

# HYFR10-20F (Regulator Pressure Compensated)

## Description

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

## Operation

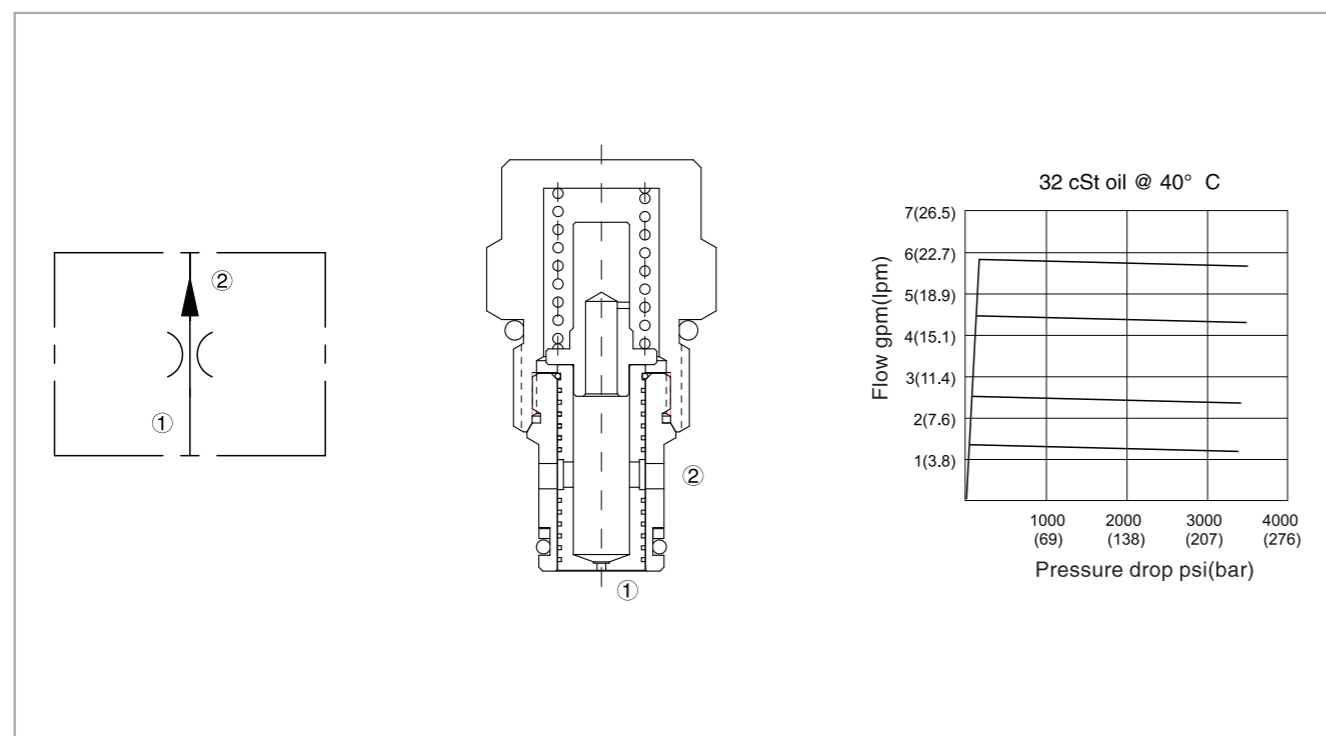
The valve maintains a constant flow rate out of ② regardless of load pressure changes in the circuit downstream of ②. The fixed control orifice is factory preset to customer flow specification.

