HYCR10-28 (Relief Valve Bi-directional)

Description

A cartridge-style direct-acting bi-directional relief valve.

Operation

The valve is a direct-acting, dual cross-over relief valve in a single cartridge format.

When pressure at either port exceeds the nominal setting value, flow will be transmitted

to the opposite port. Back pressure at either port will affect the nominal setting of the opposite port on a 1:1 basis.

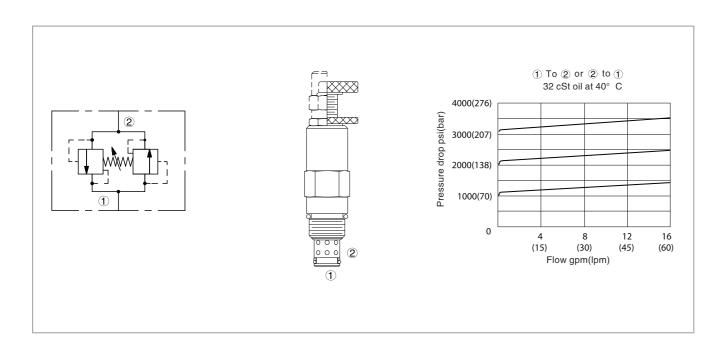
For correlation purposes, pre-set value will be measured at port ② .Pressure at port ①

will not exceed ±150 psi from the port 2 value.

Specifications

Operating pressure:	240 Bar
Standard spring ranges:	Pressure is set at port ②, 14 to 210 bar
Reseat pressure:	90% Of crack pressure (crack pressure at 0.95 lpm /0.25 gpm)
Maximum difference for crack pressure in both directions:	10.5 Bar(150 psi)
Flow:	See performance chart
Internal leakage:	When reseat to 85% of crack pressure:33 ml/min
Temperature:	(−40°C To +120°C) with NBR material seals
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	HY10-2,see page H.1.3
Body material:	6061-T6 Aluminum alloy rated to 207 bar, steel & ductile iron rated to 350 bar

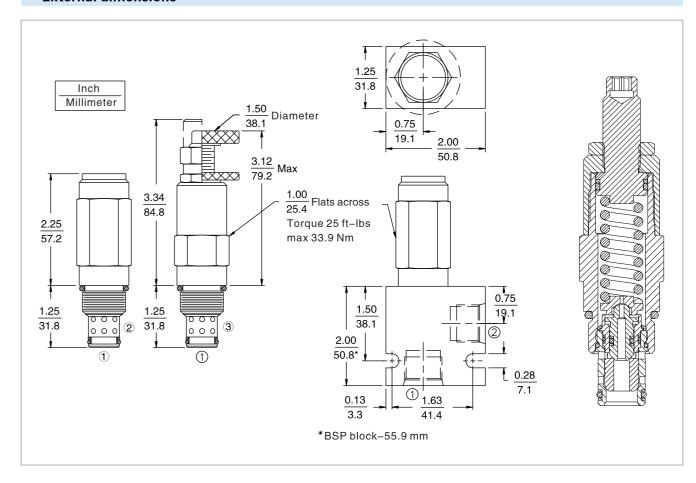
Code symbol, profile and pressure drop vs.flow



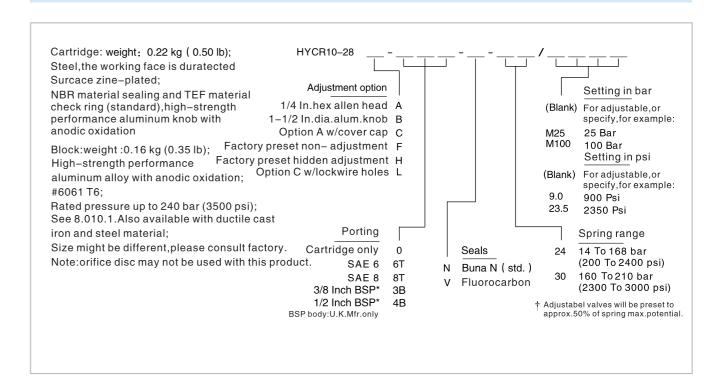


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External dimensions



Material science and order model



D.1.2