

HYFR08-20F (Regulator Pressure Compensated)

Description

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

Operation

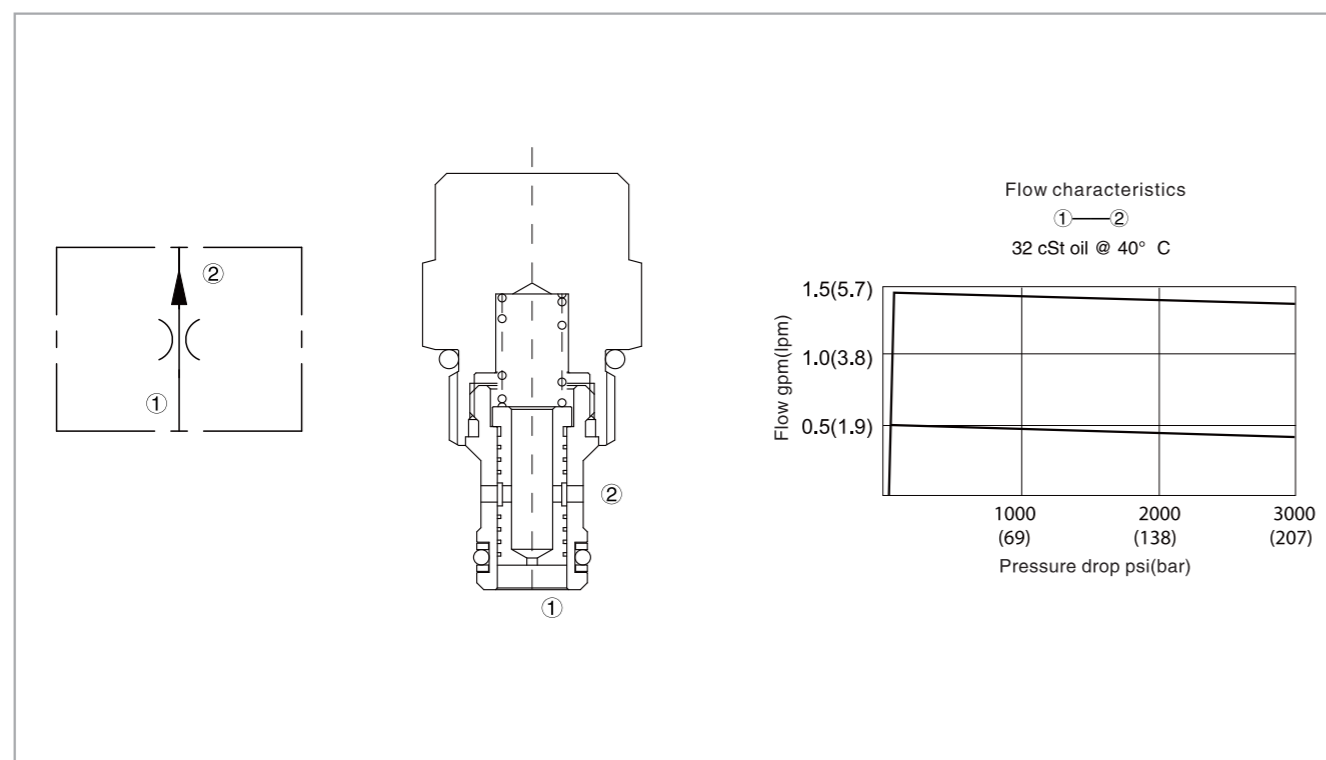
The valve maintains a constant flow rate out of ② regardless of load pressure changes in the circuit downstream of ②. The fixed control orifice is factory preset to customer flow specification.

The valve begins to respond to load changes when the flow through the valve creates a pressure differential across the control orifice greater than 5.5 bar, with accurate flow maintenance from 7.6 to 240 bar. Reverse flow (② to ①) returns through the control orifice and is non-compensated.

