

General Description

Pressure Compensated Flow Regulator Valve.

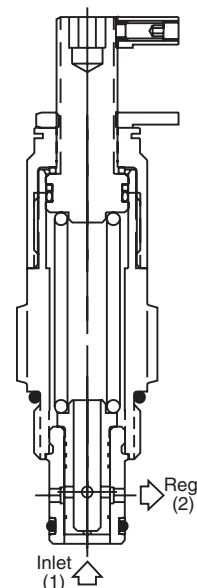
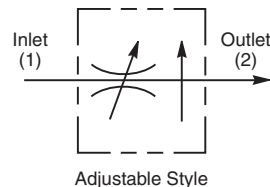
NOTE: When used with a fixed displacement pump, pressure to the cartridge must be controlled by a relief valve located between the pump and the FR101 cartridge. For additional information see Technical Tips on pages FC1-FC4.

Features

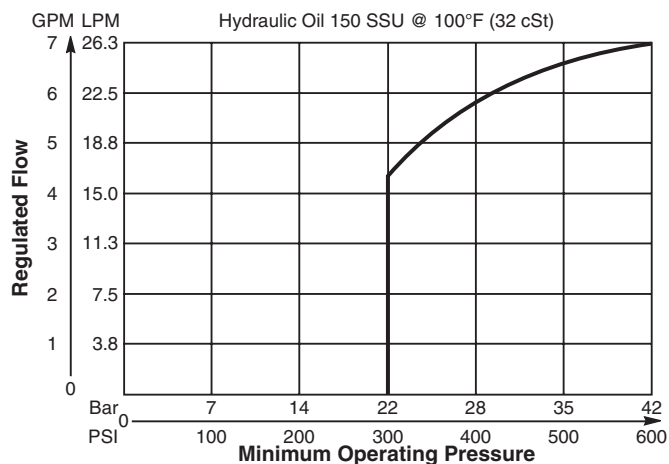
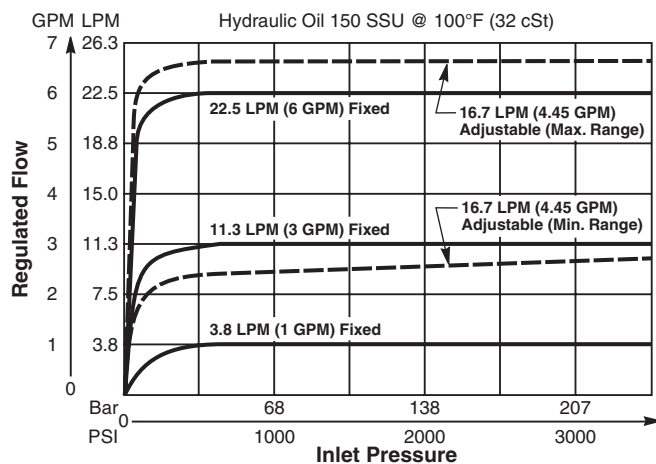
- Hardened, precision ground parts for durability
- Cartridge design
- Acts as a fixed orifice in reverse flow condition
- All external parts zinc plated

Specifications

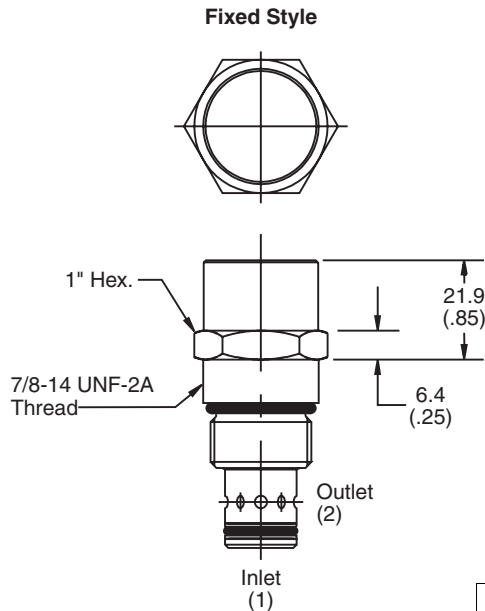
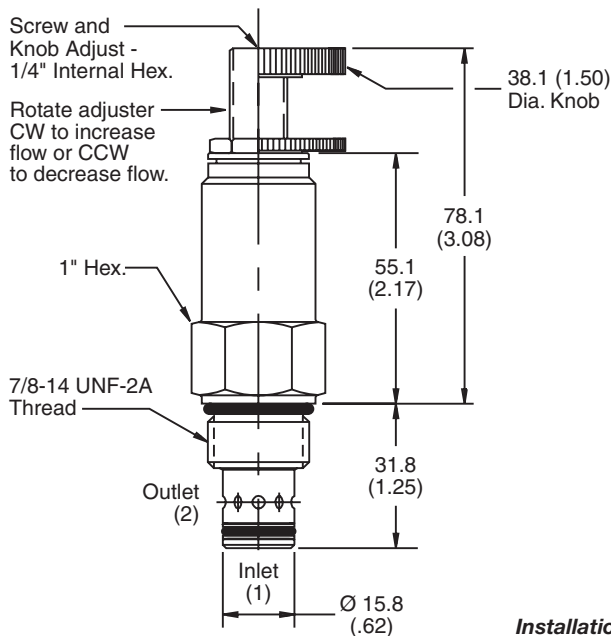
Rated Flow	Fixed 22.5 LPM (6 GPM) Adjusted 26.5 LPM (7 GPM)
Maximum Inlet Pressure	245 Bar (3500 PSI)
Accuracy (Fixed)	3.8 LPM (1 GPM) $\pm 20\%$ 7.5 - 11.3 LPM (2-3 GPM) $\pm 15\%$ 15 - 22.5 LPM (4-6 GPM) $\pm 10\%$
Adjustment Range (Adj. Version)	$\pm 30\%$ Nominal
Cartridge Material	All parts steel. 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	C10-2 (See BC Section for more details)
Form Tool	Rougher None Finisher NFT10-2F



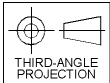
Performance Curves Regulated Flow vs. Pressure (Through cartridge only)



Dimensions Millimeters (Inches)



Installation Torque
Aluminum 22 Nm (16 lb. ft.)
Steel 65 Nm (48 lb. ft.)



Ordering Information

FR101

10 Size
Pressure
Compensated
Flow Regulator
(Restrictive)

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)

Code	Knob/Screw Style Flow Range
065	1.9-3.0 LPM (0.5-0.8 GPM)
095	3.0-4.5 LPM (0.8-1.2 GPM)
135	4.1-6.4 LPM (1.1-1.7 GPM)
185	6.0-8.3 LPM (1.6-2.2 GPM)
260	7.9-11.6 LPM (2.1-3.1 GPM)
375	11.3-16.9 LPM (3.0-4.5 GPM)
550	16.1-25.1 LPM (4.3-6.7 GPM)

Code	Seals / Kit No.
Omit	Nitrile / (SK10-2)
V	Fluorocarbon / (SK10-2V)

Order Bodies Separately
See section BC

B10	—	2	—	
10 size		2-Way Cavity		Port Size

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