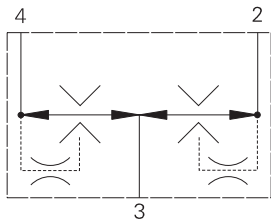


FDC3-16 - Flow divider/combiner

Pressure compensated, spool type, posi-traction
Up to 152 L/min (40 USgpm) • 210 bar (3000 psi)



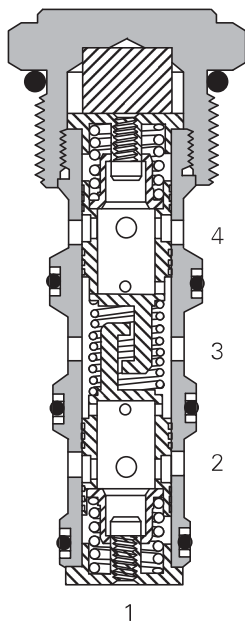
Operation

This valve is used in the dividing mode. It will take the inlet flow (port 3) and split the flow to ports 2 and 4. In the combining mode this valve will take the inlet flows from ports 2 and 4 and combine them into port 3 according to the ratio specified.

Features

Hardened and ground and honed working components.
Cartridge construction for maximum mounting flexibility.

Sectional view



Performance data

Ratings and specifications

Performance data is typical with fluid at 21,8 cSt (105 SUS) and 49°C (120°F)

Typical application pressure (all ports)	210 bar (3000 psi)
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)
Rated inlet flow	See model code, item
Temperature range	-40° to 120° C (-40° to 248° F)
Fluids	All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20, etc.
Filtration	Cleanliness code 18/ 16/13
Standard housing materials	Aluminum
Weight cartridge only	0,35 kg. (0.78 lbs)
Seal kits	889634 (Nitrile) 889638 (Viton®)

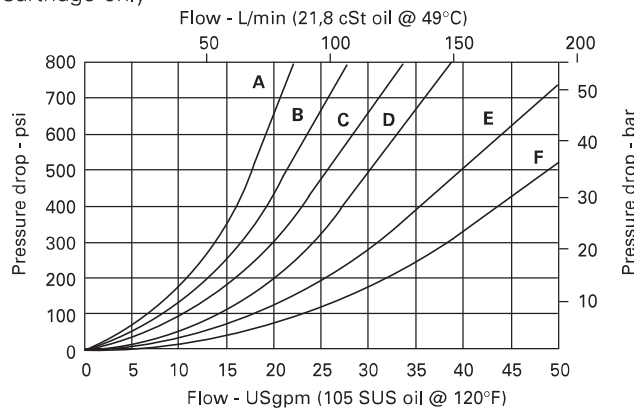
Viton is a registered trademark of E.I. DuPont

Description

This is a pressure compensated flow divider / combiner posi-traction screw in cartridge valve. This is ideal for use in transmission systems where the turning circle requires one wheel to go faster than the other or where rapid make up is required between cylinders at the end of stroke.

Pressure drop

Cartridge only



Flow division

(See model code position 5)

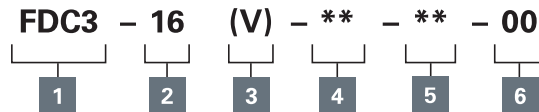
- | | |
|---------------------|---------------------|
| A - 22 spool | D - 55 spool |
| B - 33 spool | E - 66 spool |
| C - 44 spool | F - 88 spool |

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

FDC3-16 - Flow divider/combiner

Pressure compensated, spool type, posi-traction
Up to 152 L/min (40 USgpm) • 210 bar (3000 psi)

Model code



1 Function

FDC3 - Posi-traction valve

2 Size

16 - 16 size

4 Port size

Code	Port size	Housing number
		Aluminium
0	Cartridge only	
12T	SAE 12	566200
6B	3/4" BSPP	02-175468

See section J for housing details.

3 Seals

Blank - Buna-N
V - Viton®

5 Flow divisions

Code	Flow division %		Max L/min	Inlet flow (USgpm)
	Port 4	Port 2		
22	50	50	57,0	(15)
33	50	50	76,0	(20)
44	50	50	106,4	(28)
55	50	50	126,2	(34)
66	50	50	152,0	(40)
88	50	50	228,0	(60)

6 Special features

00 - None

(Only required if valve has special features, omitted if "00".)

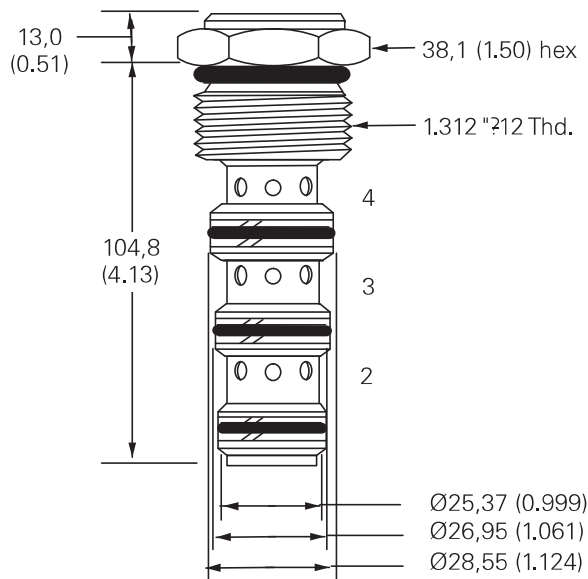
Dimensions

mm (inch)

Torque cartridge in aluminum
housing to 108–122 Nm
(80–90 ft lbs)

Cartridge only

Basic code
FDC3-16



Notes: Port 1, unused,
blocked by blind cavity.

Minimum inlet flow should not be
less than 1/4 of maximum inlet
flow for a given code.

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.