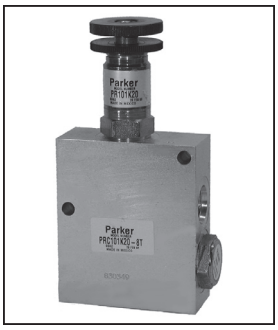
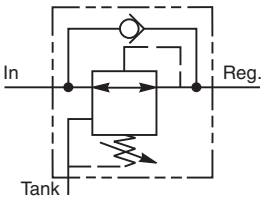
General Description

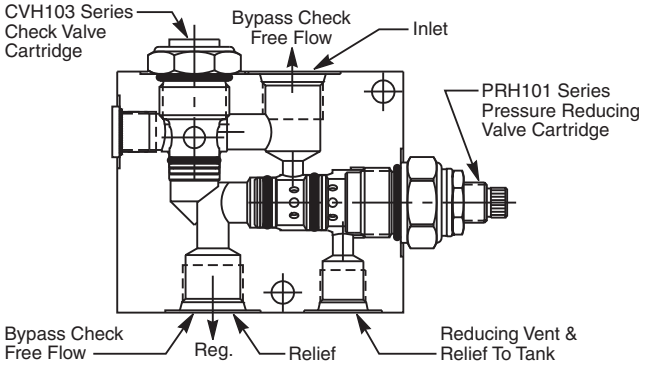
Pilot Operated Pressure Reducing/ Relieving Valve with Reverse Flow Check Valve. For additional information see Technical Tips on pages PC1-PC6.

Features

- Hardened, precision ground parts for durability
- Built-in reverse flow check reduces plumbing
- Cartridge design
- All external parts zinc plated







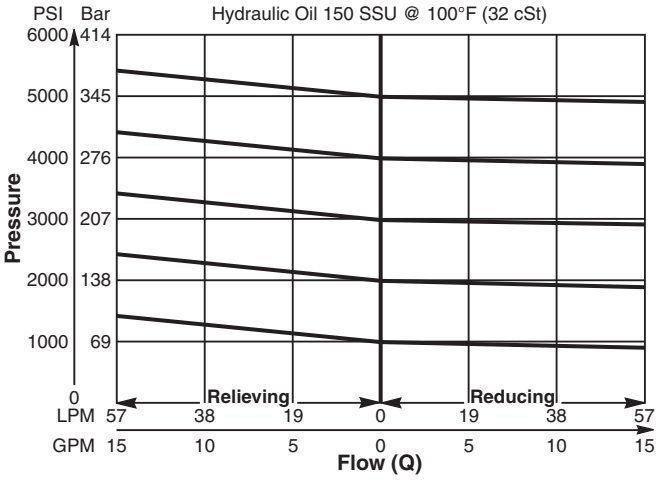
Specifications

Rated Flow	56.3 LPM (15 GPM)
Maximum Inlet Press. (Reducing/ Relieving mode)	380 Bar (5500 PSI)
Maximum Setting Press. (Reducing/ Relieving mode)	350 Bar (5000 PSI)
Sensitivity: Pressure/Turn	**10** 19.6 Bar (285 PSI) **20** 39.3 Bar (570 PSI) **30** 58.9 Bar (859 PSI) **50** 131.7 Bar (1910 PSI)
Maximum Inlet Press. (Free Flow Check mode)	380 Bar (5500 PSI)
Maximum Drain Flow	0.94 LPM (0.25 GPM)
Cartridge Material	All parts steel. All operating parts hardened steel.
Body Material	Steel
Operating Temp. Range/Seals	-45°C to +132°C (“D”-Ring (-50°F to +270°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	1.0 kg (2.2 lbs.)

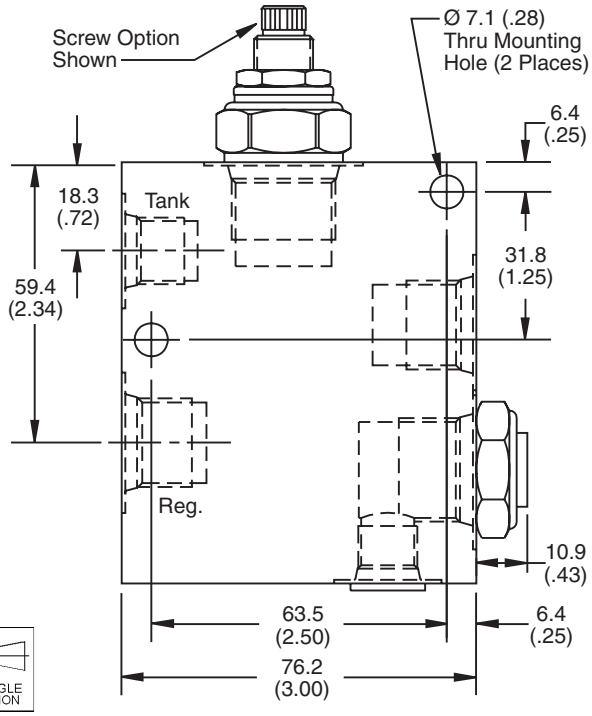
Performance Curve

Flow vs. Inlet Pressure

(Pressure rise through cartridge only)



Dimensions Millimeters (Inches)



THIRD-ANGLE PROJECTION

	IN/REG	TANK
8T	SAE-8	SAE-6

Ordering Information

PRCH101 [ ] [ ] [ ] [ ] [ ] — [ ]

10 Size P.O. Pressure Reducing/ Relieving Valve w/Reverse Flow Check	Adjustment Style	Pressure Range	Optional Pressure Setting	Check Valve Cracking Pressure	Seals	Port Size

Code	Adjustment Style / Kit No.
F	Fixed style, preset at factory.
K	Knob Adjust (717784-10)
S	Screw Adjust
T	Tamper Resistant Cap (718083)

Code	Pressure Range
03	6.9 - 34.5 Bar (100 - 500 PSI) Standard Setting: 17.2 Bar (250 PSI)
10	13.7 - 69 Bar (200 - 1000 PSI) Standard Setting: 34.5 Bar (500 PSI)
20	27 - 138 Bar (400 - 2000 PSI) Standard Setting: 69 Bar (1000 PSI)
30	41.4 - 207 Bar (600 - 3000 PSI) Standard Setting: 103.5 Bar (1500 PSI)
50	82.8 - 345 Bar (1200 - 5000 PSI) Standard Setting: 172.4 Bar (2500 PSI)

NOTE: For settings below 20.7 Bar (300 PSI), flow rating is limited to 11.3 LPM (3 GPM).

Optional Pressure Setting
Pressure ÷ 10 i.e. 235 = 2350 PSI (Omit if standard setting is used) Setting Range: 100 to 5000 PSI All settings at crack pressure, approximately .95 LPM (.25 GPM)

Code	Cracking Pressure
Omit	0.3 Bar (5 PSI)
P15	1.0 Bar (15 PSI)
P20	1.4 Bar (20 PSI)
P40	2.8 Bar (40 PSI)
P50	3.5 Bar (50 PSI)
P65	4.5 Bar (65 PSI)
P80	5.5 Bar (80 PSI)

Code	Seals
Omit	"D"-Ring
N	Nitrile
V	Fluorocarbon

Code	Port Size	Part No.
8T	SAE-8	830349

Individual body requires 1 SAE 5 plug. Part number 5 HP50N-S.