

Proportional Valves

EPRV2-8

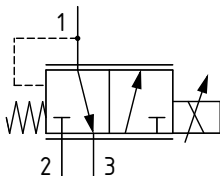
Proportional Pressure Reducing, Relieving, Direct Acting, Normally Open to Drain

35 bar [500 psi] • 7.6 l/min [2 US gpm]

DESCRIPTION AND OPERATION

This is a direct acting, proportional pressure reducing / relieving valve. In the de-energized condition, the inlet port 2 is blocked, while the reduced pressure in port 1 will be at the minimum setting and open to the tank port 3. By energizing the coil, the pressure in port 1 will increase proportionally to the current applied. Flow through port 2 to 1 is restricted to limit the pressure in port 1. In the case of over pressurization in port 1, the spool will open port 1 to port 3, which acts as a relief valve to limit the pressure in port 1.

SCHEMATIC



PERFORMANCE DATA

Rated pressure*	35 bar [500 psi]
Rated flow	7.6 l/min [2 US gpm]
Reduced pressure range	0-22 bar [0-320 psi]
Maximum Hysteresis	5%
Recommended PWM frequency	150 Hz
Maximum control current	0.85 A [12 VDC coil] 0.425 A [24 VDC coil]
Coil Options	S series
Weight	0.29 kg [0.64 lb]
Cavity	SDC08-3

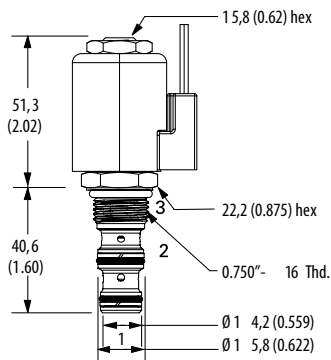
*Rated pressure based on NFPA fatigue test standards (at 1 million cycles)

DIMENSIONS

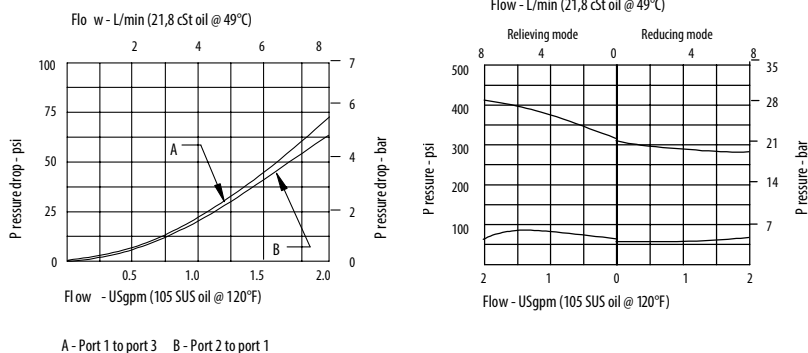
mm [in]

Coil nut torque
5-8 Nm [4-6 ft lbs]

Installation torque
A - 34-41 Nm [25-30 ft lbs]



PERFORMANCE CURVES



MODEL CODE

EPRV2 - 8 - V - A - 4T - 12D - G - S

Seal Option

Code	Seal kit	Housing Material
Omit	Buna - N 02-179451	Omit - No housing
V	Viton 02-179452	A - Aluminum

Housing

Code	Ports	Aluminium
0	No housing	
4T	#4 SAE	02-160741
6T	#6 SAE	02-160742
2G	1/4" BSP	02-160739
3G	3/8" BSP	02-160740

* Aluminum bodies are to be used for pressures less than 210 bar [3000 psi].

* Additional housings available

Coil series

Omit - No coil
S - S series coil

Connector Type

Omit - 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)

Coil Voltage

00 - No coil, nut included (p/n 565558)
12D - 12 VDC
24D - 24 VDC