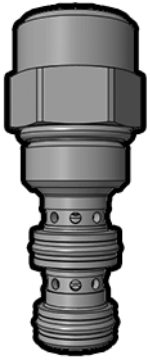
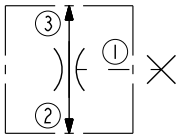


Bi-directional flow regulator pressure compensated

Overview



SYMBOL



Description

FR08-32F is a screw-in, cartridge style, fixed orifice, pressure compensated, bi-directional hydraulic flow regulator valve (restrictive type).

Operation

The valve maintains a constant flow rate from port 2 to port 3 or port 3 to port 2 regardless of load pressure changes. Port 1 must be blocked. Ratings:

Features

- Hardened parts for long life.
- Customizable flow options.
- Bi-directional.
- Industry-common cavity.

Ratings

Pressure Ratings

Pressure rating: 5000 psi [345 bar]

Proof pressure: 9000 psi [620 bar]

Burst pressure: 18000 psi [1241 bar]

Flow Ratings

Flow rating: 0.10 gpm [0.38 lpm] note: Min

2.0 gpm [7.5 lpm] note: Max

Temperature Ratings

Storage temperature: -40 °f to 160 °f [-40 °c to 70 °c]

Ambient temperature: -40 °f to 160 °f [-40 °c to 70 °c]

Operating fluid temperature: -40 °f to 212 °f [-40 °c to 100 °c] note: (Buna N)

-15 °f to 400 °f [-26 °c to 204 °c] note: (Fluorocarbon)

-65 °f to 225 °f [-54 °c to 107 °c] note: (Polyurethane)

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

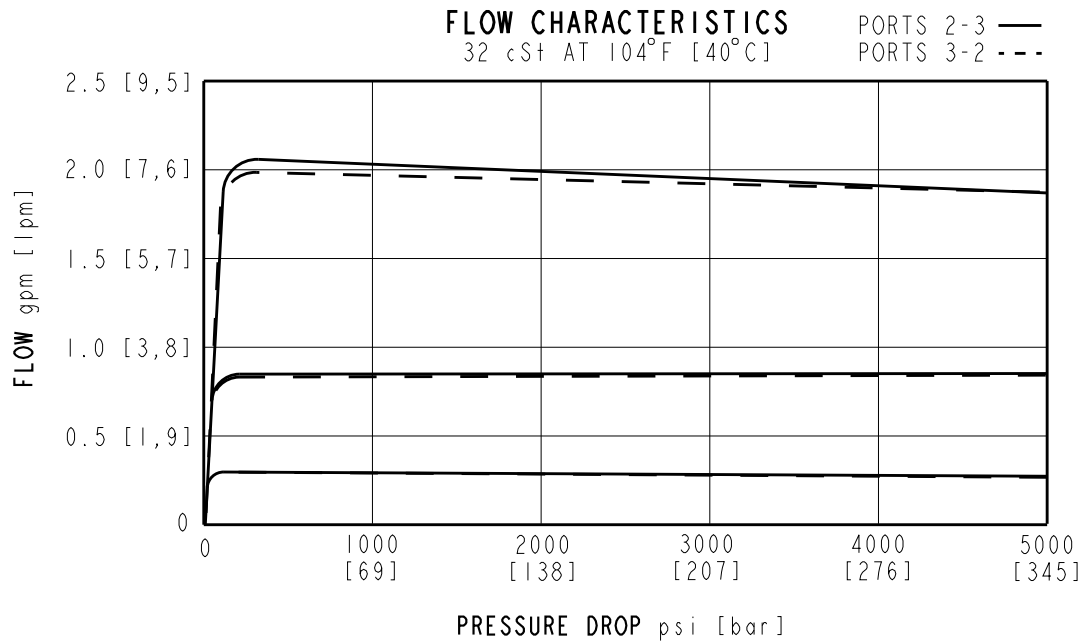
Properties

Unit weight: 0.20 lb [0.09 kg]

Internal wetted surface area: 16.3 in² [105 cm²]

