

PROPORTIONAL VALVES

EPD05 SERIES- PROPORTIONAL VALVES



NFPA D05



EPD05 Series Proportional Valves

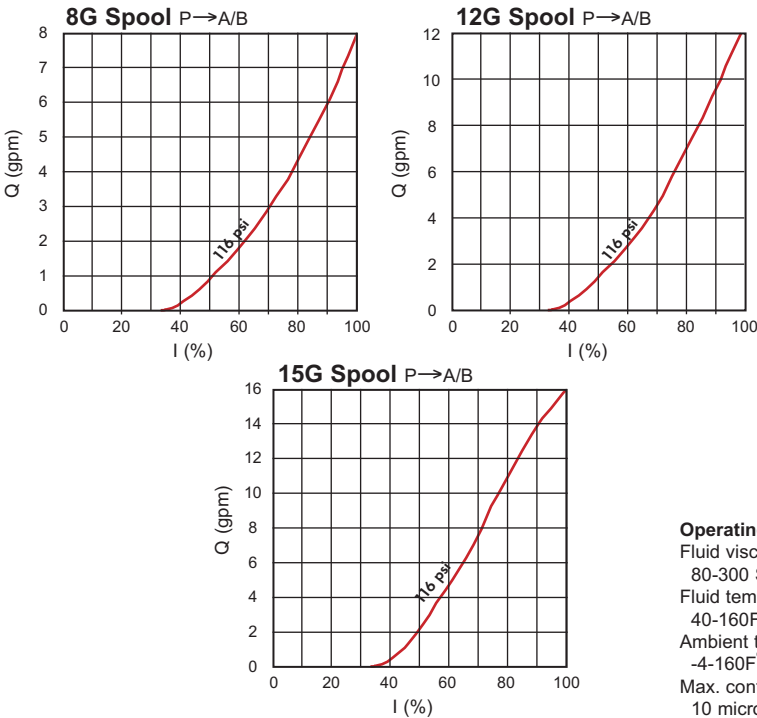
Features

- 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.

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					

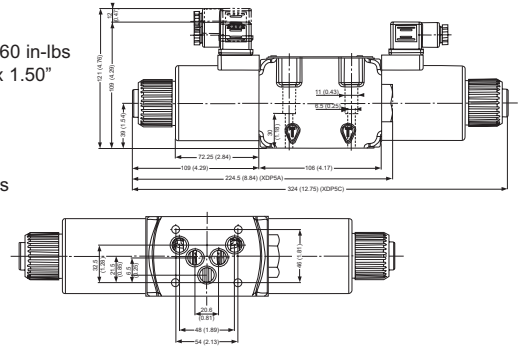
Input Signal vs Flow Curves



Dimensional Data

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

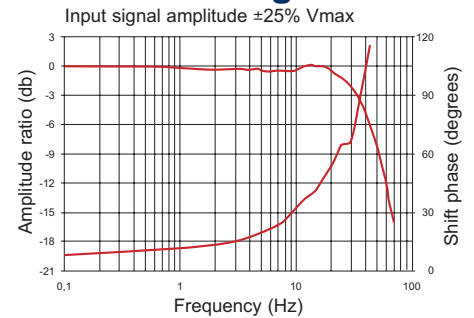
Units: mm/ Inches



Operating Notes:

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

Bode Diagram



Ordering Information

EPD05 - 2* - *G - 12VDC

- | | |
|-------------------------------------|--------------------|
| Spool Type: | Spool Flow: |
| B = all ports blocked | 8 = 8 gpm |
| F = P blocked, A & B to Tank | 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

