

HYPD10-34 (Two Way Pilot Directional Valve, Normally Closed)

Description

A cartridge-style 2-way pilot-operated spool-type external-vent directional valve.

Operation

Unpiloted, the valve blocks flow from ③ to ② bidirectionally.

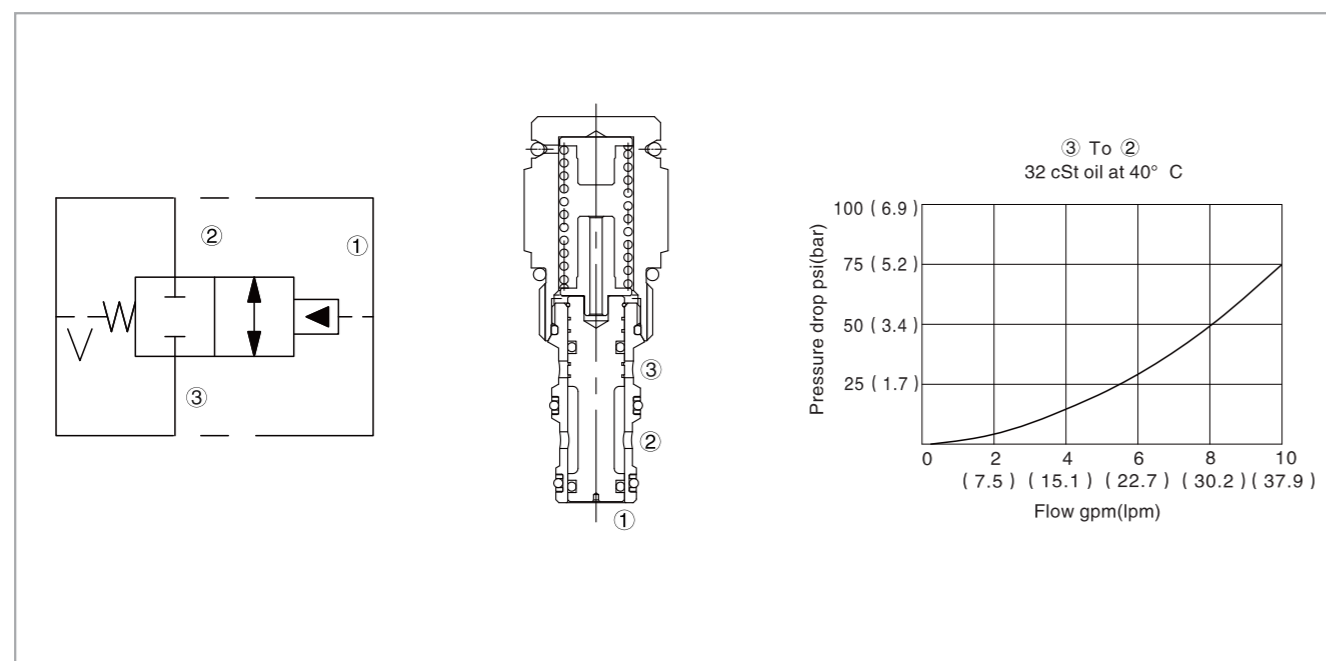
V is a spring chamber vent-to-atmosphere, which is internally O-ring sealed from the cartridge flow paths. On remote pilot signal at ①, the valve shifts to open ② to ③ bidirectionally.

Because of the vented spring chamber, the cartridge may be fully pressurized at any port without affecting required pilot pressure.

