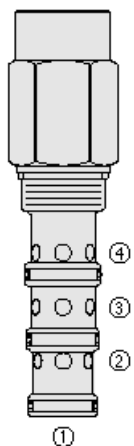




## Overview



### Description

EC42-M42 is a screw-in, cartridge style, priority on demand pressure compensator with static load sense, intended to provide priority flow in required amount, while allowing excessive flow to be used for auxiliary functions.

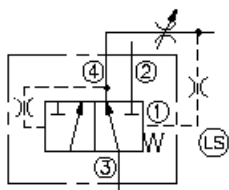
### Operation

With inlet flow at port 3, port 4 will deliver required priority flow regardless of load pressure. Excessive flow exits at port 2. Port 1 is the load sense port. All ports may be fully pressurized.

### Features

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

## Symbol



## Ratings

### Pressure Ratings

|                 |                     |
|-----------------|---------------------|
| Pressure rating | 241 bar (3500 psi)  |
| Proof pressure  | 345 bar (5000 psi)  |
| Burst pressure  | 896 bar (15000 psi) |

### Flow Ratings

|                      |                  |                                                       |
|----------------------|------------------|-------------------------------------------------------|
| Inlet flow rating    | 303 lpm (80 gpm) |                                                       |
| Priority flow rating | 246 lpm (65 gpm) | - <b>Note:</b> Maximum, with spring 15 bar (220 psi)  |
|                      | 208 lpm (55 gpm) | - <b>Note:</b> Maximum, with spring 10 bar (150 psi)  |
|                      | 170 lpm (45 gpm) | - <b>Note:</b> Maximum, with spring 7.6 bar (110 psi) |
|                      | 151 lpm (40 gpm) | - <b>Note:</b> Maximum, with spring 5.5 bar (80 psi)  |

### Temperature Ratings

|                             |                               |                                        |
|-----------------------------|-------------------------------|----------------------------------------|
| Operating fluid temperature | -40 to 120 °C (-40 to 250 °F) | - <b>Note:</b> With buna N seals       |
|                             | -26 to 204 °C (-15 to 400 °F) | - <b>Note:</b> With fluorocarbon seals |
|                             | -54 to 107 °C (-65 to 225 °F) | - <b>Note:</b> With polyurethane seals |
| Storage temperature         | -40 to 70 °C (-40 to 160 °F)  |                                        |
| Ambient temperature         | -40 to 70 °C (-40 to 160 °F)  |                                        |

## Operating Parameters

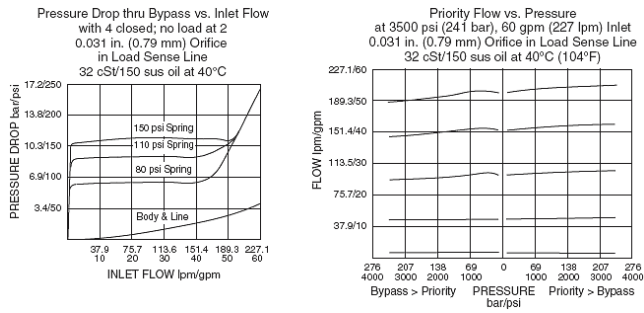
|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| Fluids                                | Mineral based or synthetic hydraulic fluid with lubricating properties |
| Fluid viscosity range                 | 7.4 to 400 cSt                                                         |
| Maximum operating contamination level | 18/16/13 per ISO 4406                                                  |

## Properties

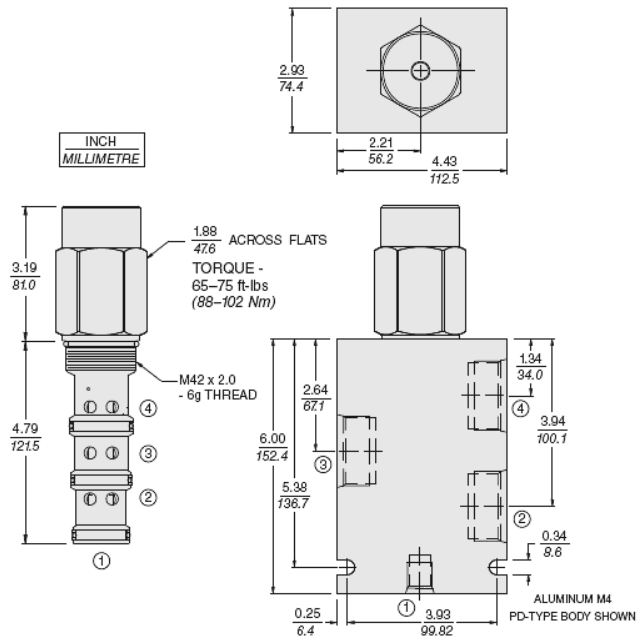
|                              |                                                |
|------------------------------|------------------------------------------------|
| Unit weight                  | 1.56 kg (3.44 lb)                              |
| Internal wetted surface area | 738.1 cm <sup>2</sup> (114.4 in <sup>2</sup> ) |



## Performance



## Dimensions



## Installation Specifications

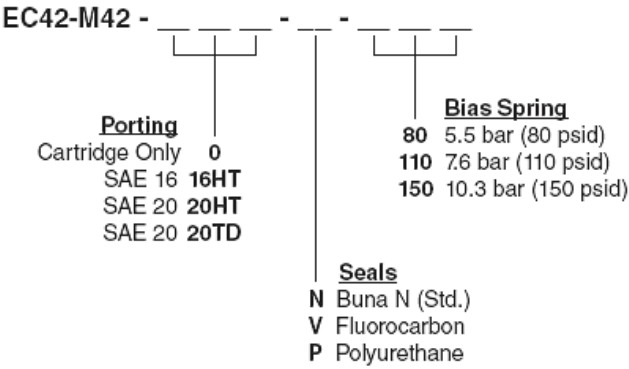
|                               |                                |
|-------------------------------|--------------------------------|
| Cavity                        | VC42-M4                        |
| Cartridge installation torque | 88 to 102 N-m (65 to 75 ft-lb) |
| Orientation restriction       | None                           |

## Accessories

|          |             |                                |
|----------|-------------|--------------------------------|
| Seal kit | SK42-4X-MMM | - <b>Note:</b> X = seal option |
|----------|-------------|--------------------------------|



Order Code



Model Options

EC42-M42-H-J-R

H Line Body

| CODE | DESCRIPTION     |
|------|-----------------|
| 0    | No Body         |
| 16T  | Aluminum SAE 16 |
| 20T  | Aluminum SAE 20 |

J Seal

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

R Compensator Spring

| CODE | DESCRIPTION            |
|------|------------------------|
| 80   | 80 Compensator Spring  |
| 110  | 110 Compensator Spring |
| 150  | 150 Compensator Spring |
| 220  | 220 Compensator Spring |