

# HYDC08-40 (Dual Pilot Operated Check Valve)

## Description

A cartridge-style dual pilot-operated check valve.

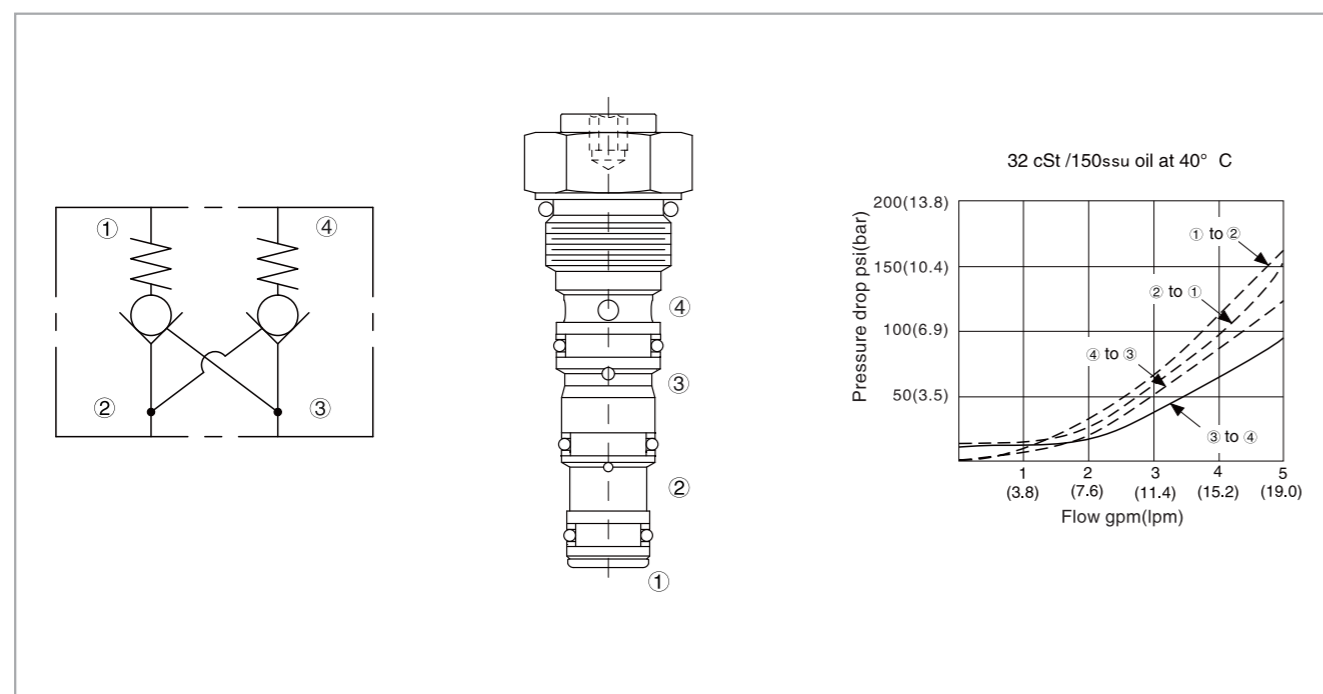
## Operation

The valve will block flow from ① to ②, and from ④ to ③. Flow is allowed in the opposite direction when pressure is applied to port ② and/or ③. The valve has a 2.5:1 pilot ratio, so at least 40 percent of the load pressure at port ① or ④ is required at the pilot lines (port ③ or ②) to open the flow passage to allow flow from port ① or ④.

