HYFR10-30 (Regulator Pressure Compensated Flow Control Valve)

Description

A cartridge-style adjustable pressure-compensated flow control valve.

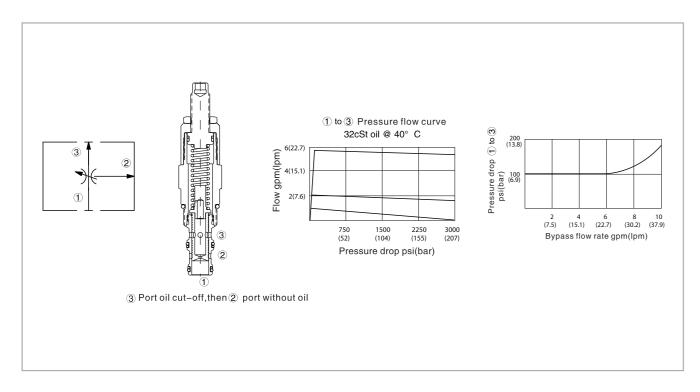
Operation

The valve maintains a constant flow rate from 3 regardless of load pressure changes in the system downstream of 3, or in the bypass leg at 2. The valve will pressure-compensate once a minimum pressure drop (determined by spring adjustment setting) is achieved from 1 to 3. This value will range from approximately 4.8 to 13.8 bar (70 to 200 psi). Bypass port 3 may be fully pressurized. The cartridge may be adjusted to \pm 25% of nominal setting. At nominal setting, pressure drop is approximately 9 bar (130 psi). Flow out of priority port 3 may vary based on input flow amount, particularly with lower temperatures and increased fluid viscosities.

Specifications

Operating pressure:	207 Bar
Flow setting:	Low range: 1.9 to 9.5 lpm (0.5 to 2.5 gpm)
	Specify in 1.9 lpm (0.5 gpm) increments
	High range: 11.4 to 22.7 lpm (3.0 to 6.0 gpm)
	Specify in 3.8 lpm(1gpm) increments
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

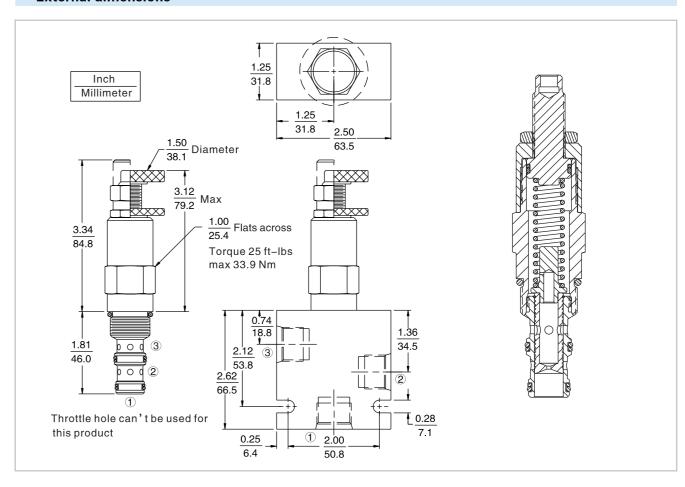
Code symbol, profile and pressure drop vs.flow



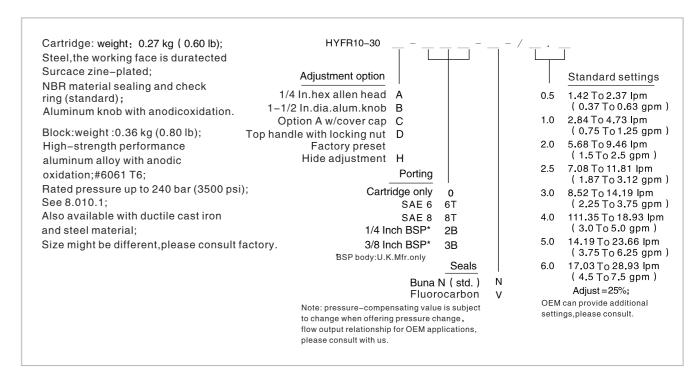


HYFR10-30 (Regulator Pressure Compensated Flow Control Valve)

External dimensions



Material science and order model



E.12.1