

Bell Hydromatics

Proportional Valve

EBG

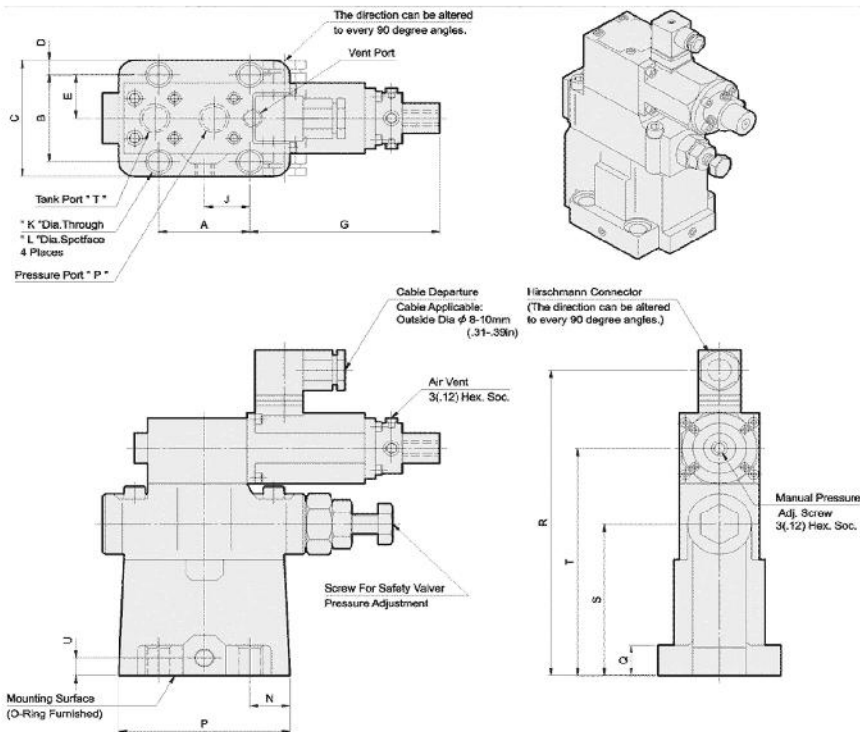


Note :

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 100 lpm at oil temperature 45°C / 113°F and viscosity 45 cSt.

Dimensions

EBG Proportional Electro-Hydraulic Relief Valves – Dimensions

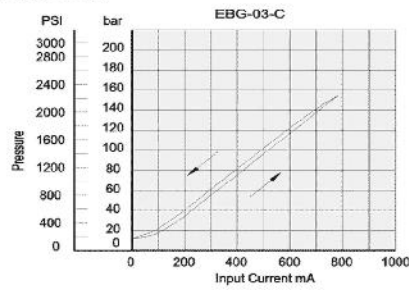
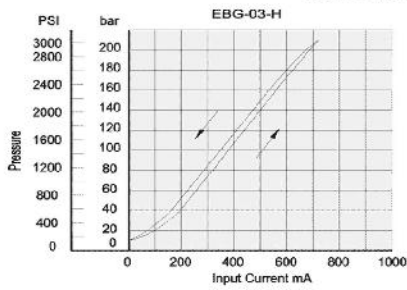


Model No.	Name	Description	Tightening Torque	Code
EBG-03-20	Attachment Soc.Hd.Cap Screw :	M12X40LgX4pcs	100-123 Nm	20
EBG-03-2090	Attachment Soc.Hd.Cap Screw :	1/2-13UNCX1-1/2"LgX4pcs	868-1068 in.lbs	2090
EBG-06-20	Attachment Soc.Hd.Cap Screw :	M16X50LgX4pcs	286-354 Nm	20
EBG-06-2090	Attachment Soc.Hd.Cap Screw :	5/8-11UNCX2"LgX4pcs	2482-3073 in.lbs	2090
EBG-10-20	Attachment Soc.Hd.Cap Screw :	M20X60LgX4pcs	473-585 Nm	20
EBG-10-2090	Attachment Soc.Hd.Cap Screw :	3/4-10UNCX2-1/4"LgX4pcs	4106-5078 in.lbs	2090

Performance Curves

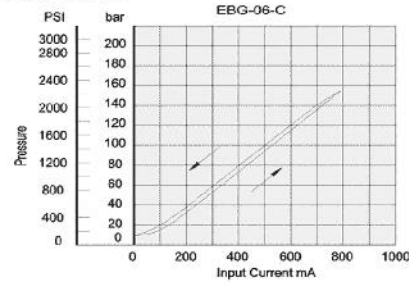
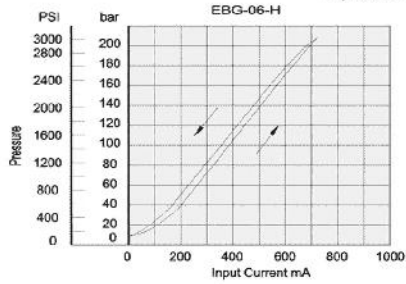
EBG-03 Proportional Electro-Hydraulic Relief Valves

Input Current vs. Pressure



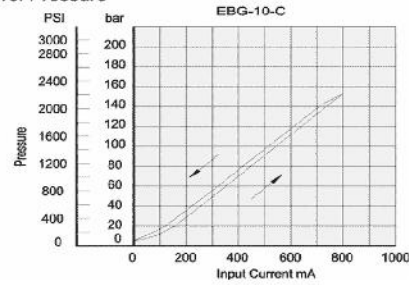
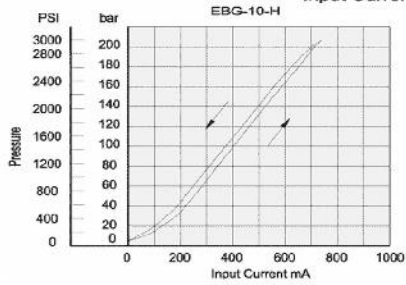
EBG-06 Proportional Electro-Hydraulic Relief Valves

Input Current vs. Pressure



EBG-10 Proportional Electro-Hydraulic Relief Valves

Input Current vs. Pressure



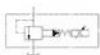
Test Conditions :

Pump	60 lpm (EBG-03) 120 lpm (EBG-06) 250 lpm (EBG-10)
Oil Temperature	45°C / 113°F
Hydraulic Oil Viscosity	45 cSt

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

1. The EBG range of proportional relief valves offer a steady consistent remote control with low level.
2. Suitable for use with traditional electric controllers and micro-processors
3. Precision micro pressure adjustment
4. Standard HNC electronic controller type HNC-1085 for best results.
5. Standard electrical connector to DIN 43650 (ISO4400).

Ordering Code

EBG	03	C	20	*
Series No	Valve Size	Pressure	Design No.	Date Manufactured
Proportional Electro-Hydraulic 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)
EBG-03	250 (3600)	100 (26.4)	3 (0.79)	8(116)~137(1986) 10(145)~205(2987)	C : 750 H : 700	10	< 3%	< 0.5%	7.1 (15.64)
EBG-06		200 (52.8)							8.3 (18.28)
EBG-10		400 (106)							10.7 (23.57)