

HYFR10-33(Regulator Pressure Compensated Flow Regulator Valve Cartridge)

Description

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

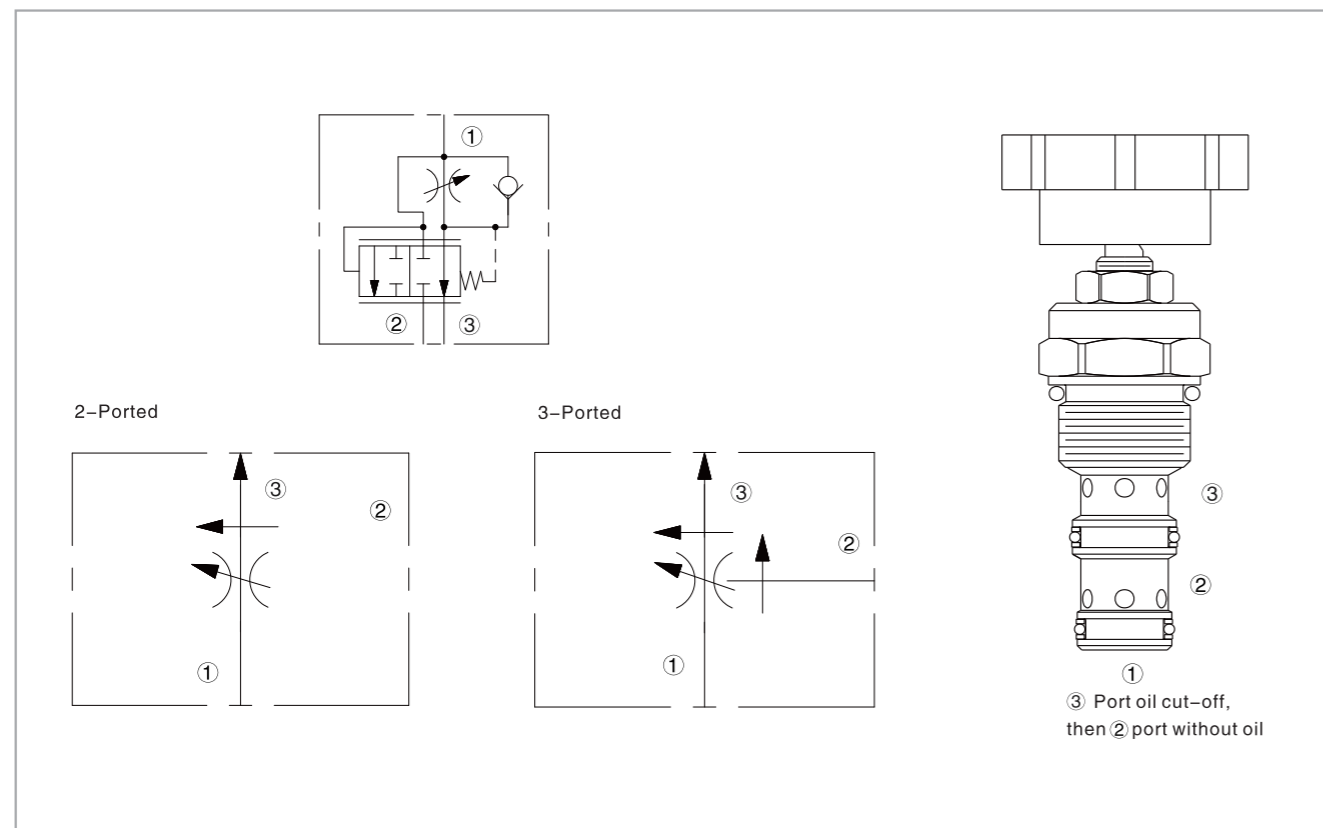
Operation

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. Reverse flow (③ to ①) bypasses the control orifice. Bypass port ② may be fully pressurized. The regulated flow increases from closed to fully open, with counter-clockwise rotation of the knob.

