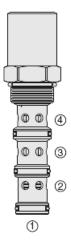


## Overview



## **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.

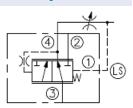
#### <u>Operation</u>

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.

## <u>Features</u>

- 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

<u>Pressure Ratings</u>		
Pressure rating	345 bar (5000 psi)	
Proof pressure	690 bar (10000 psi)	
Burst pressure	1275 bar (18500 psi)	
<u>Flow Ratings</u>		
Inlet flow rating	115 lpm (30.0 gpm) - <b>Not</b> o psi)	e: Maximum, with compensating spring 5.5 bar (80
	. ,	e: Maximum, with compensating spring 10.3 bar
	189 lpm (50.0 gpm) - Not (220 psi)	e: Maximum, with compensating spring 15.2 bar
Priority flow rating		when priority pressure exceeds bypass pressure. s pressure exceeds priority pressure
<u>Temperature Ratings</u>		
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) -54 to 107 °C (-65 to 225 °F)	<ul> <li>Note: With polyurethane seals</li> <li>Note: With urethane seals</li> </ul>
Storage temperature	-40 to 70 °C (-40 to 160 °F)	- Note: With drethane seals
Ambient temperature	-40 to 70 °C (-40 to 160 °F)	

## **Operating Parameters**

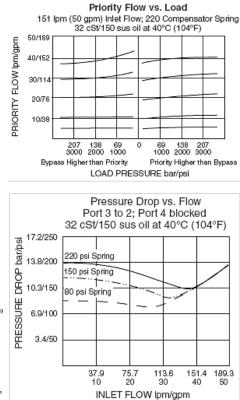
Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination	18/16/13 per ISO 4406
level	



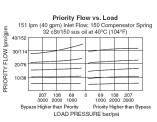
# **Properties**

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

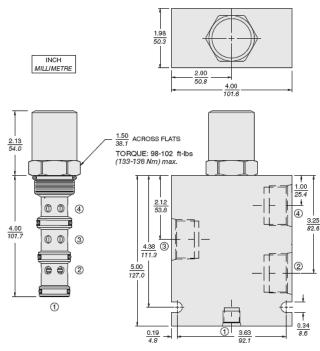
## Performance



#### Priority Flow vs. Load 32 cSt150 uso liat 40°C (104°F) 40°152 40°



# Dimensions



# **Installation Specifications**

## Cavity Cartridge installation torque Orientation restriction

VC16-4 133 to 138 N-m (98 to 102 ft-lb) None

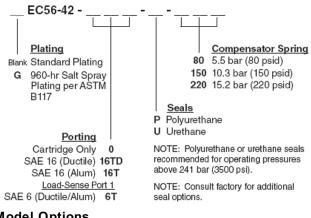


# **Accessories**

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
Ν	Buna-N
V	Fluorocarbon
Р	Polyurethane

#### **R** Compensator Spring

CODE	DESCRIPTION
80	80 Compensator Spring
150	150 Compensator Spring