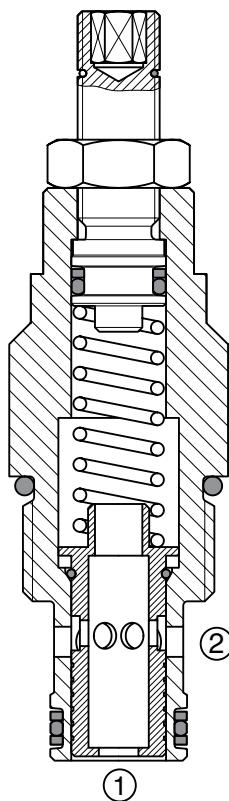
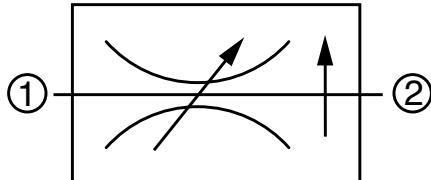


# FLOW CONTROL VALVES

## SR10-01

### Flow Regulator, Pressure Compensated, Restrictive Type

Up to 10 gpm (38 l/min) • 5000 psi (350 bar)



#### Description

A screw-in cartridge, adjustable, pressure compensated, hydraulic flow regulating valve (restrictive type).

#### Operation

The SR10-01 maintains a constant flow from port 1 to port 2 based on the setting adjustment, regardless of pressure changes downstream of port 2. The flow rate is determined by a fixed control orifice and could be adjusted within a limited range. Reverse flow from port 2 to port 1 is at the value of the fixed control orifice and is non-pressure compensated.

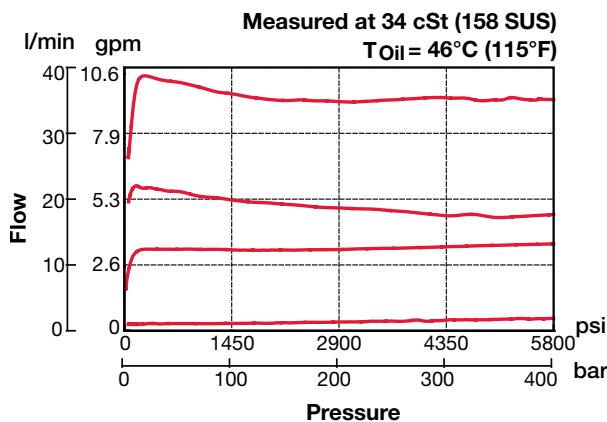
#### Features

- Excellent stability throughout flow range
- Reverse flow capability
- Desired setting may be locked down
- Adjustment screw cannot be backed out of the valve
- All external surfaces zinc-plated
- Aluminum knob option for ease of adjustment
- Hardened parts to ensure minimal wear and extend service life
- One-piece body maximizes reliability and minimizes the effect of eccentricity
- Industry common cavity

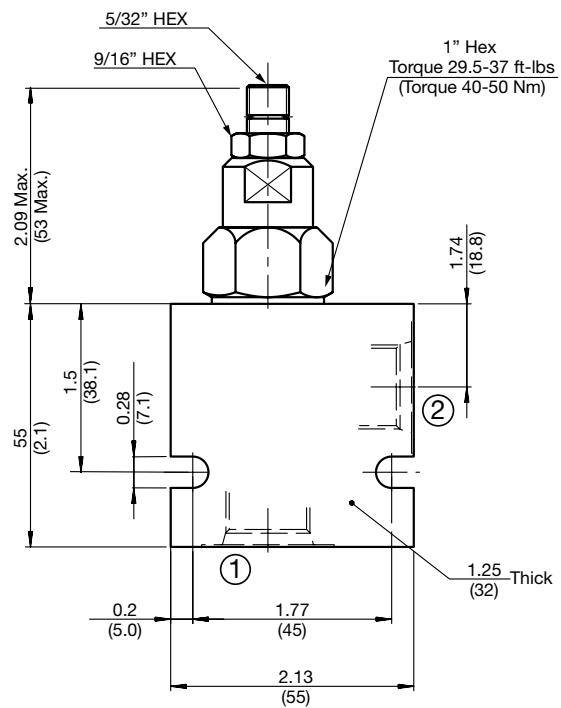
#### Specifications

|                                 |   |
|---------------------------------|---|
| Operating Pressure              | 5000 psi (350 bar)  |
| Max. Operating Pressure, Port 2 | 3000 psi (210 bar)  |
| Nominal Flow                    | 10 gpm (38 l/min)   |
| Adjustment Torque Required      | 1.25 lbf.ft at 3000 psi (1.7Nm at 210 bar)<br>2.21lbf.ft at 5000 psi (3.0 Nm at 350 bar)  |
| Flow Ranges and Accuracy        | 1.0 - 3.5 gpm (4 - 13 l/min) ±10%<br>3.5 - 10.0 gpm (13 - 38 l/min) ±10%  |
| Fluid Operating Temp. Range     | -4° to 248°F (-20° to +120°C)<br>(Consult factory for usage at temp. outside range.)  |
| Fluid Compatibility             | Mineral-based or synthetics with lubricating properties   |
| Viscosity                       | 50 to 2000 SUS (7.4 to 420 cSt)   |
| Filtration                      | 21/19/16 or cleaner (per ISO 4406). Use with filter rated $\beta_{10} \geq 200$ .   |
| Installation                    | No orientation restrictions   |
| Cavity                          | FC10-2 (see Line Bodies & Cavities section)   |
| Cavity Tools                    | Rougher: 02580274<br>Finisher: 02580247   |
| Cartridge Weight                | 0.35 Lbs. (0.16 kg)   |
| Cartridge Material              | Steel with hardened work surfaces.<br>Zinc-plated exposed surfaces.<br>Anodized aluminum knobs. (option H)<br>Buna N or Viton® o-rings, and PTFE back-up rings. |
| Seal Kits                       | Buna-N FS082-N P/N: 03033872<br>Viton® FS082-V P/N: 03051757  |

