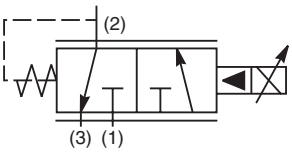
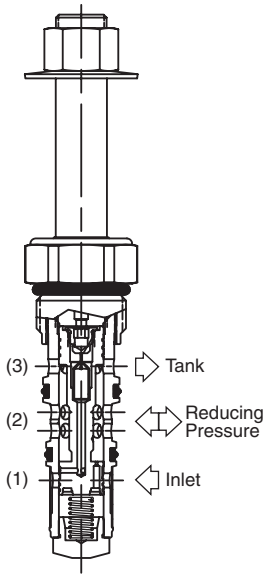
General Description

Pilot Operated, Normally Closed, Proportional Pressure Reducing/Relieving Valve. For additional information see Technical Tips on pages PV1-PV5.

Features

- High flow capacity
- Low hysteresis
- 400 Hz PWM signal preferred
- No dynamic seals
- Polyurethane “D”-Ring eliminates need for backup rings



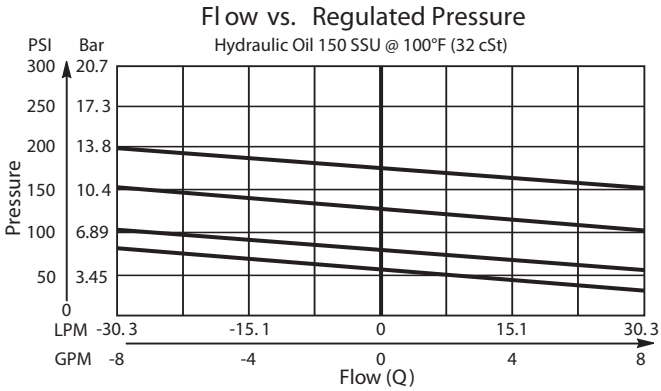


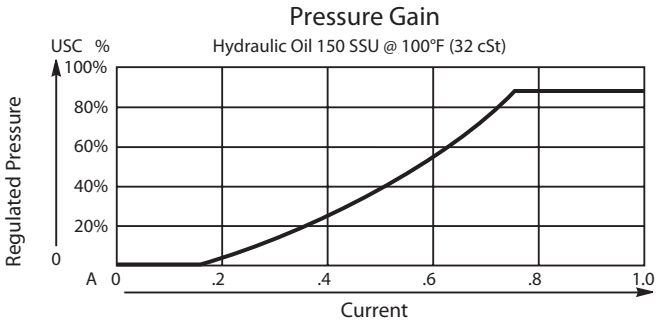
Specifications

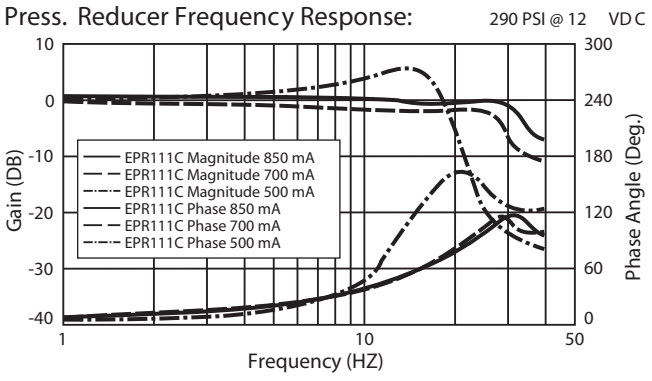
Rated Flow	37.5 LPM (10 GPM)
Maximum Input Pressure at Port 2	350 Bar (5000 PSI)
Maximum Internal Leakage	5 LPM (0.13 GPM) @ 20.7 Bar (300 PSI) 0.95 LPM (0.25 GPM) @ 207 Bar (3000 PSI)
Hysteresis @ 400 Hz PWM	4% with 60% duty cycle
Power Consumption	9 watts at max. reduced pressure
Frequency	200-600 Hz (PWM)
Maximum Control Current	**12 VDC** .90A **24 VDC** .45A
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-37°C to +97°C (“D”-Ring) (-35°F to +200°F) -34°C to +121°C (Nitrile) (-30°F to +250°F) -26°C to +204°C (Fluorocarbon) (-15°F to +400°F)
Fluid Compatibility/ Viscosity	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)
Filtration	ISO-4406 18/16/13, SAE Class 4
Approx. Weight	0.59 kg (1.3 lbs.)
Cavity	C10-3L (See BC Section for more details)