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

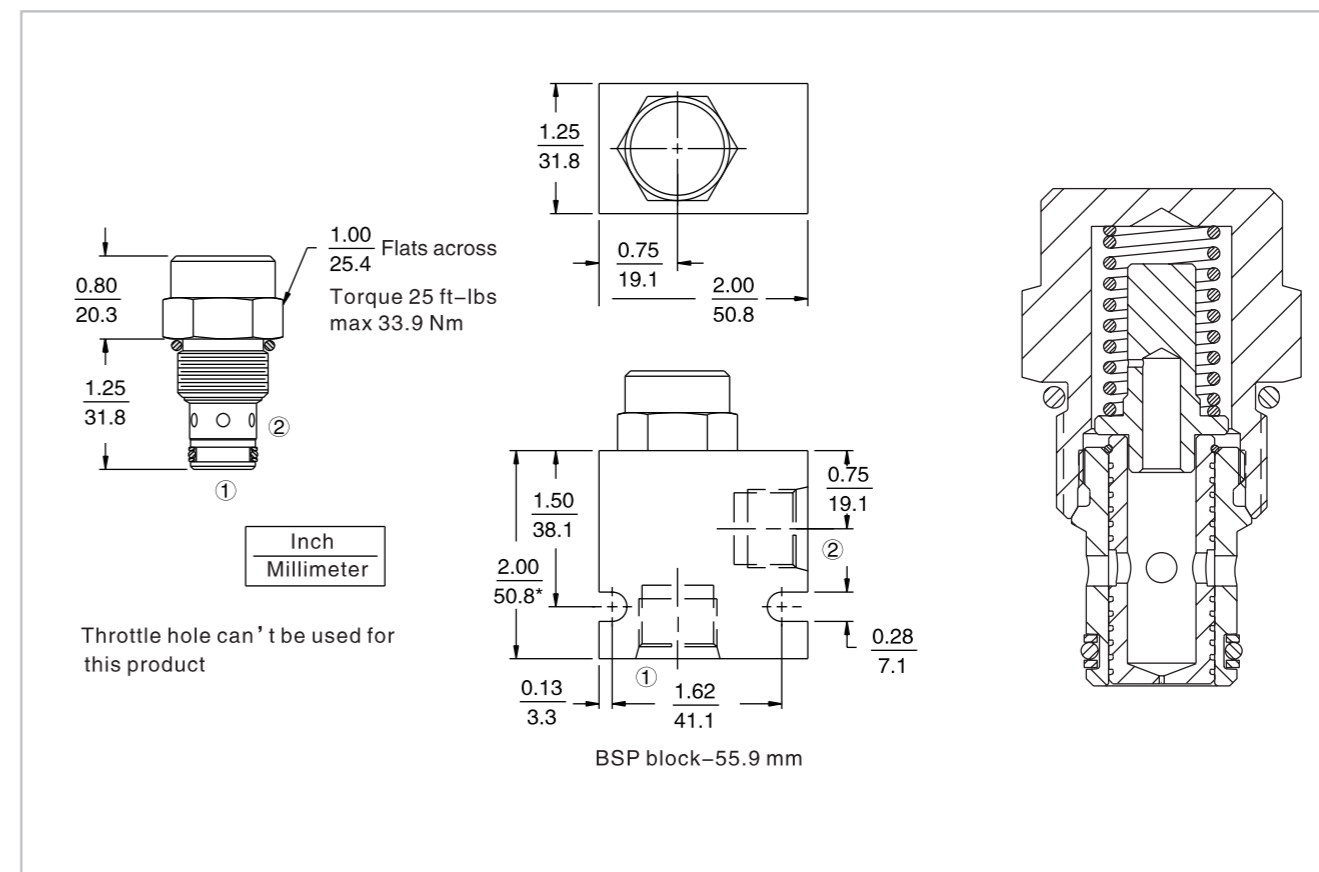
|                            |  |
|----------------------------|--|
| Operating pressure:        | 240 Bar  |
| Flow setting:              | 0.4 L/min. min., 22.7 l/min. max.  |
| Flow maintenance accuracy: | 0.37 To 1.85 l/min. settings ± 20%   |
|                            | 1.89 To 5.63 l/min. settings ± 15%   |
| Temperature:               | 5.68 To 22.71l/min. settings ± 10%   |
|                            | (-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

Cartridge: weight: 0.08 kg ( 0.18 lb); Steel, the working face is duratected Surcace zine-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); See 8.010.1;

Also available with ductile cast iron and steel material;

Size might be different, please consult factory.

| Porting        |    | Seals           |   | Flow setting ( lpm )                 |
|----------------|----|-----------------|---|--------------------------------------|
| Cartridge only | 0  | Buna N ( std. ) | N | For example:                         |
| SAE 6          | 6T | Fluorocarbon    | V | M1.8 1.8 lpm                         |
| SAE 8          | 8T |                 |   | M5.0 5.0 lpm                         |
| 1/4 Inch BSP*  | 2B |                 |   | etc.                                 |
| 3/8 Inch BSP*  | 3B |                 |   | Flow setting ( gpm )                 |
| 1/2 Inch BSP*  | 4B |                 |   | For example:                         |
|                |    |                 |   | 1.3 1.3 gpm                          |
|                |    |                 |   | 5.0 5.0 gpm                          |
|                |    |                 |   | etc.                                 |
|                |    |                 |   | Drilling size method                 |
|                |    |                 |   | Calculated in thousandths of an inch |
|                |    |                 |   | For example:                         |
|                |    |                 |   | D030 Control orifice 0.030 inch      |
|                |    |                 |   | etc.                                 |

Note: the minimum drilling diameter is 0.020 inches. For smaller orifice sizes, please consult the factory.