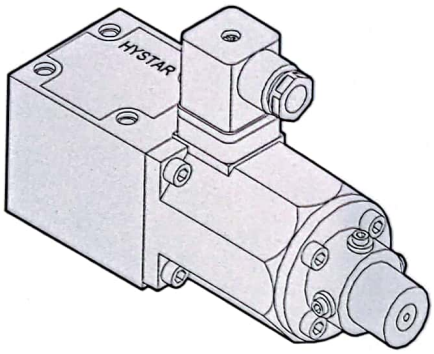
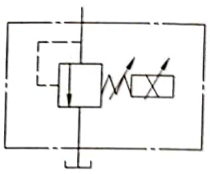
Proportional Electro-Hydraulic Pilot Relief Valves

General Information

1.Simplified piping system as a 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 & 0-10 volts reference single.
3.Good response with executer to reduce resonance.
4.Standard HYSTAR electronic controller type HNC-1085 for best results.
5.Standard electrical connector to DIN 43650(ISO4400).





Graphic Symbols

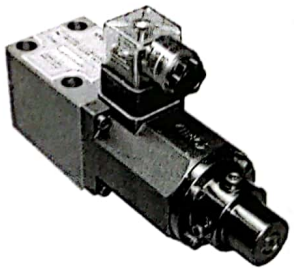
■ ORDERING CODE:

EDG - 01 - C - 20 - *

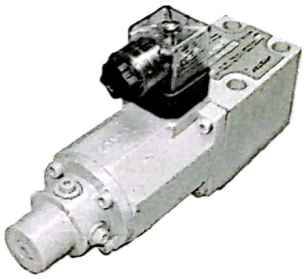
- EDG: PROPORTIONAL ELECTRO-HYDRAULIC PILOT RELIEF VALVE G TYPE
- 01: VALVE SIZE
- C: C:137bar(1950PSI) H:206bar(2930PSI)
- 20: DESIGN NO. 20 :WITH DIN 912 BOLTS 2090:WITH UNC(NORTH AMERICAN) BOLTS
- *: DATE OF MANUFACTURED

■ RATINGS

Description \ Model Number		EDG-01
Max. Operating Pres.	bar(PSI)	250(3600)
Max. Flow	lpm(USgpm)	2(.53)
Min. Flow	lpm(USgpm)	0.3(.08)
Pres. Adj. Range	bar(PSI)	EDG-01-C-* : 8-140 EDG-01-H-* :10-210
Rated Current	mA	EDG-01-C-* :750 EDG-01-H-* :700
Coil Resistance(At 20℃ /35.2°F)	Ω	10
Hysteresis		< 3%
Repeatability		< 0.5%
Weight	kg(lbs.)	2(4.4)



EDG-01



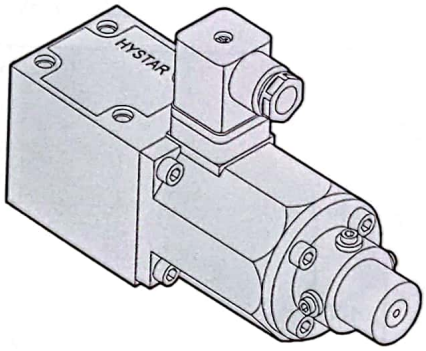
NOTE:

1.It is recommended that the return pipe is connected directly back to tank below the fluid level.
2.The specification chart above relates to performance achievable using the HYSTAR standard electronic controller type HNC-1085 and a pump flow of 2 lpm at oil temperature 45℃ /113°F and viscosity 45 cSt.

EDG-01 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 open the bleed screw to eliminate the air.Lock the bleed screw when all air bubbles have been eliminated.

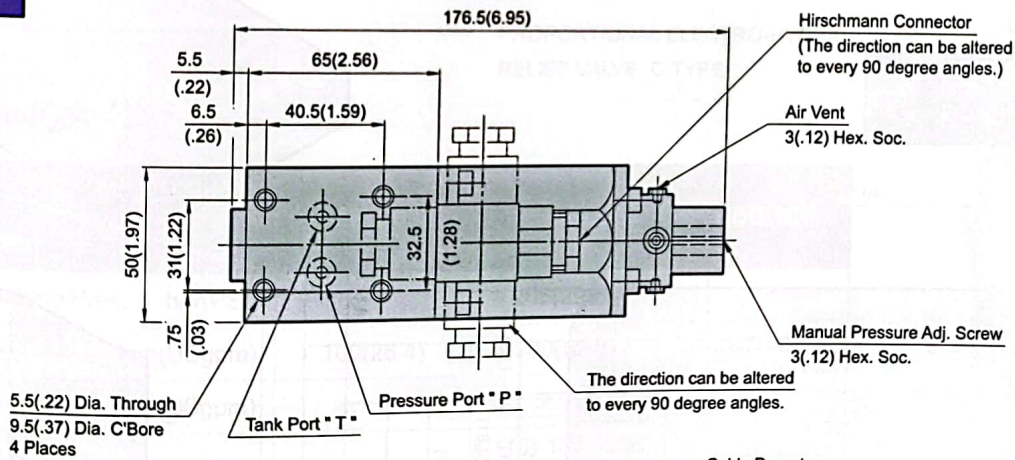
Manual Over-Ride

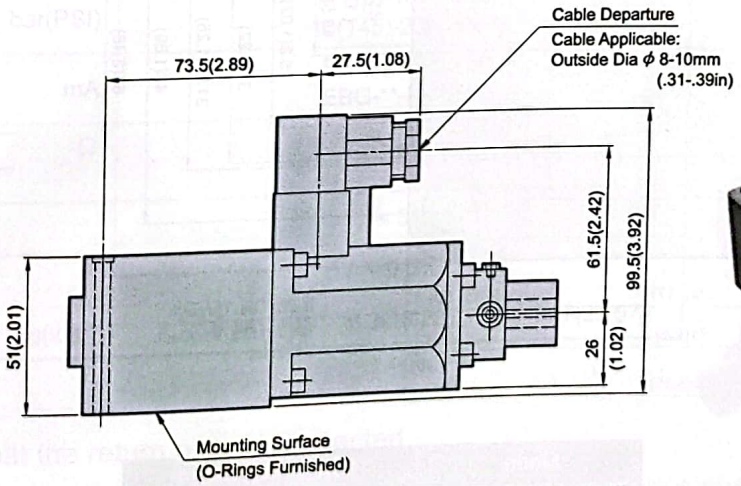
It is possible to set the control pressure manually for commissioning and trouble shooting purposes.

Drain

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

EDG-01





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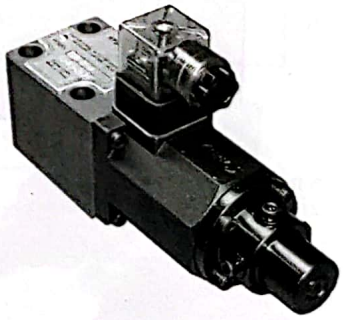

Name	Description	Tightening Torque	Code
Attachment Soc.Hd.Cap Screw:	M5X50LgX4pcs	5-7 Nm	20
Attachment Soc.Hd.Cap Screw:	No.10-24UNCX1-3/4"LgX4pcs	43-60 in.lbs	2090