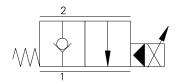
www: e-mail:

www.salushydraulics.pl pl@salushydraulics.pl ESV1-10-C - Proportional valve shop/sklep: www.sklep.salushydraulics.pl

Proportional flow control, normally closed, poppet Up to 70 L/min (18.5 USgpm) • 210 bar (3000 psi)

# Eaton ESV1-10-0



### **Operation**

In the de-energized position, this valve blocks flow from port 2 to port 1 and free flow is allowed from port 1 to port 2.

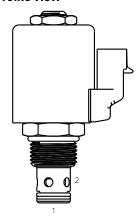
#### In the energized position, flow from port 1 to port 2 is restricted while free flow is allowed from port 2 to port 1. The valve flow is proportional to the current applied to the coil.

#### **Features**

Hardened and ground working parts to give long life and very low leakage. IP69K Tough coil compatibility, continuously rated. Compact design with low pressure drop.

## **Profile view**

В



#### Performance data

#### Ratings and specifications

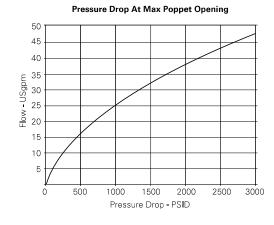
g. and appearance	
Performance data is typical with fluid at 21,8 cST (105 SUS,	and 49°C (120°F)
Typical application pressure	210 bar (3000 psi)
Cartridge endurance rating	1 million cycles
Cartridge fatigue pressure rating (NFPA/T2.6.1 R2-2000)	210 bar (3000 psi)
Rated flow	@ 500 psid, 18.5 gpm min, 19.4 gpm nom
Leakage (fully closed)	5 drops/min max @ 3000 psi
Nominal supply voltage	12/24 VDC
Current to open valve	900-1000 mA (12V coil), 450-500 mA (24V coil)
Temperature range	-30° to 90°C (-22° to 194°F)
Maximum oil temperature	120°C (248°F)
Maximum internal oil temperature	200°C (392°F)
Cavity	C-10-2
Fluids	All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20, etc.
Filtration	Cleanliness code 18/16/13
Housing material (standard)	Aluminum
Hysterisis	1 USgpm with dither
Weight cartridge only	.13 kg (.28 lbs)
Seal kit	0565803 (Buna-N), 0566086 (Viton®)
	·

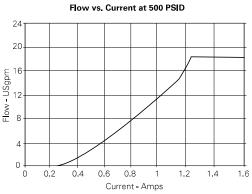
Viton is a registered trademark of E.I. DuPont

## **Description**

This is a 2 way 2 position, pilot operated poppet type, normally closed, proportional flow control screw in cartridge valve. Ideal for lowering circuits or in conjunction with pressure compensators to provide proportional flow control to any actuator.

#### Pressure drop curves





Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

# Model code

ESV<sub>1</sub>

# **Function**

ESV1 - Proportional flow control

# Size

**10 -** 10 size

# 3 Seal material

Blank - Buna-N V - Viton

# 4 Style

C - Normally closed

# 5 Housing material

Blank - Cartridge only A - Aluminum

# Port size

Code	Port size	Housing number
		Aluminium
0	Cartridge only	
3B	3/8" BSPP	02-175462
6T	SAE 6	566151
3G	3/8" BSPP	876703
6H	SAE 6	876700
8H	SAE 8	876701

See section J for housing details.

8 Type of power

Blank - No coil **D** - DC w/o diode

B - DC w/o diode

#### 7 Coil voltage 9 Connector type

0 - No coil Blank - No coil

G - ISO 4400 DIN 43650 12D - 12VDC 24D - 24VDC

**Q** - Spade Terminals

W - Flying Lead

N - Deutsch (DC only)

Y - Amp JR (DC only)

P - Conduit

For coil part numbers and dimensions see section C.

#### 10 Coil series

Blank - No coil J-J Series, 20 W

For coil part numbers and dimensions see section C.

# 11 Coil special features

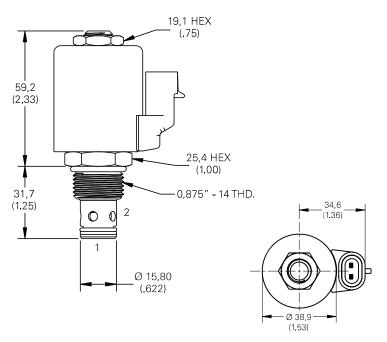
Blank - No coil 00 - No special feature

## 12 Valve special features Blank - None

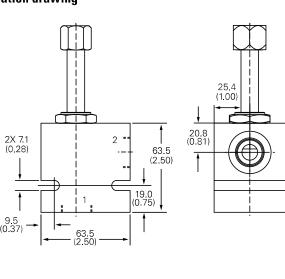
## **Dimensions**

mm (inch)

### Cartridge only



## Installation drawing



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.