



5.7

50F16-45 TYPE

Flow Divider/Combiner

Maximum pressure (bar / psi)	350 / 5000
Peak flow (L/min / gpm)	165 / 43

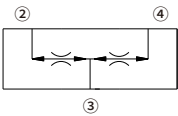
Features

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

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Symbol

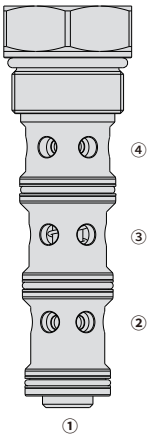


Description

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

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Option:	None	Blank						
Cartridge only			0					
Seals:	Polyurethane (Std.)			P	Flow range (L/min)	Dividing ratio (%)		
	Buna N			N	43.03-149.05	50-50		
	Fluorocarbon			V				
								= 66

Materials

Cartridge:

Weight: 0.40 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces; Polyurethane (Std.) seal.

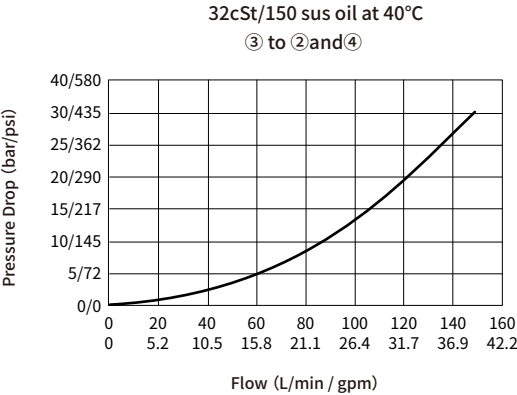
Standard Ported Body:

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 (5000 psi)
Peak flow	165 L/min (43 gpm)
Dividing ratio	See ordering code
Torque	108~122 Nm
Cavity	VC16-4
Fluid	Mineral-based or synthetics with lubricating properties
Temperature range	-54 to 107 °C (Polyurethane seals)
	-40 to 100 °C (Buna N seals)
	-26 to 204 °C (Fluorocarbon seals)
Viscosity range	7.4 to 420 mm ² /s
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)

