EC10-30 Pressure Compensator

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, flow regulating hydraulic valve.

OPERATION
The EC10-30 maintains a constant flow rate from ➁ regardless of load pressure changes in the circuit downstream of ➁. The cartridge maintains a constant differential pressure from circuit point P to port ➁ (see USASI Symbol), thereby regulating the hydraulic flow rate between the two points in the circuit.

FEATURES
• Hardened parts for long life.
• Quiet, modulated response.
• Industry common cavity.

RATINGS
Operating Pressure: 207 bar (3000 psi)
Regulated Flow Rate: 30.3 lpm (8 gpm) max.
Standard Compensator Bias Spring: 5.5 bar (80 psid)
Flow Maintenance: ±10% from 0.38 to 38 lpm (0.1 to 10 gpm) at pressures from 5.5 to 207 bar (80 to 3000 psi)
Temperature: -40 to 120°C
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: VC10-3; See page 9.110.1
Cavity Tool: CT10-3XX; See page 8.600.1
Seal Kit: SK10-3X-TB; See page 8.650.1

SYMBOLS
USASI: ISO:

PERFORMANCE (Cartridge Only)
Output Flow vs. Orifice Dia. with 80 psid Spring
32 cSt/150 ssu oil at 40°C
**DIMENSIONS**

**CARTRIDGE:**
- Weight: 0.11 kg. (0.25 lbs.)
- Steel with hardened work surfaces.
- Zinc-plated exposed surfaces.
- Buna N O-rings and polyester elastomer back-ups standard.

**STANDARD PORTED BODY:**
- Weight: 0.36 kg. (0.80 lbs.) Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.010.1.

**MATERIALS**
- **Cartridge:**
  - Weight: 0.11 kg. (0.25 lbs.)
  - Steel with hardened work surfaces.
  - Zinc-plated exposed surfaces.
  - Buna N O-rings and polyester elastomer back-ups standard.

**Standard Ported Body:**
- Weight: 0.36 kg. (0.80 lbs.) Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.010.1.

**TO ORDER**

**EC10-30**

- **Porting**
  - Cartridge Only: 0
  - SAE 6: 6T
  - SAE 8: 8T
  - 1/4 in. BSP*: 2B
  - 3/8 in. BSP*: 3B
  - *BSP Body; U.K. Mfr. Only

- **Compensator Spring**
  - 40: 2.8 bar (40 psid)
  - 80: 5.5 bar (80 psid) standard
  - 160: 11.0 bar (160 psid)

- **Seals**
  - N: Buna N (Std.)
  - V: Fluorocarbon