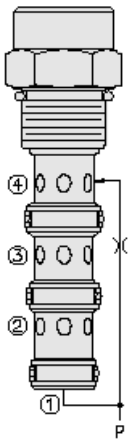
Overview



Description

A screw in, cartridge style pressure compensating element,intended for use with a remote fixed or variable orifice to yield a three port (bypass type), pressure compensated, flow - regulating hydraulic valve.

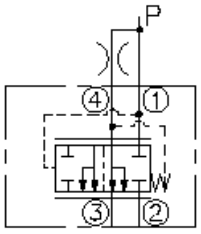
Operation

The EC12-40 maintains a constant flow rate from port 3 regardless of load pressure changes in the circuit downstream of port 3. The cartridge maintains a constant differential pressure from circuit point P to port 3 (see USA/SI symbol), thereby regulating the hydraulic flow rate between the two points in the circuit. The EC12-40 is a priority type regulator, delivering pump flow first to port 3, then bypassing excess to port 2. All ports maybe fully pressurized.

Features

- Hardened parts for long life.
- Quiet, modulated response.
- Cost-effective cavity.

Symbol



Ratings

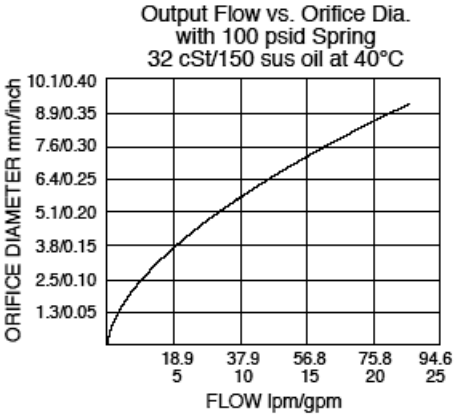
Pressure Ratings

Pressure rating	240 bar (3500 psi)

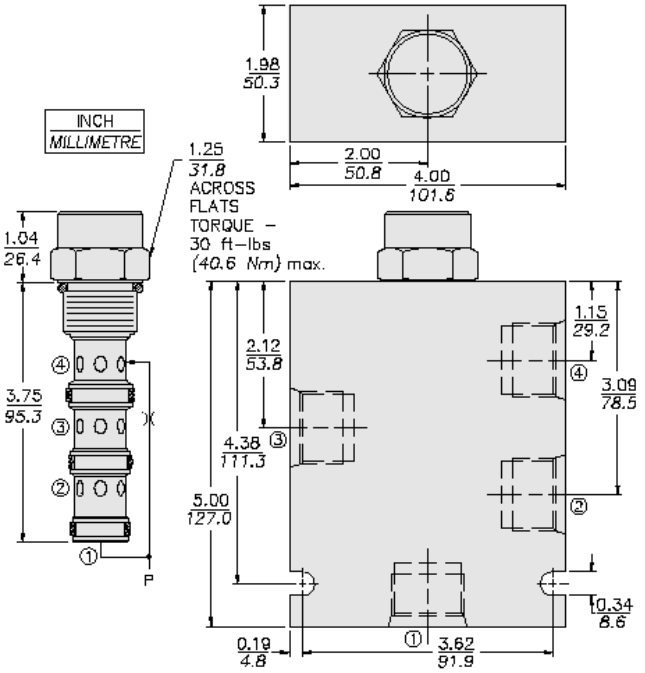
Flow Ratings

Inlet flow rating	120 lpm (32 gpm) **- Note:** Maximum
Regulated flow	80 lpm (21 gpm) **- Note:** Maximum, with spring 11 bar (160 psi)
Flow maintenance	% **- Note:** From 7.57 to 75.7 lpm (2 to 20 gpm)

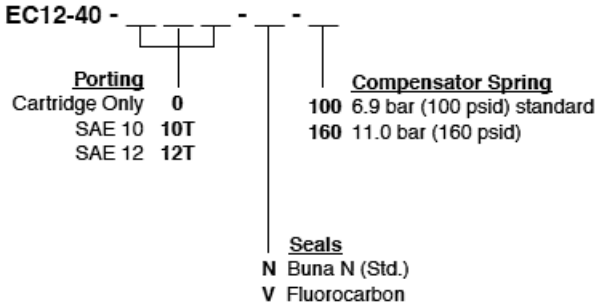
Performance



Dimensions


INCH
MILLIMETRE
1.98
50.3
2.00
50.8
4.00
101.6
1.25
31.8
ACROSS
FLATS
TORQUE –
30 ft–lbs
(40.6 Nm) max.
1.04
26.4
3.75
95.3
2.12
53.8
4.38
111.3
5.00
127.0
1.15
29.2
3.09
78.5
0.34
8.6
0.19
4.8
3.62
91.9
④
③
②
①
P

Order Code



Model Options

EC12-40-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
N	Buna-N
V	Fluorocarbon
P	Polyurethane
U	PPDI Urethane

R Compensator Spring

CODE	DESCRIPTION
60	60 Compensator Spring
75	75 Compensator Spring
100	100 Compensator Spring
160	160 Compensator Spring