#### Performance

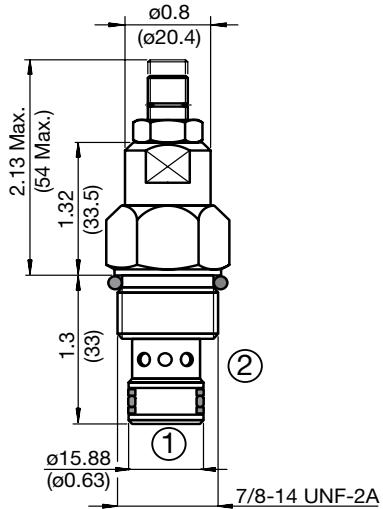


## Dimensions

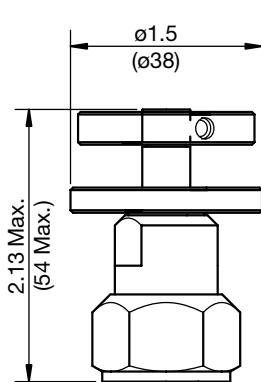


## Adjustment Options

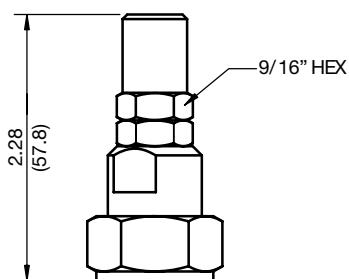
'V' - Allen Head (std)



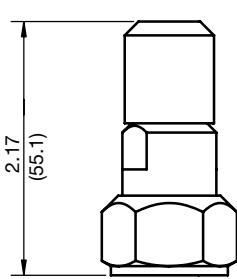
'H' - Hand Knob



'K' - Protective Cap



'F' - Tamper Proof Cap



All measurements in inches (mm).  
Subject to technical modifications

## Model Code

SR10-01-C-N-3.5 V 1.8

## Valve Model

## Body &amp; Ports

- C = Cartridge only
- AS8 = SAE-8 ports, aluminum body
- SS8 = SAE-8 ports, steel body

## Seals

- N = Buna-N
- V = Viton®

## Flow Rate

- 3.5 = 1.0 to 3.5 gpm (4 to 13 l/min)
- 10.0 = 3.5 to 10.0 gpm (13 to 38 l/min)

## Adjustment Options

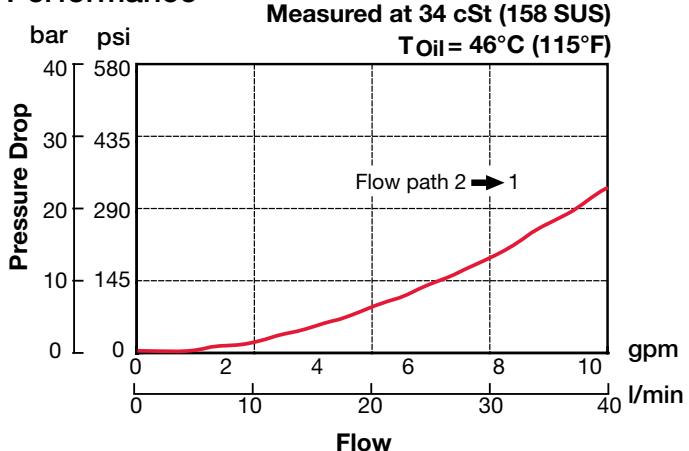
- F = Factory pre-set, non-adjustable  
(must specify setting below)
- H = Knurled Hand Knob
- K = Allen Head (HEX 5/32") w/ cover cap
- V = Allen Head (HEX 5/32")

## Setting

- blank = Set at 50% of maximum flow for the range
- XXX = flow rate in gpm

Example: 1.8 = 1.8 psi

## Performance



## Standard Line Bodies\*

| Code      | Part No  | Material           | Pressure Rating    | Weight            |
|-----------|----------|--------------------|--------------------|-------------------|
| FH102-AS8 | 03037778 | Aluminum, anodized | 3500 psi (245 bar) | 0.40 lb (0.18 kg) |
| FH102-SS8 | 03037612 | Steel, Zinc plated | 6000 psi (420 bar) | 1.16 lb (0.53 kg) |

\*Please refer to Line Bodies & Cavities section for details