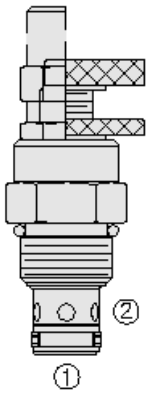
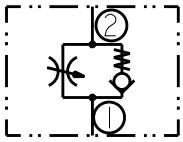
Flow control valve

## Overview




*SYMBOL*




### Description

A screw-in, cartridge style, variable orifice, hydraulic flow control valve with reverse flow check.

### Operation

The FC10-20 valve increases its orifice value from fully closed to fully open with counter-clockwise adjustment rotation.

## Ratings

### Pressure Ratings

**Pressure rating:** 3500 psi [241 bar]

**Proof pressure:** 5000 psi [345 bar]

**Burst pressure:** 13000 psi [896 bar]

### Flow Ratings

**Flow rating:** 12 gpm [45.4 lpm] note: At 100 psi [6.89 bar] fully open, 3 turns.

**Maximum internal leakage:** 10 drops/min [0.5 ml/min]

### Temperature Ratings

**Operating fluid temperature:** -40°F to 212°F [-40°C to 100°C] note: With Buna N seals

-15°F to 400°F [-26°C to 204°C] note: With fluorocarbon seals

-65°F to 225°F [-54°C to 107°C] note: With polyurethane seals

**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 Parameters

**Fluids:** Mineral based or synthetic hydraulic fluid note: With Lubricating properties.

**Fluid viscosity range:** 7.4 to 420 cSt

**Maximum operating contamination level:** 18/16/13 per ISO4406

## Properties

**Adjuster torque:** 3 in-lb [0.34 N-m] note: 100 psi [7 bar]

40 in-lb [4.52 N-m] note: 3000 psi [207 bar]

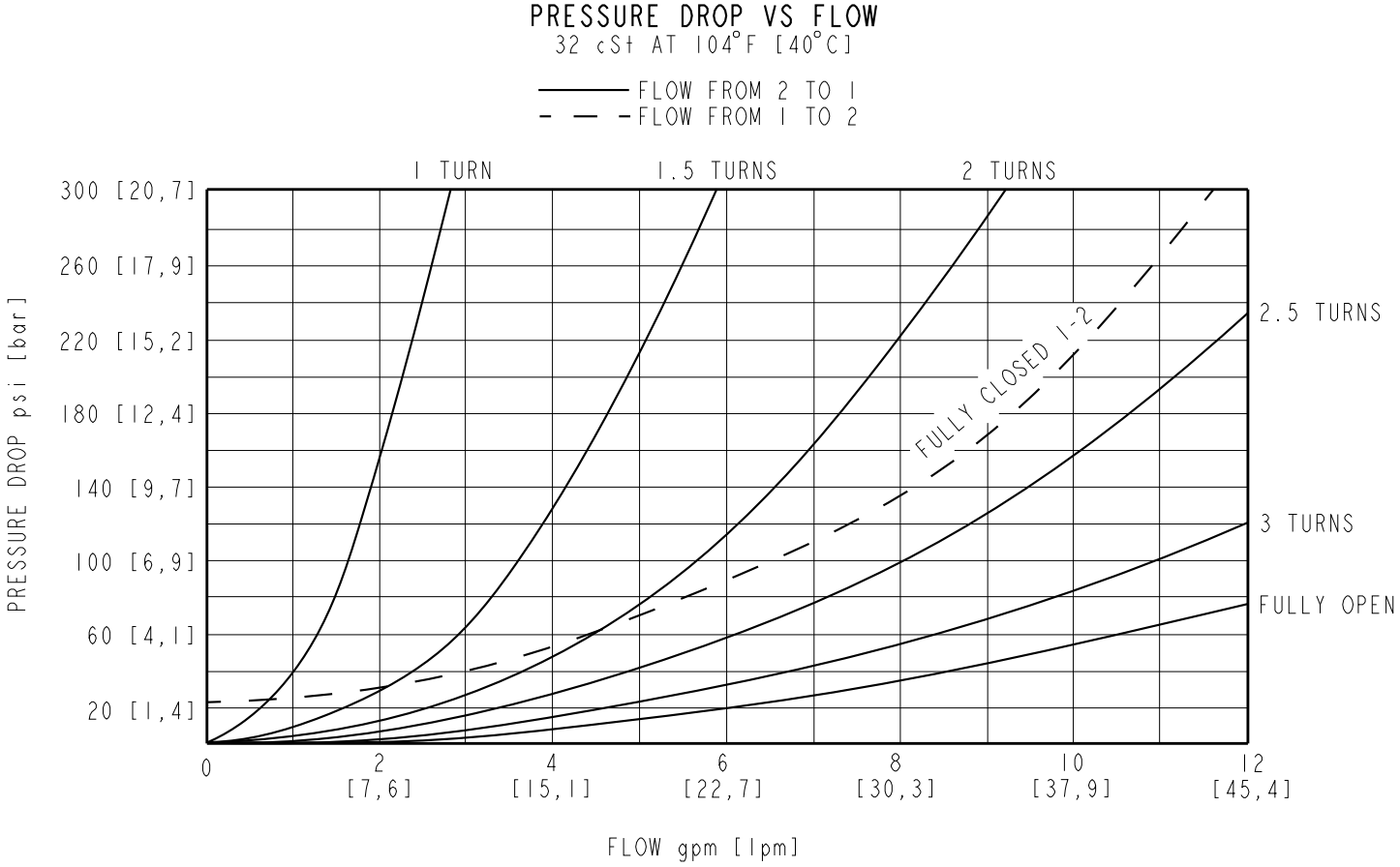
**Corrosion protection:** 960 hr salt spray per ASTM B117 note: Model number - GFC10-20

