HYVAIR

INDUSTRIAL FLUID POWER COMPONENTS
AND SYSTEMS

EPD03 SERIES

Proportional Valves

EPD03-2B-2G-12VDC

31341 Friendship Drive, Magnolia, TX 77355 • Tel.: 281-259-7768 Fax: 281-259-7249 • www.hyvair.com

EPD03 Series
Proportional Valves

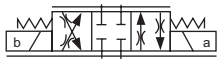
Features

1. **High Flow:** EPD03 series control the direction and the volume of the flow according to the feeding current to the proportional solenoid. By using a valve body equipped with increased passage channels it is possible to reach the highest capacity of its dimensions at a parity of pressure drops. (9 gpm with Δp of 120 psi).

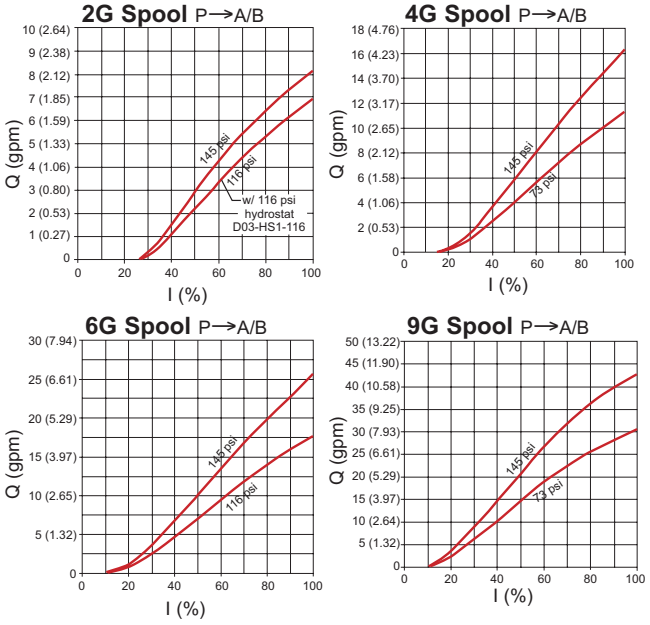
2. **Hydrostats Available:** For a more accurate flow control, 2 or 3-way modular hydrostats (pressure compensation valves) are available.

EPD03-2B-2G-12VDC

Specifications

Spool Type	Model	Rated Flow Range (gpm)	Max. Pressure P,A,B Ports	Max. Pressure T Port	Duty Cycle	Frequency Response	Weight
	EPD03-2B-2G-12VDC	2	5000 psi (350 bar)	2000 psi (210 bar)	Continuous 100% ED	28 Hz @-3db (Signal 25%)	6.4 lbs 2.9 kg
	EPD03-2B-4G-12VDC	4					
	EPD03-2B-6G-12VDC	6					
	EPD03-2B-9G-12VDC	9					
	EPD03-2F-2G-12VDC	2					
	EPD03-2F-4G-12VDC	4					
	EPD03-2F-6G-12VDC	6					
	EPD03-2F-9G-12VDC	9					

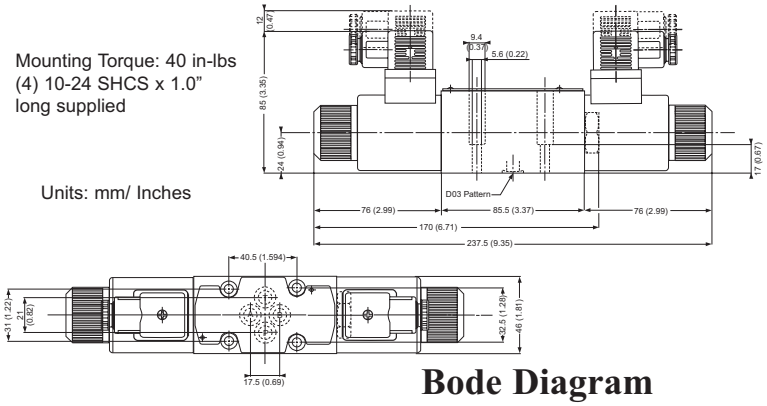
Input Signal vs Flow Curves



Dimensional Data

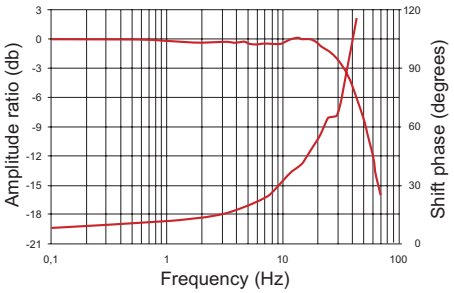
Mounting Torque: 40 in-lbs
(4) 10-24 SHCS x 1.0" long supplied

Units: mm/ Inches



Bode Diagram

Input signal amplitude ±25% Vmax

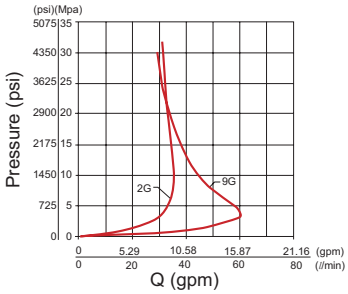


Operating Notes:
Fluid viscosity:
80-300 SUS (17-65cSt)
Fluid temperature:
40-160F° (5°-70°C)
Ambient temperature:
-4-160F° (-20°-70°C)
Max. contamination level:
10 micron (class 8 NAS 1638)
Mounting Torque: 40 in-lbs

12V Coil Information
Max current: 1.76A
Solenoid coil resistance :
4.8 Ohm @68°F (20°C)
Solenoid coil resistance when hot:
7.34 Ohm
Hysteresis P/A/B/T with a pressure compensator: 5% of spool max. flow
Response Time (transient function with stepped electrical input signals):
36ms @70 psi drop (26ms returning to center)

Power Limits

P→A/B→T or P→B/A→T



Ordering Information

EPD03 - 2✳ - ✳G - 12VDC

Spool Type:	Spool Flow:
B= all ports blocked	**2**= 2 gpm
F= P blocked, A & B to Tank	**4**= 4 gpm
	6= 6 gpm
	9= 9 gpm

Note: All EPD03 valves Meter In/ Meter Out Design
All specifications/ flow curves using fluid-150SUS (32mm²/s), @ 122°F (50°C)

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