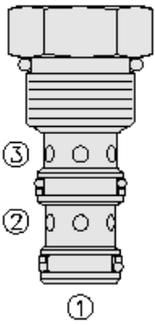




Overview



Description

FR10-32X is an adjustable, pressure compensated, bi-directional flow control valve.

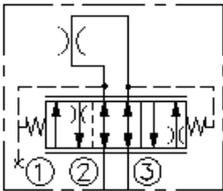
Operation

The valve provides regulated flow in both directions from port 2 to 3 or 3 to 2, port 1 should be blocked. Regulated flow increases from closed to fully open with clockwise rotation. The valve will maintain set up flow rate regardless of pressure variations at each of the ports.

Features

- Hardened seat for long life and low leakage.
- Excellent linearity and hysteresis.
- Industry-common cavity.

Symbol



Ratings

Pressure Ratings

| | |
|-----------------|---------------------|
| Pressure rating | 241 bar (3500 psi) |
| Proof pressure | 345 bar (5000 psi) |
| Burst pressure | 896 bar (13000 psi) |

Flow Ratings

| | |
|--------------------------|----------------------------|
| Flow rating | 0 to 19.0 lpm (0 to 5 gpm) |
| Maximum internal leakage | 0.38 lpm (0.10 gpm) |

Temperature Ratings

| | | |
|-----------------------------|-------------------------------|---------------------------|
| Operating fluid temperature | -40 to 120 °C (-40 to 250 °F) | - Note: With buna N seals |
| | -26 to 204 °C (-15 to 400 °F) | - Note: With viton 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 ISO 4406 | |

Properties

| | | |
|------------------------------|---|------------------|
| Unit weight | 0.16 kg (0.35 lb) | - Note: Option A |
| Internal wetted surface area | 187.1 cm ² (29.0 in ²) | |



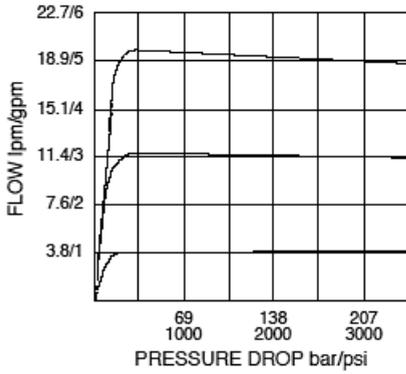
Performance

Regulated Flow vs. Pressure Drop

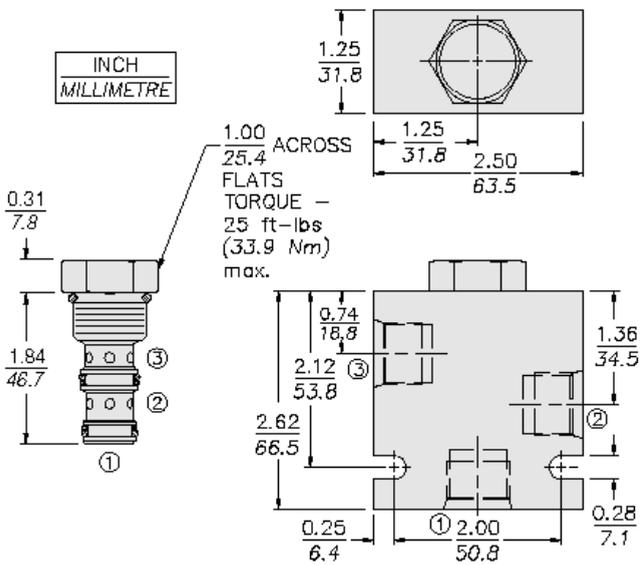
② to ③ or ③ to ②

1, 3 and 5 gpm settings shown

32 cSt/150 sus oil at 40°C



Dimensions



Installation Specifications

| | |
|-------------------------------|----------|
| Cavity | VC10-3 |
| Cartridge installation torque | 33.9 N-m |
| Orientation restriction | None |

Accessories

Seal kit SK10-3X-MM - **Note:** X = seal option

Order Code