Specifications

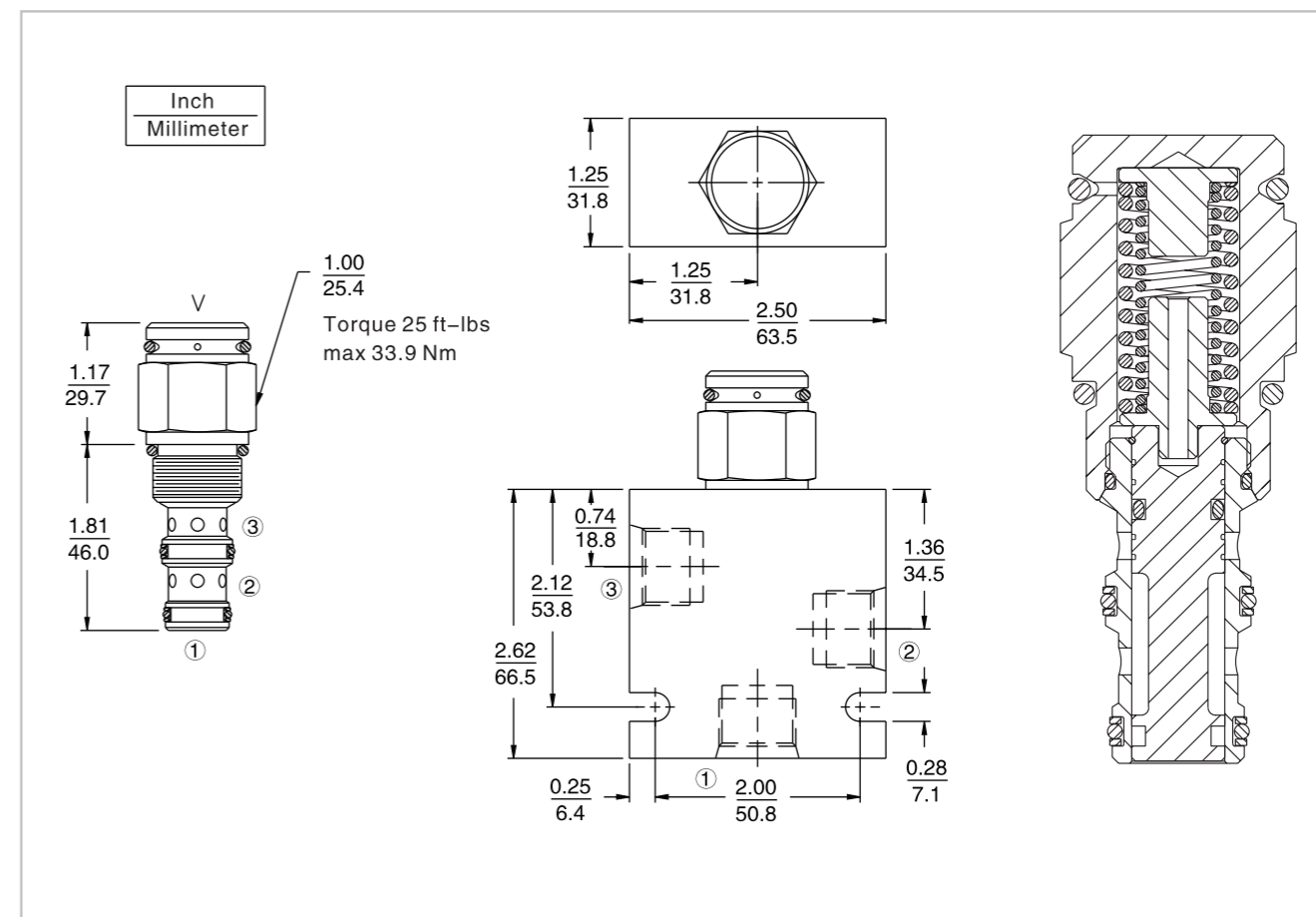
Max. operating pressure:	240 Bar
Flow:	See pressure drop vs. flow graph
Internal leakage:	82 cc/min. max. at 207 bar
Pilot pressure required:	To full spool shift: For 4.1bar spring : 4.7bar For 7.6bar spring : 8.6bar
Temperature:	(-40°C To +120°C) with NBR material seals
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	HY10-3, 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



HYPD10-34 (Two Way Pilot Directional Valve, Normally Closed)

External dimensions



Material science and order model

Cartridge: weight: 0.15 kg (0.34 lb);
Steel, the working face is duratected
Surface zinc-plated;
NBR material sealing and
check ring (standard).

Block: weight :0.36 kg (0.80 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.

HYPD10-34 - - -

Option	Bias spring	Seals
None(blank) 0	40 2.8 Bar (40 psi)	N Buna N (std.)
SAE 6 6T	60 4.1 Bar (60 psi)	NS Buna N (with sealed piston) :
SAE 8 8T	110 7.6 Bar (110 psi)	V Fluorocarbon
1/4 Inch BSP* 2B	170 11.7 Bar (170 psi)	VS Fluorocarbon with sealed piston
3/8 Inch BSP* 3B		

*BSP block only for UK made

Noted: 110 psi bias spring is the minimum required for use with sealed spool.