

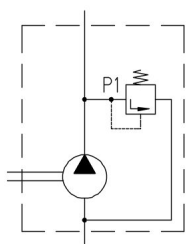
HOW TO ORDER

2	P	LA/HA	Size	Rotation	Shaft	Front cover	Ports	Ports position	Seals	Options
Group	P- Pump M- Motor	Series	3 4 6 8 10 12 14 16 18 20 22 25 28 30	D Clockwise S Counter clockwise R Reversible		A0 B0 B1 B2 Q0 Q1 Q2		Ports position Omit-Side inlet and side 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		
		LA-Front and end cover material aluminum HA-Front and end cover material cast iron, pressure than "BA" series high 30 bar.						Drain internal drain external drain G1/4 external drain 9/16-18 UNF external drain 7/16-20 UNF external drain M12x1.5		

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.

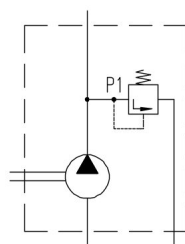
Options



Pressure relief valve.
Discharge returned to suction.
P1= 5...250 bar.

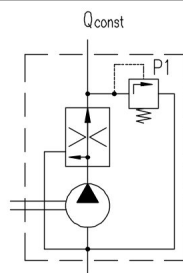
Ordering code

Y 180xx



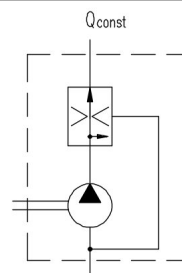
Pressure relief valve.
Discharge returned to externally.
P1= 5...250 bar.

P 120xx



3-way flow control valve
with pressure relief valve.
Excess flow returned to suction.
P1= 100...180 bar.
Qconst= 2...30 L/min.

F 15015



3-way flow control valve.
Excess flow returned to suction.
Qconst= 2...30 L/min.

Q xxx15

Examples:

2PHA-3-D-T0-B0-E0 =

clockwise rotation, 3 cc/rev, B0 front cover, 1:8 tapered shaft(T0), setting ports E0 type, standard seals

2PLA-3-D-C0-A0-U0 =

clockwise rotation, 3 cc/rev, A0 front cover, C0 parallel shaft, setting ports U0 type, standard seals

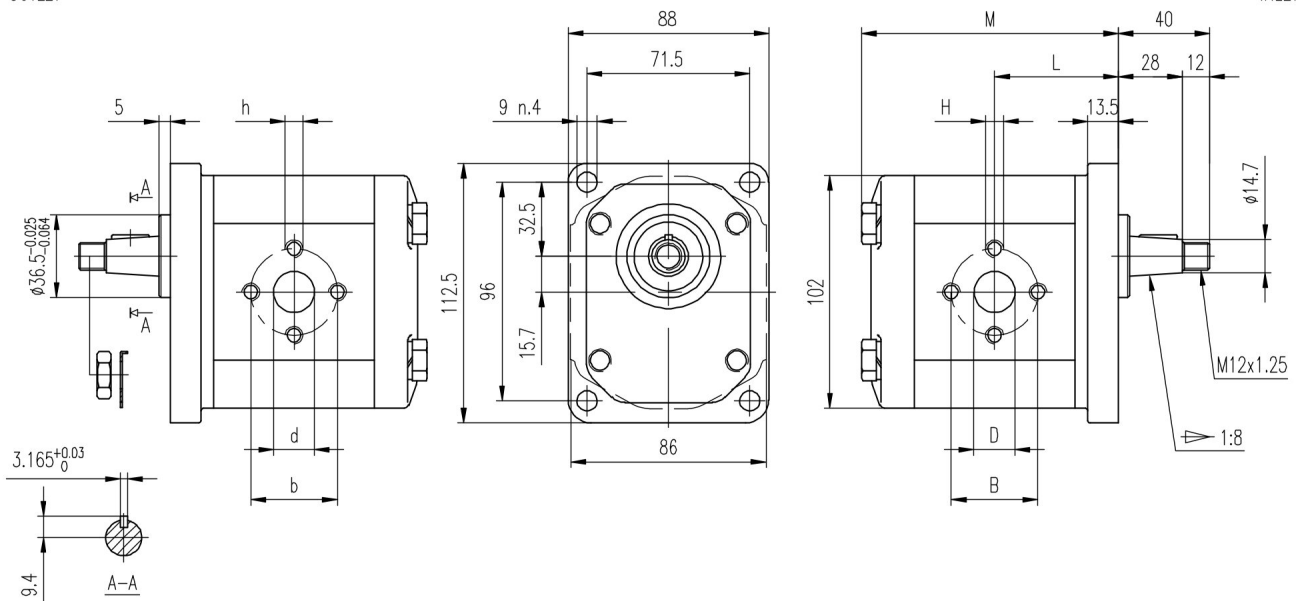
2PHA-3-D-T1-Q0-F0-N=

clockwise rotation, 3 cc/rev, Q0 front cover, 1:8 tapered shaft(T0), setting ports F0 type, high pressure seals(N)

M6 thread depth 13, M8 thread depth 17.
 To mount the pump, n.4 M10 screws,
 with a torque wrench setting fixed
 at 70...75 Nm.
 Shaft M12x1.25 nut, with a torque
 wrench setting fixed at 50 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	B mm	D mm	H mm	b mm	d mm	h mm
2PHA-3-D*B0	3	270	285	300	4000	800	91.1	43.6	30	13	M6	30	13	M6
2PHA-4-D*B0	4	270	285	300	4000	600	92.7	44.4	30	13	M6	30	13	M6
2PHA-6-D*B0	6	270	285	300	4000	600	96	46	30	13	M6	30	13	M6
2PHA-8-D*B0	8	270	285	300	3500	500	99.3	47.7	30	13	M6	30	13	M6
2PHA-10-D*B0	10	270	285	300	3000	500	102.6	49.3	40	20	M8	30	13	M6
2PHA-12-D*B0	12	270	285	300	3000	500	105.9	51	40	20	M8	30	13	M6
2PHA-14-D*B0	14	250	265	280	4000	500	109.3	52.7	40	20	M8	30	13	M6
2PHA-16-D*B0	16	250	265	280	4000	500	112.7	54.4	40	20	M8	30	13	M6
2PHA-18-D*B0	18	250	265	280	3600	400	116	56	40	20	M8	30	13	M6
2PHA-20-D*B0	20	220	235	250	3200	400	119.3	57.7	40	20	M8	30	13	M6
2PHA-22-D*B0	22	220	235	250	3000	400	122.6	59.3	40	20	M8	30	13	M6
2PHA-25-D*B0	25	200	215	230	3000	400	127.6	61.8	40	22	M8	30	13	M6
2PHA-28-D*B0	28	180	190	200	2500	400	132.6	64.3	40	22	M8	30	13	M6
2PHA-30-D*B0	30	160	170	180	2500	400	135.9	66	40	22	M8	30	13	M6