5
1PLA-6.2-D*B0	6.2	230	245	260	3800	800	94.5	47
1PLA-7.6-D*B0	7.6	200	215	230	3200	600	98.5	49
1PLA-9.3-D*B0	9.3	180	195	210	2600	600	103.5	51.5
1PLA-11.0-D*B0	11.0	170	185	200	2200	600	108.5	54
1PLA-13.8-D*B0	13.8	150	165	180	1800	600	116.5	58

"D" and "d" ports are machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1(ISO J1926-1).

To mount the pump, n.4 M8 screws, with a torque wrench setting fixed at 27 ± 3 Nm.

OUTLET

INLET

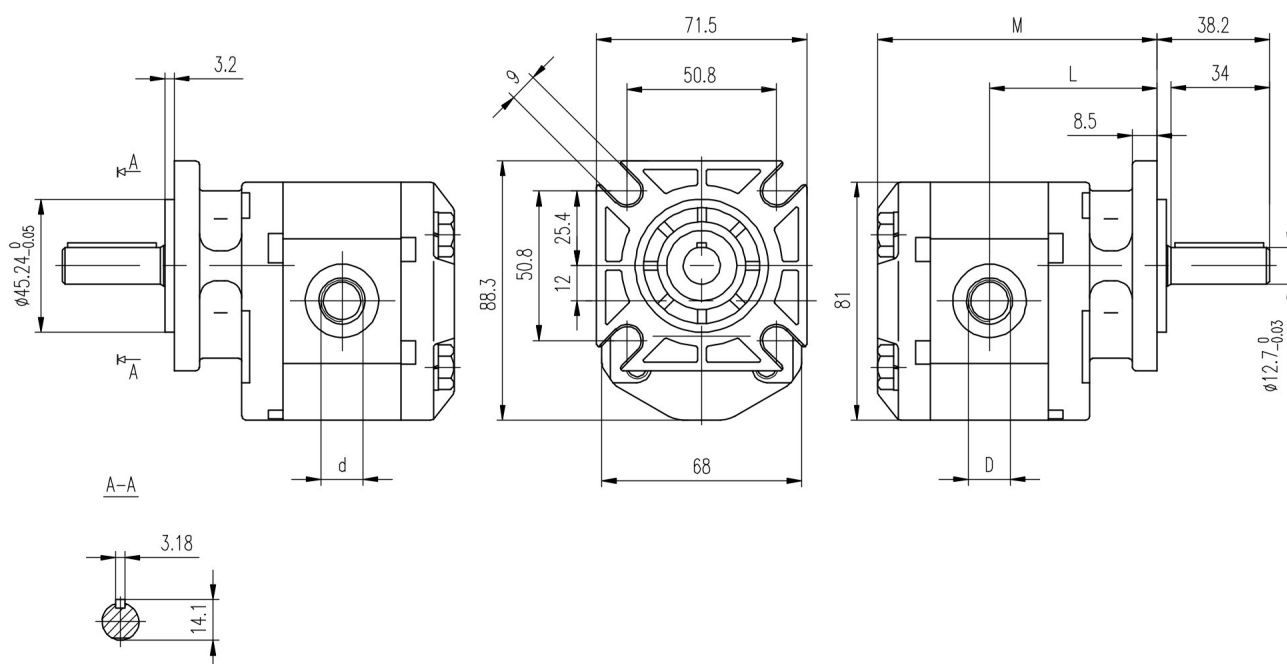


Type	Displacement (cm ³ /rev)	Max pressure			Max. speed (r/min)	Min. speed (r/min)	Dimensions			
		P1 bar	P2 bar	P3 bar			M mm	L mm	D	d
1PLA-1.4-D*AO	1.4	250	270	290	6000	800	82.5	42	PT1/2	PT3/8
1PLA-2.1-D*AO	2.1	250	270	290	6000	800	84.5	43	PT1/2	PT3/8
1PLA-2.8-D*AO	2.8	250	270	290	5000	800	86.5	44	PT1/2	PT3/8
1PLA-3.5-D*AO	3.5	250	270	290	5000	800	88.5	45	PT1/2	PT3/8
1PLA-4.1-D*AO	4.1	250	270	290	4000	800	90.5	46	PT1/2	PT3/8
1PLA-5.2-D*AO	5.2	230	245	260	4000	800	93.5	47.5	PT1/2	PT3/8
1PLA-6.2-D*AO	6.2	230	245	260	3500	800	96.5	49	PT1/2	PT3/8
1PLA-7.6-D*AO	7.6	200	215	230	3000	600	100.5	51	PT3/4	PT1/2
1PLA-9.3-D*AO	9.3	180	195	210	2500	600	105.5	53.5	PT3/4	PT1/2
1PLA-11.0-D*AO	11.0	170	185	200	2500	600	110.5	56	PT3/4	PT1/2
1PLA-13.8-D*AO	13.8	150	165	180	2000	600	118.5	60	PT3/4	PT1/2

