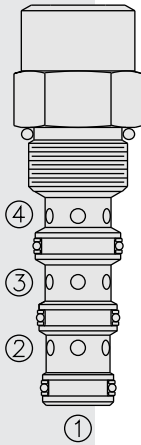


## EC10-43 Pressure Compensator



### DESCRIPTION

A screw-in, cartridge-style, **priority-on-demand**, pressure-compensator with a dynamic load sense, intended to provide priority flow in the required amount, while allowing excess flow to be used for auxiliary functions.

### OPERATION

With inlet flow at ③, the **EC10-43** will deliver required priority flow at ④, regardless of load pressure. Excess flow exits at ②. Port ① is the load sense port. All ports may be fully pressurized.

### FEATURES

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

### RATINGS

**Operating Pressure:** Inlet: 240 bar (3500 psi)

**Maximum Regulated Flow:** 34.1 lpm (9 gpm) with 10.3 bar (150 psi) compensator spring; 26.0 lpm (7.0 gpm) with 5.5 bar (80 psi) compensator spring

**Flow Maintenance:** see performance chart

**Temperature:** -40 to 120°C with Buna N 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

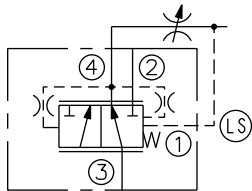
**Cavity:** VC10-4; See page 9.110.1

**Cavity Tool:** CT10-4-XXX; See page 8.600.1

**Seal Kit:** SK10-4X-MMM; See page 8.650.1

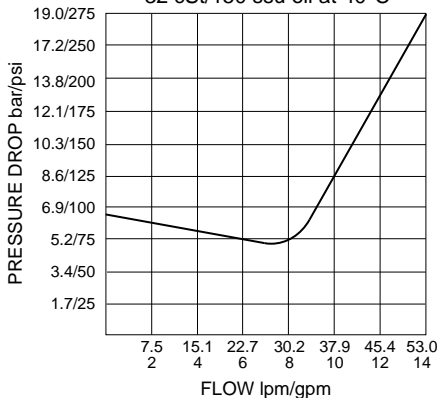
### SYMBOLS

#### USASI/ISO:



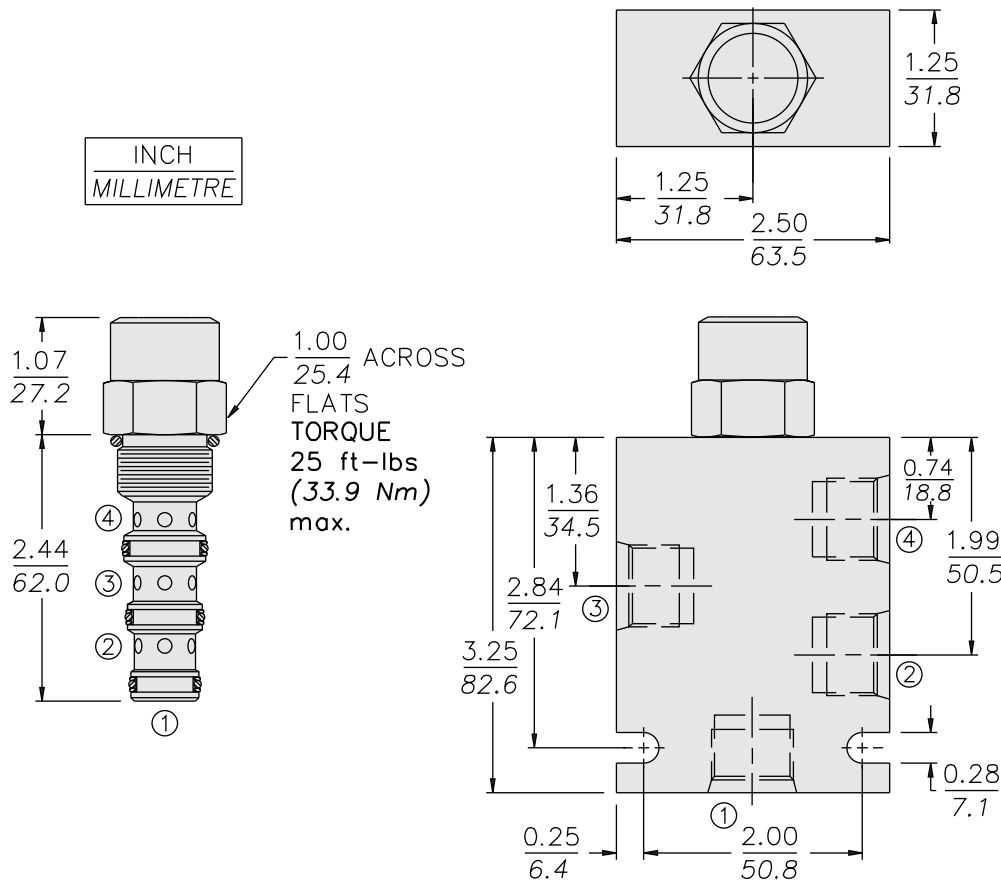
### PERFORMANCE (Cartridge Only)

Pressure Drop vs. Inlet Flow  
③ to ②, with ④ closed;  
No load at ②; 150 psi Spring  
32 cSt/150 ssu oil at 40°C



**Note:** This valve, the EC10-43, replaces the older EC10-41 functionally, although the two valves have different port logic. We will continue to provide the EC10-41 for existing customers, but recommend conversion to the new EC10-43 for new designs. For more information consult factory.

**DIMENSIONS**



**MATERIALS**

**Cartridge:** Weight: 0.16 kg. (0.35 lbs.)  
Steel with hardened work surfaces.  
Zinc-plated exposed surfaces.  
Buna N O-rings and polyester  
elastomer back-ups standard.

**Standard Ported Body:** Weight:  
0.34 kg. (0.75 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**