Performance Curves

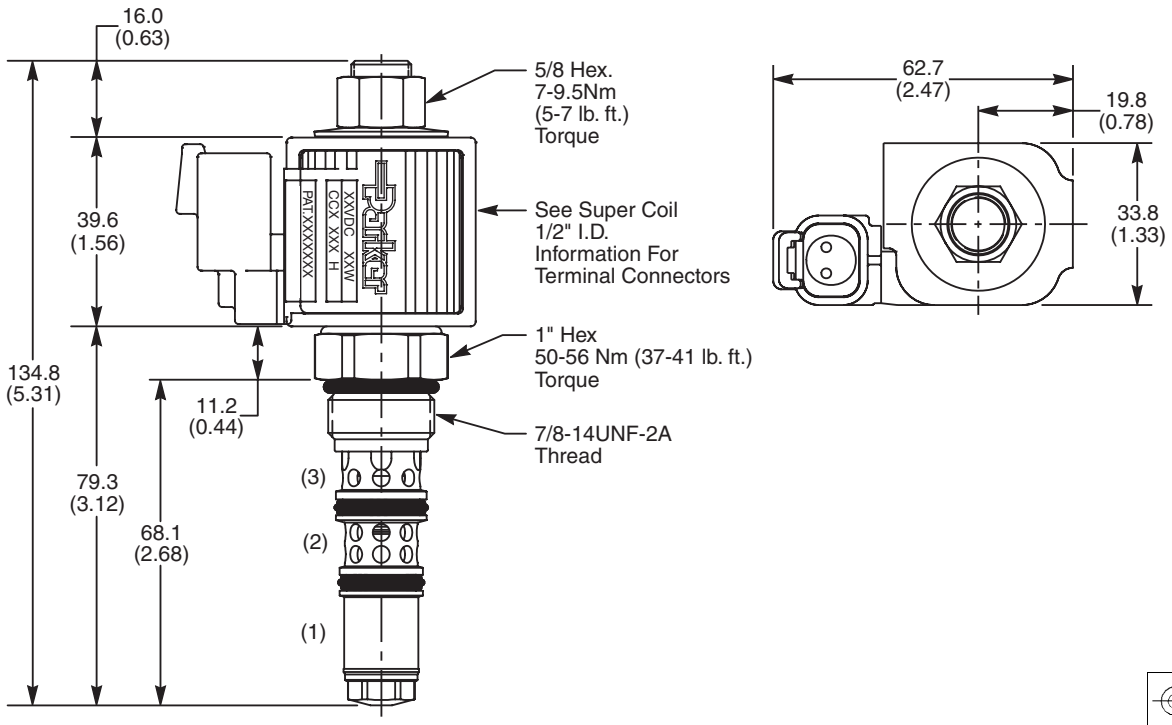
▲PWM Current Regulator Recommended







Dimensions Millimeters (Inches)



NOTE: Requires C10-3L Cavity

THIRD-ANGLE PROJECTION

Ordering Information

EPR111	C		
11 Size Proportional Red./Rel. Valve	Style	Pressure Range	Seals

Highlighted represents preferred options that offer the shortest lead times. Other options may be available, but at extended lead times.

Coil(s) sold separately. Please see section CE of this catalog, 1/2" Super-Coil (CC series), for ordering information.

Code	Style
C	**Normally Closed, Pilot Operated**

Code	Pressure Range
02	13.8 Bar (200 PSI)
03	20.7 Bar (300 PSI)
05	34.5 Bar (500 PSI)
10	68.9 Bar (1000 PSI)
20	138 Bar (2000 PSI)
30	207 Bar (3000 PSI)
40	276 Bar (4000 PSI)

Code	Seals / Kit No.
Omit	**"D"-Ring / (SK10-3L)**
N	Nitrile / Buna-N (SK10-3LN)
V	Fluorocarbon / (SK10-3LV)

Order Bodies Separately
See section BC

B10	–	3	–	
10 size		3-Way Cavity		Port Size

Code	Porting / Body Material
8T	SAE-8 / Steel (5000 PSI)
A8T	SAE-8 / Aluminium (3000 PSI)