

ByPass Valve for Hydraulic Bent Axis Piston Pumps 12V ByPass Valve 24V ByPass Valve

Designation;

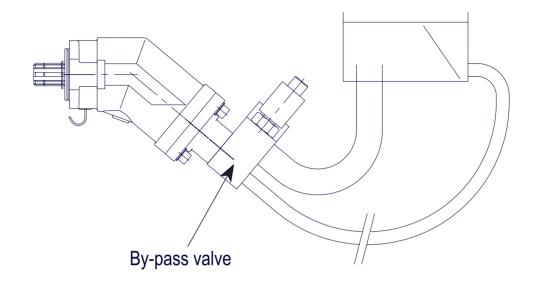
12V ByPass Valve 24V ByPass Valve



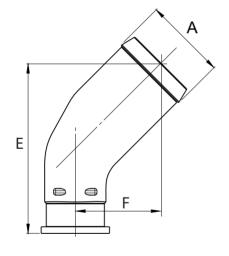
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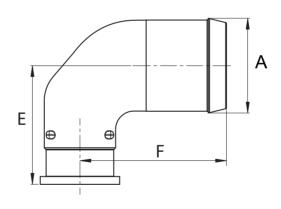


45° elbow fittings



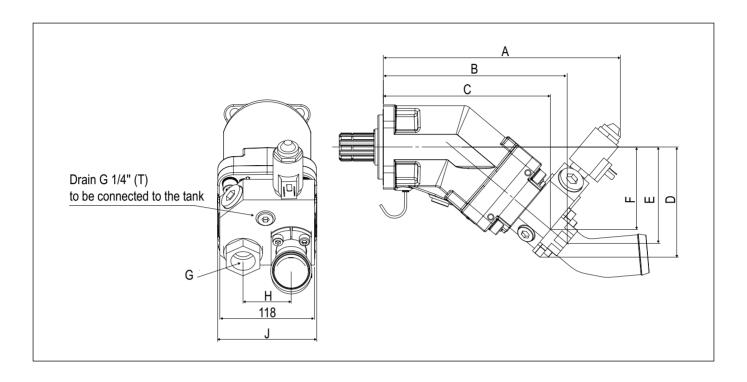
Ø hose	ØA	E	F	
1 1/2"	39.1	91.7	46.7	
42	43	91.7	46.7	
1 3/4"	46	91.7	46.7	
2"	51.8	108.4	54.4	
2 1/2"	64.5	125.2	62.2	

90° elbow fittings



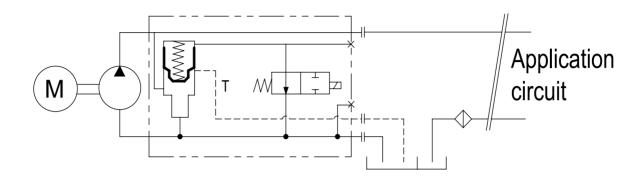
Ø hose	ØA	Е	F
1 1/2"	39.1	58.6	79.5
2"	51.8	64.9	80.2
2 1/2"	64.5	71.3	87.5





Pump MODEL	DISPL. (cc)	A	В	С	D	E	F	G	н	J
5 cc	5.1	289.35	223.04	202.19	132.20	114.72	97.58	G 3/4"	54	108
10 cc	10.2	289.35	223.04	202.19	132.20	114.72	97.58	G 3/4"	54	108
12 cc	12.0	289.35	223.04	202.19	132.20	114.72	97.58	G 3/4"	54	108
18 cc	18.0	289.35	223.04	202.19	132.20	114.72	97.58	G 3/4"	54	108
25 cc	25.0	289.35	223.04	202.19	132.20	114.72	97.58	G 3/4"	54	108
32 cc	32.0	295.50	229.00	208.30	137.30	120.10	102.70	G 3/4"	54	108
41 cc	41.0	295.50	229.00	208.30	137.30	120.10	102.70	G 3/4"	54	108
50 cc	50,3	307.10	240.40	220.00	147.10	129.70	112.50	G 3/4"	54	108
56 cc	56,0	307.10	240.40	220.00	147.10	129.70	112.50	G 3/4"	54	108
63 cc	63.0	307.10	240.40	220.00	147.10	129.70	112.50	G 3/4"	54	108
80 cc	80,4	334.00	269.00	246.70	157.80	143.90	124.80	G 1"	60	123
108 cc	108	334.00	269.00	246.70	157.80	143.90	124.80	G 1"	60	123
130 сс	130	336.30	271.3	249.00	159.70	145.80	126.70	G 1"	60	123





