## YUKEN

## Proportional Electro-Hydraulic Relief Valves

These valves, consist of a small size but high performance EH series electrohydraulic proportional pilot relief valve and a low noise type relief valve. The valves control the system pressure proportionally through a controlled input voltage.

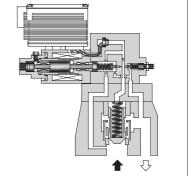
## Specifications

Model Numbers Description	EHBG-03	EHBG-06	EHBG-10			
Max. Operating Pres.	24.5 MPa (3550 PSI)					
Max. Flow	100 L/min (26.4 U.S.GPM)	200 L/min (52.8 U.S.GPM)	400 L/min (106 U.S.GPM)			
Min. Flow	3 L/min (.79 U.S.GPM)	3 L/min (.79 U.S.GPM)	3 L/min (.79 U.S.GPM)			
Pressure Adjustment Range	Refer to Model Number Designation					
Coil Resistance	10 Ω					
Hysteresis	2% (1%) <sup>*1</sup> or less					
Repeatability	$1\% \star^2$ or less					
Frequency Response	C: 10 (22) Hz <sup>*1</sup> H: 10 (25) Hz <sup>*1</sup> (-90 degree)	C: 11 (22) Hz <sup>*1</sup> H: 13 (24.5) Hz <sup>*1</sup> (-90 degree)	C: 7 (10.5) Hz <sup>*1</sup> H: 6 (14) Hz <sup>*1</sup> (-90 degree)			
Supply Electric Power	24 V DC (21 to 28 V DC Included Ripple)					
Power Input (Max.)	28 W					
Input Signal	C: 15.7 MPa (2275 PSI) / 5 V DC H: 24.5 MPa (3550 PSI) / 5 V DC (At Max. Flow)					
Input Impedance	10 k Ω					
Alarm Signal Output (Open Collector)	Voltage: Max. 30 V DC Current: Max. 40 mA					
Pressure Signal Output	C: 5 V DC / 15.7 MPa (2275 PSI) H: 5 V DC / 24.5 MPa (3550 PSI)					
Ambient Temperature	0 - 50°C (32 - 122°F) (With Circulated Air)					

 $\star$  1. The value in ( ) is for the closed-loop type.

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

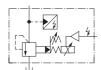




Graphic Symbols



Open-Loop Type



Open-Loop Type with Sensor



Closed-Loop Type

F-	EHB	G	-03	-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) EHB: Proportional Electro- Hydraulic Relief Valve		•	03	<b>C</b> : 0.6 [0.8] *- 15.7 (85 [115] *- 2275) <b>H</b> : 0.6 [0.8] *- 24.5 (85 [115] *- 3550)	None: Open-Loop	50
	<b>G</b> : Sub-plate Mounting	06	<b>C</b> : 0.9 [1.0] *- 15.7 (130 [145] *- 2275) <b>H</b> : 0.9 [1.0] *- 24.5 (130 [145] *- 3550)	S: Open-Loop with Sensor	50	
			10	<b>C</b> : 1.1 [1.4] *- 15.7 (160 [205] *- 2275) <b>H</b> : 1.1 [1.4] *- 24.5 (160 [205] *- 3550)	L : Closed-Loop	50

Model Number Designation

★ Each value of minimum adjustment pressure is of at 50% flow rate of the Max. Flow shown on the Specifications. The value in [] is for the closed-loop type.

