6.10

35LB12-30 TYPE

Pressure Compensator

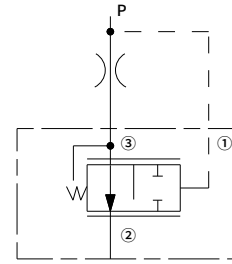
Rated pressure (bar / psi)	240 / 3500
Max. regulated flow (L/min / gpm)	58 / 15

Features

- Hardened parts for long life
- Quiet, modulated response
- Industry common cavity

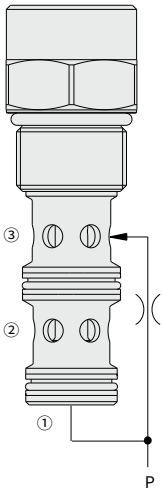
Contents

Symbol



Description

A screw-in, cartridge-style pressure-compensating element, intended for use with a remote fixed or variable orifice to yield a two-port-type, pressure-compensated, flowregulating hydraulic valve.



Operation

The valve maintains a constant flow rate from ② regardless of load pressure changes in the circuit downstream of ② . The cartridge maintains a constant differential pressure from circuit point P to port ③ , thereby regulating the hydraulic flow rate between the two points in the circuit.

Ordering Code

35LB12-30 □ - □ - □ - □□

Option:
None Blank

Cartridge only 0

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

Compensator Spring:
6.9 bar (100psi), Std. 100
11.0 bar (160psi) 160

Materials

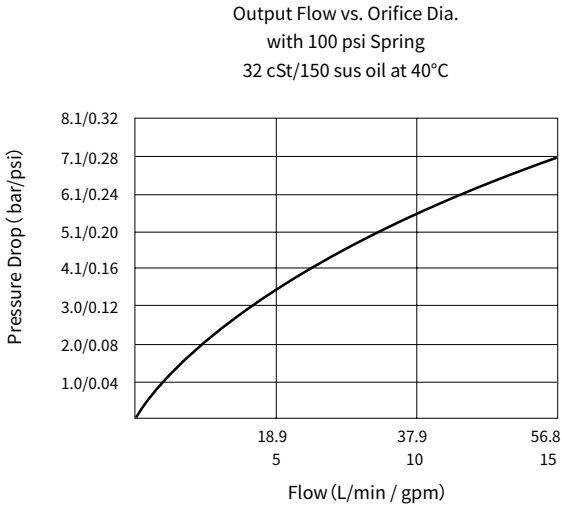
Cartridge:
Weight: 0.23 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces; Polyurethane (Std.) seal.

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	240 bar (3500 psi)
Max. regulated flow	58 L/min (15 gpm)
Standard compensator bias spring	6.9 bar (100 psi)
Flow maintenance	±10% from 0.38 to 38 L/min at pressures from 5.5 to 207 bar
Cavity	VC12-3
Fluid	Mineral-based or synthetics with lubricating properties
Viscosity range	7.4 to 420 mm^2/s
Temperature range	-54 to 107 °C (Polyurethane seals)
	-40 to 100 °C (Buna N seals)
	-26 to 204 °C (Fluorocarbon 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)



Dimensions

(Dimensions in mm)