

# HYDC10-40 (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.

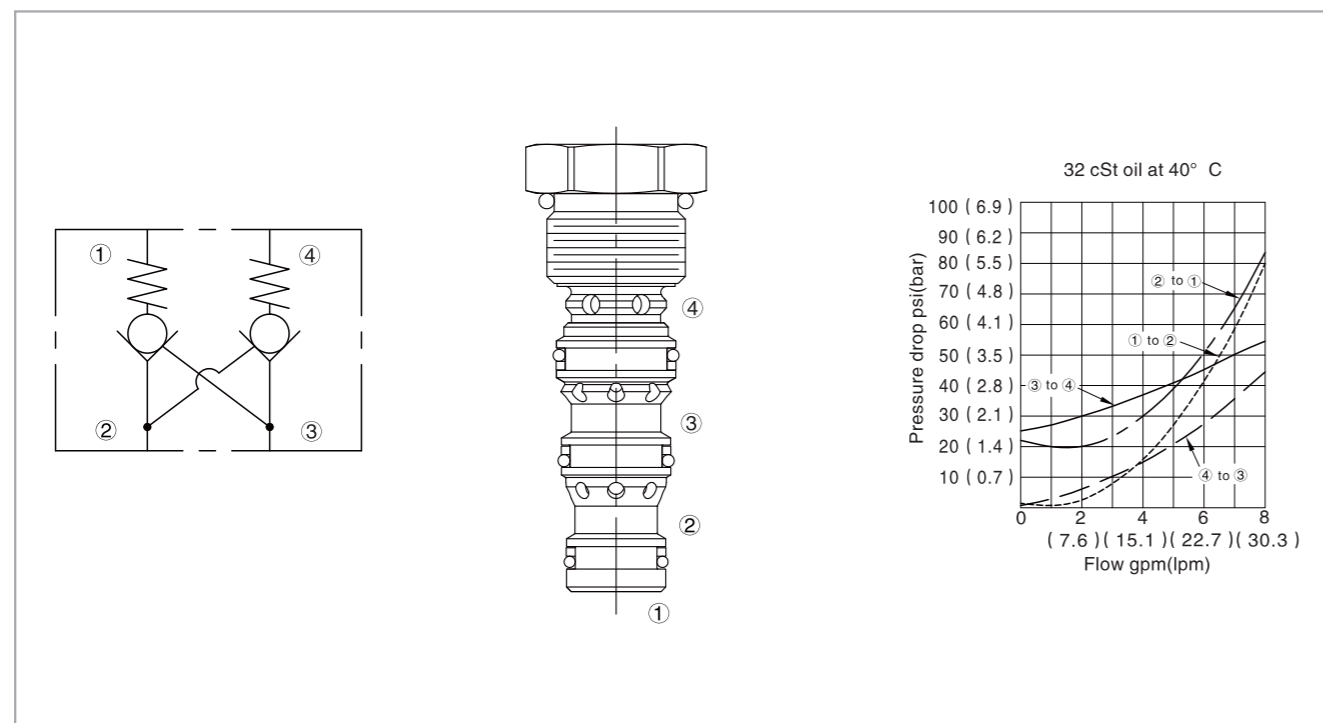
Flow is allowed in the opposite direction when pressure is applied to port ② and/or ③.

The valve has a 3:1 pilot ratio, so at least 1/3 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

