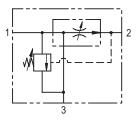
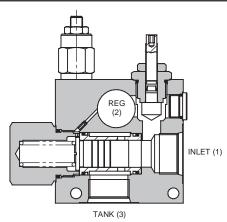
2FBAR SERIES PRESSURE COMPENSATED FLOW REGULATOR - BYPASS STYLE WITH RELIEF

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 at 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.

*For applications above 210 bar please consult our technical department or use the steel body option.

Integrated Hydraulics Ltd

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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

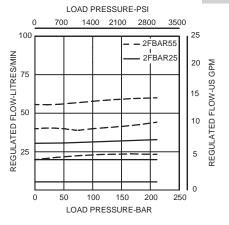
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Rated Flow		INLET: 2FBAR25 2FBAR55 2FBAR95 2FBAR195	95 l/m 150 l/m	in (25 l in (40 l	JS GPM) JS GPM) JS GPM) JS GPM)			
		REGULATED: 2FBAR25 2FBAR55 2FBAR95 2FBAR195	55 l/mi 95 l/mi	n (14 l n (25 l	JS GPM) JS GPM) JS GPM) JS GPM) JS GPM)			
Relief Setting		100 bar (1450 psi)						
Max Pressure		210 bar (3000 psi)						
Material		All working parts hardened, ground steel						
Body Material		Standard aluminium (up to 210 bar*) Add suffix '377' for steel option						
Mounting Position		Line mounted						
Weight		2FBAR25/2FB 2FBAR95 2FBAR195	C	0.93 kg (2.04 lbs) 0.96 kg (2.10 lbs) 1.71 kg (3.76 lbs)				
Seal Kit Number	2FBAR25 2FBAR55 2FBAR95 2FBAR195	SK983 (Nitrile) SK983 (Nitrile) SK984 (Nitrile) SK985 (Nitrile)	(Nitrile) SK983V (Vito (Nitrile) SK984V (Vito		(Viton) (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						

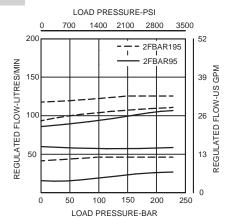
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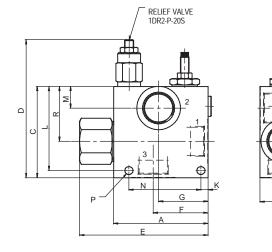




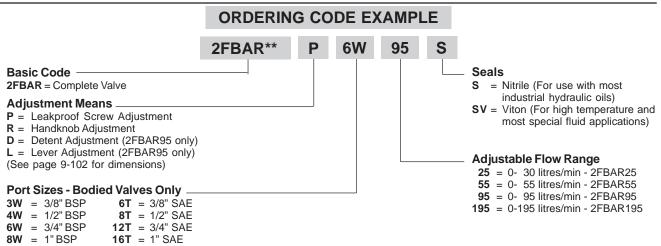


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COMPLETE VALVE



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



We reserve the right to change specifications without notice