

# HYFD10-40 (Flow Divider Combiner)

## Description

A cartridge-style pressure-compensated flow divider/combiner valve.

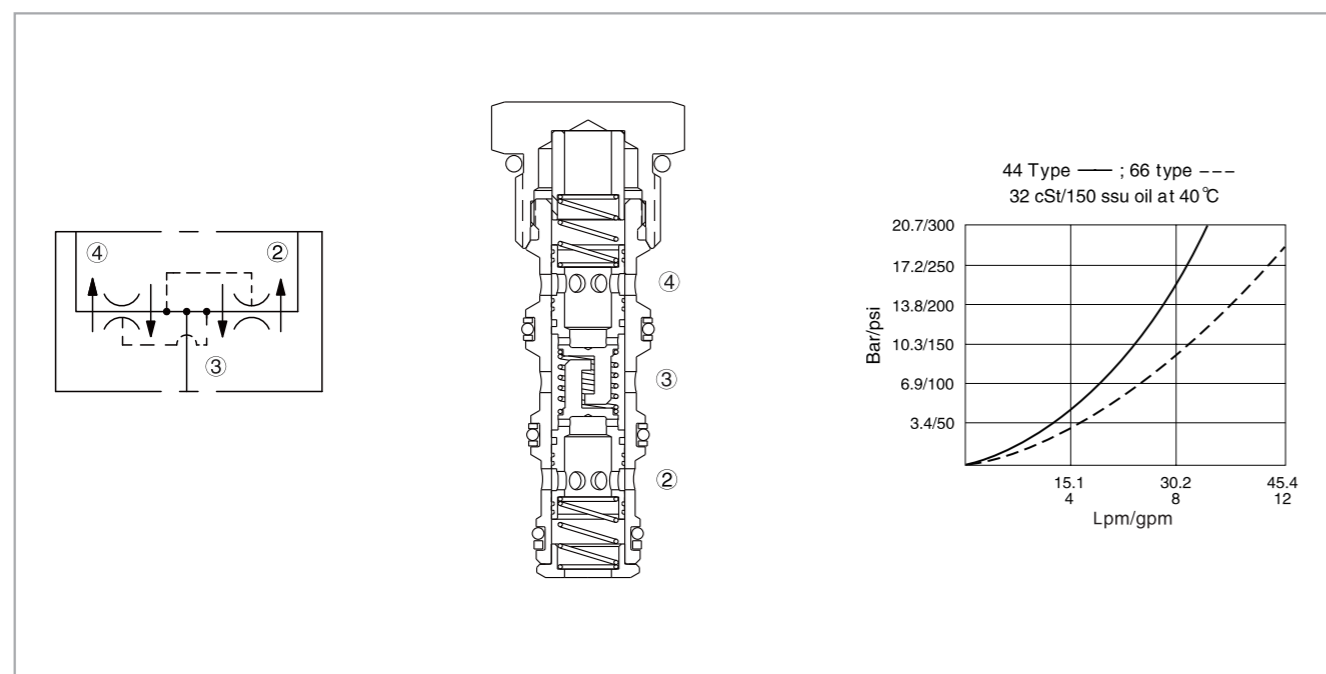
## Operation

In the dividing mode, the valve will divert input flow from port ③ to port ② and ④, based on the ratio specified, regardless of operating pressure. The valve will combine input flow from ② and ④.

