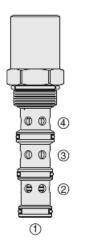


# **Overview**



### **Description**

EC56-42 is a screw-in, cartridge style, priority on demand pressure compensator valve with static load sense. Intended to provide priority flow in required amount, while allowing excessive flow to be used for auxiliary functions.

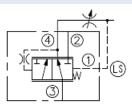
#### **Operation**

With inlet flow at port 3, the EC56-42 will deliver required priority flow at port 4 regardless of load pressure. Excessive flow exits at port 2 and port 1 is the load sense port. All ports may be fully pressurized.

#### **Features**

- · High pressure.
- · Priority-on-demand
- · Static load-sense.
- · Hardened parts for long life.
- · Quiet, modulated response.
- · Industry common cavity.
- Optional corrosion-resistant plating for 960-hour salt spray per ASTM B117.

# **Symbol**



# **Ratings**

Pre	ssure	Ratin	qs

Pressure rating 345 bar (5000 psi)
Proof pressure 690 bar (10000 psi)
Burst pressure 1275 bar (18500 psi)

### Flow Ratings

Inlet flow rating

115 lpm (30.0 gpm)
psi)

150 lpm (40.0 gpm)
(150 psi)

- Note: Maximum, with compensating spring 5.5 bar (80
- Note: Maximum, with compensating spring 10.3 bar

189 lpm (50.0 gpm)

- Note: Maximum, with compensating spring 15.2 bar (220 psi)

Priority flow rating

- Note: 80% of input flow when priority pressure exceeds bypass pressure.
50% of input flow when bypass pressure exceeds priority pressure

### **Temperature Ratings**

Operating fluid temperature

-40 to 100 °C (-40 to 212 °F)
-26 to 204 °C (-15 to 400 °F)

-54 to 107 °C (-65 to 225 °F)
-54 to 107 °C (-65 to 225 °F)
-54 to 70 °C (-40 to 160 °F)

-40 to 70 °C (-40 to 160 °F)

# **Operating Parameters**

Ambient temperature

Fluids Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt

Maximum operating contamination 18/16/13 per ISO 4406

level

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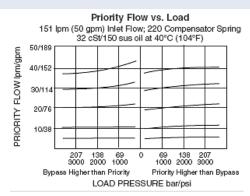
### PRIORITY ON DEMAND PRESSURE COMPENSATOR WITH STATIC LOAD SENSE

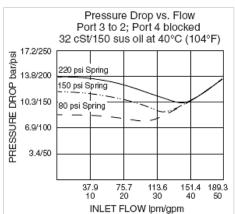


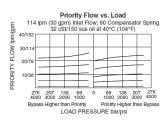
# **Properties**

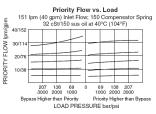
Unit weight 0.67 kg (1.48 lb) Internal wetted surface area 425 cm² (65.9 in²)

# **Performance**

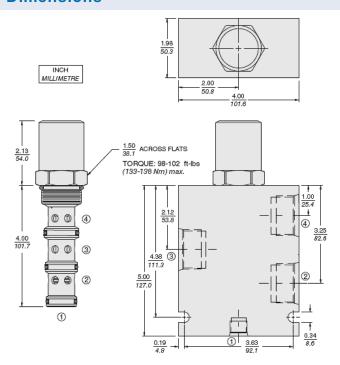








# **Dimensions**



# **Installation Specifications**

Cavity VC16-4

Cartridge installation torque 133 to 138 N-m (98 to 102 ft-lb)

Orientation restriction None

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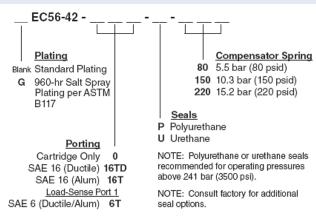
# **Accessories**

Seal kit

SK16-4X-MMM - Note: X = seal option

SK10-4U-0 - Note: Urethane

# **Order Code**



### **Model Options**

EC56-42-H-J-R

# **H Line Body**

CODE	DESCRIPTION
0	No Body
12TD	Ductile Iron SAE 12
16TD	Ductile Iron SAE 16

### J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
Р	Polyurethane

# R Compensator Spring

CODE	DESCRIPTION
80	80 Compensator Spring
150	150 Compensator Spring

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