## Proportional Electro-Hydraulic Flow Control and Relief Valves

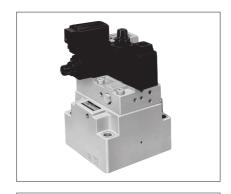
These are proportional electro-hydraulic flow control valves having functions for controlling the direct electric current of metre-in type and for pressure control.

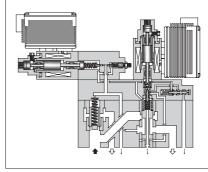
They are energy-saving valves for supplying the minimum pressure and flow required to operate actuators.

## Specifications

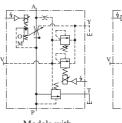
De	scription	Iodel Numbers	EHFBG-03-60	EHFBG-06-250	EHFBG-10-500		
Max	x. Operating Press	sure MPa (PSI)	24.5 (3550)	24.5 (3550)	24.5 (3550)		
Max. Flow L/min (U.S.GPM)			60: 60 (15.8) 125: 125 (33)	250 (66)	500 (132)		
Metred Flow Capacity L/min (U.S.GPM)			60: 1-60(.26-15.8) 125: 1-125(.26-33)	2.5-250 (.66-66)	5-500 (1.32-132)		
Min. Pilot Pressure MPa (PSI)			1.5 (215)	1.5 (215)	1.5 (215)		
	Pilot Flow	at Normal	1 (.26)	1 (.26)	1 (.26)		
L/	min (U.S.GPM)	at Transition	3 (.79)	4 (1.06)	6 (1.59)		
Differential Pressure MPa (PSI)			0.6 (85)	0.7 (100)	0.9 (130)		
Flow Controls	Hysteresis		3% or less				
	Repeatability		1% <sup>⋆</sup> or less				
	Input Signal		Max. Flow / 5 V DC				
	Coil Resistance		10 Ω				
	Supply Electric Power		24 V DC (21 to 28 V DC Included Ripple)				
	Input Impedance	<del>-</del>	10 kΩ				
	Power Input (Ma	ax.)	28 W				
	Pres. Adj. Range		,	1.4-15.7 (200-2275)	1.5-15.7 (215-2275)		
	MPa (PSI)	Adj. Range: H	1.4-24.5 (200-3550)	1.4-24.5 (200-3550)	1.5-24.5 (215-3550)		
rols	Hysteresis		2% or less				
Pressure Controls	Repeatability		1%★or less				
	Coil Resistance		10 Ω				
	Input Signal		Max. Operating Pres. / 5 V DC				
	Supply Electric Power		24 V DC (21 to 28 V DC Included Ripple)				
	Input Impedance		10 kΩ				
	Power Input (Ma	ax.)	28 W				
Output Signal			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)				

<sup>★</sup> The repeatability of the valves is obtained by having it tested independently on the conditions similar to its original testing.

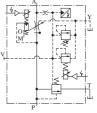




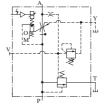
Graphic Symbols



Models with Proportional Pilot Relief Valve



Models with Proportional Pilot Relief Valve and Sensor



Models without Proportional Pilot Relief Valve



External Pilot Pres. Connection

## Model Number Designation

F-	EHFB	G	-03	-60	-C	-E	-S	-50
Special Seals	Series Number	Type of Mounting	Valve Size	Max. Metred Flow L/min (U.S.GPM)	Pilot Relief Valve Pres. Adj. Range	Pilot Connection of Flow Control	Pressure Controls	Design Number
F: Special	EHFB: Proportional Electro- Hydraulic Flow Control and Relief Valve	<b>G</b> : Sub-plate Mounting	03	<b>60</b> : 60 (15.8) <b>125</b> : 125 (33)	None: Without Proportional Pilot Relief Valve  C, H: See Specifications	None: Internal Pilot E: External Pilot	None: Open-Loop S: Open-Loop with Sensor	50
Seals for Phosphate Ester Type			06	<b>250</b> : 250 (66)				50
Fluid (Omit if not required)			10	<b>500</b> : 500 (132)				50