



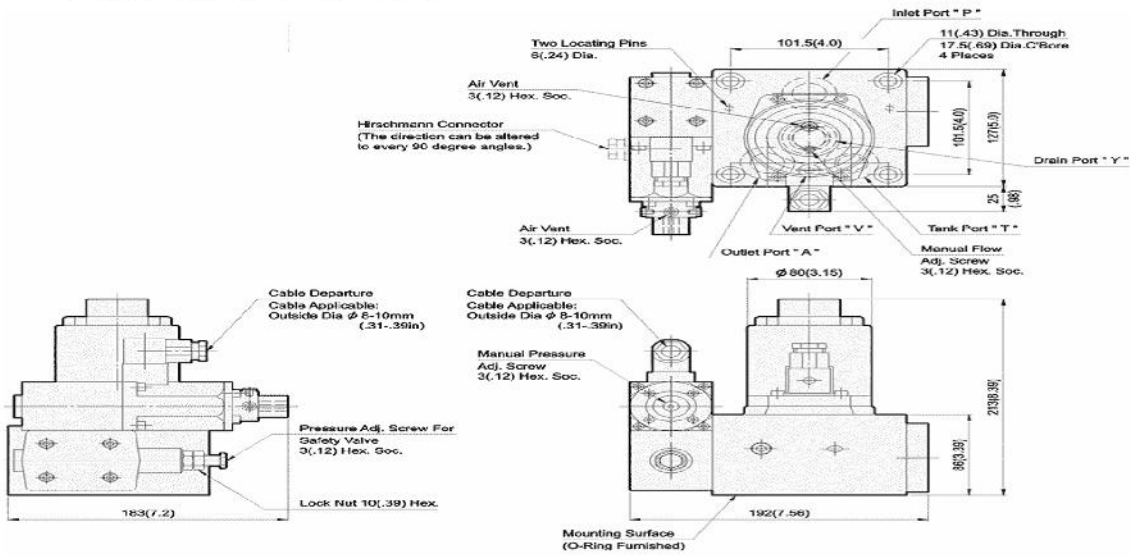
Note :

1. Pipe the return direct back to tank on its own below the oil level for minimum back pressure.
2. The specification chart above relates to performance achievable using HNC standard electronic controller type HNC-1075, HNC-1085 and a pump flow of 125lpm (EFBG-03), 250lpm (EFBG-06), 500lpm (EFBG-10) at oil temperature 45°C / 113°F and viscosity 45 cSt.

Dimensions

EFBG-03 Proportional Electro-Hydraulic Relief and Flow

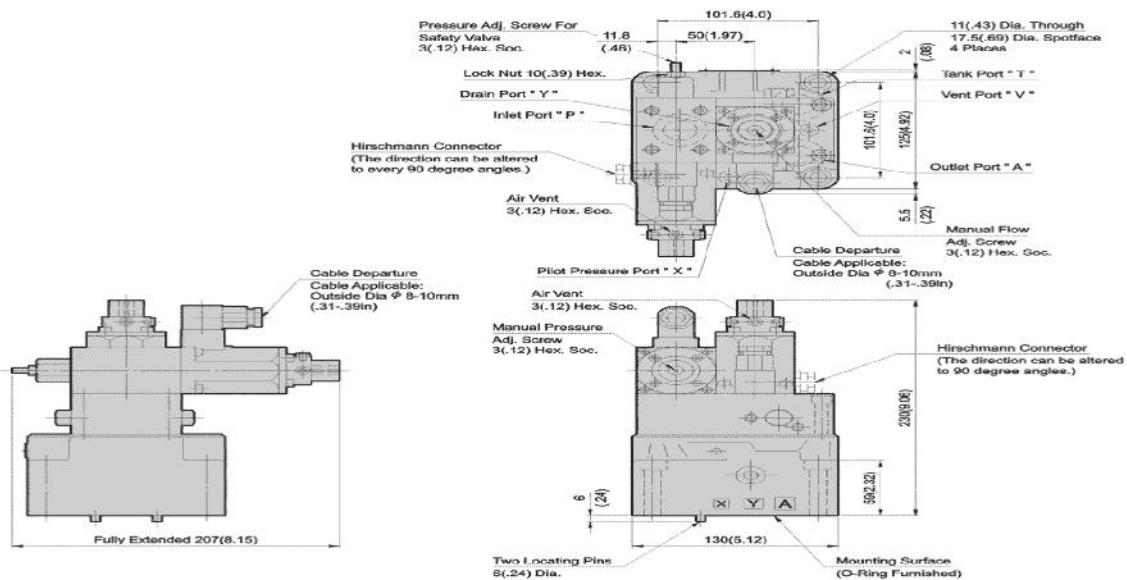
Control Valves (40Q-10Q Series)



