HYPD10-40 (Three Way Pilot Directional Valve)

Description

A cartridge-style 3-way pilot-operated spool-type external-nent directional valve.

Operation

On no remote pilot signal at ① ,the valve allows flow from ③ to ② bi-directionally, while

flow is blocked at ④, spring chamber vent-to-atmosphere, which is internally 0-ring sealed from the cartridge flow paths.

On remote pilot signal at ①, the valve shifts to open from ③ to ④, while blocking flow at ②.

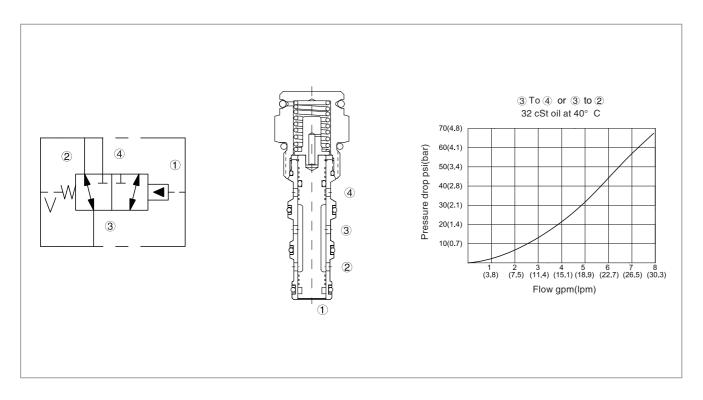
Because of the vented spring chamber, the cartridge may be fully pressurized at any

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 spool crossover 7.6 bar(110psi)
	To Full spool shift 8.6 bar(125psi)
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

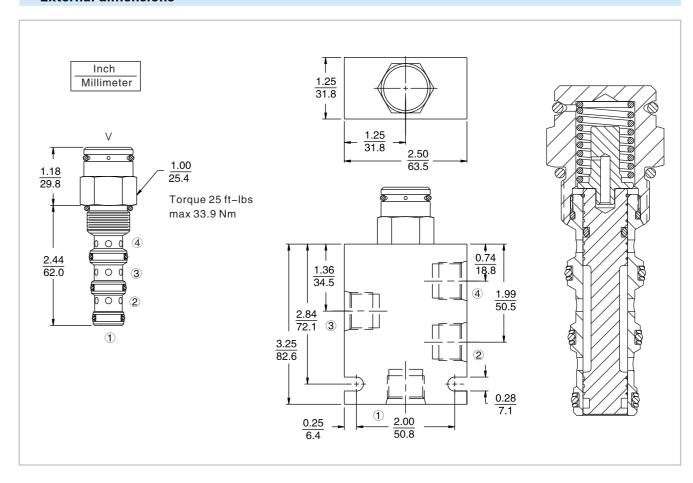
Code symbol, profile and pressure drop vs.flow



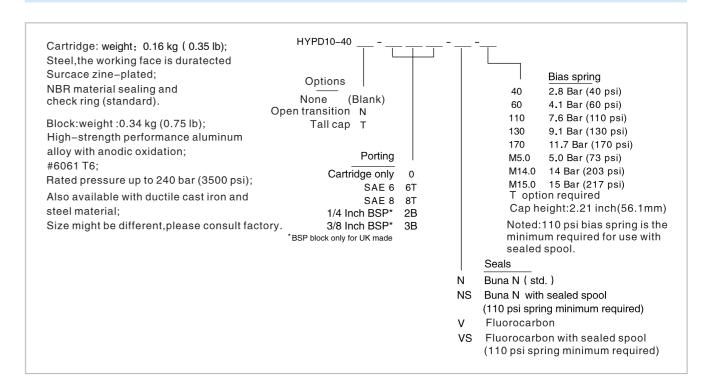


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External dimensions



Material science and order model



C.14.1