

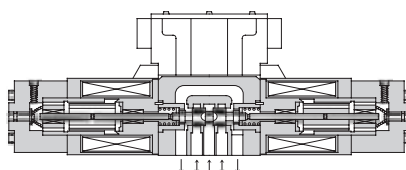
Proportional Electro-Hydraulic Directional and Flow Control Valves

These valves incorporate two control functions - flow and direction - which simplify the hydraulic circuit composition and therefore the cost of the system is reduced.

Specifications

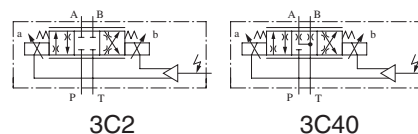
Model Numbers		EHDFG-01	EHDFG-03
Description			
Max. Operating Pressure	MPa (PSI)	24.5 (3550)	24.5 (3550)
Max. Tank Line Back Pres.	MPa (PSI)	7 (1020)	7 (1020)
Rated Flow	L/min (U.S.GPM) [Valve ΔP 6.9 MPa (1000 PSI)]	30 (7.92)	60 (15.9)
Hysteresis		5% or less	
Repeatability		1%★ or less	
Frequency Response		20 Hz (-90 deg.)	17 Hz (-90 deg.)
Coil Resistance		10.5 Ω	8.0 Ω
Supply Electric Power		24 V DC (21 to 28 V DC Included Ripple)	
Input Voltage	By Controlling Variable Resistance (Using of Power from Amp.)	1 - 2 k Ω Volume Range	
	By Controlling Voltage (Using of Power outside Amp.)	0 - -5 V for SOL a 0 - +5 V for SOL b	
Input Impedance		10 k Ω	10 k Ω
Power Input (Max.)		40 W	45 W
Ambient Temperature		0 - 50°C (32 - 122°F) (With Circulated Air)	

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



Graphic Symbols

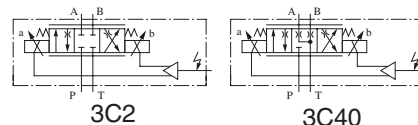
● Metre-in • Metre-out Control



3C2

3C40

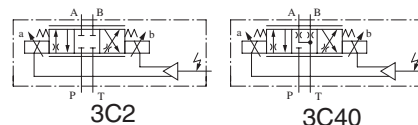
● Metre-out Control



3C2

3C40

● Metre-in Control



3C2

3C40

Model Number Designation

F-	EHDF	G	-01	-30	-3C2	-E	-30
Special Seals	Series Number	Type of Mounting	Valve Size	Rated Flow L/min (U.S.GPM)	Spool Type★	Direction of Flow	Design Number
F: Special Seals for Phosphate Ester Type Fluid (Omit if not required)	EHDF: Proportional Electro-Hydraulic Directional and Flow Control Valve	G: Sub-plate Mounting	01	30: 30 (7.92)	3C2	XY: Metre-in • Metre-out X: Metre-in Y: Metre-out	30
			03	60: 60 (15.9)	3C40		30

★ Spool type shown in the column is for the centre position.