EH SERIES

Proportional Electro-Hydraulic Relieving and Reducing Valves

These valves consist of a small size but high performance electro-hydraulic proportional pilot relief valve and reducing valve with relief function. The valves control the system pressure proportionally through a controlled input voltage.

Moreover, a good response speed in reducing the pressure even at a large load capacity can be obtained with the relief function of the valves.

Specifications

Model Numbers Description	EHRBG-06	EHRBG-10	
Max. Operating Pres.	24.5 MPa (3550 PSI)		
Max. Flow	100 L/min (26.4 U.S.GPM)	250 L/min (66 U.S.GPM)	
Max. Relieving Flow	35 L/min *1 (9.24 U.S.GPM)	15 L/min ^{*1} (3.96 U.S.GPM)	
Pressure Adjustment Range	Refer to Model Number Designation		
Coil Resistance	10 Ω		
Hysteresis	3% or less		
Repeatability	$1\%^{\star 2}$ or less		
Frequency Response	B: 4 Hz C: 3 Hz (-90 degree) H: 3 Hz		
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 C: 13.7 MPa (2000 PSI) / 5 V DC H: 20.6 MPa (3000 PSI) / 5 V DC (at Flow Rate Zero)		
Input Impedance	10 kΩ		
Pressure Signal Output	B : 5 V DC / 6.9 MPa (1000 PSI) C : 5 V DC / 13.7 MPa (2000 PSI) H : 5 V DC / 20.6 MPa (3000 PSI)		
Ambient Temperature	0 - 50°C (32 - 122°F) (With Circulated Air)		

★1. The figures shown are those obtained where the differential pressure between the secondary pressure port and tank port is 14 MPa (2030 PSI).

 \star 2. The repeatability of the valve is obtained by having it tested independently on the conditions similar to its original testing.





Graphic Symbols



Open-Loop Type



Open-Loop Type with Sensor

Model Number Designation

F-	EHRB	G	-06	-C	-S	-50
Special Seals	Series Number	Type of Mounting	Valve Size	Pres. Adj. Range MPa (PSI)	Control Type	Design Number
F: Special Seals for Phosphate Ester Type Fluid (Omit if not required) EHRB: Proportional Electro-Hydraulic Relieving & Reducing Valve	EHRB: Proportional Floatro Hydraulia	G:	06	B : 0.8 - 6.9 (115 - 1000) C : 1.2 - 13.7 (175 - 2000) H : 1.5 - 20.6 (220 - 3000)	None : Open-Loop	50
	Mounting	10	B : 0.9 - 6.9 (130 - 1000) C : 1.2 - 13.7 (175 - 2000) H : 1.5 - 20.6 (220 - 3000)	S: Open-Loop with Sensor	50	