"D" and "d" ports are machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1 (ISO J1926-1).
To mount the pump, n.4 M8 screws, with a torque wrench setting fixed at 27 ± 3 Nm.

OUTLET

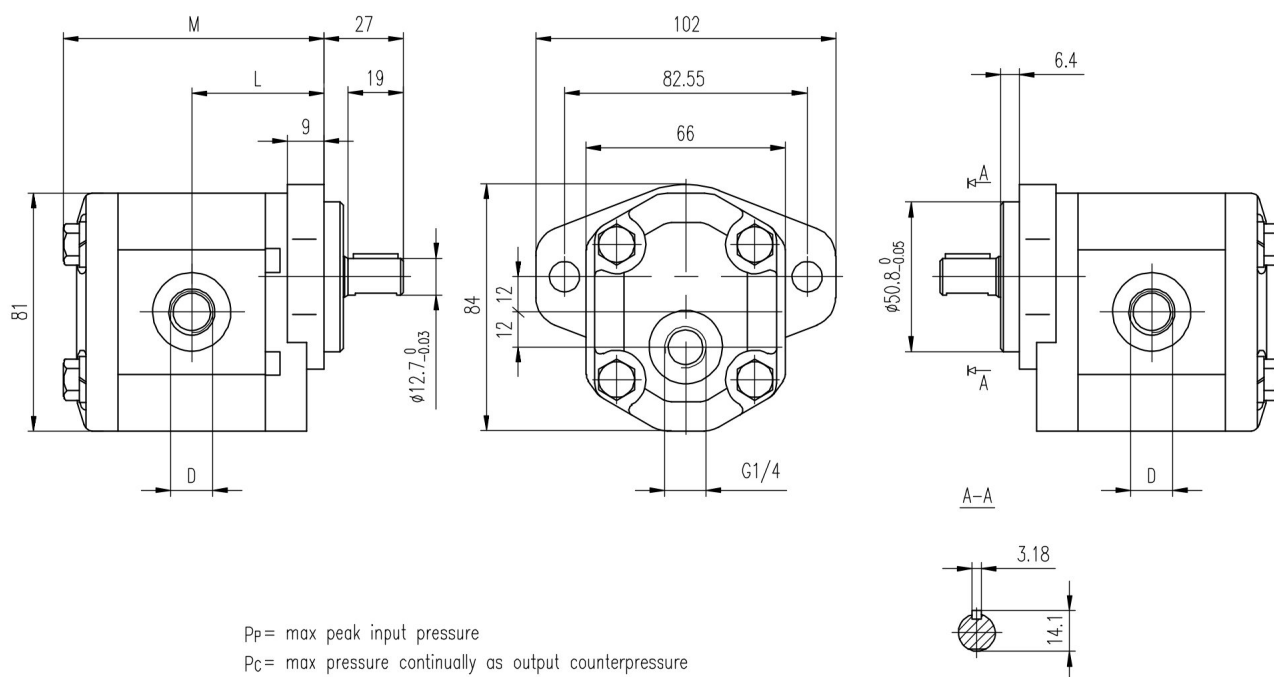
INLET



Type	Displacement (cm ³ /rev)	Max pressure			Max. speed (r/min)	Min. speed (r/min)	Dimensions			
		P1 bar	P2 bar	P3 bar			M mm	L mm	D	d
1PLA-1.4-D*Q0	1.4	250	270	290	6000	800	98	59	3/4-16UNF	9/16-18UNF
1PLA-2.1-D*Q0	2.1	250	270	290	6000	800	100	60	3/4-16UNF	9/16-18UNF
1PLA-2.8-D*Q0	2.8	250	270	290	5000	800	102	61	3/4-16UNF	9/16-18UNF
1PLA-3.5-D*Q0	3.5	250	270	290	5000	800	104	62	3/4-16UNF	9/16-18UNF
1PLA-4.1-D*Q0	4.1	250	270	290	4000	800	106	63	3/4-16UNF	9/16-18UNF
1PLA-5.2-D*Q0	5.2	230	245	260	4000	800	109	64.5	3/4-16UNF	9/16-18UNF
1PLA-6.2-D*Q0	6.2	230	245	260	3500	800	112	66	3/4-16UNF	9/16-18UNF
1PLA-7.6-D*Q0	7.6	200	215	230	3000	600	116	68	7/8-14UNF	3/4-16UNF
1PLA-9.3-D*Q0	9.3	180	195	210	2500	600	121	70.5	7/8-14UNF	3/4-16UNF
1PLA-11.0-D*Q0	11.0	170	185	200	2500	600	126	73	7/8-14UNF	3/4-16UNF
1PLA-13.8-D*Q0	13.8	150	165	180	2000	600	134	77	7/8-14UNF	3/4-16UNF

