

5.7

50F12-45 TYPE Flow Divider/Combiner

Maximum pressure (bar / psi) 350 / 5000 Peak flow (L/min / gpm) 120 / 31

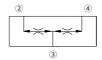
Features

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

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Symbol

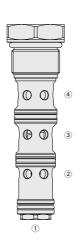


Description

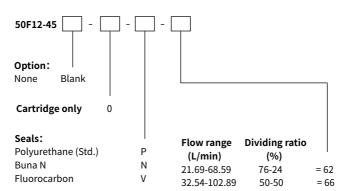
A heavy duty, multifunction, screw-in, cartridge-style, spool-type flow divider/combiner.

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

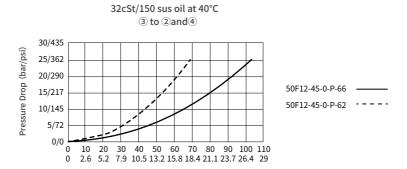
Standard Ported Body:

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

Technical Data

Maximum pressure	350 bar (5075 psi)
Peak flow	120 L/min (31 gpm)
Dividing ratio	See ordering code
Torque	81~95 Nm
Cavity	VC12-4 (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)

