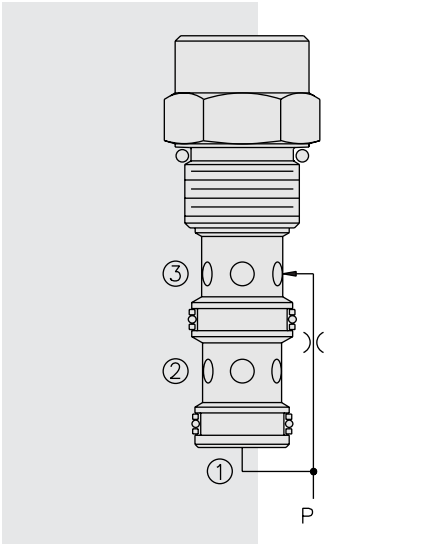


# EC12-30 Pressure Compensator



## 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 **EC12-30** 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 ① (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:** 240 bar (3500 psi)

**Regulated Flow Rate:** 58 lpm (15 gpm) max.

**Standard Compensator Bias Spring:** 6.9 bar (100 psi) See note on Ordering Table.

**Flow Maintenance:** ±10% from 0.38 to 58 lpm (0.1 to 15 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

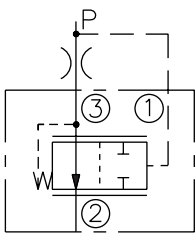
**Cavity:** VC12-3; See page 9.112.1

**Cavity Tool:** CT12-3XX; See page 8.600.1

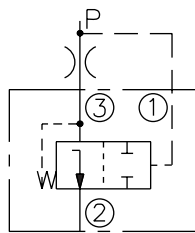
**Seal Kit:** SK12-3X-MM; See page 8.650.1

## SYMBOLS

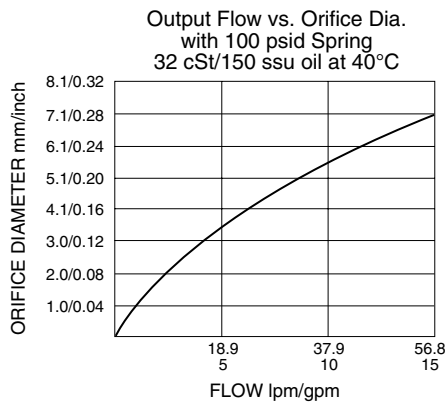
USASI:



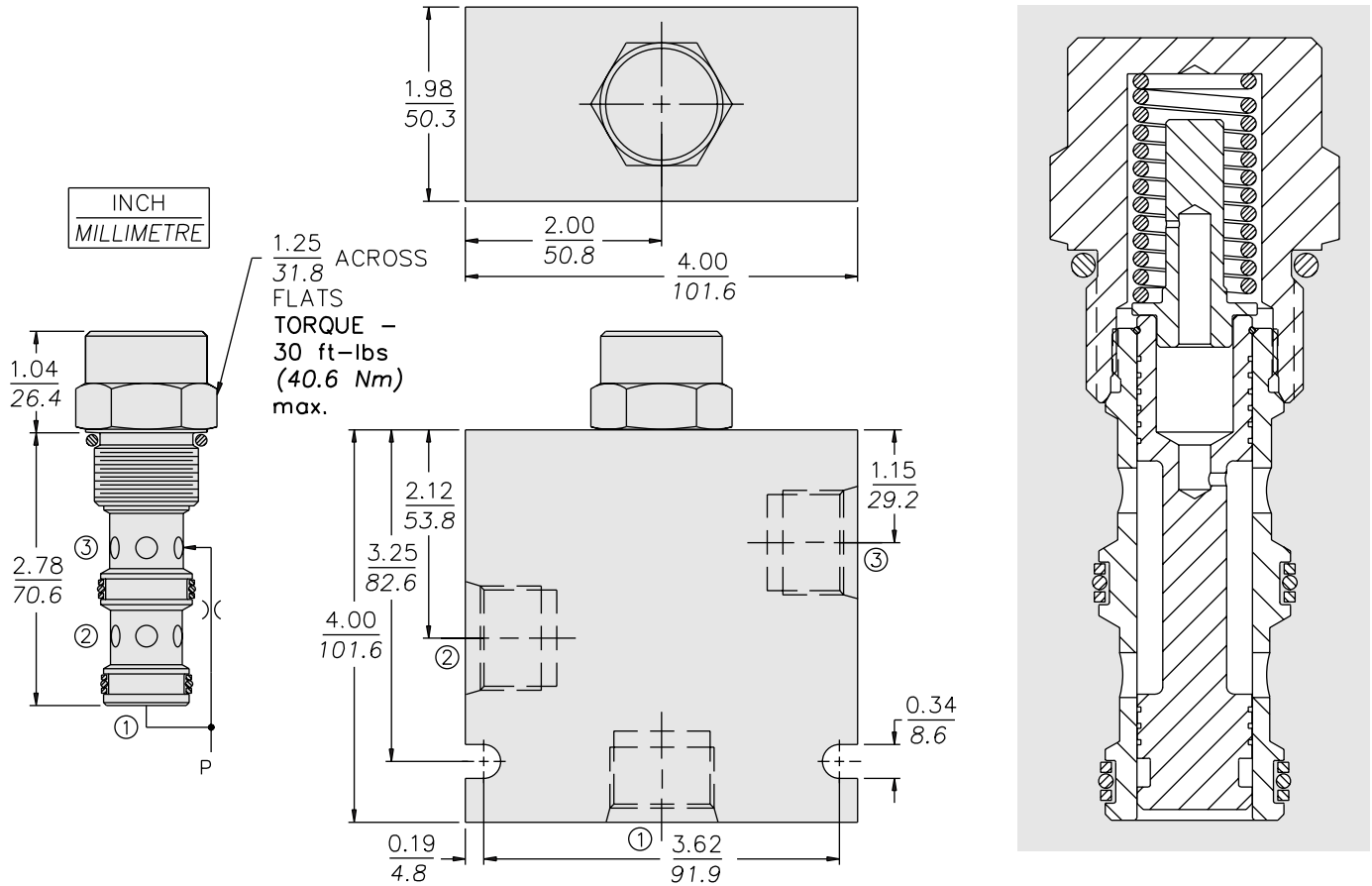
ISO:



## PERFORMANCE (Cartridge Only)



**DIMENSIONS**



**MATERIALS**

**Cartridge:** Weight: 0.23 kg. (0.50 lbs.)  
Steel with hardened work surfaces.  
Zinc-plated exposed surfaces.  
Buna N O-rings and polyester elastomer back-ups standard.

**Standard Ported Body:** Weight: 1.13 kg. (2.5 lbs.)  
Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.012.1

**TO ORDER**

**EC12-30 -**

<p><b>Porting</b></p> <p>Cartridge Only <b>0</b></p> <p>SAE 8 <b>8T</b></p> <p>SAE 10 <b>10T</b></p> <p>SAE 12 <b>12T</b></p> <p>1/2 in. BSP* <b>4B</b></p> <p>3/4 in. BSP* <b>6B</b></p>	<p><b>Compensator Spring</b></p> <p><b>100</b> 6.9 bar (100 psid) standard</p> <p><b>160</b> 11.0 bar (160 psid)</p>
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**Seals**

**N** Buna N (Std.)

**V** Fluorocarbon

\*BSP Body; U.K. Mfr. Only