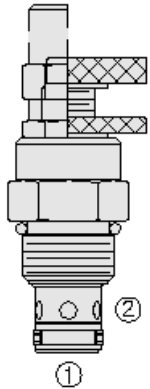
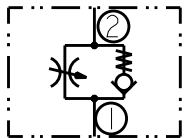


Flow control valve

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]

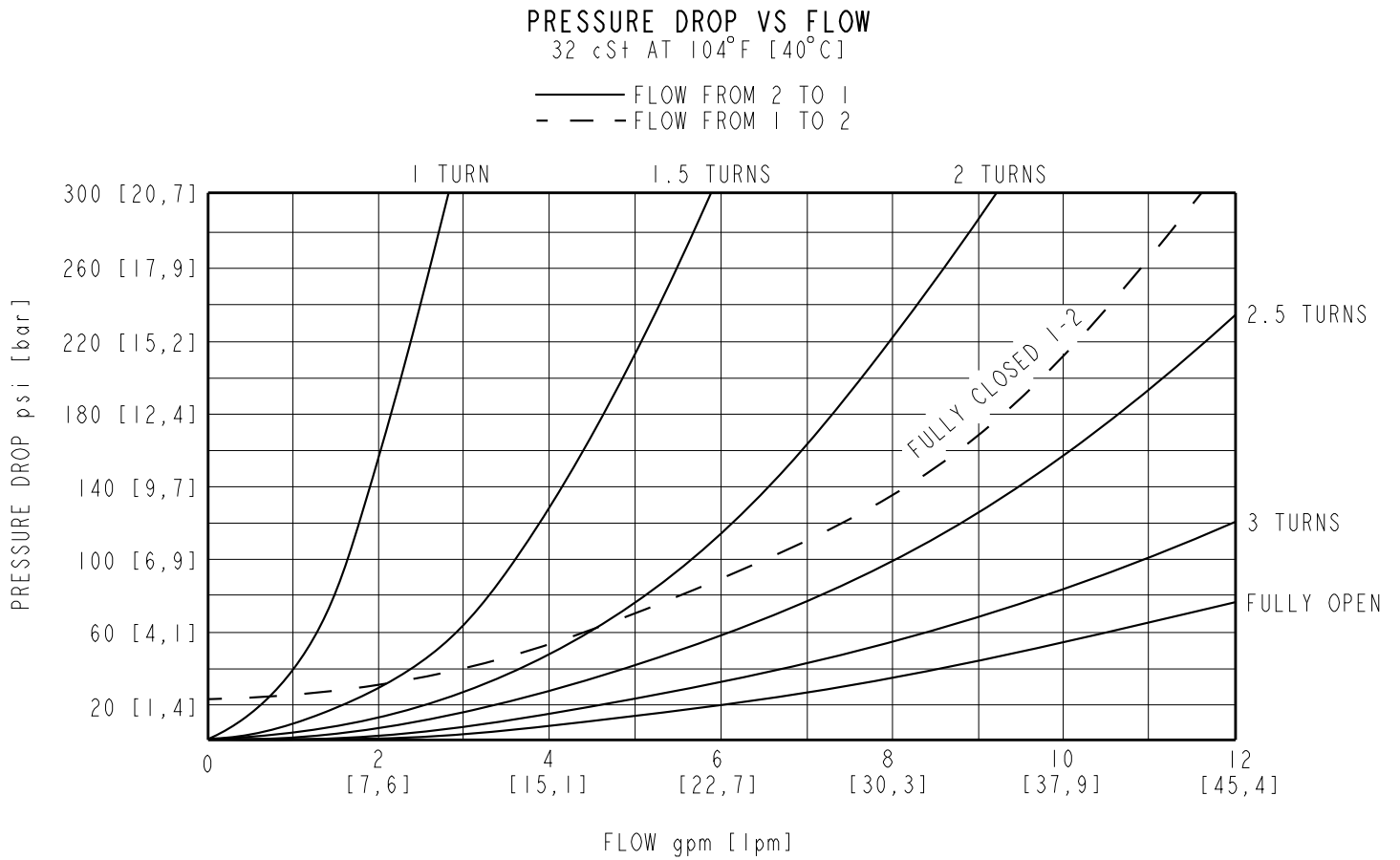
Corrosion protection: 960 hr salt spray per ASTM B117 note: Model number - GFC10-20

