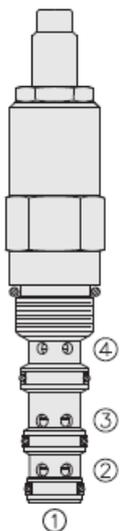




Overview



Description

The frr10-40 is a screw in, cartridge type, combination valve including a fixed orifice, pressure compensated, priority type flow regulator and a pressure relief valve.

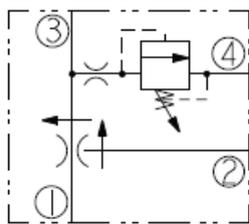
Operation

With inlet at port 1 and ports 4 and 2 connected to tank, the valve maintains a constant flow rate from port 3 regardless of pressure variations at port 3.

Features

- Compact size.
- Two valve functions in one, industry-common cavity.
- Efficient - FR portion is vented.
- Quiet, modulated response.
- Hardened parts for long life.

Symbol



Ratings

Pressure Ratings

| | | |
|-----------------|--|--|
| Pressure rating | 207 bar (3000 psi) 276 bar (4000 psi) | - Note: Maximum system pressure |
|-----------------|--|--|

Flow Ratings

| | |
|----------------------|-----------------------------------|
| Priority flow rating | 2.8 to 18.9 lpm (0.75 to 5.0 gpm) |
|----------------------|-----------------------------------|

Temperature Ratings

| | | |
|-----------------------------|--|--|
| Operating fluid temperature | -40 to 100 °C (-40 to 212 °F) -26 to 204 °C (-15 to 400 °F) | - Note: With buna N seals - Note: With fluorocarbon seals |
| Storage temperature | -40 to 70 °C (-40 to 160 °F) | |
| Ambient temperature | -40 to 70 °C (-40 to 160 °F) | |

Operating Parameters

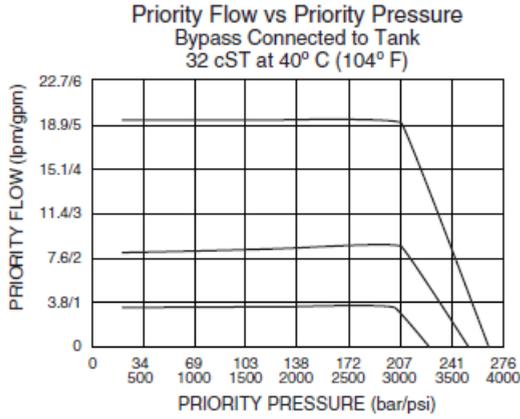
| | |
|---------------------------------------|--|
| Fluids | Mineral based or synthetic hydraulic fluid with lubricating properties |
| Fluid viscosity range | 7.4 to 420 cSt |
| Maximum operating contamination level | 18/16/13 per iso4406 |

Properties

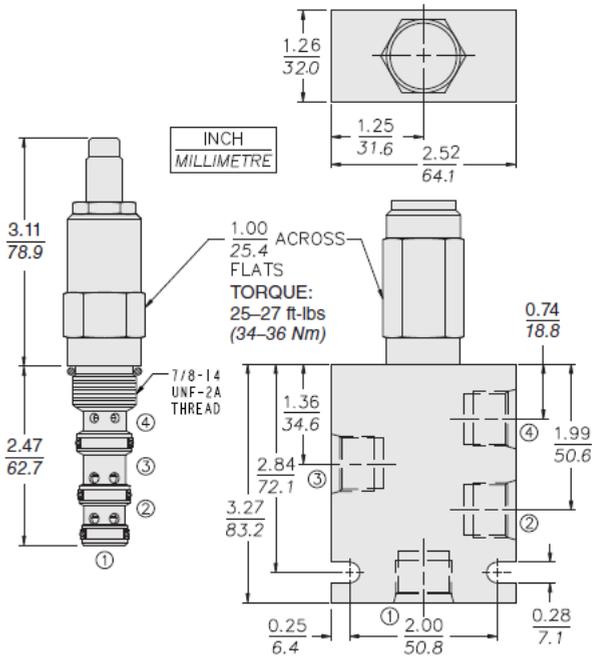
| | |
|------------------------------|---|
| Unit weight | 0.29 kg (0.63 lb) |
| Internal wetted surface area | 266 cm ² (41.2 in ²) |



Performance



Dimensions



Installation Specifications

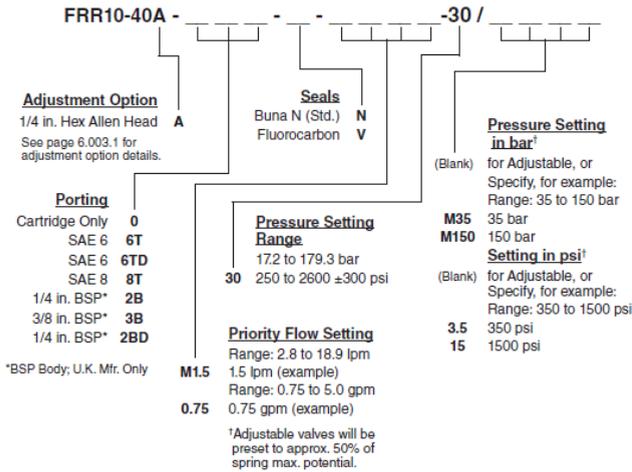
| | |
|-------------------------------|-------------------------------|
| Cavity | VC10-4 |
| Cartridge installation torque | 34 to 37 N-m (25 to 27 ft-lb) |
| Orientation restriction | None |

Accessories

| | | |
|----------|-----------|--------------------------------|
| Seal kit | SK10-4X-M | - Note: X = seal option |
|----------|-----------|--------------------------------|



Order Code



Model Options

FRR10-40A-H-J-S-T

H Line Body

| CODE | DESCRIPTION |
|------|--------------------|
| 0 | No Body |
| 6T | Aluminum SAE 6 |
| 8T | Aluminum SAE 8 |
| 6TD | Ductile Iron SAE 6 |

J Seal

| CODE | DESCRIPTION |
|------|--------------|
| N | Buna-N |
| V | Fluorocarbon |
| P | Polyurethane |

S Spring Setting

| CODE | DESCRIPTION |
|------|----------------------------------|
| MXXX | Spring Setting in XXX bar |
| XX | Spring Setting in XX psi (x 100) |

T Flow Setting

| CODE | DESCRIPTION |
|------|--------------|
| XX | Flow Setting |