

Proportional Valves

HPRV08-DAC

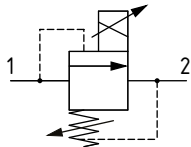
Proportional Relief Valve, Poppet Type, Direct Acting, Normally Closed

350 bar [5000 psi] • 1.9 l/min [0.5 US gpm]

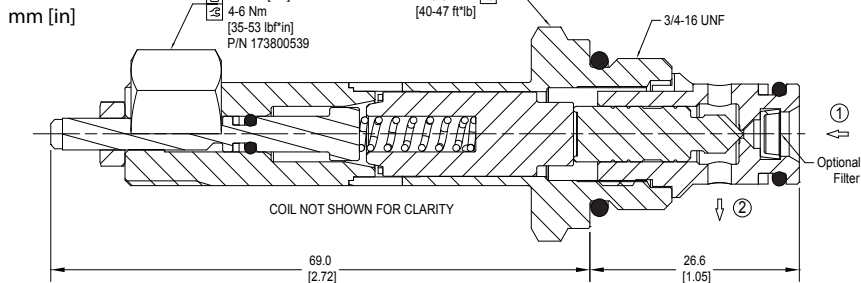
DESCRIPTION AND OPERATION

This is a direct acting, poppet type, normally closed, proportional relief valve. In the de-energized condition, the pressure setting will be at a maximum. As current is applied to the coil, the pressure setting of the valve will decrease proportionally. This valve is ideal for use as a pilot valve to control larger logic elements.

SCHEMATIC



DIMENSIONS



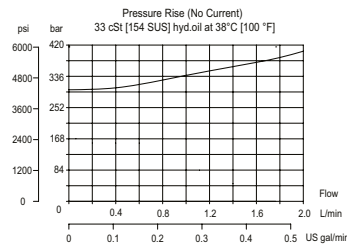
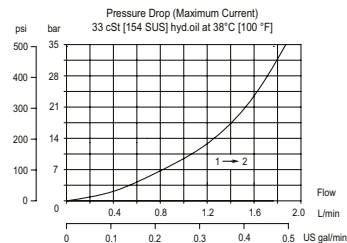
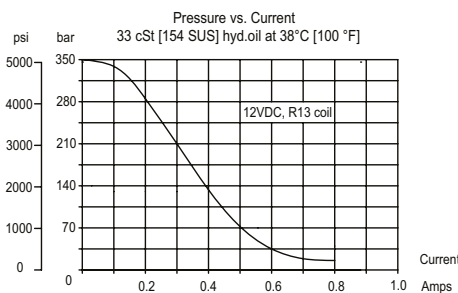
*Adjustment nut torque
4 Nm [36 in lbs]

PERFORMANCE DATA

Rated pressure*	350 bar [5000 psi]
Rated flow	1.9 l/min [0.5 US gpm]
Recommended PWM frequency	50 Hz
Maximum Hysteresis	5%
Threshold current	0 A [12 VDC coil] 0 A [24 VDC coil]
Maximum control current	0.8 A [12 VDC coil] 0.4 A [24 VDC coil]
Coil Options	M13, R13
Weight	0.1 kg [0.23 lb]
Cavity	SDC08-2

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

PERFORMANCE CURVES



MODEL CODE

HPRV08 - DAC - 350 - D - E - R12D - DE - B - F - S4S

Max Pressure Setting

Code - Pressure setting in bar
(5 bar increments within specified Pressure Range)
Example:

Code	Bar	Psi
350	350	[5000]

Pressure Range

Code	Pressure Range
D	215-350 bar [3100-5000 psi]

Actuator Options

E - External

Coil Voltage

Standard Coil Code	Robust Coil Code	Coil Voltage
00	R00	No Coil, nut included*
12D	R12D	12 VDC
24D	R24D	24 VDC

*Standard Coil - Plastic coil nut and o-rings (p/n 173800588)

*Robust Coil - Steel coil nut and no o-rings (p/n 173800539)

Connector Type

Standard Coil Code	Robust Coil Code	Connector Type
00	R00	No Coil
AJ		Amp Junior
AS	AS	AMP SuperSeal 1.5
DE	DE	Deutsch
FL	FL	Flying Leads
DN		DIN 43650

Housing

Code	Ports & Material	Housing Model Code
00	No housing	
S4S	#4 SAE, Steel	CP08-2-S4S
S6S	#6 SAE, Steel	CP08-2-S6S

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

* Additional housings available

Filter Option

F - Filter
Omit - No Filter

Seal Option

Code	Seal kit
B - Buna - N	11191986
V - Viton	11191987