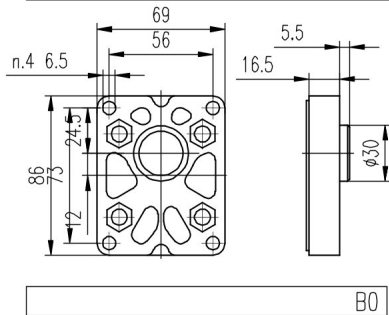


"D" and "d" ports are machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1(ISO J1926-1).
To mount the pump, n.4 M8 screws, with a torque wrench setting fixed at 30 ± 3 Nm.



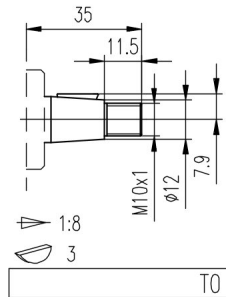
Iype	Displacement (cm ³ /rev)	Max pressure			Max. speed (r/min)	Min. speed (r/min)	Dimensions		
		P_I bar	P_C bar	P_P bar			M mm	L mm	D
1MHA-1.4R*AO-Q1	1.4	270	260	290	5000	800	82.5	42	3/4-16UNF
1MHA-2.1R*AO-Q1	2.1	270	260	290	5000	800	84.5	43	3/4-16UNF
1MHA-2.8R*AO-Q1	2.8	270	260	290	5000	800	86.5	44	3/4-16UNF
1MHA-3.5R*AO-Q1	3.5	270	260	290	5000	800	88.5	45	3/4-16UNF
1MHA-4.1R*AO-Q1	4.1	270	260	290	4000	800	90.5	46	3/4-16UNF
1MHA-5.2R*AO-Q1	5.2	260	250	275	3500	800	93.5	47.5	3/4-16UNF
1MHA-6.2R*AO-Q1	6.2	260	250	275	3000	800	96.5	49	3/4-16UNF
1MHA-7.6R*AO-Q1	7.6	230	220	245	3000	600	100.5	51	7/8-14UNF
1MHA-9.3R*AO-Q1	9.3	210	200	225	3000	600	105.5	53.5	7/8-14UNF
1MHA-11.0R*AO-Q1	11.0	200	190	215	2500	600	110.5	56	7/8-14UNF
1MHA-13.8R*AO-Q1	13.8	180	170	195	2200	600	118.5	60	7/8-14UNF

