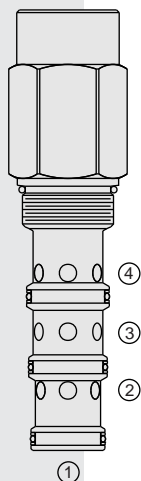


EC42-M40 Pressure Compensator



DESCRIPTION

A screw-in, cartridge-style pressure-compensating element intended for use with a remote fixed or variable orifice to yield a three-port (bypass-type), pressure-compensated, flow regulating hydraulic valve.

OPERATION

The **EC42-M40** maintains a constant flow rate from ③ regardless of load pressure changes in the circuit downstream of ③.

The cartridge maintains a constant differential pressure from circuit point “P” to port ③ (see symbol), thereby regulating the hydraulic flow rate between the two points in the circuit. The EC42-M40 is a priority type regulator, delivering pump flow first to ③, then bypassing excess to ②. 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 Inlet Flow: 302.8 lpm (80.0 gpm)

Maximum Regulated Flow: 151.1 lpm (40.0 gpm) with 5.5 bar (80 psi) compensating spring; 208.2 lpm (55.0 gpm) with 10.3 bar (150 psi) compensating spring

Maximum Bypass Flow: 170.3 lpm (45.0 gpm) with 5.5 bar (80 psi) compensating spring; 208.2 lpm (55.0 gpm) with 10.3 bar (150 psi) compensating 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

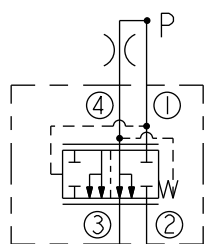
Cavity: VC42-M4; See page 9.142.1

Cavity Tool: CT42-M4XX; See page 8.600.1

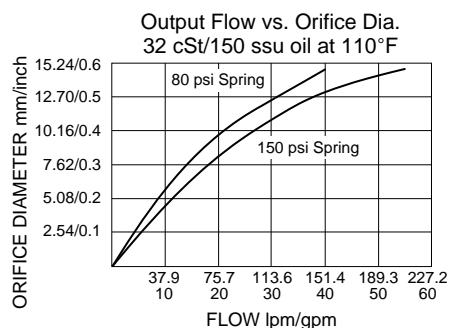
Seal Kit: SK42-4X-MMM; See page 8.650.1

SYMBOLS

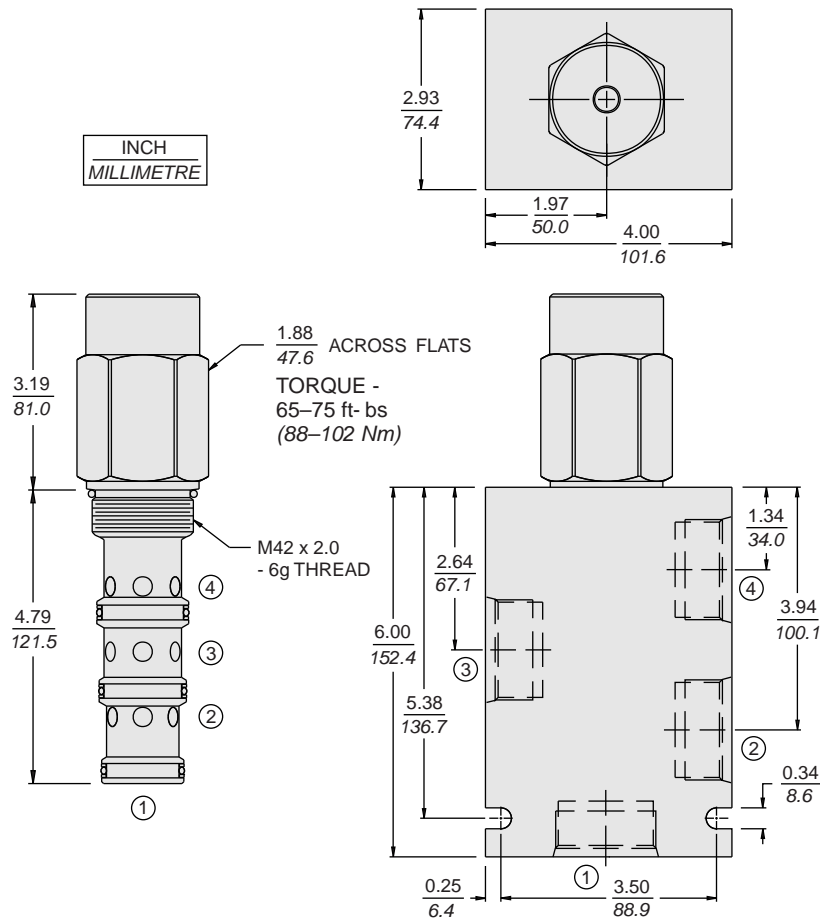
USASI/ISO:



PERFORMANCE (Cartridge Only)



DIMENSIONS



MATERIALS

Cartridge: Weight: 1.56 kg. (3.44 lbs.)
Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
Buna N O-rings and polyester
elastomer back-ups standard.

Standard Ported Body: Weight:
2.8 kg. (6.2 lbs.) Anodized high-
strength 6061 T6 aluminum alloy,
rated to 207 bar (3000 psi). Ductile
iron bodies available; dimensions
may differ. See page 8.042.1

TO ORDER

EC42-M40 -

Porting
Cartridge Only **0**
SAE 12 **12T**
SAE 16 **16T**
SAE 20 **20T**

Bias Spring
80 5.5 bar (80 psid)
150 10.3 bar (150 psid)

Seals
N Buna N (Std.)
V Fluorocarbon