Pump MODEL	DISPL. (cc)	WEIGHT WITHOUT INLET FITTING (kg)	WEIGHT WITH 2" INLET FITTING (kg)	TORQUE WITHOUT FITTING (N.m)	TORQUE WITH FITTING (N.m)
5 cc	5.1	9.00	9.40	8.20	8.60
10 cc	10.2	9.00	9.40	8.65	9.05
12 cc	12.0	9.20	9.60	8.74	9.14
18 cc	18.0	9.30	9.70	8.79	9.19
25 cc	25.0	11.00	11.40	8.89	9.29
32 cc	32.0	11.10	11.50	11.10	11.50
41 cc	41.0	11.20	11.60	11.15	11.55
50 cc	50,3	11.30	11.70	11.75	12.15
56 cc	56,0	11.35	11.75	11.80	12.20
63 cc	63.0	11.45	11.85	11.85	12.25
80 cc	80,4	14.80	15.20	17.80	18.30
108 cc	108	14.90	15.30	17.92	18.42
130 сс	130	15.30	15.70	18.70	19.50

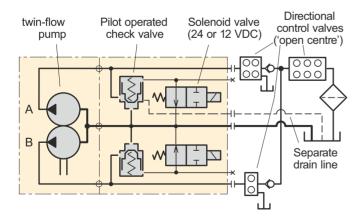


DUAL FLOW PUMP bypass valve

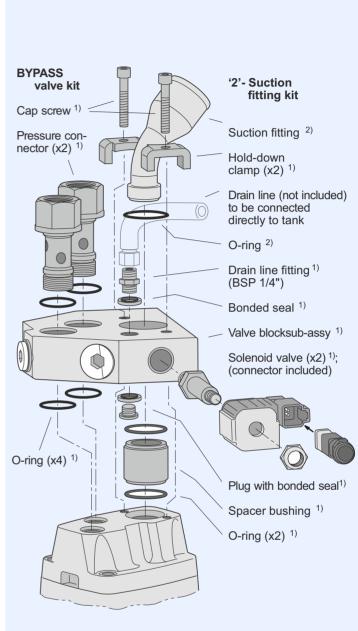
- A dual/twin pump fitted with a bypass valve can be utilised in applications where the pump is operating constantly i.e. when the pump is driven from the crankshaft through a cardan shaft, or when it is installed on an engine-PTO. In addition, it can be used when, temporarily, one of the two circuits is not required; the power loss is thus reduced as the non-required flow is not forced through lines and 'open center' valves.
- The DUAL bypass valve should be disengaged during transportation when the pump is operating constantly and the engine is running at max rpm; the hydraulic system is not sized for the large flow that would oth erwise go through it.
- The DUAL valve connects the outlet and inlet ports of the pump, and only a small oil flow goes through the system and to the reservoir.
- The valve is installed directly on top of the pump port surface with 'banjo' fittings and two cap screws (refer to the split view to the right).
- As the DUAL valve is symmetrical it can be 'turned 180°'
 so as not to interfere with chassis components. The
 valve can accommodate left hand as well as right hand
 rotating pumps.
- The valve can only be engaged or disengaged (through the 24 or 12 VDC solenoid) at low system pressures (below 20 bar).

IMPORTANT INFORMATION

- In order to secure a cooling flow through the system, a separate drain line must be connected from the BPVpump drain line fitting (shown in the split view) directly to tank; refer also to the schematic.
- The pressure connectors must be tightened (to 50 Nm) before the suction fitting clamp screws are tightened.



Bypass valve circuit schematic (example).



Bypass valve split view without manual override (with dual flow pump end cap).

NOTE: A suction fitting kit (parts designated '2' in the split view) is **not** included with the pump; it must be ordered separately.



