



INDUSTRIAL FLUID POWER COMPONENTS
AND SYSTEMS

EPD05 SERIES

Proportional Valves



EPD05-2B-8G-12VDC

Features

- High Flow:** EPD05 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. (15 gpm with Δp of 120 psi).
- Hydrostats Available:** For a more accurate flow control, 2 or 3-way modular hydrostats (pressure compensation valves) are available.

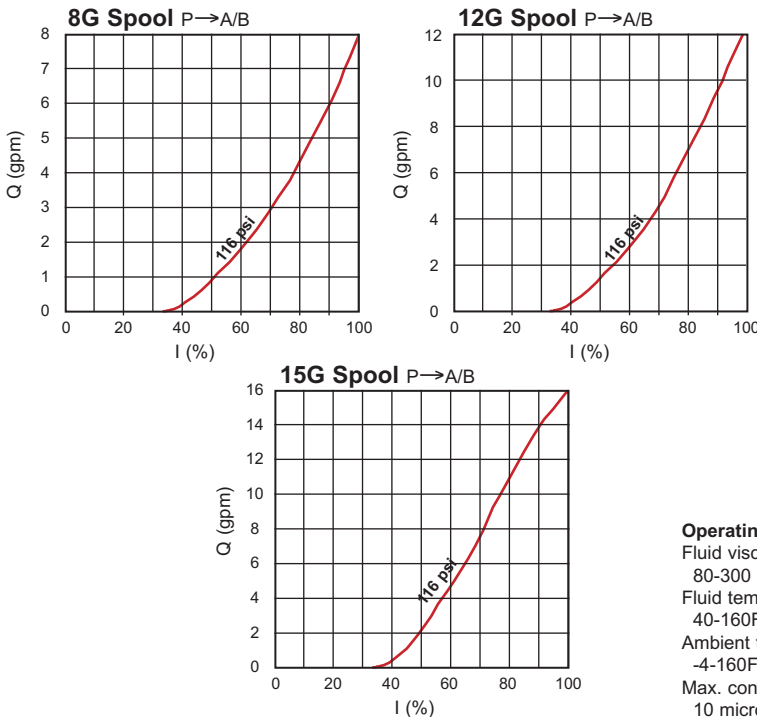


EPD05-2B-8G-12VDC

Specifications

Spool Type	Model	Rated Flow Range (gpm)	Max. Pressure P,A,B Ports	Max. Pressure T Port	Duty Cycle	Frequency Response	Weight
	EPD05-2B-8G-12VDC	8	5000 psi (350 bar)	2000 psi (210 bar)	Continuous 100% ED	13 Hz @-6db (Signal 25%)	13 lbs 5.9 kg
	EPD05-2B-12G-12VDC	12					
	EPD05-2B-15G-12VDC	15					
	EPD05-2F-8G-12VDC	8					
	EPD05-2F-12G-12VDC	12					
	EPD05-2F-15G-12VDC	15					

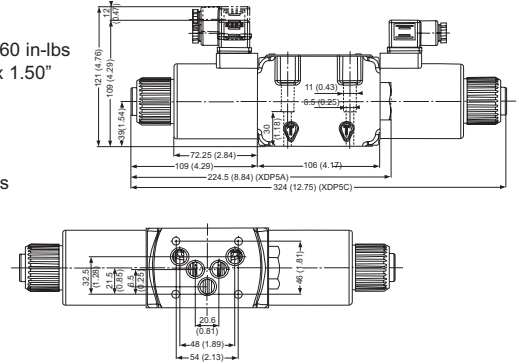
Input Signal vs Flow Curves



Dimensional Data

Mounting Torque: 60 in-lbs
(4) 1/4-20 SHCS x 1.50" long supplied

Units: mm/ Inches

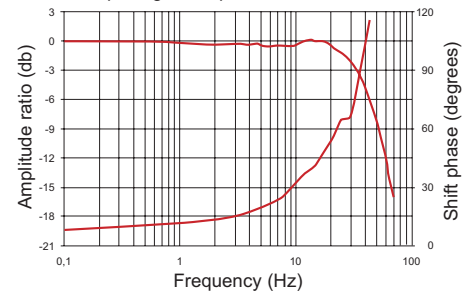


Operating Notes:

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)

Bode Diagram

Input signal amplitude $\pm 25\%$ Vmax



Ordering Information

EPD05 - 2* - *G - 12VDC

Spool Type:

B= all ports blocked
F= P blocked, A & B to Tank

Spool Flow:

8= 8 gpm
12= 12 gpm
15= 15 gpm

Note: All EPD05 valves Meter In/ Meter Out Design
All specifications/ flow curves using fluid-
150SUS (32mm²/s), @ 122°F (50°C)

12V Coil Information

Max current: 2.5A
Solenoid coil resistance :
2.8 Ohm @68°F (20°C)
Hysteresis P/A/B/T with a pressure compensator: 4% of spool max. flow
Response Time (transient function with stepped electrical input signals):
80ms @116 psi drop (70ms returning to center, 100ms shifting to other coil)

Power Limits

P→A/B→T or P→B/A→T

