

CV

Check
Valves

SH

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

MV

Manual
Valves

SV

Solenoid
Valves

PV

Proportional
Valves

CE

Coils &
Electronics

CB

Cartridge
Bodies

BC

Bodies &
Cavities

TD

Technical
Data

General Description

Pressure Compensated Priority Flow Regulator Valve. For additional information see Technical Tips on pages FC1-FC4.

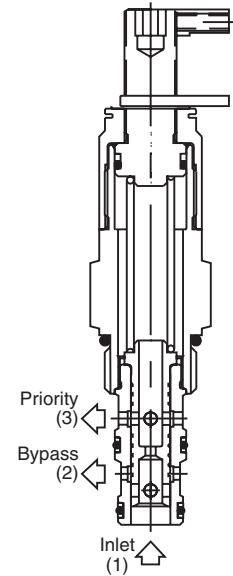
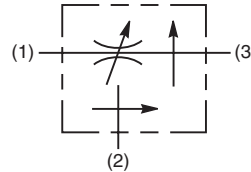
Caution: If the priority line is blocked, so that no flow can pass through the control orifice, the compensator spool will shift, blocking the bypass port and allowing inlet pressure to go to full system relief pressure. The FP101 cartridge does not provide a pressure relieving function.

Features

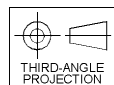
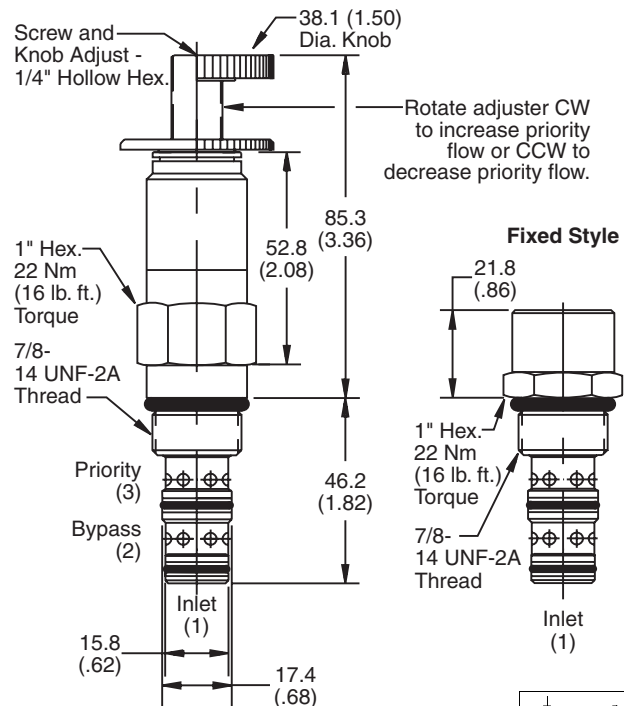
- Hardened, precision ground parts for durability
- Cartridge design
- Acts as a fixed orifice in reverse flow condition (Priority line only)
- All external parts zinc plated