Specifications

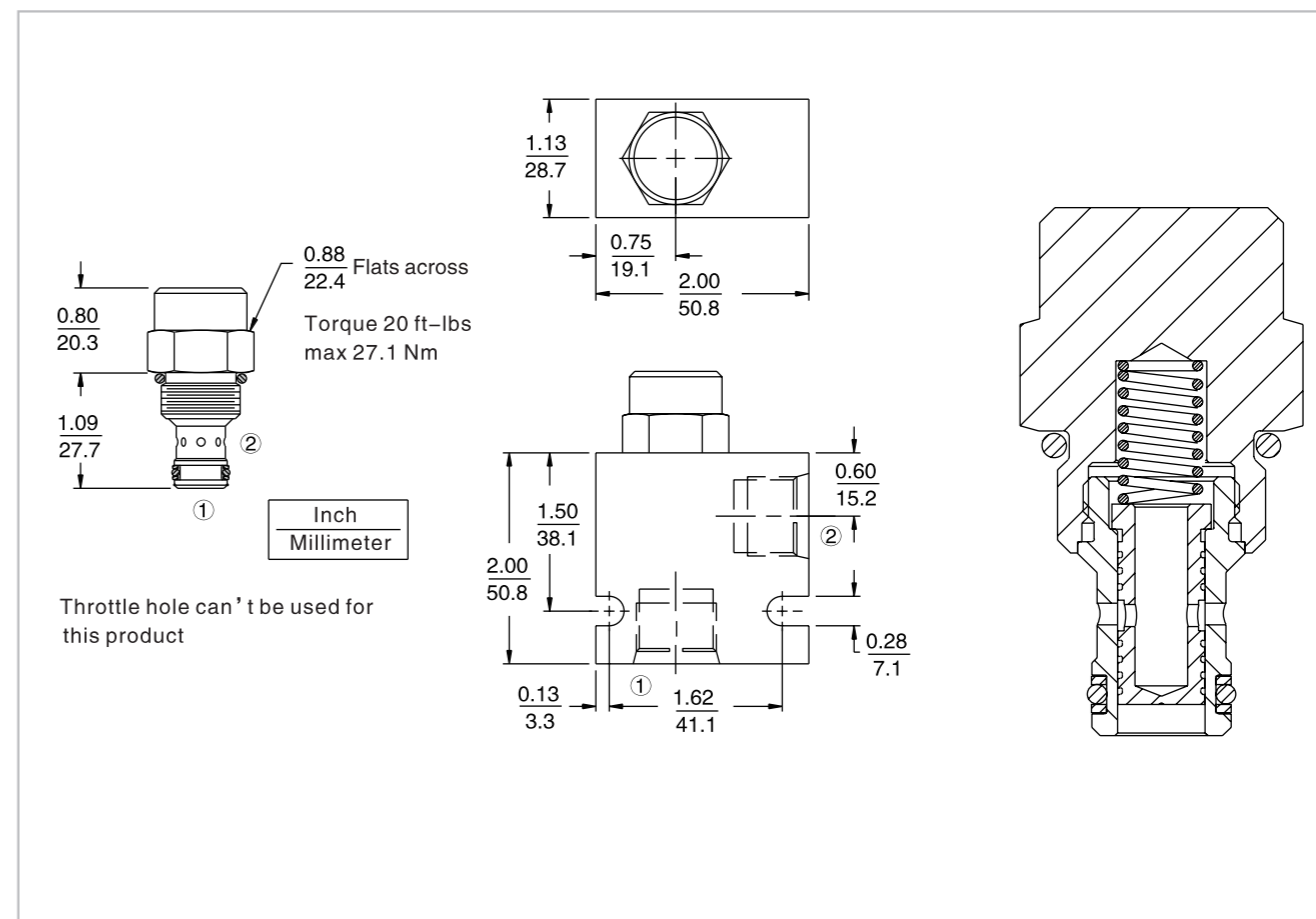
Operating pressure:	240 Bar
Flow setting:	0.41 L/min. min., 7.5 L/min. max.
Flow maintenance accuracy:	0.2 to 1.8L/min.settings ± 15%; 1.9 to 7.5L/min.settings ± 10%
Temperature:	(-40°C To +120°C) with NBR material seals
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	HY08-2, see page H.1.2
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: 0.07 kg (0.15 lb);
Steel, the working face is duratected
Surface zinc-plated;
NBR material sealing and check ring (standard);

Block: weight :0.16 kg (0.35 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.

HYFR08-20F - - - / -

Porting		Seals		Flow setting (lpm)
Cartridge only	Blank	Buna N (std.)	N	Range: 0.2 to 7.5 lpm For example: M1.8 1.8lpm M1.5 5.0lpm etc.
SAE4	0	Fluorocarbon	V	Flow setting (gpm) Range: 0.05 to 2.0 gpm For example: M1.3 1.3gpm M2.0 2.0gpm etc.
SAE6	4T			
SAE8	6T			
1/4 Inch BSP*	2B			
3/8 Inch BSP*	3B			