**Unit weight:** 0.33 lb [0.15 kg] (option a)

Flow control valve

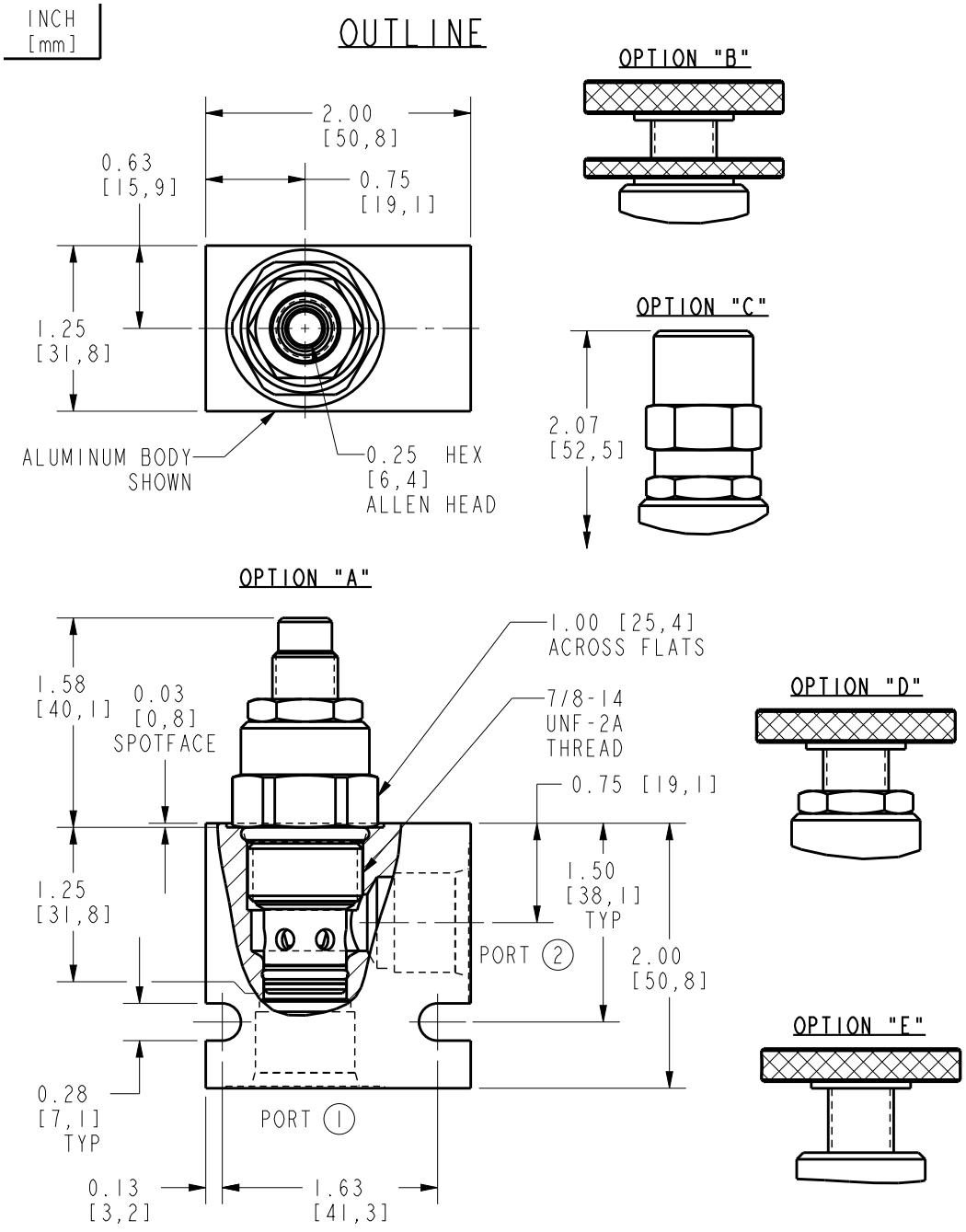
**Internal wetted surface area:** 14.9 in² [96 cm²]

