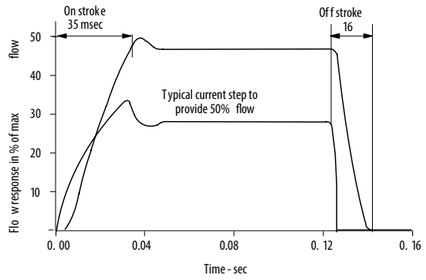
EPV10 - Proportional flow control valve

Proportional uni-directional poppet, flow control valve
Up to 30L/min (8 USgmp) • 350 bar (5000 psi)

Step response data

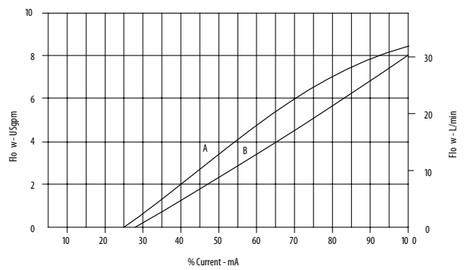


Flow vs current

With 10 bar differential between inlet and outlet

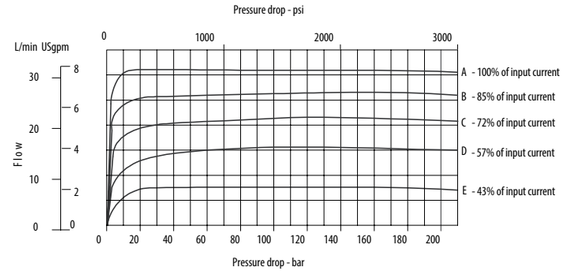
A - 210 bar (3000 psi) pressure drop from Port 2 to Port 1

B - 10 bar (150 psi) pressure drop from Port 2 to Port 1



Flow vs pressure drop

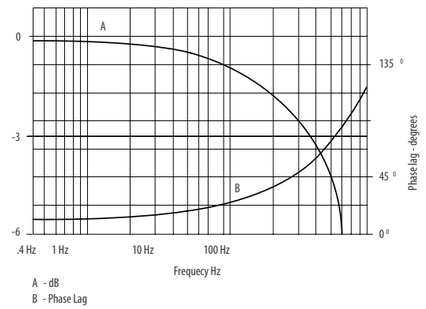
Per % of input current



Typical flow response

For an amplitude of ± 40 % maximum stroke (center to offset) about the 50 % position.

ΔP = 10 bar (145 psi)



A - dB
B - Phase Lag

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

EPV10 - Proportional valve

Proportional uni-directional poppet, flow control valve
Up to 30L/min (8 USgmp) • 350 bar (5000 psi)

Model code

EPV 10 – * – ** – ** – *** – * – * – 10 (S**)

1 2 3 4 5 6 7 8 9 10

1 Function

EPV - Electro-proportional flow control valve, poppet type

2 Size

10 - 10 Size

3 3 Valve housing material

Omit for cartridge only

A - Aluminum

S - Steel

Maximum operating pressure for aluminum housing is 210 bar (3000 psi)

4 Port Size

Code	Port size	Housing number	
		Aluminium	Steel
0	Cartridge only		
3G	3/8" BSPP	876703	02-175103
6H	SAE 6	876700	02-175100
8H	SAE 8	876701	02-175101

5 Seal material

N - Buna-N

V - Viton (standard)

NF - Buna-N and 60 mesh filter screen

VF - Viton and 60 mesh filter screen

6 Voltage rating

12D -12VDC

24D -24VDC

00D- No coil

7 Manual override option

0 - No manual override

M - Pin type

S - Screw type (3mm Hex)

Manual override is available in two different configurations, either push pin type is used when system pressure does not exceed 210 bar (3000 psi). The screw type can be used at any system pressure.

8 Coil/Connector types

Connector			
0	No connector	**12VDC**	**24VDC**
W	Leadwire (DC only)	02-361830	02-363310
U	DIN 43650	02-361837	02-363321
Y	Metri-Pack 150 male*	02-361845	02-363322
F	Weather-Pack male	02-361848	02-364328
N	Deutsch DT04-2P	02-154124	02-391571

*Preferred Packard connector.

9 Design number

10 - Design no.

10 Special features

Blank - None

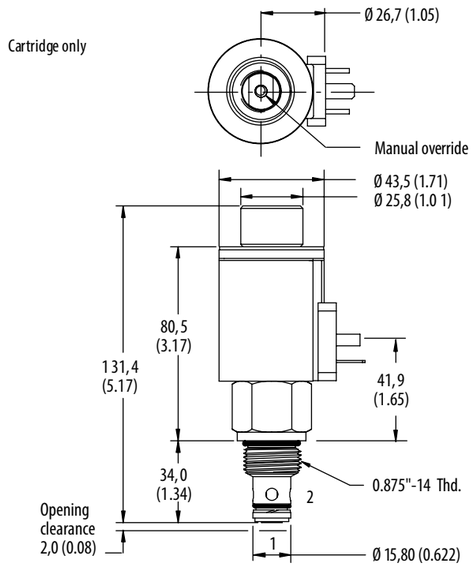
⚠ Warning

The cavity should be machined to the 14,29 (0.562) maximum diameter and 36,00 (1.417) maximum depth. See section M.

Dimensions

mm (inch)

Cartridge only



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.