## Specifications

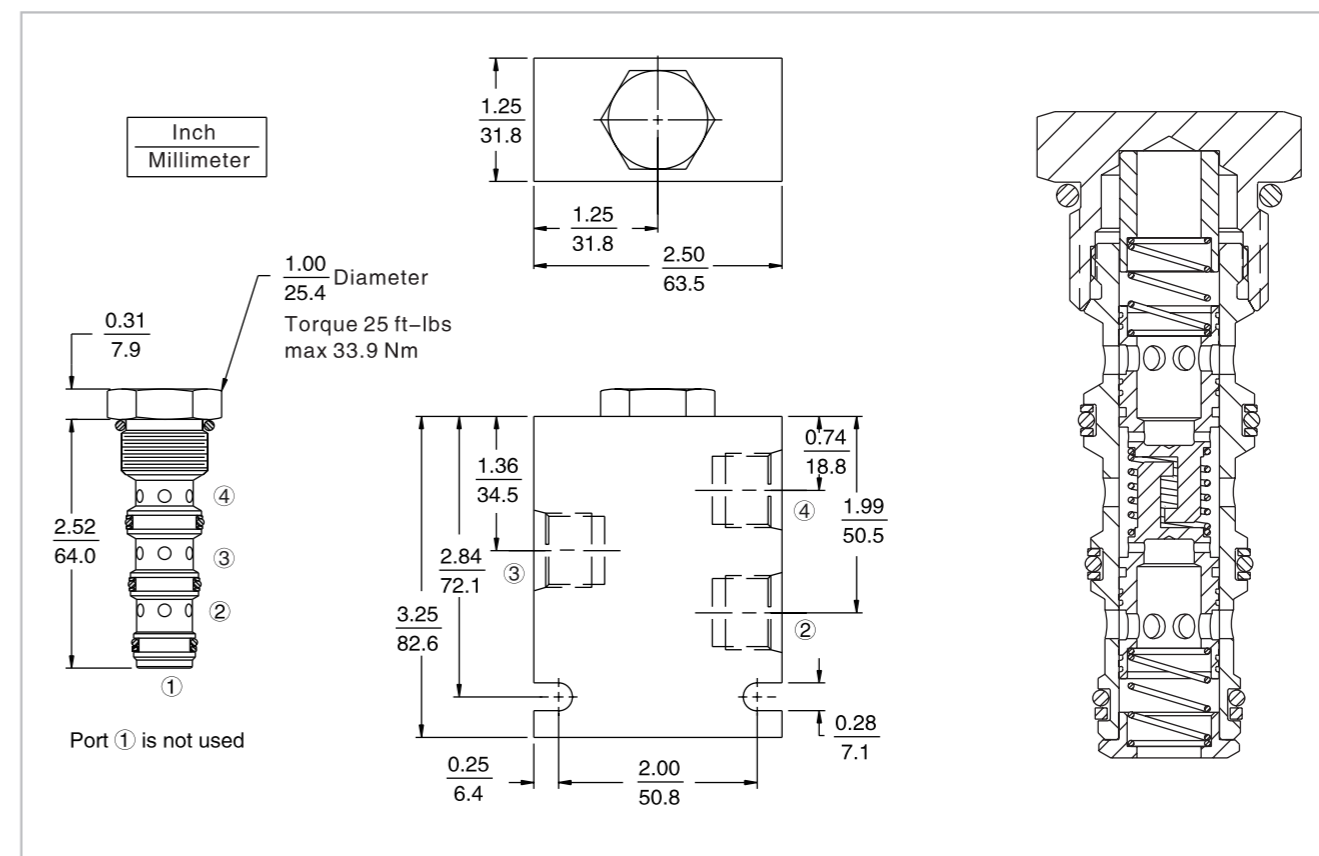
Operating pressure:	240 Bar
Flow options:	Input flow: 7.6 lpm; ratio:50:50; model: HYFD10-40-11
	Input flow: 15.1 lpm; ratio:50:50; model: HYFD10-40-22
	Input flow: 22.7 lpm; ratio:50:50; model: HYFD10-40-33
	Input flow: 30.3 lpm; ratio:50:50; model: HYFD10-40-44
	Input flow: 37.9 lpm; ratio:50:50; model: HYFD10-40-55
	Input flow: 45.4 lpm; ratio:50:50; model: HYFD10-40-66
Flow maintenance accuracy:	10% from 30 -100% of max. rated flow
Temperature:	-40°C To +120°C with NBR material seals
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	HY10-4, see page H.1.4
Body material:	6061-T6 Aluminum alloy rated to 207 bar, steel & ductile iron rated to 350 bar

## Code symbol , profile and pressure drop vs.flow



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## External dimensions



## Material science and order model

Cartridge: weight: 0.10 kg (0.23 lb); Steel, the working face is duratected Surcace zine-plated; NBR material sealing and check ring (standard); Aluminum knob with anodicoxidation.

Block: weight :0.34 kg (0.75 lb); High-strength performance aluminum alloy with anodic oxidation; #6061 T6; Rated pressure up to 240 bar (3500 psi); See 8.010.1; Also available with ductile cast iron and steel material; Size might be different, please consult factory.

HYFD10-40		Special oil inlet valve block		Diversion/concentration ratio	
Cartridge only	0	SAE 6 (all oil parts)	6T	11	50:50 ( 7.6 lpm ) (2 gpm) input
SAE 8 ③		SAE 6 ② and ④	8D	22	50:50 ( 15.1 lpm ) (4 gpm) input
1/4 Inch BSP* (all oil parts)	2B	3/8 Inch BSP* (all oil parts)	3B	33	50:50 ( 22.7 lpm ) ((6 gpm) input
1/2 Inch BSP* ③		3/8 in. BSP* ② and ④	5B	44	50:50 ( 30.3 lpm ) (8 gpm) input
BSP body: U.K. Mfr. only				55	50:50 ( 37.9 lpm ) (10 gpm) input
				66	50:50 ( 45.4 lpm ) (12 gpm) input

Note: standard #10 4-way block can't be used for flow-divided purpose. Please refer to Page 8.010.1 for specific flow information.

Seals  
N Buna N ( std. )  
V Fluorocarbon

Note: other proportion rates or flow inputs available for OEM, please consult with us.