Name	Description	Tightening Torque	Code
Attachment Soc.Hd.Cap Screw:	M10X100LgX4pcs	58-72 Nm	20
Attachment Soc.Hd.Cap Screw:	No.3/8-16UNCX4"LgX4pcs	504-625 in.lbs	2090

EFBG-03 Proportional Electro-Hydraulic Relief and Flow

Control Valves (10Q-10Q Series)

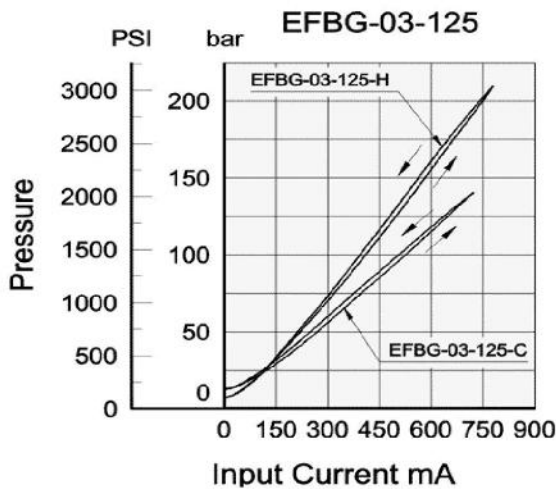


Name	Description	Tightening Torque	Code
Attachment Soc.Hd.Cap Screw:	M10X100LgX4pcs	58-72 Nm	50
Attachment Soc.Hd.Cap Screw:	No.3/8-16UNCX4"LgX4pcs	504-625 in.lbs	5090

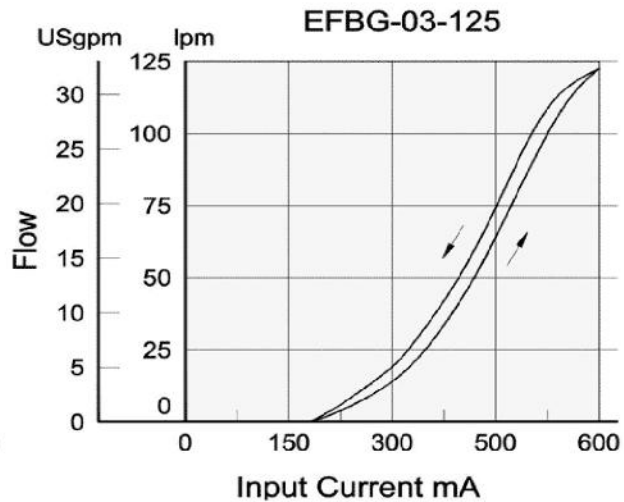
Performance Curves

EFBG-03 Proportional Electro-Hydraulic Relief and Flow Control Valves (40Ω-10Ω Series)