Unit weight: 0.33 lb [0.15 kg] (option a) 2 2

Flow control valve

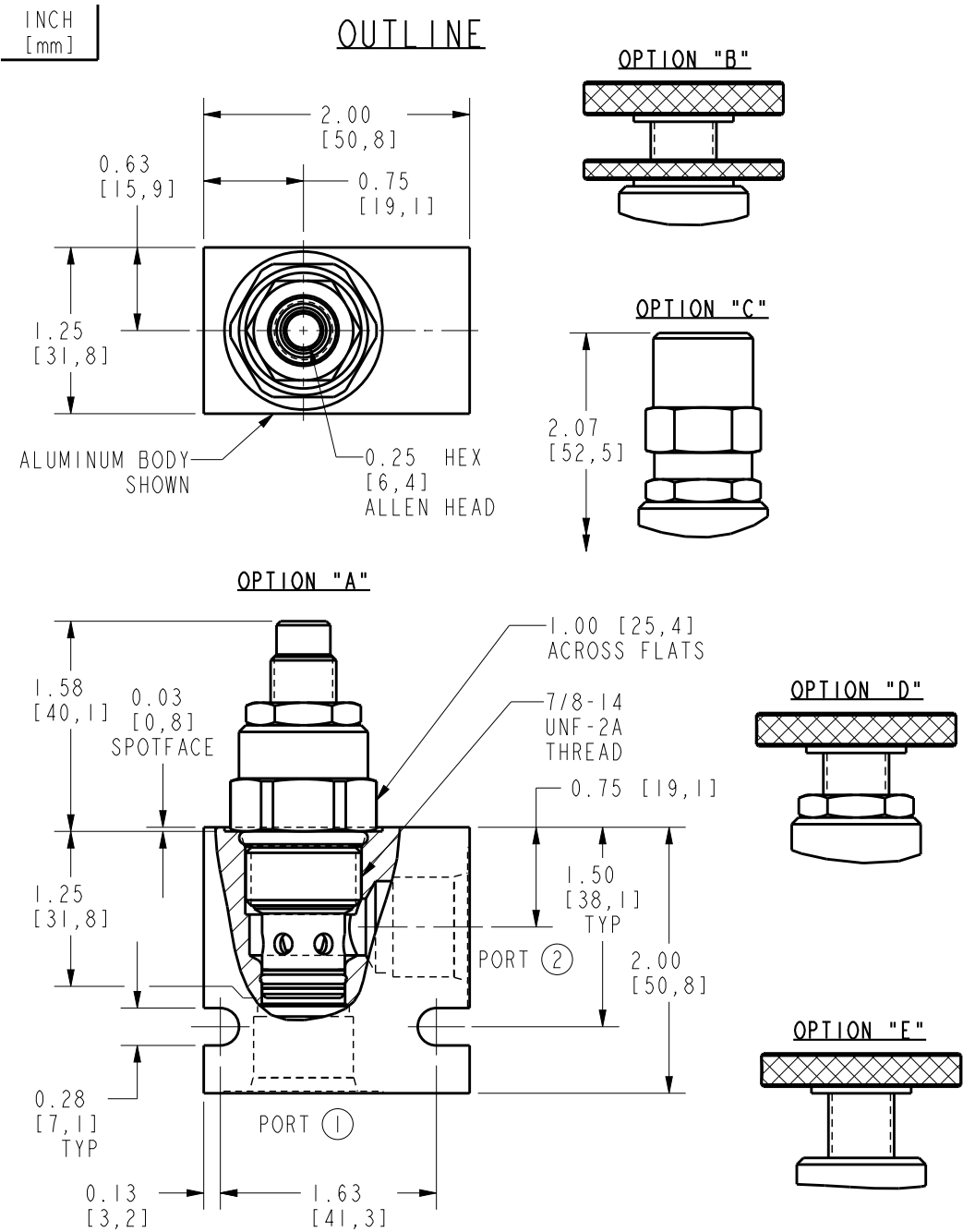
Internal wetted surface area: 14.9 in [96 cm]

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 (sheets)

Accessories

Order Code

PLATING ——— X
 STANDARD PLATING - BLANK
 PLATING FOR 960 hr
 SALT SPRAY - G

 BASE MODEL ——— X
 NUMBER

ADJUSTMENT OPTION(S) ——— X
 1/4 HEX ALLEN HEAD - A
 Ø 1-1/2 ALUMINUM KNOB - B
 OPTION A WITH COVER CAP - C
 TOP KNOB WITH LOCK NUT - D
 TOP KNOB ONLY - E

PORTING ——— X
 CARTRIDGE ONLY - 0

SEAL OPTIONS ——— X
 BUNA N - N
 FLUOROCARBON - V
 POLYURETHANE - P

FC10-20F-H-J

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

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)

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

Flow control valve