Specifications

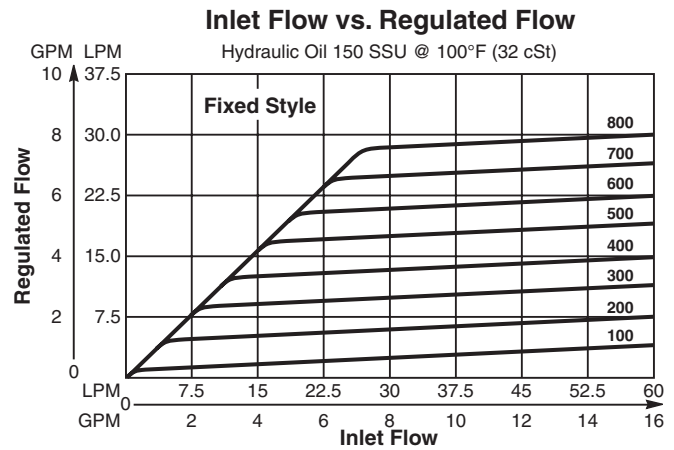
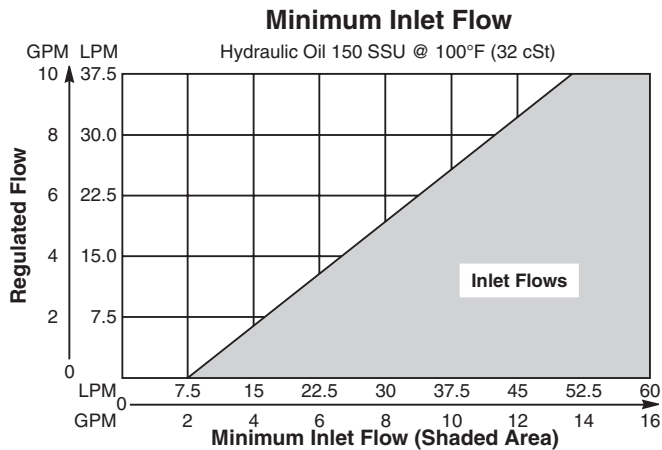
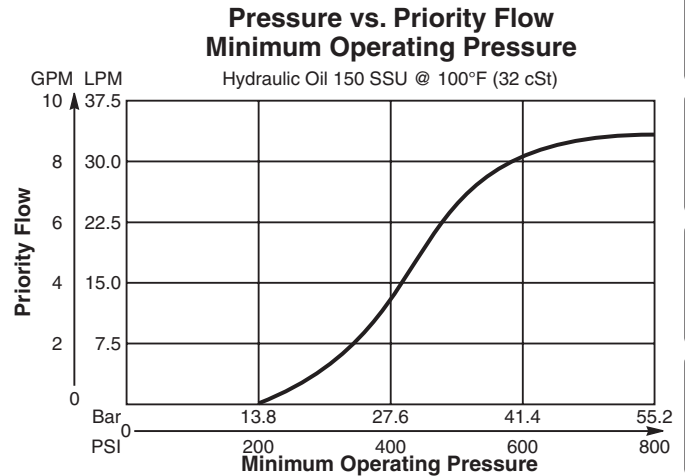
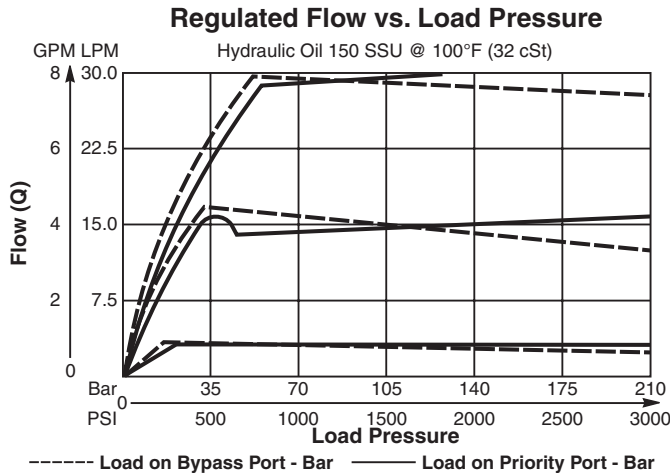
Maximum Priority Flow	Fixed 30.0 LPM (8 GPM) Adjusted 33.8 LPM (9 GPM)
Maximum Inlet Flow	56.3 LPM (15 GPM)
Minimum Inlet Flow	See Valve Performance Curves
Maximum Inlet Pressure	245 Bar (3500 PSI)
Minimum Inlet Pressure	See Valve Performance Curves
Accuracy Fixed	±20%
Adjustment Range (Adj. Version)	±20% Nominal
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-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	0.23 kg (0.50 lbs.)
Cavity	C10-3 (See BC Section for more details)
Form Tool	Rougher NFT10-3R Finisher NFT10-3F



Dimensions



Performance Curves (Through cartridge only)



Ordering Information

FP101
 10 Size
 Pressure
 Compensated Flow
 Regulator

Adjustment
 Style

Flow
 Setting/
 Range

Seals

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

Code	Adjustment Style
F	Fixed Style preset at factory
K	Knob Adjust (840208K)
S	Screw Adjust

Code	Fixed Style Flow
100	3.8 LPM (1 GPM)
200	7.5 LPM (2 GPM)
300	11.3 LPM (3 GPM)
400	15 LPM (4 GPM)
500	18.8 LPM (5 GPM)
600	22.5 LPM (6 GPM)
700	26.3 LPM (7 GPM)
800	30 LPM (8 GPM)

Code	Knob/Screw Style Flow Range
085	2.6-3.8 LPM (0.7-1.0 GPM)
110	3.0-5.3 LPM (0.8-1.4 GPM)
155	4.5-7.1 LPM (1.2-1.9 GPM)
220	6.4-10.1 LPM (1.7-2.7 GPM)
295	8.6-13.5 LPM (2.3-3.6 GPM)
405	11.6-18.8 LPM (3.1-5.0 GPM)
575	16.9-26.3 LPM (4.5-7.0 GPM)
780	23.6-34.9 LPM (6.3-9.3 GPM)

Code	Seals / Kit No.
Omit	Nitrile / (SK10-3)
V	Fluorocarbon / (SK10-3V)

Order Bodies Separately
 See section BC

B10

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3

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10 size
3-Way
Cavity
Port
Size

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

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