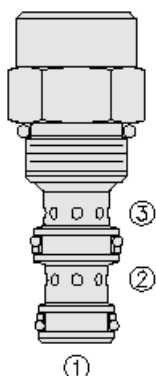




## Overview



### Description

EC08-32 is a screw-in, cartridge style, load sense, flow on demand, pressure compensator valve.

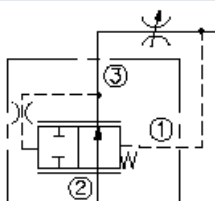
### Operation

With inlet flow at port 2, the EC08-32 will deliver required flow at port 3 regardless of load pressure sensed at port 1.

### Features

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

### Symbol



## Ratings

### Pressure Ratings

|                 |                      |
|-----------------|----------------------|
| Pressure rating | 241 bar (3500 psi)   |
| Proof pressure  | 345 bar (5000 psi)   |
| Burst pressure  | 1034 bar (15000 psi) |

### Flow Ratings

|                          |                                      |                                                                                        |
|--------------------------|--------------------------------------|----------------------------------------------------------------------------------------|
| Flow rating              | 5.7 lpm (1.5 gpm)                    | - <b>Note:</b> With 2.7 bar (40 psi)compensating spring                                |
|                          | 11.4 lpm (3.0 gpm)                   | - <b>Note:</b> With 5.5 bar (80 psi)compensating spring                                |
|                          | 19 lpm (5.0 gpm)                     | - <b>Note:</b> With 10.3 bar (150 psi)compensating spring                              |
|                          | 30.3 lpm (8.0 gpm)                   | - <b>Note:</b> With 17.2 bar (250 psi)compensating spring                              |
| Maximum internal leakage | 20 ml/min (1.2 in <sup>3</sup> /min) | - <b>Note:</b> At port 1 with pressure at port 2 and port 3 blocked 241 bar (3500 psi) |

### Temperature Ratings

|                             |                               |                                        |
|-----------------------------|-------------------------------|----------------------------------------|
| Operating fluid temperature | -40 to 100 °C (-40 to 212 °F) | - <b>Note:</b> With buna N seals       |
|                             | -35 to 204 °C (-31 to 400 °F) | - <b>Note:</b> With fluorocarbon 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 - gec08-32) |
|----------------------|-----------------------------------------------------------|

## Operating Parameters

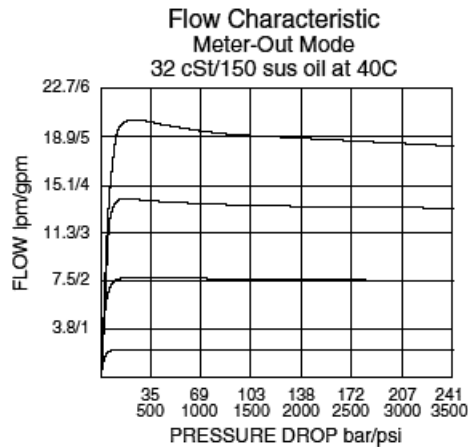
|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| Fluids                                | Mineral based or synthetic hydraulic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

## Properties

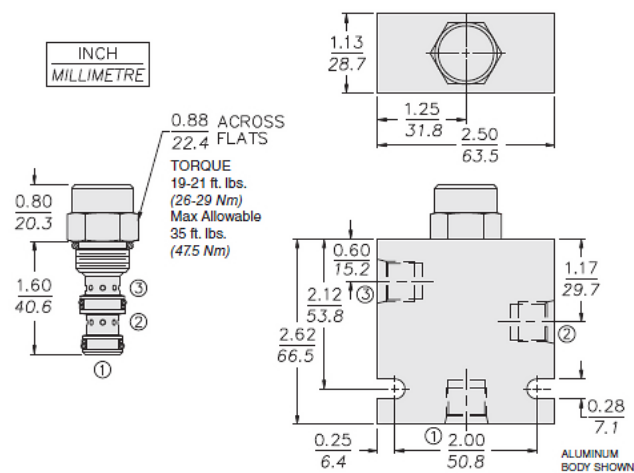
|                              |                                             |
|------------------------------|---------------------------------------------|
| Unit weight                  | 0.1 kg (0.22 lb)                            |
| Internal wetted surface area | 105 cm <sup>2</sup> (16.2 in <sup>2</sup> ) |



## Performance



## Dimensions



## Installation Specifications

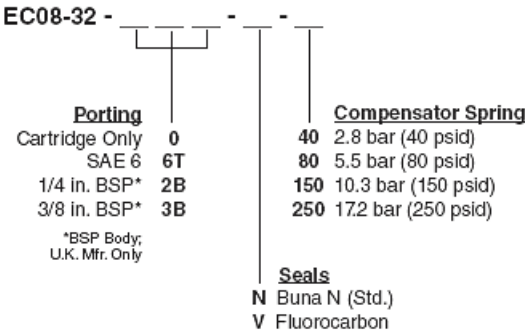
|                               |                               |
|-------------------------------|-------------------------------|
| Cavity                        | VC08-3                        |
| Cartridge installation torque | 26 to 29 N-m (19 to 21 ft-lb) |
| Maximum allowable torque      | 47.5 N-m (35 ft-lb)           |
| Orientation restriction       | None                          |

## Accessories

|          |            |                                |
|----------|------------|--------------------------------|
| Seal kit | SK08-3X-MM | - <b>Note:</b> X = seal option |
|----------|------------|--------------------------------|



Order Code



Model Options

EC08-32-H-J-R

H Line Body

| CODE | DESCRIPTION                |
|------|----------------------------|
| 0    | No Body                    |
| 4T   | Aluminum SAE 4             |
| 6T   | Aluminum SAE 6             |
| 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 |