

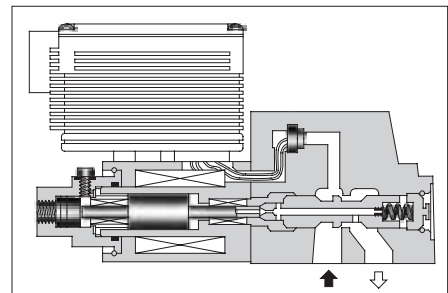
Proportional Electro-Hydraulic Pressure Control Valves

These are closed-loop type pressure control valves controlling the system pressure from low to high in proportion to the input voltage. The stable pressure control is possible even in a small flow rate.

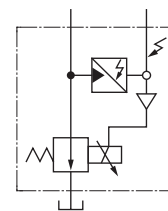


Specifications

Model Numbers	SB1110	SB1190
Description		
Max. Operating Pres.	B: 6.9 MPa (1000 PSI) H: 24.5MPa (3550 PSI)	7.0MPa (1020 PSI)
Max. Flow	30 L/min (7.93 U.S.GPM)	70 L/min (18.49 U.S.GPM)
Min. Flow	B: 0.5 L/min (.13 U.S.GPM) H: 0.5 L/min (.13 U.S.GPM) at 0.2 - 6.9 MPa (29 - 1000 PSI) 1.5 L/min (.40 U.S.GPM) at 6.9 - 15.7 MPa (1000 - 2275 PSI) 3.0 L/min (.79 U.S.GPM) at 15.7 - 24.5 MPa (2275 - 3550 PSI)	1 L/min (.26 U.S.GPM)
Pressure Adjustment Range	Refer to Model Number Designation	
Coil Resistance	10 Ω	
Hysteresis	1 % or less	1.5 % or less
Repeatability	1 % ^{★1} or less	
Supply Electric Power	24 V DC (21 to 28 V DC Included Ripple)	
Power Input (Max.)	28 W	
Input Signal	B: 6.9 MPa (1000 PSI) / 5 V DC H: 24.5 MPa (3550 PSI) / 5 V DC	7.0 MPa (1020 PSI) / 5 V DC
Input Impedance	10 kΩ	
Alarm Signal Output (Open Collector)	Voltage: Max. 30 V DC Current: Max. 40 mA	
Pressure Signal Output	B: 5 V DC / 6.9 MPa (1000 PSI) H: 5 V DC / 24.5 MPa (3550 PSI)	5 V DC / 7.0 MPa (1020 PSI)
Ambient Temperature	0 - 50°C (32 - 122°F) (With Circulated Air)	



Graphic Symbol



★ 1. The repeatability of the valve is obtained by having it tested independently on the conditions similar to its original testing.

Model Number Designation

F-	SB1110	-B	-20
Special Seals	Series Number	Pres. Adj. Range MPa (PSI)	Design Number
F: Special Seals for Phosphate Ester Type Fluid (Omit if not required)	SB1110: Proportional Electro-Hydraulic Pressure Control Valve (3/8, Sub-plate mounting)	B: 0.2 [★] - 6.9 (29 - 1000) H: 0.2 [★] - 24.5 (29 - 3550)	20
	SB1190: Proportional Electro-Hydraulic Pressure Control Valve (3/4, Sub-plate mounting)	B: 0.2 [★] - 7.0 (29 - 1020)	10

★ The minimum adjustable pressure is the value obtained at maximum flow rate.