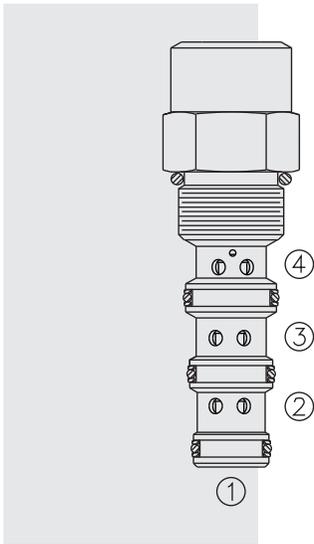


EC10-42 Pressure Compensator, Priority-on-Demand



DESCRIPTION

A screw-in, cartridge-style, priority-on-demand, pressure-compensator with a static 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 **EC10-42** 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

- Priority-on-demand.
- Static load sense.
- Hardened parts for long life.
- Quiet, modulated response.
- Industry common cavity.

RATINGS

Operating Pressure: Inlet: 240 bar (3500 psi)

Input Flow Rate: 45.4 lpm (12 gpm) maximum

Maximum Regulated Flow: 37.9 lpm (10 gpm) with 10.3 bar (150 psi) compensator spring; 30.2 lpm (8.0 gpm) with 5.5 bar (80 psi) compensator spring

Temperature: -40 to 100°C (-40 to 212°F) with Buna N seals;
-26 to 204°C (-15 to 400°F) with fluorocarbon 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

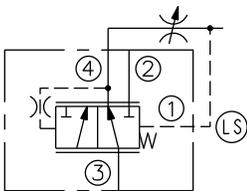
Installation: No restrictions; See page 9.020.1

Cavity: VC10-4; See page 9.110.1

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

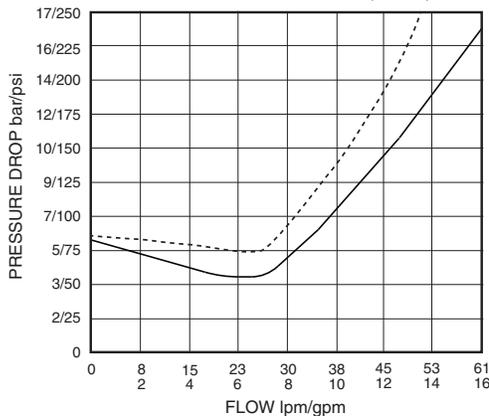
Seal Kit: SK10-4X-MMM; See page 8.650.1

ISO SYMBOL



PERFORMANCE (Cartridge Only)

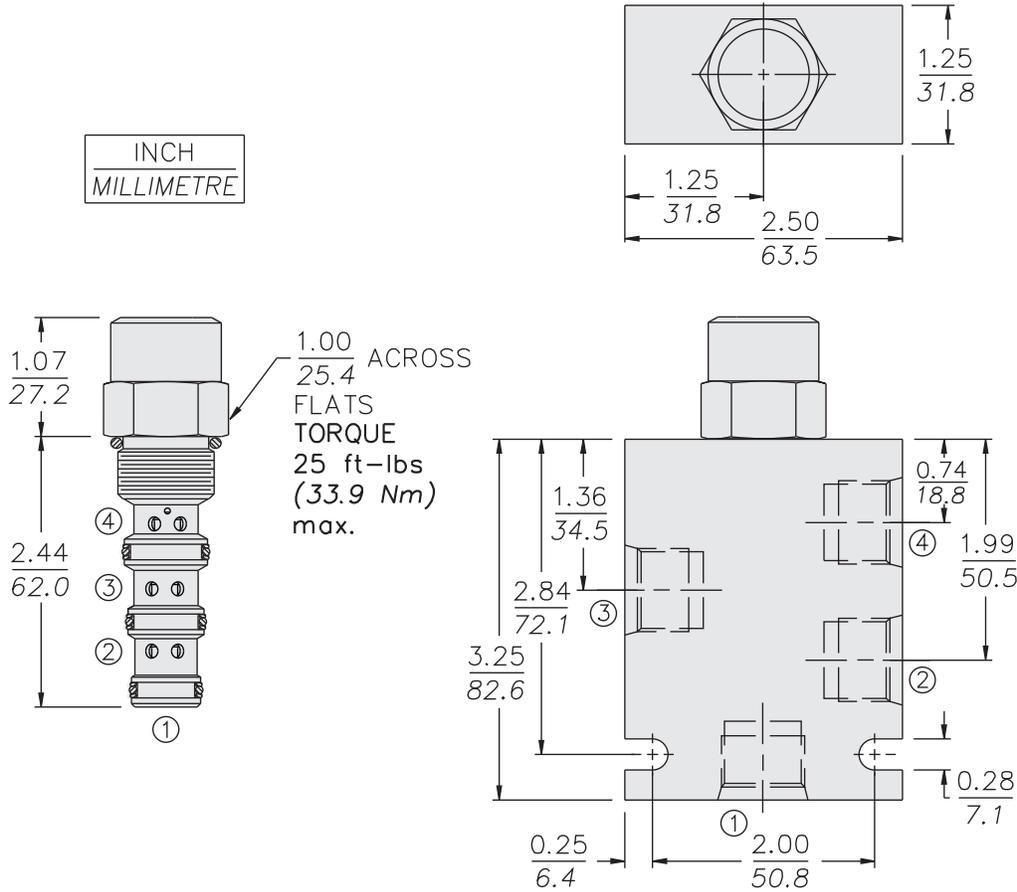
Pressure Drop vs. Inlet Flow
3 to 2; Port 4 closed; Port 2 no load
— 150 Spring 80 Spring
32 cSt/150 sus oil at 40°C (104°F)



with Static Load Sense

EC10-42

DIMENSIONS



MATERIALS

Cartridge: Weight: 0.16 kg (0.35 lb)
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 lb); Anodized high-strength aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.010.1

TO ORDER

EC10-42 -		Compensator Spring	
Porting		80	5.5 bar (80 psid)
Cartridge Only	0	150	10.3 bar (150 psid)
SAE 6	6T		
SAE 8	8T		
1/4 in. BSP*	2B		
3/8 in. BSP*	3B		
		Seals	
		N	Buna N (Std.)
		V	Fluorocarbon

*BSP Body;
U.K. Mfr. Only