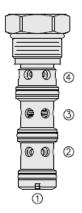
Overview



Description

The FD56-45 is a screw-in cartridge, spool type flow divider/combiner valve.

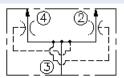
Operation

The cartridge valve provides pressure compensated proportional division of inlet flow or combining of two return flows regardless of system operating pressure conditions. The valve provides synchronizing flow in dividing and combining modes.

Features

- · Hardened parts for long life.
- · Quiet, modulated response.
- · Wide operating flow range.
- · Synchronizing in dividing and combining modes.
- Floating cage â€" high installation torque.
- Industry common cavity.

Symbol



Ratings

Pressure Ratings

Pressure rating 345 bar (5000 psi)

420 bar (6090 psi) - **Note**: 10% duty cycle
Pressure drop 24 bar (300 psi) - **Note**: At maximum inlet flow

Flow Ratings

Inlet flow rating 25 to 98 lpm (6.5 to 26.0 gpm) - **Note:** Model code 44 32 to 128 lpm (8.5 to 34.0 gpm) - **Note:** Model code 66

57 to 167 lpm (15.0 to 44.0 gpm)
68 to 197 lpm (18.0 to 52.0 gpm)

- Note: Model code 88
- Note: Model code 99

Synchronizing flow Approximately 10% of maximum inlet flow

Flow accuracy 10 % - **Note**: Of inlet flow for -22, -33, -44, -55 and -66 models

15 % - Note: Of inlet flow for -88 and -99 models

Temperature Ratings

Operating fluid temperature -40 to 100 °C (-40 to 212 °F) - Note: With buna N seals

-26 to 204 °C (-15 to 400 °F) -54 to 107 °C (-65 to 225 °F) -54 to 107 °C (-65 to 225 °F) -Note: With polyurethane seals -Note: With urethane seals

Storage temperature -54 to 107 °C (-65 to 225 °F) - **Note**: With urethan -40 to 70 °C (-40 to 160 °F)

Ambient temperature -40 to 90 °C (-40 to 194 °F)

Operating Parameters

Fluids Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt

Maximum operating contamination 18/16/13 per ISO 4406

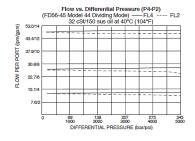
level

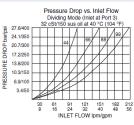
Properties

Unit weight 0.38 kg (0.83 lb)
Internal wetted surface area 403 cm² (62.4 in²)

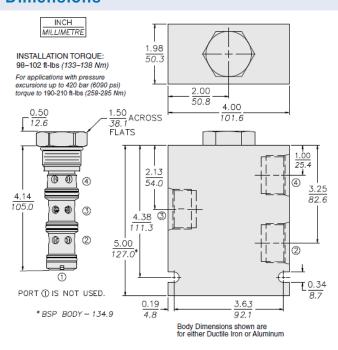
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Performance





Dimensions



Installation Specifications

VC16-4 Cavity

HVC16-4 for applications with pressure excursions up to 420 bar (6090 psi)

Cartridge installation torque 133 to 138 N-m (98 to 102 ft-lb)

258 to 285 N-m (190 to 210 ft-lb) excursions up to 6090 psi [420 bar] - Note: For applications with pressure

None Orientation restriction

Accessories

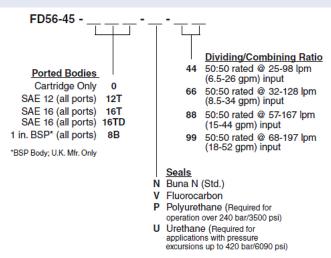
SK16-4X-MMM - Note: X = seal option; buna n, fluorocarbon, Seal kit polyurethane

SK16-4U-000 - Note: Urethane

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Order Code



Model Options

FD56-45-H-J-N

H Line Body

CODE	DESCRIPTION
0	No Body
16T	Aluminum SAE 16
12TD	Ductile Iron SAE 12
16TD	Ductile Iron SAE 16

J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
Р	Polyurethane

N Flow Dividing/Combining

CODE	DESCRIPTION
11	Not listed in outline
22	Not listed in outline
33	Not listed in outline
44	50/50 Rated at 25.0-98.0 lpm (6.5-26.0 gpm)
55	Not listed in outline
66	50/50 Rated at 32.0-34.0 lpm (8.5-34.0 gpm)
77	Not listed in outline
88	50/50 Rated at 57.0-167.0 lpm (15.0-44.0 gpm)
99	50/50 Rated at 68.0-197.0 lpm (18.0-52.0 gpm)

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