



6.11

# 50LB10-S36 TYPE

## Pressure Compensator

Rated pressure (bar / psi)	350 / 5075
Max. regulated flow (L/min / gpm)	70 / 18.42

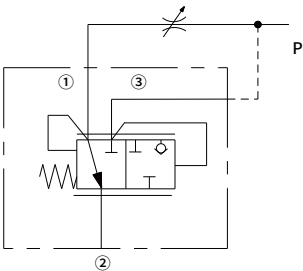
### Features

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

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### Symbol

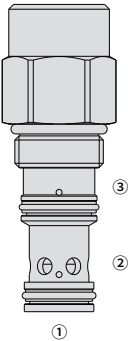


Description

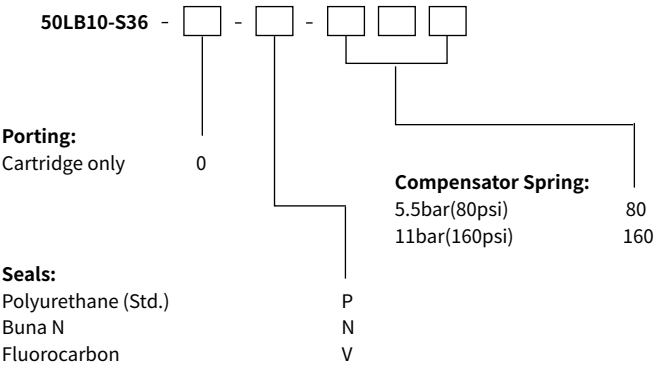
A screw-in, cartridge-style ,spool- type pressure-compensating element, port 3 can be used in blocking or load-holding circuits, intened for use with a remote fixed or variable orifice to yield a two-port-type, pressure-compensated, flow regulating hydraulic valve.

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 point ③ to port ① , thereby regulating the hydraulic flow rate between the two points in the circuit.  
When the adjustable flow orifice is completely closed, the oil port ③ cuts off the flow of oil and the P-port load can be maintained.



Ordering Code



Materials

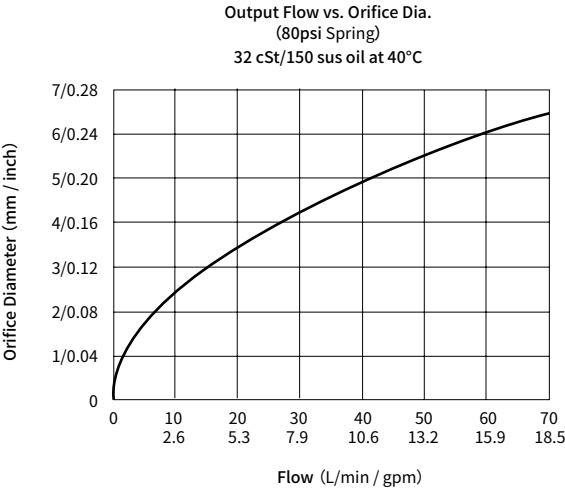
**Cartridge:**  
Weight: 0.2 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces; Polyurethane (Std. ) seal.

**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	350 bar (5075 psi)
Max. regulated flow	70 L/min (18.42 gpm)
Standard compensator bias spring	5.5 bar (80 psi); 11 bar (160 psi)
Leakage in 3 port	≤ 3 d/min @ 350 bar
Flow maintenance range (@ pressure 5.5 to 350bar)	10% from 0.38 to 70L/min
Cavity	VC10-S3 (See technical reference)
Fluid	Mineral-based or synthetics with lubricating properties
Viscosity range	7.4 to 420 mm <sup>2</sup> /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 20/18/14, and level 17/15/13 is recommended to prolong the service life

Performance (Cartridge Only)



Dimensions

