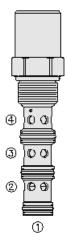


## Overview



### **Description**

EC12-42 is a screw-in, cartridge style, priority on demand pressure compensator valve with static load sense. It is intended to provide priority flow in required amount, while allowing excessive flow to be used for auxiliary functions.

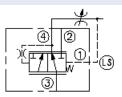
#### **Operation**

With inlet flow at port 3, the EC12-42 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>

- Priority-on-demand.
- Static load sense.
- Hardened parts for long life.
- Quiet, modulated response.
- Industry-common cavity.

### Symbol



### Ratings

<u>Pressure Ratings</u>		
Pressure rating	345 bar (5000 psi)	
<u>Flow Ratings</u>		
Inlet flow rating	68 lpm (18.0 gpm) psi)	- Note: Maximum, with compensating spring 5.5 bar (80
	83 lpm (22.0 gpm) psi)	- Note: Maximum, with compensating spring 7.6 bar (110
	95 ĺpm (25.0 gpm) (160 psi)	- Note: Maximum, with compensating spring 11.0 bar
	132 lpm (35.0 gpm) (220 psi)	- Note: Maximum, with compensating spring 15.2 bar
Priority flow rating	Up to 80% of input flo	W
<u>Temperature Ratings</u>		
Operating fluid temperature	-40 to 100 °C (-40 to -26 to 204 °C (-15 to -54 to 107 °C (-65 to	400 °F) - Note: With fluorocarbon seals
Storage temperature	-40 to 70 °C (-40 to 1	60 °F)
Ambient temperature	-40 to 70 °C (-40 to 1	60 °F)

### **Operating Parameters**

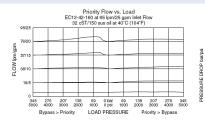
Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination	18/16/13 per ISO 4406
level	

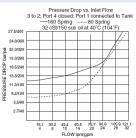
### **Properties**

Unit weight	0.44 kg (0.97 lb)
Internal wetted surface area	304 cm² (47.1 in²)

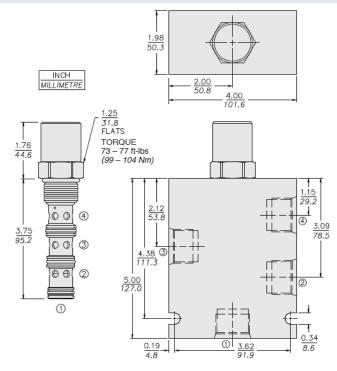


# Performance





### Dimensions



## **Installation Specifications**

Cavity	VC12-4
Cartridge installation torque	99 to 104 N-m (73 to 77 ft-lb)
Orientation restriction	None

### Accessories

Seal kit

SK12-4X-MMM • Note: X = seal option



# Order Code

EC12-42	
Porting Cartridge Only 0 SAE 10 10T SAE 12 12T	Compensator Spring   80 5.5 bar (80 psi)   160 11.0 bar (160 psi)
	N Buna N (Std.)
Cartridge Only 0 SAE 10 10T	Seals

- V Fluorocarbon P Polyurethane
- Note: Polyurethane seals required for operation over 241 bar (3500 psi).

### Model Options

### EC12-42-H-J-R

### H Line Body

CODE	DESCRIPTION
0	No Body
10T	Aluminum SAE 10
12T	Aluminum SAE 12
12TD	Ductile Iron SAE 12
6B	Aluminum BSPP 3/4" (6)

#### J Seal

CODE	DESCRIPTION
Ν	Buna-N
V	Fluorocarbon
Р	Polyurethane
U	PPDI Urethane

### **R** Compensator Spring

CODE	DESCRIPTION
80	80 Compensator Spring
110	110 Compensator Spring
160	160 Compensator Spring
220	220 Compensator Spring