Hengli ®

6.2

50F10-20F TYPE

Regulator,
Pressure Compensated

Rated pressure (bar / psi)	345/ 5000
Rated flow (L/min / gpm)	0.4 / 0.1 （min.)
	22.7 / 6 （max.)

Features

· Hardened parts for long life
· Quiet, modulated response
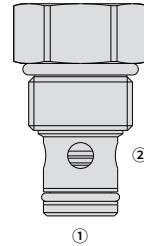· Compact size

Contents

Symbol
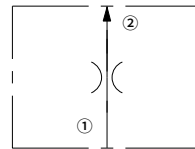
Description

A screw-in, cartridge-style, fixed orifice, pressure compensated, hydraulic flow regulating valve (restrictive type) .
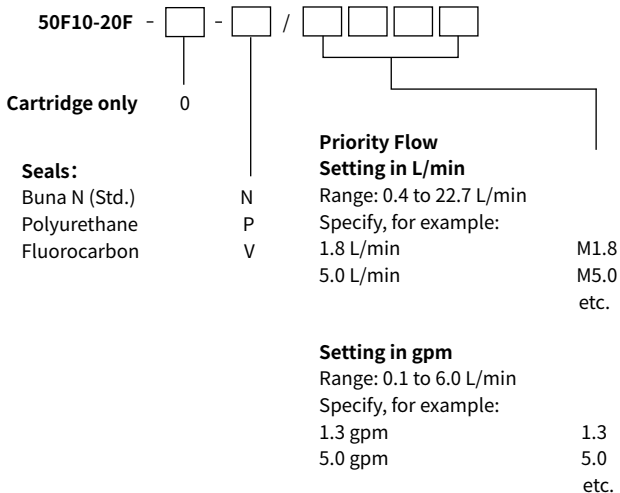
Operation

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 345 bar. Reverse flow (② to ①) returns through the control orifice and is non-compensated.

Ordering Code

50F10-20F – ☐ – ☐ / ☐ ☐ ☐ ☐

Cartridge only   0

Seals:
Buna N (Std.)   N
Polyurethane   P
Fluorocarbon   V

**Priority Flow
Setting in L/min**
Range: 0.4 to 22.7 L/min
Specify, for example:
1.8 L/min   M1.8
5.0 L/min   M5.0
                    etc.

Setting in gpm
Range: 0.1 to 6.0 L/min
Specify, for example:
1.3 gpm   1.3
5.0 gpm   5.0
                    etc.

05

Materials

Cartridge:
Weight: 0.11 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces;
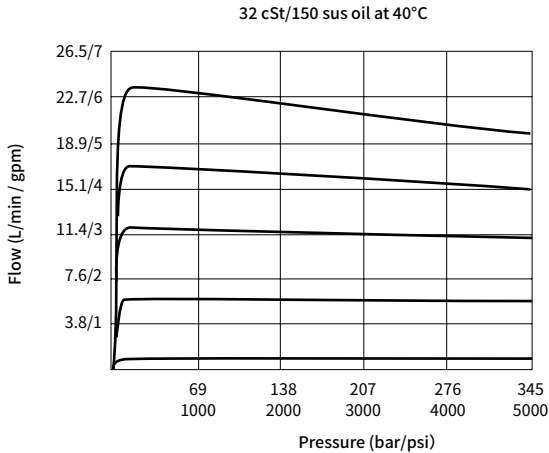Buna N (Std.) seal.

Standard Ported Body:
Anodized high-strength aluminum alloy, rated to 240 bar; Ductile iron and steel bodies available;
Dimensions may differ, consult factory.

Technical Data

Rated pressure	345 bar(5000 psi)
Rated flow	0.4 L/min(0.1 gpm)min. ; 22.7 L/min(6.0 gpm)max.
Flow maintenance setting range	0.37~1.85 L/min(0.1~0.49gpm) $\pm$ 20% 1.89~5.63 L/min(0.5~0.49gpm) $\pm$ 15% 5.68~22.71 L/min(1.5~6gpm) $\pm$ 10%
Cavity	VC10-2 (See technical reference)
Fluid	Mineral-based or synthetics with lubricating properties
Viscosity range	7.4 to 420 mm^2/s
Temperature range	-40 to 100 °C (Buna N seals)
	-26 to 204 °C (Fluorocarbon seals)
	-54 to 107 °C (Polyurethane seals)
Degree of fluid contamination	The minimum pollution level is ISO4406 level 18/16/13, and level 15/13/11 is recommended to prolong the service life

Performance (Cartridge Only)

32 cSt/150 sus oil at 40°C

Dimensions

⌀28.5
[1.12]

12.73
[0.5]

25.4[1] Across flats
Torque 45-50 Nm

7/8-14 UNF-2A

32.5
[1.28]

②

①

⌀15.84
[0.62]

MILLIMETER
INCH