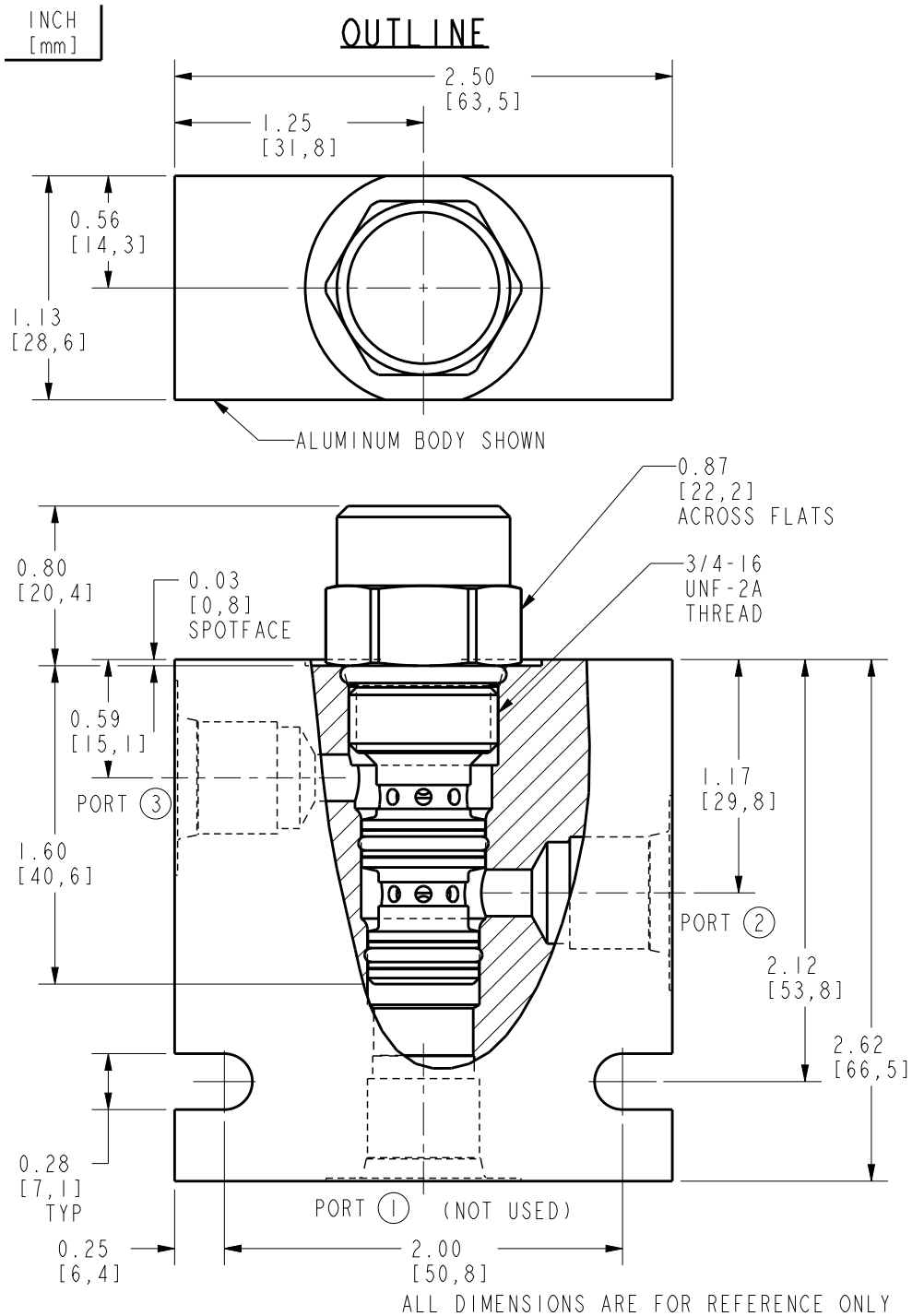
Bi-directional flow regulator pressure compensated

Performance



Bi-directional flow regulator pressure compensated

Dimensions



Installation Specifications

Cavity: VC08-3

Cartridge installation torque: 19-21 ft-lb [25.8-28.5 N-m]

Maximum allowable torque: 35 ft-lb [47.5 N-m]

Orientation restriction: None

Bi-directional flow regulator pressure compensated

Accessories

Seal kit: SK08-3X-M note: X = seal option

Order Code

ORDERING INFORMATION:

FR08-32F-X-X-XXXX

BASE MODEL
NUMBER

PORTING

CARTRIDGE ONLY - 0

SEAL OPTIONS

BUNA N - N

FLUOROCARBON - V

* POLYURETHANE - P

FLOW SETTING:

SETTING IN gpm

RANGE: 0.10 TO 2.0 gpm

SPECIFY, FOR EXAMPLE:

1.3 gpm - 1.3

2.0 gpm - 2.0

SETTING IN lpm

RANGE: 0.38 TO 7.5 lpm

SPECIFY, FOR EXAMPLE:

1.8 lpm - M1.8

5.0 lpm - M5.0

DRILL SIZE METHOD

(IN THOUSANDS OF AN INCH)

RANGE: 0.021 TO 0.081 in

SPECIFY, FOR EXAMPLE:

0.031 in CONTROL ORIFICE - D031

* POLYURETHANE SEALS
RECOMMENDED FOR OPERATING
PRESSURES ABOVE 3500 psi
[241 bar]

Model Options

FR08-32F-H-J-T

F Adjustment Option

CODE	DESCRIPTION
F	Factory Preset Non-Adjustable

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6
8TD	Ductile Iron SAE 8
3B	Aluminum BSPP 3/8" (3)
3BD	Ductile Iron BSPP 3/8" (3)

Bi-directional flow regulator pressure compensated

J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
P	Polyurethane

T Flow setting

CODE	DESCRIPTION
XXXX	Flow setting/drill size