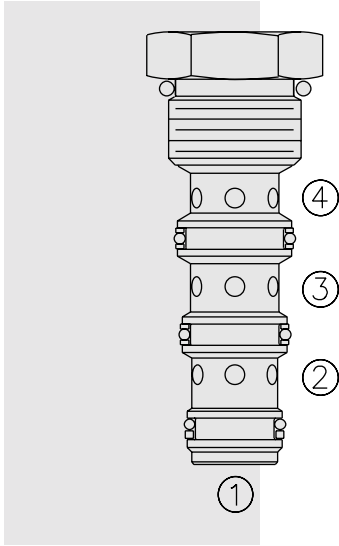


FD10-40 Flow Divider/Combiner



DESCRIPTION

A screw-in, cartridge-style, spool-type flow divider/combiner. Optional flow dividing/combining ratios are maintained regardless of system operating pressure conditions.

OPERATION

In the dividing mode, the **FD10-40** will divert input flow from port ③ to ports ② and ④, based on the ratio specified, regardless of operating pressure.

The cartridge will combine input flows from ports ② and ④.

Should circuit operation result in a blockage of either ② or ④, the opposite port may also close under certain conditions. Should this potential exist, consult the factory.

FEATURES

- Hardened parts for long life.
- Quiet, modulated response.
- Industry common cavity.

RATINGS

Operating Pressure: 240 bar (3500 psi)

Flow: 45.4 lpm (12 gpm) input max.

Flow Options:

Input Flow: 7.6 lpm (2 gpm); Ratio: 50:50; Model Code: 11

Input Flow: 15.1 lpm (4 gpm); Ratio: 50:50; Model Code: 22

Input Flow: 22.7 lpm (6 gpm); Ratio: 50:50; Model Code: 33

Input Flow: 30.3 lpm (8 gpm); Ratio: 50:50; Model Code: 44

Input Flow: 37.9 lpm (10 gpm); Ratio: 50:50; Model Code: 55

Input Flow: 45.4 lpm (12 gpm); Ratio: 50:50; Model Code: 66

Other ratio options available; consult factory.

Standard Compensator Bias Spring: 2.07 bar (30 psid)

Flow Accuracy: 10% from 30–100% of rated flow

Temperature: -40 to 120°C

Filtration: See page 9.010.1

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 ssu)

Installation: No restrictions; See page 9.020.1. Note: Standard 10 size 4-way bodies should not be used with this product. See page 8.010.1 for special flow divider bodies.

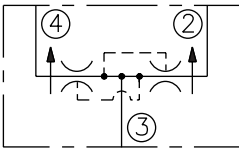
Cavity: VC10-4; See page 9.110.1 (Cavity Variation "A")

Cavity Tool: CT10-4XX; See page 8.600.1

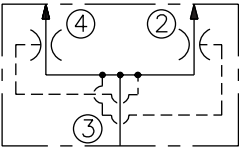
Seal Kit: SK10-4X-MMT; See page 8.650.1

SYMBOLS

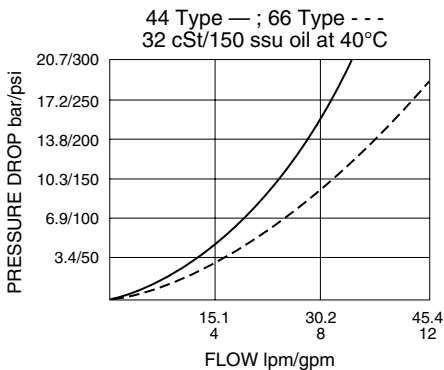
USASI:



ISO:



PERFORMANCE (Cartridge Only)



