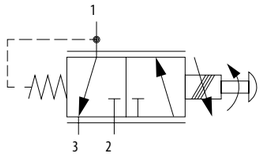
EPRV2-8 - Proportional valve

Proportional reducing/relief, spool
7.6 L/min (2 USgpm) • 35 bar (500 psi)



Operation

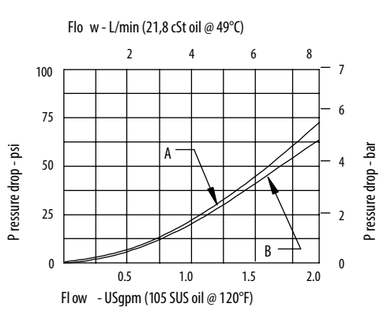
In the de-energized position, pressure inlet port 2 is closed and reduced pressure port 1 is open to return port 3. As electrical current is increased, port 2 opens to port 1 and port 3 closes, proportionally increasing pressure at port 1. If the pressure at port 1 exceeds the setting of the valve, the spool will shift further and relieve to port 3.

Performance data

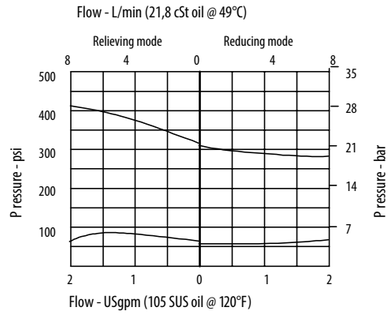
Ratings and specifications	
Performance data is typical with fluid at 21,8 cST (105 SUS) and 49°C (120°F)	
Maximum inlet pressure	35 bar (500 psi)
Reduced pressure range	0-22 bar (0-320 psi)
Maximum operating flow	7,6 L/min (2 USgpm)
Temperature range	-40° to 120°C (-40° to 248°F)
Cavity	C-8-3
Fluids	All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20 etc.
Filtration	Cleanliness code 18/16/13
Recommended PWM frequency	150 Hz
Hysterisis @ 150 Hz PWM	5%
Weight including coil	0,29 kg (0.64 lbs)
Seal kit	02-179451 (Buna-N), 02-179452 (Viton®)

Viton is a registered trademark of E.I. DuPont

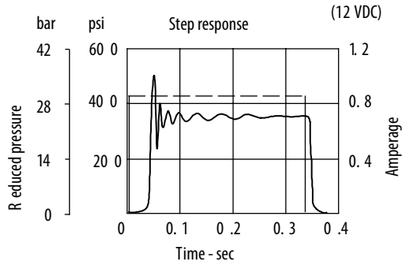
Pressure drop curves

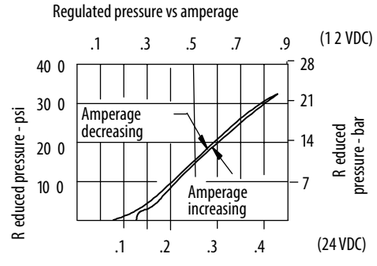


A - Port 1 to port 3 B - Port 2 to port 1



Performance curves





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

EPRV2-8 - Proportional valve

Proportional reducing/relief, spool
7.6 L/min (2 USgpm) • 35 bar (500 psi)

Model code

EPRV2 8 – (V) – (A) – ** – * – * – * – 00**

1 2 3 4 5 6 7 8 9

1 Function
EPRV2 -Proportional reducing/ relieving valve

2 Size
8 - 8 size

3 Seal material
Blank - Buna-N
V - Viton®

4 Valve housing material
Omit for cartridge only
A - Aluminum

5 Port size

Code	Port size	Housing number
	Aluminum single	
0	Cartridge only	
4T	SAE 4	02-160741
6T	SAE 6	02-160742
2G	1/4" BSPP	02-160739
3G	3/8" BSPP	02-160740

See section J for housing details.

6 Voltage rating
00 - No coil
12D - 12VDC
24D - 24VDC
12B - 12VDC/w diode*
24B - 24VDC/w diode*

*Optional arc suppression diode.
Note: This valve uses the standard S series coils, see section C for coil part numbers and specifications.

8 Connector type
Blank - No coil
G -ISO 4400 DIN 43650
W - Flying lead
N - Deutsch (DC only)
Y -Amp JR (DC only)
D-Metripack 150 male (DC only)
J - Metripack 280 male (DC only)
E - Weather–Pack (Packard) female on wire leads
F - Weather–Pack (Packard) male on wire leads
For coil part numbers and dimensions see section C.

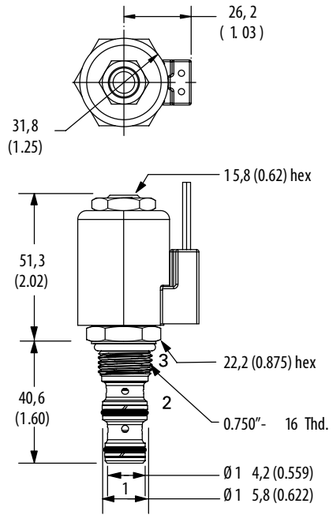
9 Coil series
S - S series coils

10 Special features
00 - None
Only required if valve has special features, omitted if "00."

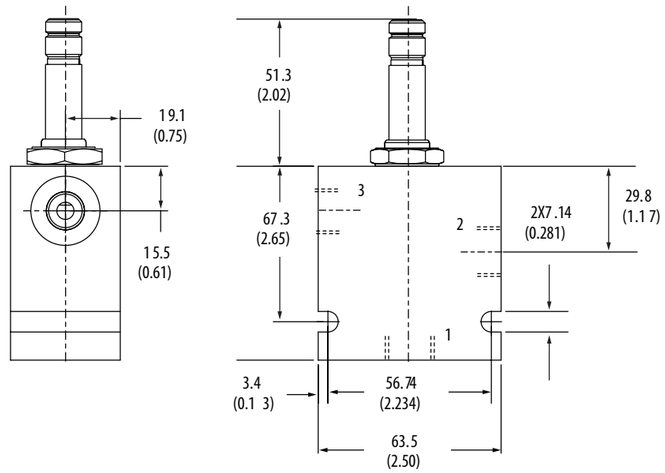
Dimensions
mm (inch)

Cartridge only

Valve is shown with "N"coil.



Installation drawing



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