# **Proportional Valves**

## ESV1-10-O

Proportional Flow Control Valve, Poppet Type, Normally Open, Pilot Operated, Non-Compensated

210 bar [3000 psi] • 70 l/min [18.5 US gpm]

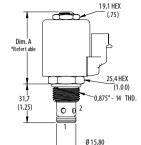
#### **■ DESCRIPTION AND OPERATION**

This is a 2-way, poppet type, normally open, pilot operated non compensated proportional valve. In the de-energized condition, flow passes from port 2 to 1 but is restricted from port 1 to 2. Energizing the coil will proportionally push the poppet towards the seat closing port 2 to 1, while allowing free flow from port 1 to 2. Used in conjunction with a compensator, the valve will act as the control orifice for a pressure compensated flow control.

# DIMENSIONS

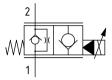
mm [in]

Coil Nut Torque 9-13 Nm (7-10 ft lbs)



Installation torque A - 47-54 Nm [35-40 ft. lbs]

### **SCHEMATIC**



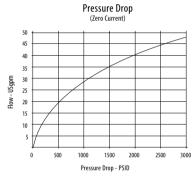
#### **■ PERFORMANCE DATA**

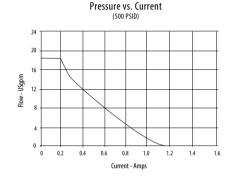
# EN ONMANCE DATA

210 bar [3000 psi]
70 l/min [18.5 US gpm]
5 drops/min max @ 3000 psi
120 Hz
15%
1000-1200 mA [12 VDC coil]
500-600 mA [24 VDC coil]
J series
0.13 kg [0.28 lb]
SDC10-2

<sup>\*</sup>Rated pressure based on NFPA fatigue test standards (at 1 million cycles)

#### **PERFORMANCE CURVES**





Danfoss

### MODEL CODE