## Performance



Flow control valve

## Dimensions




ALL DIMENSIONS ARE FOR REFERENCE ONLY.

## Installation Specifications

**Cavity:** VC10-2

**Cartridge installation torque:** 25-27 ft-lb [34.0-36.7 N-m]

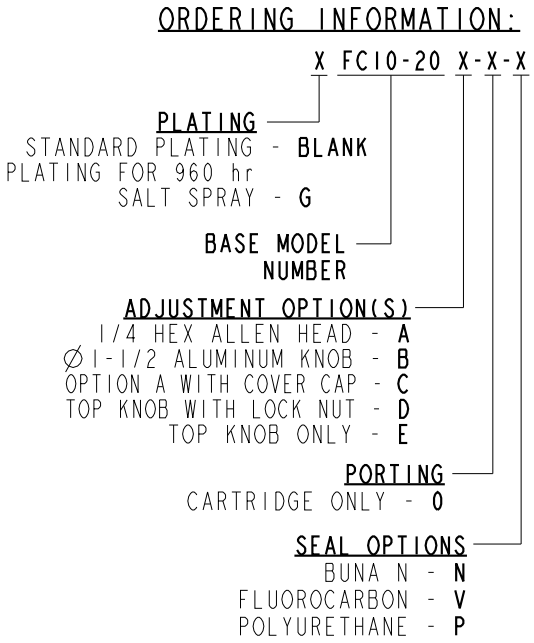
**Orientation restriction:** None

Flow control valve

## Accessories

**Seal kit:** SK10-2X-M (X = seal option) installation

## Order Code




### Model Options

**FC10-20F-H-J**

*F Adjustment Option*

| CODE | DESCRIPTION |
|---|---|
| A | 1/4" Hex Allen Head |
| B | 1-1/2" Diameter Aluminum Knob with Aluminum Lock Knob |
| C | 1/4" Hex Allen Head with Cover Cap |
| D | 1-1/2" Diameter Aluminum Knob with Lock Nut |
| E | 1-1/2" Diameter Aluminum Knob Only |

*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 |
| 2B | Aluminum BSPP 1/4" (2) |
| 3B | Aluminum BSPP 3/8" (3) |
| 4B | Aluminum BSPP 1/2" (4) |
| 4BD | Ductile Iron BSPP 1/2" (4) |

*J Seal*

| CODE | DESCRIPTION |
|---|---|
| N | Buna-N |
| V | Fluorocarbon |
| P | Polyurethane |
| U | PPDI Urethane |

Flow control valve