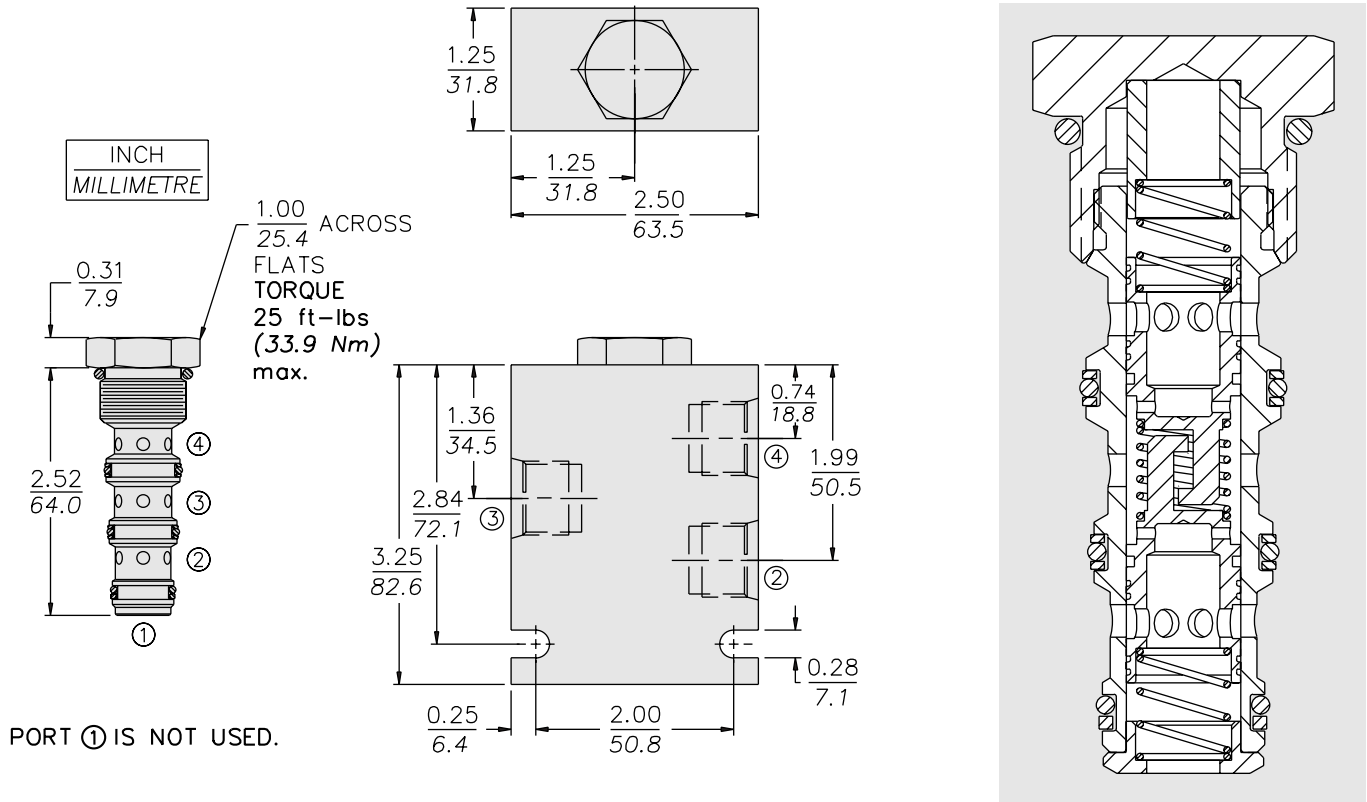
Note: This model will be superseded by the new FDxx-45 models, which incorporate the features of the FDxx-40, FDxx-41 and FDxx-42 series valves in one product. OEM's are encouraged to consider the newer, more robust and versatile FDxx-45 models for new applications:

FD10-45; see page 5.632.1

FD12-45; see page 5.634.1

FD16-45; see page 5.636.1

DIMENSIONS



MATERIALS

Cartridge: Weight: 0.10 kg. (0.23 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-ups standard.

Special Ported Body: Weight: 0.34 kg. (0.75 lbs.); Anodized high-strength 6061 T6 aluminum alloy, rated to 240 bar (3500 psi); see page 8.010.1. Ductile iron and steel bodies available; dimensions may differ; consult factory.

TO ORDER

FD10-40 -

Special Ported Bodies

Cartridge Only	0
SAE 6 (All Ports)	6T
SAE 8 ③;	
SAE 6 ② & ④	8D
1/4 in. BSP* (All Ports)	2B
3/8 in. BSP* (All Ports)	3B
1/2 in. BSP* ③;	
3/8 in. BSP* ② & ④	5B

*BSP Body;
U.K. Mfr. Only

Note: Standard 10-size 4-way bodies should not be used for flow dividers. See special flow divider bodies, page 8.010.1.

Dividing/Combining Ratio

11	50:50 rated @ 7.6 lpm (2 gpm) input
22	50:50 rated @ 15.1 lpm (4 gpm) input
33	50:50 rated @ 22.7 lpm (6 gpm) input
44	50:50 rated @ 30.3 lpm (8 gpm) input
55	50:50 rated @ 37.9 lpm (10 gpm) input
66	50:50 rated @ 45.4 lpm (12 gpm) input

Seals

- N** Buna N (Std.)
- V** Fluorocarbon

Note: Additional ratios and/or input flow sizings available for OEM applications. Consult factory.