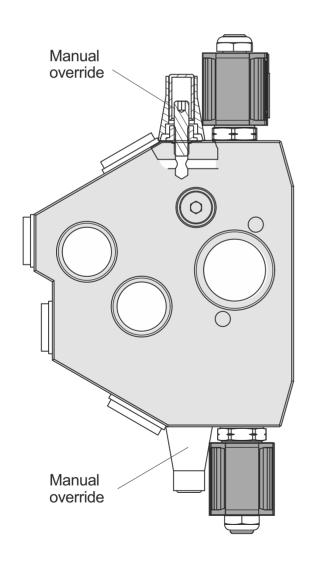


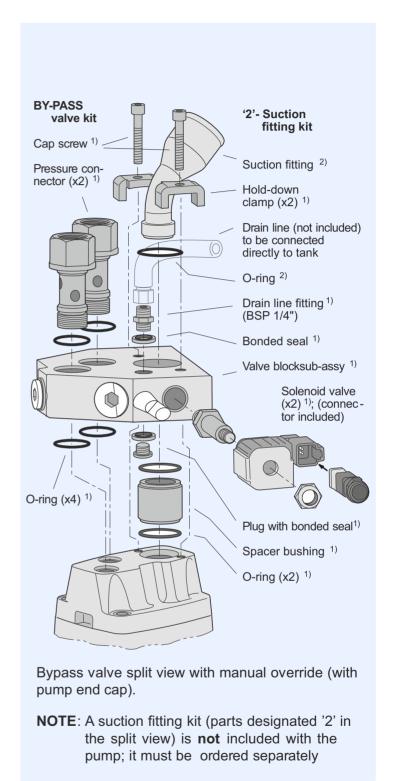
Bypass valve (Dual Flow Pump)

Without manual override

Bypass valve, type	Dual Flow Pump		
Max pressure, continuous	350 bar		
intermittent	400 bar		
Solenoid voltage (option)	24 VDC, (12 VDC)		
Power requirement	14 W (each solenoid)		
Operating mode	Activated solenoid:		
	Check valve closed		

Bypass valve ¹⁾	Voltage	Ordering number	Dual Flow	Torque 3)
ByPass	24 VDC	2400 565	42/42,	50 Nm
	12 VDC	1200 565	53/53,	
			55/28,	
			70/35,	
			70/70	









Complete Product Range

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A9MD (DIN) Bent Axis Motors

A9MO (ISO) Bent Axis Motors

A9MS (SAE) Bent Axis Motors

A9ML (SAE2) Bent Axis Motors

A9MF (Fixed Plugin) Bent Axis Motors

A10M (HYBRID) Bent Axis Motors

A7GM Hydraulic Gear Motors

A7GMT Tandem Hydraulic Gear Motors

Bent Axis Piston Pumps

A8P (Aluminum) Bent Axis Pumps

A8PD (DIN) Bent Axis Pumps

A8PO (ISO) Bent Axis Pumps

A8PS (SAE) Bent Axis Pumps

A8PF (Fixed Plugin) Bent Axis Pumps

A10 (HYBRID) Bent Axis Pumps

A11 (ISO2) Bent Axis Pumps

A11 (SAE2) Bent Axis Pumps

Variable Displacement Pumps

A12V Variable Displacement Piston Pumps

Dual Flow Piston Pumps

A8PL (DIN) Dual Flow Pumps

Axial Piston & Gear Pumps

A4PP Axial Hydraulic Piston Pumps

A6HP High Pressure Piston Pumps

A7GP Hydraulic Gear Pumps

A7GPT Tandem Hydraulic Gear Pumps

Valve (ByPass) (Flushing) (Cavitation)

Circulation Valve

ByPass Valve

Anti-Cavitation Valve

Flushing Valve

LS Valve

AntiShock Valve

Speed Sensor

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Flanges

Power Take Off

Monoblock Valve

Section Valve



Hydraulic Pumps, Motors

Bent Axis Hydraulic Piston Motors, Bent Axis Hydraulic Piston Pumps, Piston Pumps, Variable Displacement Piston Pumps, Variable Displacement Piston Motors, Axial Piston Pumps, High Pressure Piston Pumps, Gear Pumps, Gear Motors, Hydraulic Valve.

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