Specifications

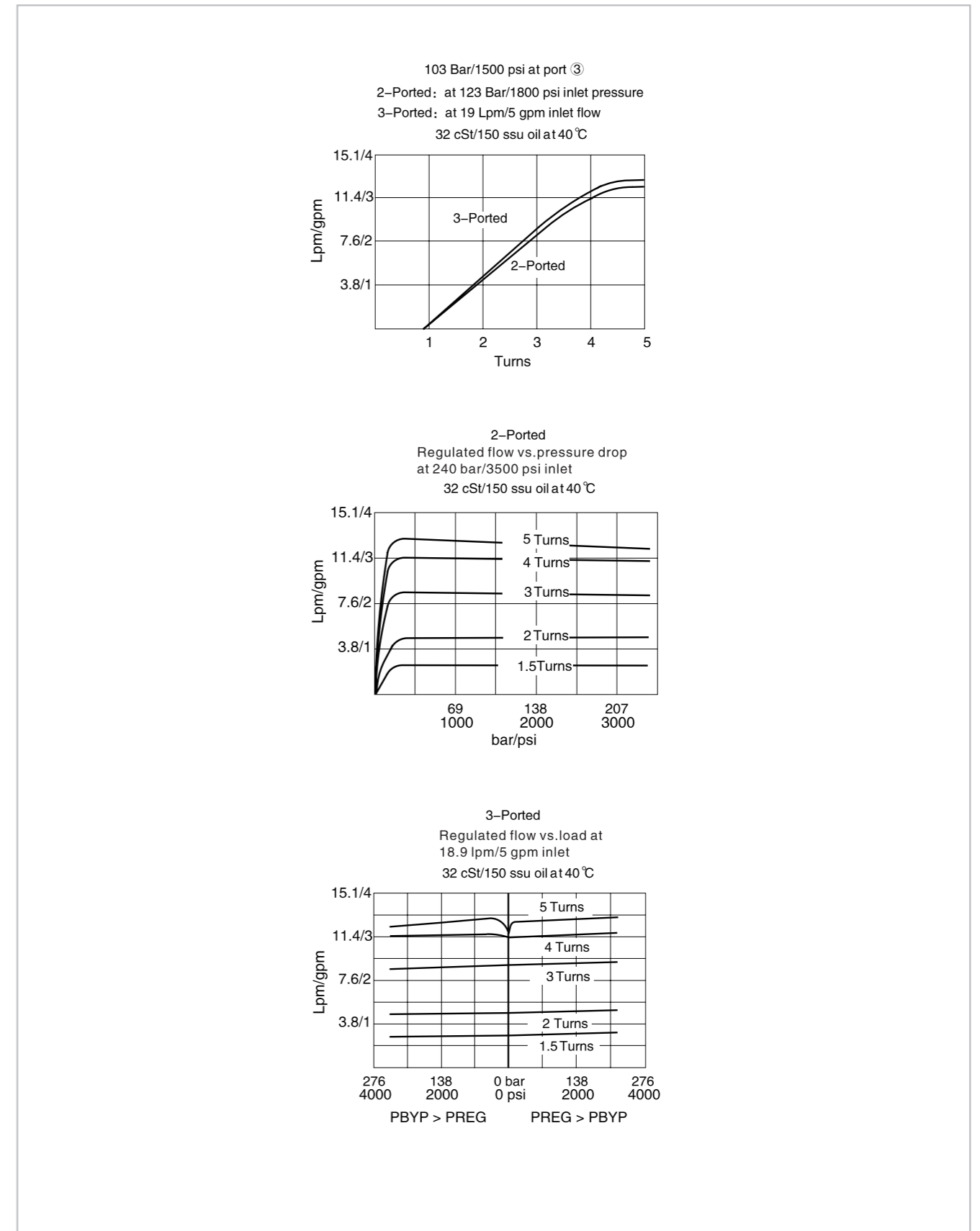
Operating pressure:	240 Bar
(Flow):	3-Ported regulated flow: 0-13 lpm
	2-Ported regulated flow: 0-12 lpm
Flow setting:	Rated: 0 ~ 19 lpm; Max.: 0 ~ 26 lpm
Temperature:	(-40°C To +120°C) with NBR material seals
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	HY10-3, see page H.1.4
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



