Bell Hydromatics
Proportional Valve

EDG-01

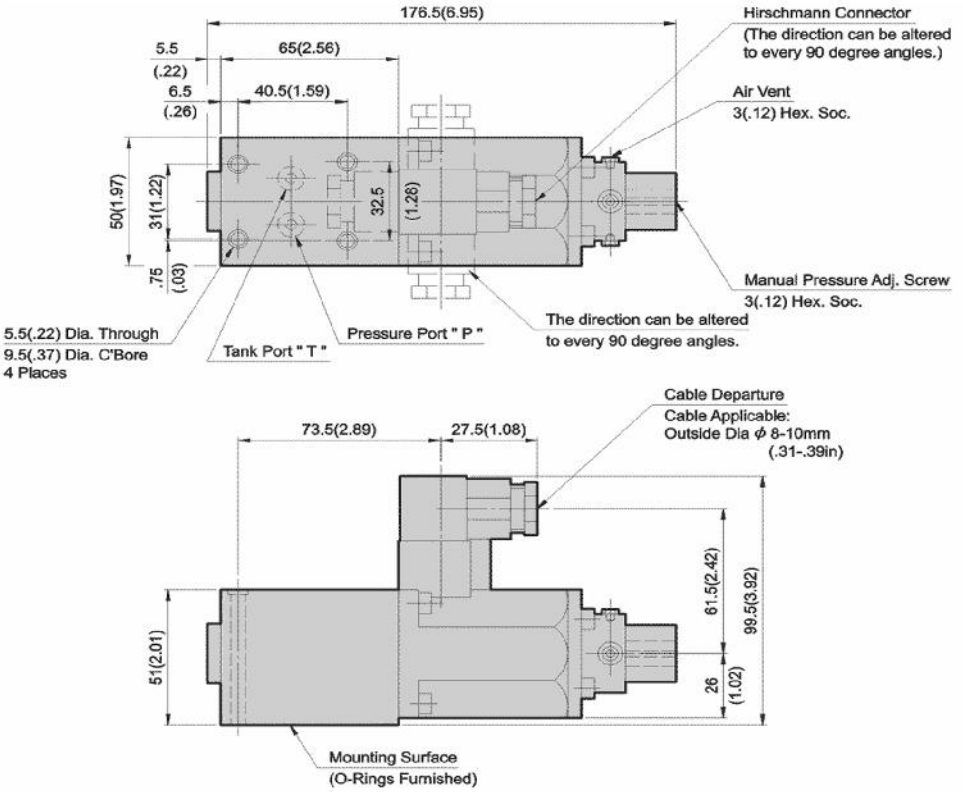
Note :

1. It is recommended that the return pipe is connected directly back to tank below the fluid level.

2. The specification chart to the right relates to performance achievable using HNC standard electronic controller type HNC-1085 and a pump flow of 2 lpm at oil temperature 45°C / 113°F and viscosity 45 cSt.

Dimensions

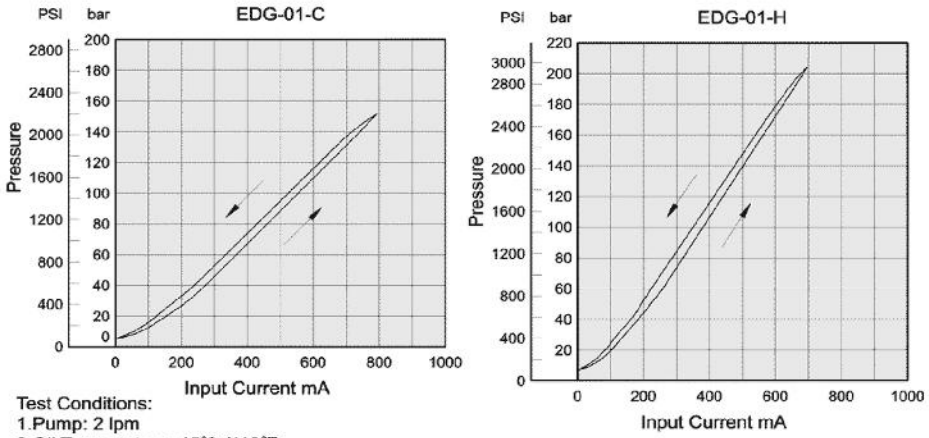
Proportional Electro-Hydraulic Pilot Relief Valves – Dimensions



Name	Description	Tightening Torque	Code
Attachment Soc.Hd.Cap Screw:	M5X50LgX4pcs	5-7 Nm	20
Attachment Soc.Hd.Cap Screw:	No.10-24UNCX1-3/4"LgX4pcs	43-60 in.lbs	2090

Performance Curves

EDG-01 Proportional Electro-Hydraulic Pilot Relief Valves



Test Conditions:
1.Pump: 2 lpm
2.Oil Temperature: 45℃ /113℉
3.Hydraulic Oil Viscosity: 45cSt

EDG-01 Proportional Electro-Hydraulic Pilot Relief Valves Operating Data

Position For Installation:

To install the pilot valve correctly mount with "bleed" up-wards in order to eliminate air and reduce the risk of air entrapment when used in conjunction with another main proportional valve.For a steady control pressure ensure that the pilot pressure pipe hoses does not exceed 30 cm.

Elimination Of Air(Air Vent) :

Set the pilot control pressure to 29.4bar(420PSI) and oper the bleed screw to eliminate the air.Lock the bleed screw when all air bubbles have been eliminated.

Manual Over-Ride:

It is possible to set the control pressure manually for commissioning and trouble shooting purposes.

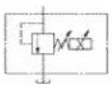
Drain

Ensure that the return oil is piped back to tank directly and below the oil level.

EDG-01 Proportional Electro-Hydraulic Pilot Relief Valves General Information

1. Simplified piping system as result of using only one remote electrically operated pilot relief valve for multiple functions requiring different pressure settings.
2. Step-less pressure control proportional to input current. 24V DC control and 0-10 volts reference single.
3. Good response with executer to reduce resonance.
4. Standard HNC electronic controller type HNC-1085 for best results.
5. Standard electrical connector to DIN 43650 (ISO4400).

Ordering Code

EDG	01	C	20	*
Series No	**Valve Size**	**Pressure**	**Design No.**	**Date Manufactured**
Proportional Electro-Hydraulic Pilot Relief Valve G Type 		C : 137bar (1950PSI)	20 : With DIN 912 Bolts	
		H : 206bar (2930PSI)	2090 : With UNC(North American) Bolts	

Ratings

Model No.	Max. Operating Pressure	Max. Flow	Min. Flow	Pres. Adj. Range	Rated Current	Coil Resistance (At 20°C/35.2°F)	Hysteresis	Repeatability	Weight
	bar (PSI)	lpm (USgpm)	lpm (USgpm)	bar (PSI)	mA	Ω			kg (lbs)
EDG-01	250 (3600)	2 (0.53)	0.3 (0.08)	C : 8~140	C : 750	10	< 3%	< 0.5%	2 (4.4)
				H : 10~210	H : 700				