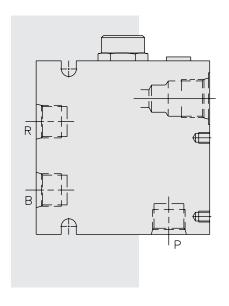
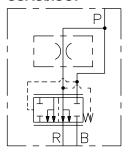
# ECV10-44 In-Line Pressure Compensator w/Control Cavity

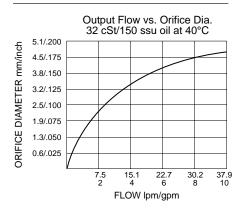


#### **SYMBOL**

#### **USASI/ISO:**



## PERFORMANCE (EC Cartridge Only)



#### **DESCRIPTION**

The ECV10-44 is a standard model EC10-40 in a convenient in-line plumbed body with an integral control cartridge cavity VC10-2. Addition of needle valves, rotary valves, electro-proportional valves, etc. allow for infinitely variable pressure-compensated priority flow output.

#### **OPERATION**

The **ECV10-44** maintains a constant flow rate from port R regardless of load pressure changes in the circuit downstream of port R.

The cartridge maintains a constant differential pressure from port P to port R (see USASI Symbol), thereby regulating the hydraulic flow rate between the two ports. The ECV10-44 is a priority type regulator, delivering pump flow first to R, then bypassing excess to B. All ports may be fully pressurized. Flow output is a function of the flow required to maintain a pressure drop as determined by the compensating spring value. The control cavity is cartridge port ② in, cartridge port ① out, so all cartridge restrictions on ① to ② use apply.

#### **FEATURES**

- Hardened parts for long life.
- Quiet, modulated response.
- · Panel-mount capability.
- · Lock-down bracket holes.

#### **RATINGS**

**Operating Pressure:** 207 bar (3000 psi) **Flow Rate:** Determined by control used

Standard Compensator Bias Spring: 5.5 bar (80 psid)

Flow Maintenance:

0.38 to 1.86 lpm (0.1 to 0.49 gpm) settings  $\pm 20\%$ ; 1.89 to 5.64 lpm (0.5 to 1.49 gpm) settings  $\pm 15\%$ ; 5.68 to 37.85 lpm (1.5 to 10 gpm) settings  $\pm 10\%$ 

**Temperature:** -40 to 120°C **Filtration:** See page 9.010.1.

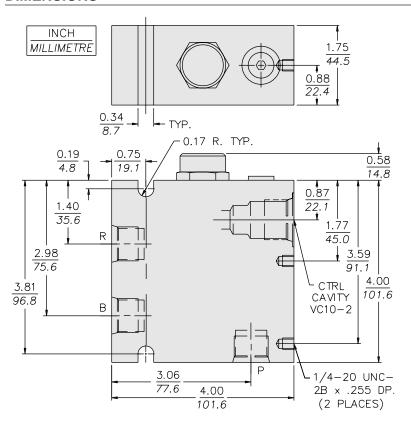
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

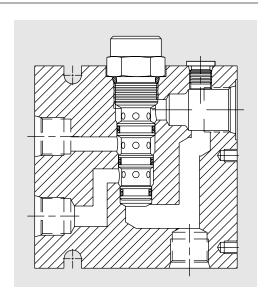
**Installation:** No restrictions; See page 9.020.1 **Seal Kit:** Refer to EC10-40 data, page 5.482.1



## ECV10-44

#### **DIMENSIONS**





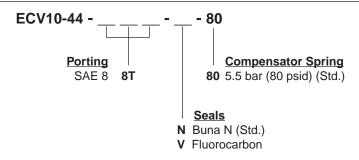
NOTE: EUROPEAN MANUFACTURED VERSION MAY DIFFER IN DESIGN/DIMENSIONS.
CONSULT HYDRAFORCE HYDRAULICS LTD.

### **MATERIALS**

Cartridge: Weight: 0.11 kg. (0.25 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-ups standard.

**Standard Ported Body:** Weight: 1.13 kg. (2.5 lbs.) Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi).

#### TO ORDER



∰°HYDRAFORCE.com 5.522.2