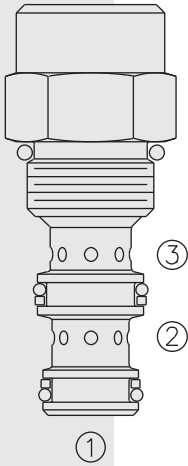# EC08-32   Pressure-Compensator w/Load Sense

DESCRIPTION

A screw-in, cartridge-style, load sense, flow-on-demand pressure-compensator.

OPERATION

With inlet flow at 2, the **EC08-32** will deliver required flow at 3 in response to load differential pressure sensed at 1.

FEATURES

• Range of flow ratings available.
• Hardened parts for long life.
• Several compensation springs available.
• Quiet, modulated response.
• Industry common cavity.

RATINGS

Operating Pressure: 241 bar (3500 psi)

Proof Pressure: 345 bar (5000 psi)

Burst Pressure: 1034 bar (15000 psi)

Flow Rate: Ranges from 5.7 lpm (1.5 gpm) to 30.3 lpm (8.0 gpm).

With 40 psi (2.7 bar) compensating spring 5.7 lpm (1.5 gpm)

With 80 psi (5.5 bar) compensating spring 11.4 lpm (3.0 gpm)

With 150 psi (10.3 bar) compensating spring 19 lpm (5.0 gpm)

With 250 psi (17.2 bar) compensating spring 30.3 lpm (8.0 gpm)

Maximum Internal Leakage: 20 ml/min. (1.2 cu.in./min.) at Port 1 with 241 bar (3500 psi) pressure at port 2 and port 3 blocked.

Temperature: -40 to 100°C (-40 to 212°F) with Buna N seals;
-35 to 204°C (-31 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
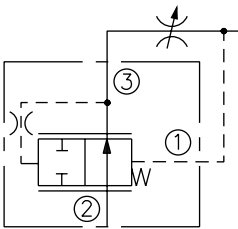
Installation: No restrictions; See page 9.020.1

Cavity: VC08-3; See page 9.108.1

Cavity Tool: CT08-3XX; See page 8.600.1

Seal Kit: SK08-3X-MM; See page 8.650.1

ISO SYMBOL

PERFORMANCE (Cartridge Only)

Flow Characteristic
Meter-Out Mode
32 cSt/150 sus oil at 40°C (104°F)

DIMENSIONS

INCH
MILLIMETRE

0.88 ACROSS
22.4 FLATS

TORQUE
19-21 ft. lbs.
(26-29 Nm)
Max Allowable
35 ft. lbs.
(47.5 Nm)

0.80
20.3

1.60
40.6

③
②
①

1.13
28.7

1.25
31.8
2.50
63.5

0.60
15.2

2.12
53.8 ③

2.62
66.5

1.17
29.7

②

0.28
7.1

0.25
6.4

① 2.00
50.8

ALUMINUM
BODY SHOWN

MATERIALS

Cartridge: Weight: 0.10 kg (0.22 lb)
Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
Buna N O-rings and back-ups
standard.

Standard Ported Body: Weight:
0.27 kg (0.60 lb) Anodized high-
strength aluminum alloy, rated to
207 bar (3000 psi). Ductile iron
bodies available; dimensions may
differ. See page 8.008.1.

TO ORDER

EC08-32 - __ __ __ **-** __ **-** __

Porting

Cartridge Only	**0**
SAE 6	**6T**
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)
150	10.3 bar (150 psid)
250	17.2 bar (250 psid)

Seals
N Buna N (Std.)
V Fluorocarbon