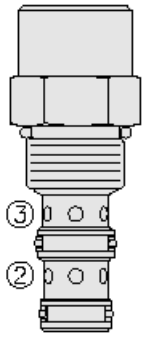
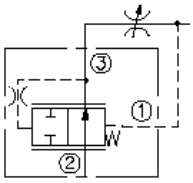
FLOW ON DEMAND PRESSURE COMPENSATING ELEMENT WITH STATIC LOAD SENSE

Overview



SYMBOL



Description

The EC10-32 is a screw-in, cartridge style, load sense, flow on demand, pressure compensator.

Operation

With inlet flow at port 2, port 3 will deliver required flow regardless of load pressure sensed at port 1. 0.021 in [0,53 mm] orifice is recommended to be installed in load sense line at port 1 for better stability.

Features

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

Ratings

Pressure Ratings

Pressure rating: 241 bar (3500 psi)

Flow Ratings

Flow rating: 18.9 lpm (5.0 gpm) note: With 2.8 bar (40 psi)compensating spring
28.0 lpm (7.5 gpm) note: With 5.5 bar (80 psi)compensating spring
38.1 lpm (10 gpm) note: With 10.3 bar (150 psi)compensating spring
57.0 lpm (15 gpm) note: With 17.2 bar (250 psi)compensating spring

Temperature Ratings

Operating fluid temperature: -40 to 100 °C (-40 to 212 °F) note: With buna N seals
-26 to 204 °C (-15 to 400 °F) note: With fluorocarbon seals
-54 to 107 °C (-65 to 225 °F) note: With polyurethane seals
Storage temperature: -40 to 70 °C (-40 to 160 °F)
Ambient temperature: -40 to 70 °C (-40 to 160 °F)

Other Ratings

Corrosion protection: 960 hr salt spray per ASTM b117 (model number - gec10-32)

Operating Parameters

Fluids: Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range: 7.4 to 420 cSt
Maximum operating contamination level: 18/16/13 per ISO 4406

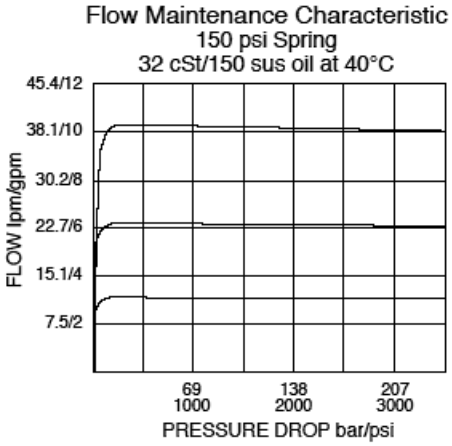
Properties

Unit weight: 0.16 kg (0.35 lb)

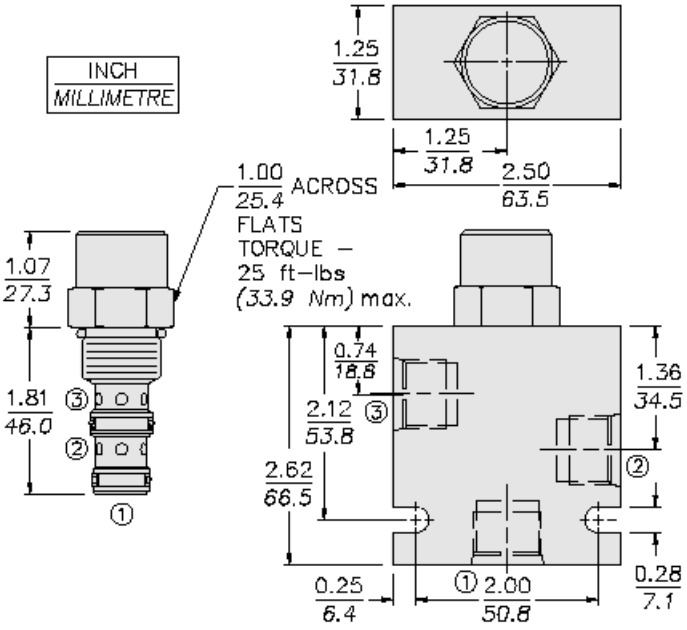
FLOW ON DEMAND PRESSURE COMPENSATING ELEMENT WITH STATIC LOAD SENSE

Internal wetted surface area: 145 cm^2 (22.4 in^2)

Performance



Dimensions



Installation Specifications

Cavity: VC10-3

10-size-3-way Cavities

Cartridge installation torque: 34 to 37 N-m (25 to 27 ft-lb)

Maximum allowable torque: 68 N-m (50 ft-lb)

Orientation restriction: None

FLOW ON DEMAND PRESSURE COMPENSATING ELEMENT WITH STATIC LOAD SENSE

Accessories

Seal kit: SK10-3X-MM

Seal kit installation instructions

Housings: Available 10-3w valve bodies

Order Code

EC10-32 - __ __ __ - __ - __

Porting

Cartridge Only	**0**
SAE 6	**6T**
SAE 8	**8T**
1/4 in. BSP*	**2B**
3/8 in. BSP*	**3B**

*BSP Body; U.K. Mfr. Only

Seals

N	Buna N (Std.)
V	Fluorocarbon
P	Polyurethane

Compensator Spring

40	2.8 bar (40 psid)
80	5.5 bar (80 psid)
150	10.3 bar (150 psid)

Model Options

EC10-32-H-J-R

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6
8TD	Ductile Iron SAE 8
3B	Aluminum BSPP 3/8" (3)
3BD	Ductile Iron BSPP 3/8" (3)

J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
P	Polyurethane
U	PPDI Urethane

R Compensator Spring

CODE	DESCRIPTION
40	40 Compensator Spring
80	80 Compensator Spring
150	150 Compensator Spring
250	250 Compensator Spring