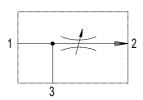
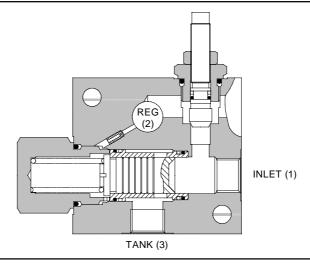


2FB SERIES PRESSURE COMPENSATED FLOW REGULATOR - BYPASS STYLE

2FB SERIES





APPLICATION

2FB valves are bypass flow regulators. The flow (and actuator speed) will be largely independent of the load and the pressure conditions.

If used to regulate flow from a fixed supply, for example a standard gear or piston pump, the valve will pass the required flow and any surplus flow will be dumped to the tank line working pressure. The supply pressure requirement will be approximately 7 bar (100 psi) higher than the system pressure, this being the operating pressure of the valve.

OPERATION

Inlet flow passes through the adjustable orifice and out of the regulated port. The pressure drop across the orifice is sensed at each end of the spool, producing a force which, at the required flow rate, overcomes the spring force. The resultant movement of the spool regulates the flow by opening the radial valve ports and dumping excess flow.

The valve will pass flow in the return direction but this is restricted by the flow path through the control orifice. For correct valve function the pressure on the tank line MUST be lower than the minimum pressure on the regulated line.

FEATURES

Line body construction with through flow ports allows direct connection into hydraulic systems. Leakproof adjust screw gives easy, accurate adjustment to required flow setting. Hardened and ground working parts give accurate flow control and long working life.

SPECIFICATIONS

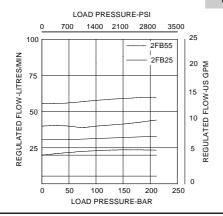
Figures based on: Oil Temp = 40°C Viscosity = 40 cSt

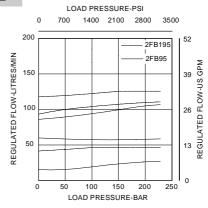
Rated Flow	2FB55 95 lit 2FB95 150 lit 2FB195 285 lit REGULATED: 2FB25 30 litr 2FB55 55 litr 2FB95 95 litr	res/min (14 US GPM) res/min (25 US GPM) res/min (40 US GPM) res/min (70 US GPM) es/min (8 US GPM) es/min (14 US GPM) es/min (25 US GPM) es/min (50 US GPM)					
Max Pressure	210 bar (3000 psi)						
Material	All working parts hardened, ground and honed steel						
Body Material	Standard aluminium Add suffix '377' for steel option						
Mounting Position	Line mounted						
Weight	2FB25/2FB55 2FB95 2FB195	0.79 kg (1.74 lbs) 0.82 kg (1.80 lbs) 1.57 kg (3.46 lbs)					
	2FB25/55	SK355 (Nitrile) SK355V (Viton)					
Seal Kit Number	2FB95	SK661 (Nitrile) SK661V (Viton)					
	2FB195	SK374 (Nitrile) SK374V (Viton)					
Recommended Filtration Level	BS5540/4 Class 18/13 (25 micron nominal)						
Operating Temp	-20°C to +90°C						
Nominal Viscosity Range	5 to 500 cSt						

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PERFORMANCE

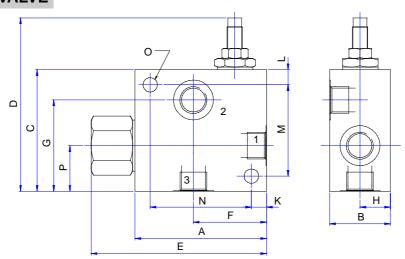




COMPLETE VALVE

8W = 1"BSP

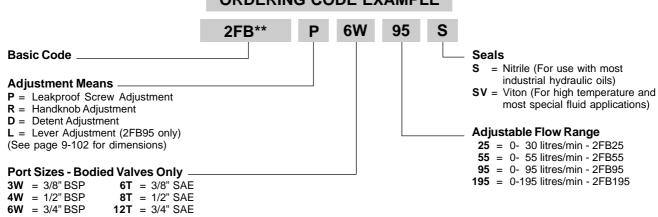
16T = 1" SAE



Basic Code	Port Size	Α	В	С	D	Е	F	G	Н	K	L	М	N	0	Р
2FB25	3/8" BSP	82.5	38	76	111	110	46	57	19	9.5	9.5	57	63.5	9	28.5
2FB55	1/2" BSP	82.5	38	76	111	110	46	57	19	9.5	9.5	57	63.5	9	28.5
2FB95	3/4" BSP	95	38	76	111	123	57	57	19	16	9.5	57	70	10.5	30
2FB195	1" BSP	105	51	102	137	143	61	77.5	25.5	13	10	82.5	79	10.5	38

Where measurements are critical request certified drawings

ORDERING CODE EXAMPLE

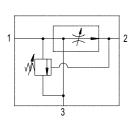


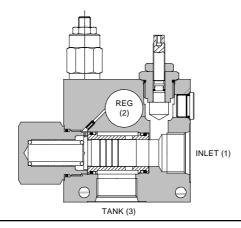
We reserve the right to change specifications without notice



2FBAR SERIES PRESSURE COMPENSATED FLOW REGULATOR - BYPASS STYLE WITH RELIEF

2FBAR SERIES





APPLICATION

2FBAR valves are three port bypass flow regulators with a built in relief to provide maximum pressure limitation for the hydraulic system. The flow (and actuator speed) will be largely independent of the load and the pressure conditions.

