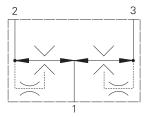
Pressure compensated, spool type, posi-traction Up to 570 L/min (150 USgpm) • 210 bar (3000 psi)



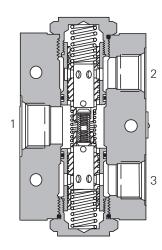
Operation

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

One valve synchronizes in both directions. Matched spools give high accuracy under load and pressure imbalance conditions.

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®)		

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Description

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This is a pressure compensated flow divider / combiner posi-traction 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

Inlet flow rate, port 1, - L/min (21,8 cSt oil @ 49°C) 0 100 200 300 400 500 600 30 400 C D Α 25 350 В 300 20 250 200 15 150 10 100 50 5 0 0 20 60 80 100 120 Inlet flow rate, port 1, - USgpm (105 SUS oil @ 120°F)

Flow division

(See model code position 5)

C - 66 spool

A - 33 spool **B** - 44 spool

D - 88 spool

Model code

FDC3 - 20 (V) - *** - ** - 00

1 Function

FDC3 - Posi-traction valve

2 Size

20 - 20 size

3 Seal material

Blank - Buna-N **V** - Viton®

4 Port size

16T – SAE 16 (light duty) **20T** – SAE 20 (light duty) (Available as a complete assembly only.)

5 Flow divisions (Ratios)

Code	Flow division %		Rated	Inlet flow
	Port 4	Port 2	L/min	(USgpm)
33	50	50	190,0	(50)
44	50	50	266,0	(70)
66	50	50	380,0	(100)
88	50	50	570,0	(150)

6 Special features

00 - None (Only required if valve has special features, omitted if "00".)

Dimensions

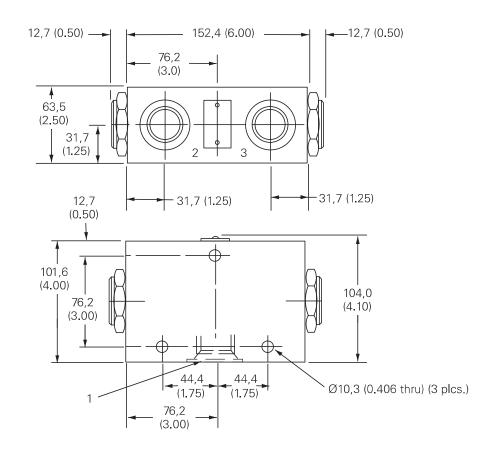
mm (inch)

Complete valve

Basic code FDC3-20

Torque cartridge in housing to 128–155 Nm (95–115 ft lbs)

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



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