FRONT COVER

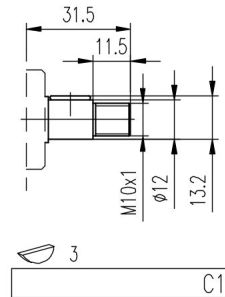


B0

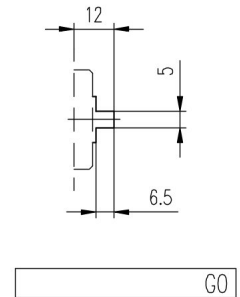
SHAFTS



T0



C1

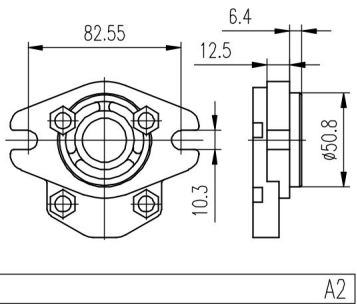


G0

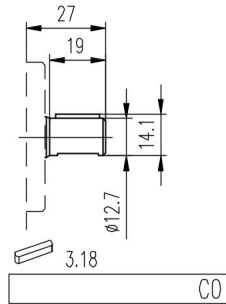
Max.Torque 100 Nm

Max.Torque 55 Nm

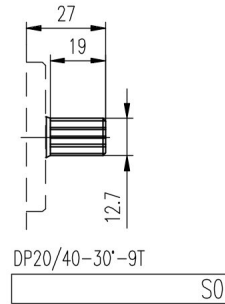
Max.Torque 45 Nm



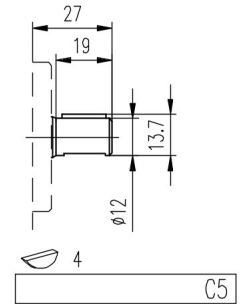
A2



C0



S0

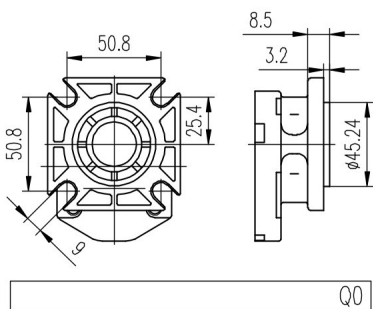


C5

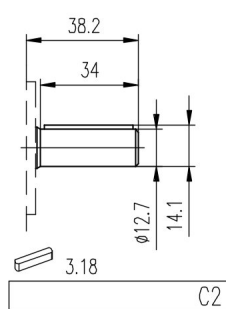
Max.Torque 60 Nm

Max.Torque 100 Nm

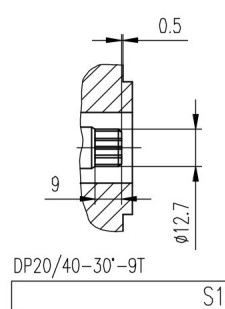
Max.Torque 70 Nm



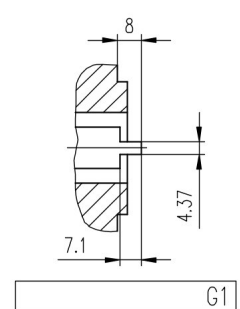
Q0



C2



S1



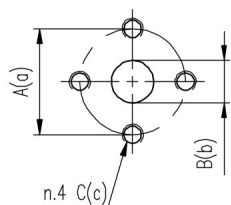
G1

Max.Torque 100 Nm

Max.Torque 95 Nm

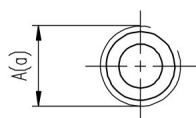
Max.Torque 45 Nm

PORTS



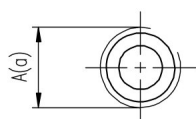
E0

TYPE	INLET			OUTLET		
	A	B	C	a	b	c
1PLA...1.4 ÷ 1PLA...13.8	30	13	M6	30	13	M6



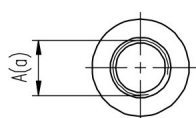
L0/L1/L2/L3

TYPE	PORTS CODE	INLET	OUTLET
		A	a
1PLA...1.4 ÷ 1PLA...3.5	L0	G1/2	G3/8
1PLA...4.1 ÷ 1PLA...13.8	L1	G1/2	G1/2
1PLA...1.4 ÷ 1PLA...3.5	L2	G3/8	G3/8
1PLA...4.1 ÷ 1PLA...13.8	L3	G3/4	G1/2



R0/R1/R2/R3

TYPE	PORTS CODE	INLET	OUTLET
		A	a
1PLA...1.4 ÷ 1PLA...6.2	R0	PT1/2	PT3/8
1PLA...7.6 ÷ 1PLA...13.8	R1	PT3/4	PT1/2
1PLA...1.4 ÷ 1PLA...13.8	R2	PT1/2	PT1/2
1PLA...1.4 ÷ 1PLA...6.2	R3	PT3/8	PT3/8



U0/U1/U2/U3

TYPE	PORTS CODE	INLET	OUTLET
		A	a
1PLA...1.4 ÷ 1PLA...6.2	U0	3/4-16UNF	9/16-18UNF
1PLA...7.6 ÷ 1PLA...13.8	U1	7/8-14UNF	3/4-16UNF
1MHA...1.4 ÷ 1MHA...6.2	U2	3/4-16UNF	3/4-16UNF
1MHA...7.6 ÷ 1MHA...13.8	U3	7/8-14UNF	7/8-14UNF