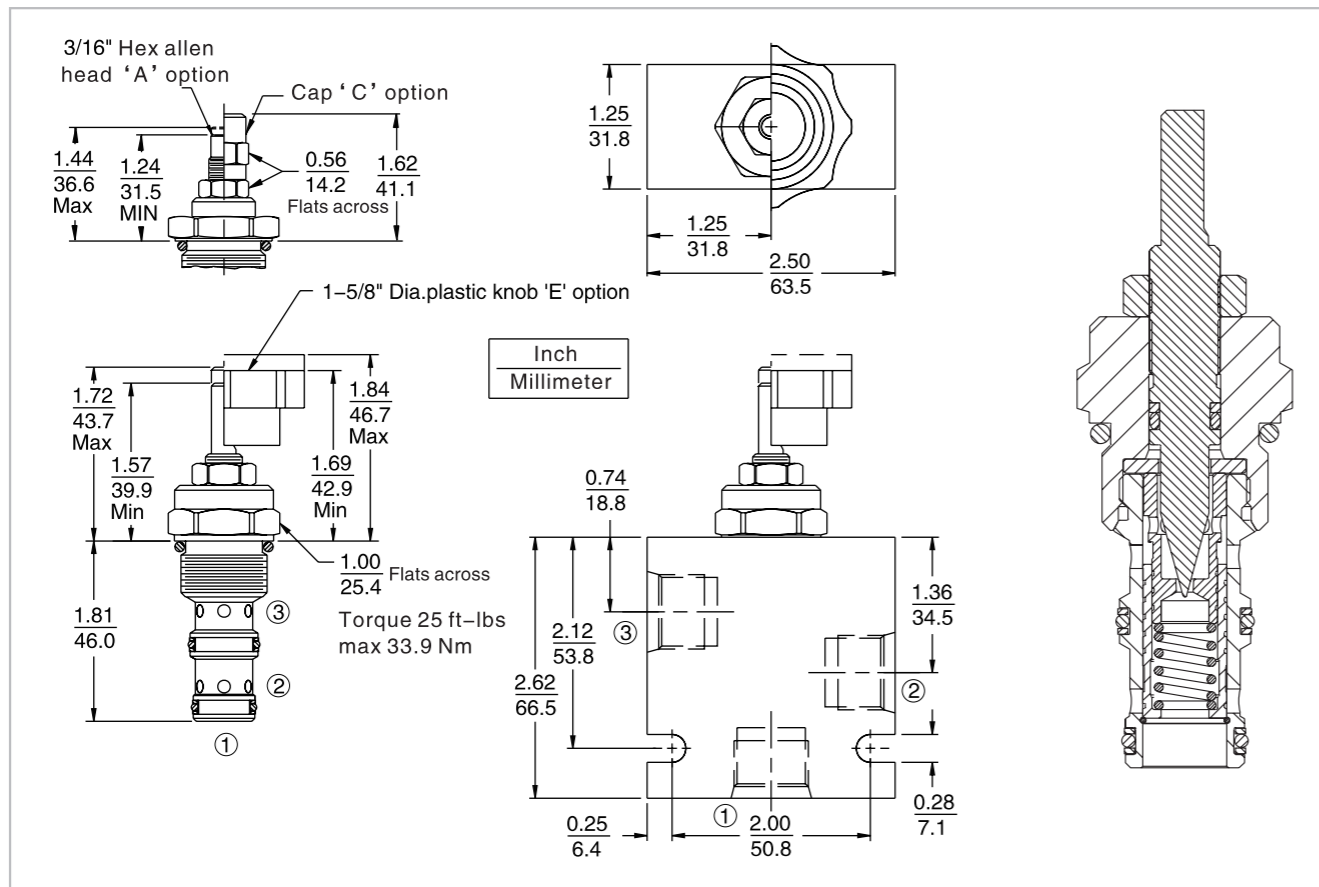
HYFR10-33(Regulator Pressure Compensated Flow Regulator Valve Cartridge)

External dimensions



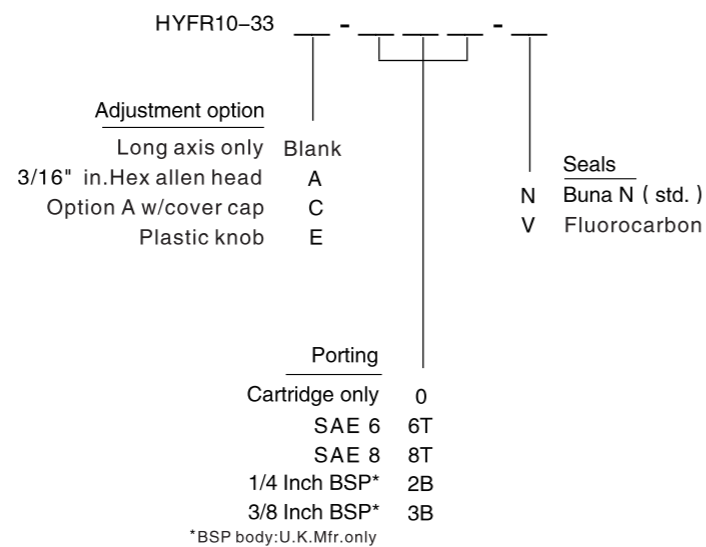
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External dimensions



Material science and order model

Cartridge: weight: 0.30 kg (0.68 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);
See 8.010.1;
Also available with ductile cast iron
and steel material;
Size might be different, please consult factory.



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Specifications

Operating pressure:	240 Bar
Flow:	3-Ported regulated flow: 0-38 lpm
	2-Ported regulated flow: 0-34 lpm
Flow setting:	(First + bypass) : nominal 0 ~ 38 lpm; max 0 ~ 57 lpm
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:	Steel & ductile iron rated to 350 bar

Code symbol and profile

