

5.6

50F10-45 TYPE Flow Divider/Combiner

Rated pressure (bar / psi) 345 / 500 Peak flow (L/min / gpm) 45.4 / 12

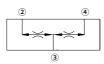
Features

- · Hardened parts for long life
- · Quiet, modulated response
- · Synchronizing in dividing and combining modes
- ·Floating cage High installation torque
- ·Industry common cavity

Contents

Description	02
Operation	02
Ordering code	02
Materials	02
Technical data	03
Performance	03
Dimensions	04

Symbol

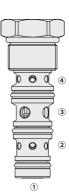


Description

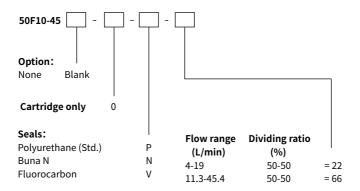
A heavy duty, multifunction, screw-in, cartridge-style, spool-type flow divider/combiner.

Operation

In the dividing mode, the valve will divert input flow from 3 to 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. Synchronizing flow is provided in both the dividing and combining modes at bottomed conditions in cylinder applications and at stalled conditions in motor applications.



Ordering Code



Materials

Cartridge:

Weight: 0.11 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces; Polyurethane (Std.) seal.

Standard Ported Body:

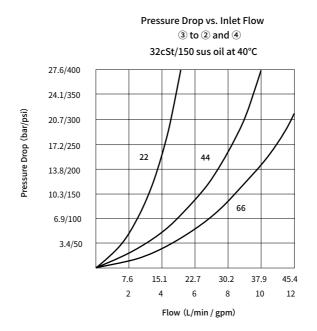
Anodized high-strength aluminum alloy, rated to 240 bar; Ductile iron and steel bodies available; Dimensions may differ, consult factory.

03/04

Technical Data

Rated pressure	345 bar (5000 psi)
Peak flow	45.4 L/min (12 gpm)
Dividing ratio	50%-50%
Flow accuracy	10% from 25–100% of maximum rated flow
Torque	55-65 Nm
Cavity	VC10-4 (See technical reference)
Fluid	Mineral-based or synthetics with lubricating properties
Viscosity range	7.4 to 420 mm ² /s
Temperature range	-54 to 107 °C (Polyurethane seals)
	-40 to 100 °C (Buna N seals)
	-26 to 204 °C (Fluorocarbon seals)
Degree of fluid contamination	The minimum pollution level is ISO4406 level 18/16/13, and level
	15/13/11 is recommended to prolong the service life

Performance (Cartridge Only)



Dimensions

(Dimensions in mm)