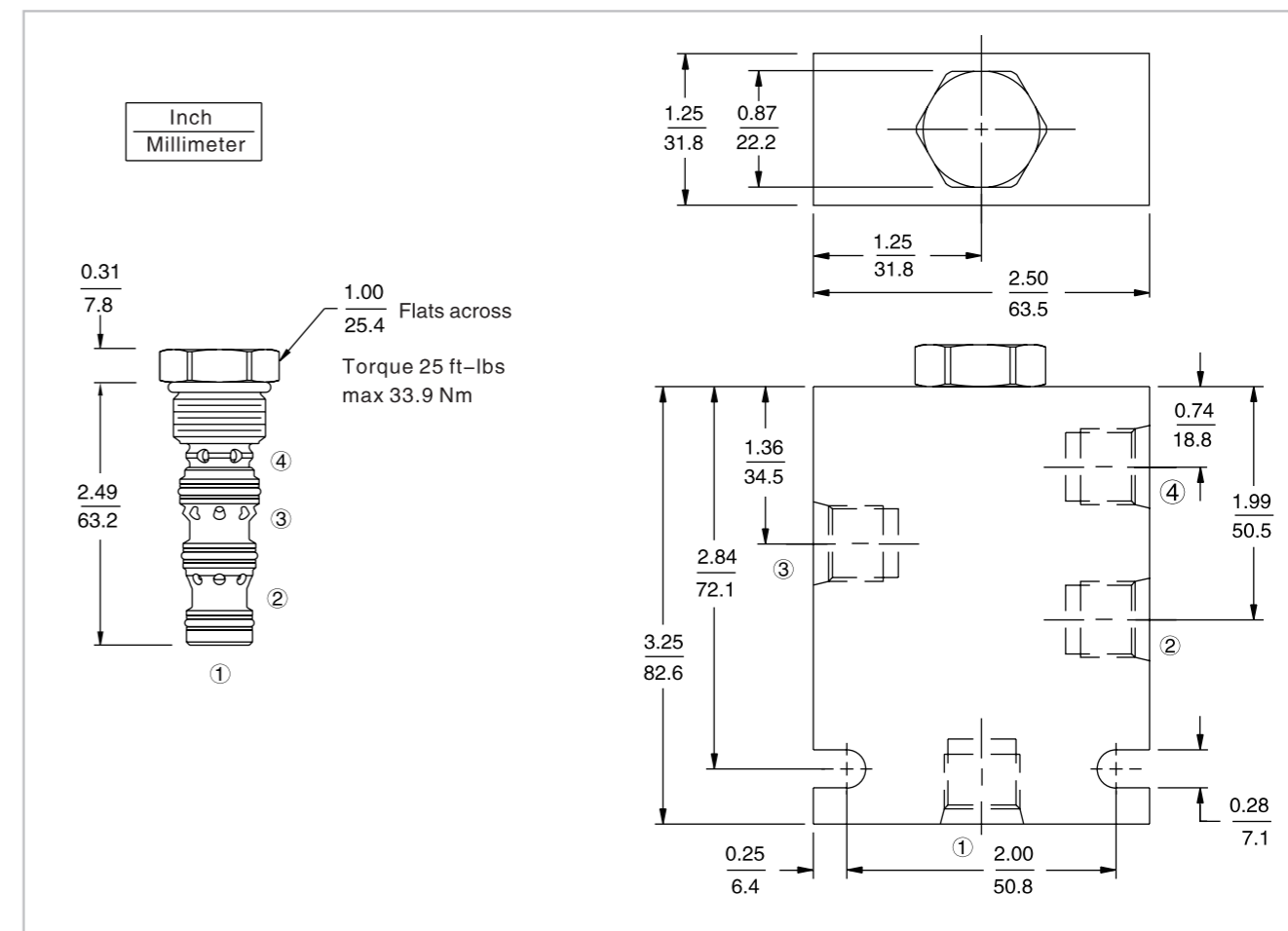
Max. operating pressure:	240 Bar
Flow:	See pressure drop vs. flow graph
Internal leakage:	5 Drops/min. at 210 bar
Crack pressure:	1.7 Bar
Pilot ratio:	3:1
Temperature:	(-40°C To +120°C) with NBR material seals
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	HY10-4, see page H.1.4
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: 0.13 kg (0.28 lb); Steel, the working face is duratected Surface zinc-plated; NBR material sealing and check ring (standard).

Block: weight: 0.34 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.

Order Model: HYDC10-40 - - - - -

- Option: None (Blank)
- Thermal relief: T
- Bias spring: 25 1.7 Bar (25 psi) standard
- Seals: N Buna (Std.), V Fluorocarbon
- Porting: Cartridge only 0, SAE 6 6T, SAE 8 8T, 1/4 Inch BSP\* 2B, 3/8 Inch BSP\* 3B