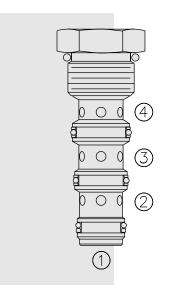
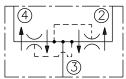
FD10-45 Flow Divider/Combiner, Heavy Duty,

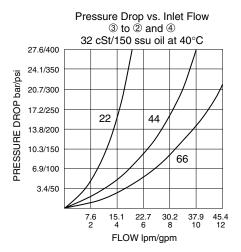


SYMBOLS

USASI/ISO:



PERFORMANCE (Cartridge Only)



DESCRIPTION

A heavy duty, multifunction, screw-in, cartridge-style, spool-type flow divider/combiner.

OPERATION

In the dividing mode, the **FD10-45** will divert input flow from port ③ to ports ② and ④, based on the ratio specified, regardless of operating pressure. When the flow direction is reversed the valve will combine flows from ② and ④ to port ③. The FD10-45 provides synchronizing flow in both the dividing and combining modes at "bottomed" conditions in cylinder applications and at "stalled" conditions in motor applications.

FEATURES

- Hardened parts for long life.
- Quiet, modulated response.
- Wide operating flow range.
- · Synchronizing in dividing and combining modes.
- Industry common cavity.

RATINGS

Operating Pressure: 240 bar (3500 psi)

Flow Options:

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: 34.1 lpm (9 gpm); Ratio: 50:50; Model Code: 44 Input Flow: 45.4 lpm (12 gpm); Ratio: 50:50; Model Code: 66

mpar now. 40.4 fpm (12 gpm), nano. 50.50, model obde. C

Flow Accuracy: 10% from 25–100% of maximum 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 (Variation "A"); See page 9.110.1

Cavity Tool: CT10-4X; See page 8.600.1

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

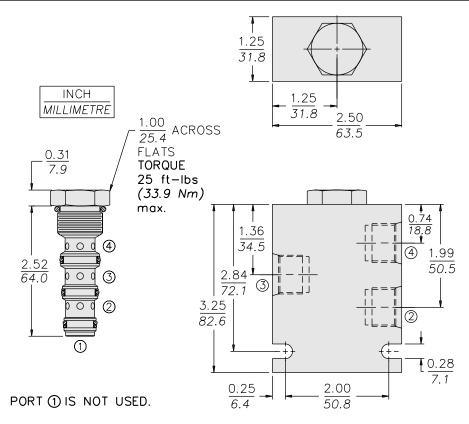
Note: This new FDxx-45 flow divider incorporates the features of the older FDxx-40, FDxx-41 and FDxx-42 flow dividers in one product. It is designed to supersede the older models. OEM's are encouraged to consider this newer, more robust and versatile model for new applications.



Multifunction

FD10-45

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; consult factory.

TO ORDER FD10-45 -**Special Ported Bodies Dividing/Combining Ratio** 50:50 rated @ 15.1 lpm Cartridge Only 0 22 (4 gpm) input SAE 6 (All Ports) **6T** 50:50 rated @ 22.7 lpm 33 SAE 8 3; (6 gpm) input SAE 6 2 & 4 8D 50:50 rated @ 34.1 lpm 44 1/4 in. BSP* (All Ports) 2B (9 gpm) input 3/8 in. BSP* (All Ports) 3B 50:50 rated @ 45.4 lpm 66 (12 gpm) input 1/2 in. BSP* 3; 3/8 in. BSP* 2 & 4 5B NOTE: Additional ratios and/or input *BSP Body; U.K. Mfr. Only flow sizings available for OEM applications. Consult factory. NOTE: Standard 10-size 4-way bodies Seals should not be used for flow dividers. See N Buna N (Std.) special flow divider bodies, page 8.010.1. V Fluorocarbon