## Specifications

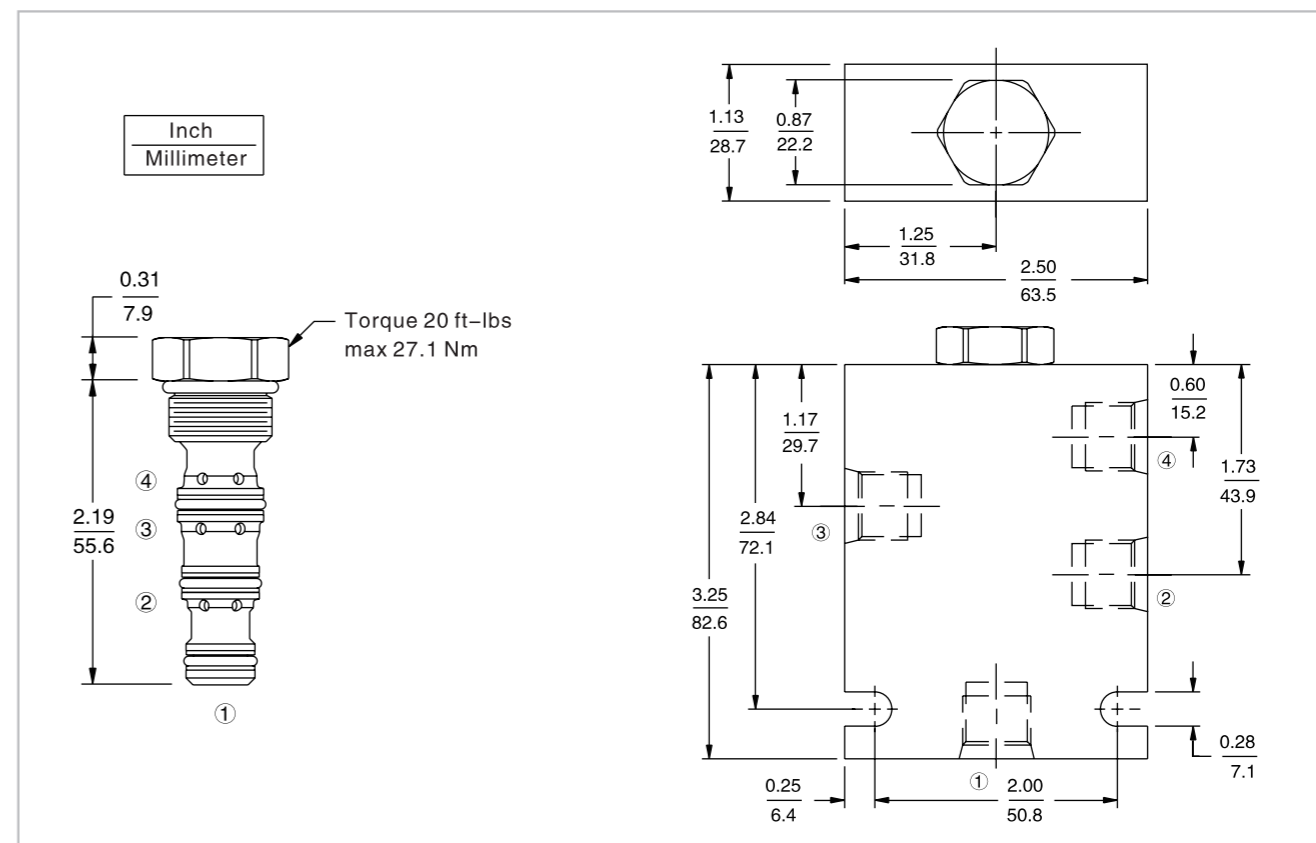
Max. operating pressure:	240 Bar
Flow:	See pressure drop vs. flow graph
Internal leakage:	5 Drops/min. at 210 bar
Crack pressure:	1.7 Bar
	9.3 Bar
Pilot ratio:	2.5:1
Temperature:	(-40°C To +120°C) with NBR material seals
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	HY08-4, see page H.1.3
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: 0.13 kg (0.28 lb);  
Steel, the working face is duratected  
Surface zinc-plated;  
NBR material sealing and check ring (standard).  
Block: weight: 0.18 kg (0.40 lb);  
High-strength performance aluminum alloy with anodic oxidation;  
#6061 T6;  
Rated pressure up to 240 bar (3500 psi);  
Also available with ductile cast iron and steel material;  
Size might be different, please consult factory.

HYDC08-40		Bias spring	
Porting		25	1.7 Bar (25 psi) standard
Cartridge only	0	135	9.3 Bar (135 psi) available
SAE 6	6T		
1/4 Inch BSP*	2B		
3/8 Inch BSP*	3B		
		Seals	
		N	Buna (Std.)
		V	Fluorocarbon