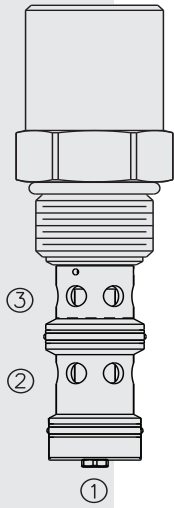


HEC12-34 Pressure Compensator, Load Holding

U.S. Patent
7,261,030



DESCRIPTION

A screw-in, cartridge-style, load sense, flow-on-demand pressure-compensator with built-in damping and load-holding features for use in gravity-lowering circuits.

OPERATION

The HEC12-34 is designed to be used in combination with a flow control valve for lowering and holding a load. With inlet flow at port 2, port 3 will deliver required flow regardless of load pressure sensed at port 1.

FEATURES

- Hardened parts for long life.
- Hardened seat for low-leakage load-holding capability.
- Quiet, modulated response.

RATINGS

Operating Pressure: 350 bar (5075 psi) 10% cycle life 420 bar (6090 psi)

Proof Pressure: 690 bar (10,000 psi)

Burst Pressure: 1380 bar (20,000 psi)

Minimum Inlet Pressure Required in Load-Holding Mode: 31.0 bar (450 psi)

Flow Rating: 83 lpm (22 gpm) with 200 psi compensating spring

Flow Maintenance: See performance chart

Maximum Internal Leakage: 5 drops per minute at port 1 with 350 bar (5075 psi) pressure at port 2 and port 3 blocked.

Temperature: -54 to 107°C (-65 to 225°F) with PPDI urethane seals

Filtration: See page 9.010.1

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

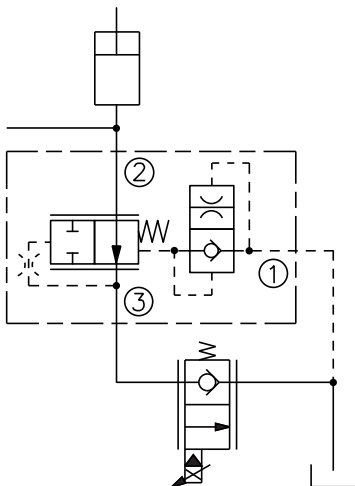
Installation: No restrictions; See page 9.020.1

Cavity: HVC12-3; See page 9.112.1

Cavity Tool: HCT12-3X0-X-X; See page 8.600.1

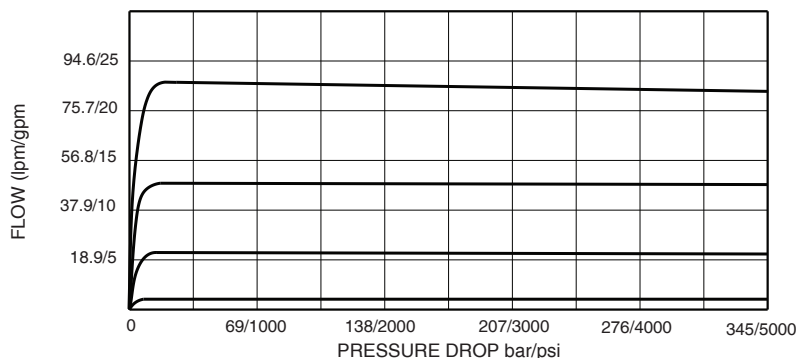
Seal Kit: HSK12-3U-0; See page 8.650.1

ISO SYMBOL



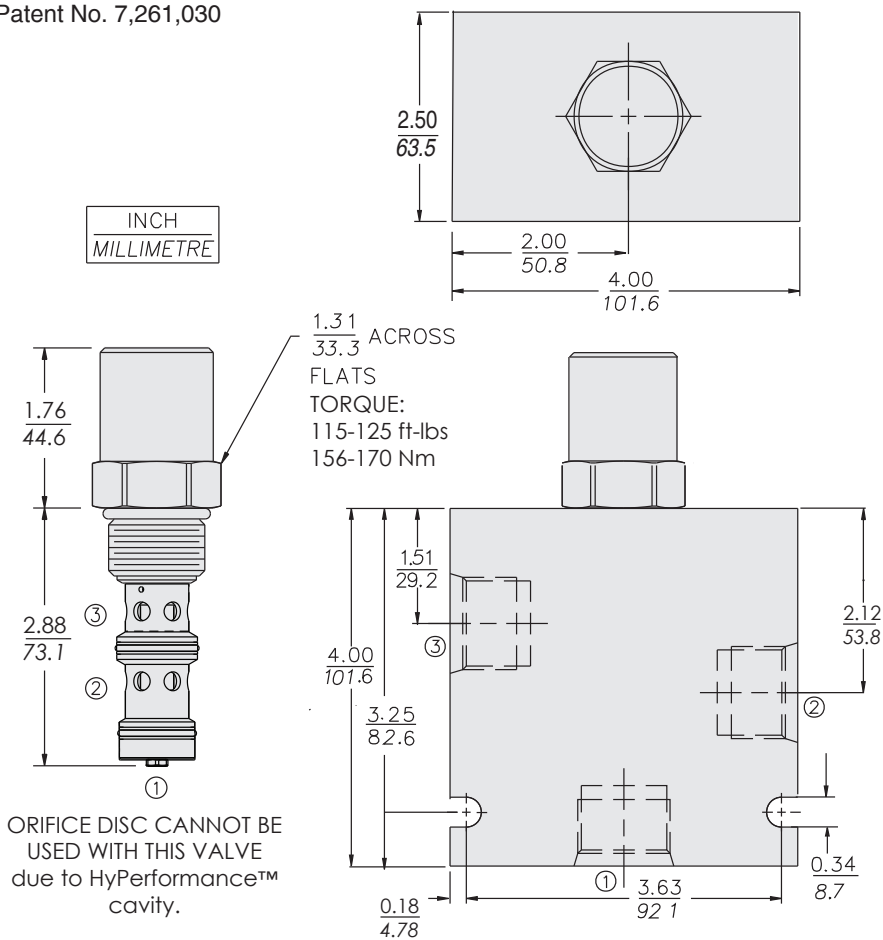
PERFORMANCE (Cartridge Only)

Flow Characteristics (Meter Out Mode)
HEC12-34 with 13 Bar (200 psi) Spring
32cSt Oil at 40°C (104°F)



DIMENSIONS

U.S. Patent No. 7,261,030



MATERIALS

Cartridge: Weight: 0.42 kg. (0.93 lbs.)
Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
PPDI urethane seals without back-up rings standard.

Standard Ported Body: Weight:
4.05 kg. (8.93 lbs.) HyPerformance™
Ductile iron (code 'D') standard.
Rated to 354 bar (5000 psi).

TO ORDER

HEC12-34 - - - 200

Porting
Cartridge Only 0
SAE 12 12TD
3/4 in. BSP 6BD
* BSP Body; U.K. Mfg.Only

Compensator Spring
200 13.8 bar (200 psid)

Seals
U PPDI Urethane

NOTE: Urethane seals recommended for operating pressures above 241 bar (3500 psi).

NOTE: Consult factory for additional seal options.