If used to regulate flow from a fixed supply, for example a standard gear or piston pump, the valve will pass the required flow and any surplus flow will be dumped to the tank line working pressure. The supply pressure requirement will be approximately 7 bar (100 psi) higher than the system pressure, this being the operating pressure of the valve.

OPERATION

Inlet flow passes through the adjustable orifice and out of the regulated port. The pressure drop across the orifice is sensed at each end of the spool, producing a force which, at the required flow rate, overcomes the spring force. The resultant movement of the spool regulates the flow by opening the radial valve ports and dumping excess flow. For correct valve function the pressure on the tank line MUST be lower than the minimum pressure on the regulated line.

If the system pressure exceeds the relief setting, then the pilot relief section in the spool opens and vents the spring chamber to the tank port, the resultant pressure imbalance on the spool causes it to move and open the inlet flow to the tank line. The valve will bypass enough flow to maintain the pressure setting giving control over both system flow and maximum pressure.

FEATURES

Line body construction with three flow ports allows direct connection into hydraulic systems. Leakproof adjust screw gives easy, accurate adjustment to required flow setting. Built in relief valve gives system protection. Hardened and ground working parts give accurate flow control and long working life.

SPECIFICATIONS

Figures based on: Oil Temp = 40°C Viscosity = 40 cSt

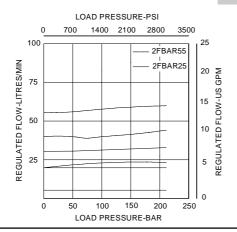
Rated Flow		55 I/min (14 US GPM) 95 I/min (25 US GPM) 150 I/min (40 US GPM) 285 I/min (70 US GPM) 30 I/min (8 US GPM) 55 I/min (14 US GPM) 95 I/min (25 US GPM) 195 I/min (50 US GPM)							
tting	100 bar (1450 psi)								
sure	210 bar (3000 psi)								
	All working parts hardened, ground steel								
erial	Standard aluminium Add suffix '377' for steel option								
Position	Line mounted								
	2FBAR25/2FBAR55 0.93 kg (2.04 2FBAR95 0.96 kg (2.10 2FBAR195 1.71 kg (3.76								
2FBAR25 2FBAR55 2FBAR95 2FBAR195	SK983 (Nitrile) SK984 (Nitrile)	SK983V (Viton) SK984V (Viton)							
Recommended Filtration Level		,							
Operating Temp									
Viscosity	5 to 500 cSt								
	erial Position 2FBAR25 2FBAR55 2FBAR95 2FBAR195 ended Level g Temp	REGULATED:							

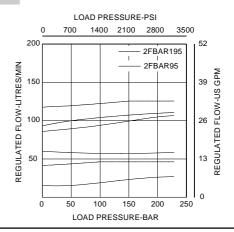
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PERFORMANCE

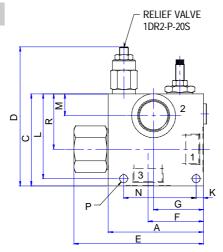


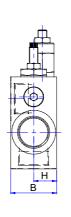


COMPLETE VALVE

8W = 1"BSP

16T = 1" SAE

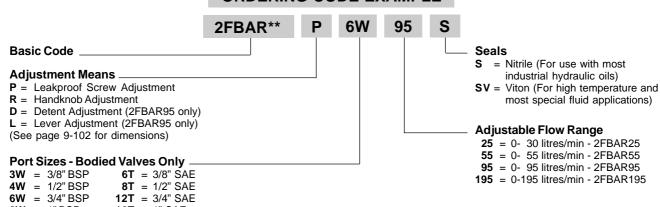




Basic Code	Port Size	Α	В	С	D	E	F	G	Н	K	L	М	N	Р	R
2FBAR25	3/8" BSP	101.6	50.8	85	137	130	63	63	25.4	11.6	77	19	80	9	53
2FBAR55	1/2" BSP	101.6	50.8	85	137	130	63	63	25.4	11.6	77	19	80	9	53
2FBAR95	3/4" BSP	101.6	50.8	85	137	130	63	63	25.4	11.6	77	19	80	9	53
2FBAR195	1" BSP	105	50.8	101.6	155	143	61	55	25.4	8.0	93.6	24	80	9	61

Where measurements are critical request certified drawings

ORDERING CODE EXAMPLE



We reserve the right to change specifications without notice