Input Current vs. Pressure

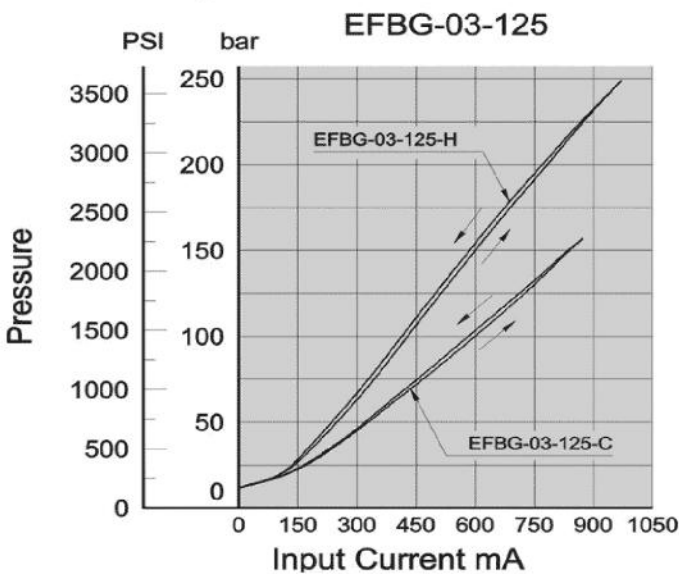


Input Current vs. Flow

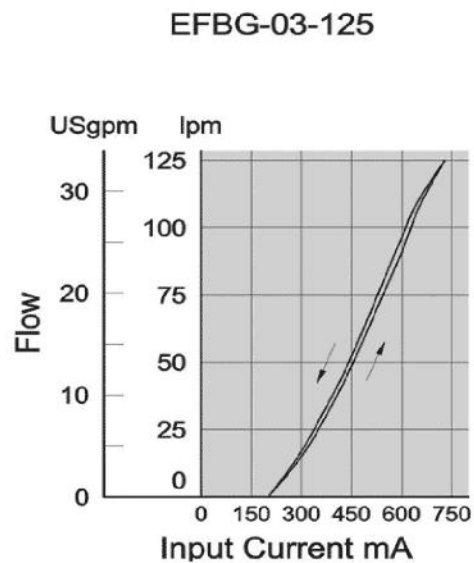


EFBG-03 Proportional Electro-Hydraulic Relief and Flow Control Valves (10Ω-10Ω Series)

Input Current vs. Pressure



Input Current vs. Flow



Operating Data

Position For Installation:

To install the valve correctly mount with "bleed" up-wards in order to eliminate air and reduce the risk of air entrapment.

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.The above will ensure a stable adjustable pressure control and a smooth adjustable speed control.

Manual Over-Ride

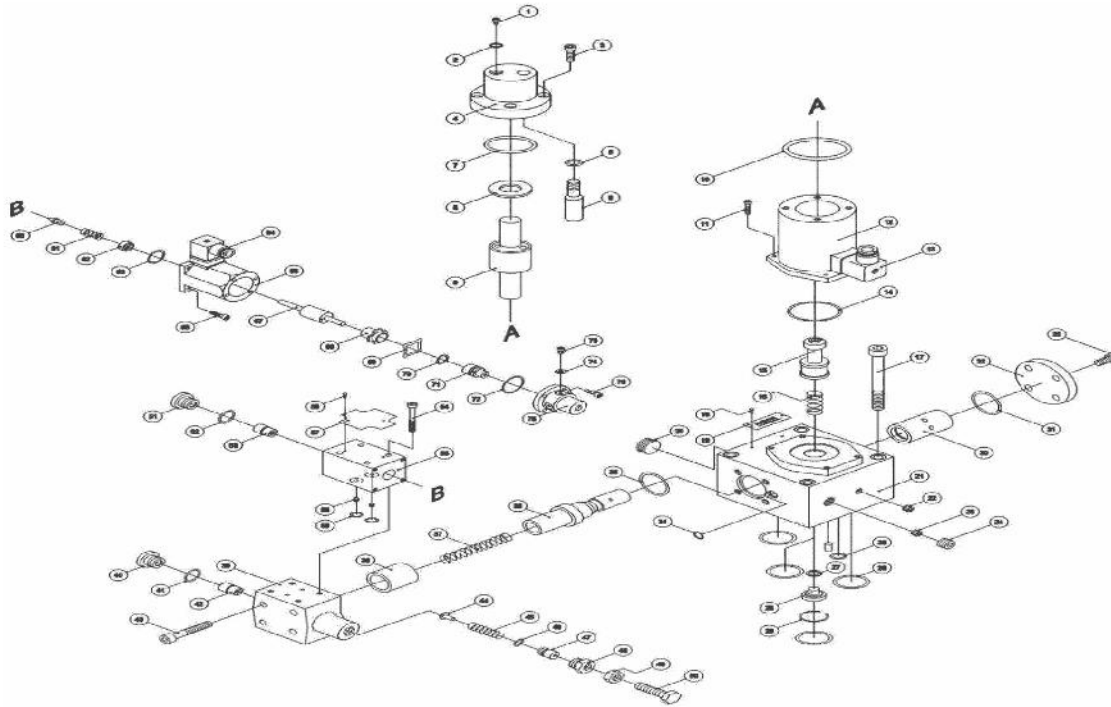
It is possible to set the both control pressure control and flow control manually for commissioning and trouble shooting purposes.

Drain

Pipe the return back to tank below the oil level.It is essential that the back pressure is kept to a minimum and does not exceed 2 bar(29PSI).

Assembly

EFBG-03 Proportional Electro-Hydraulic Relief and Flow Control Valves (40Ω-10Ω Series)



Ratings

Model No.		EFBG-03-125-C-20 40Ω-10Ω Series	EFBG-03-125-C-20 10Ω-10Ω Series
Max. Operating Pres. bar (PSI)		206 (2987)	250 (3600)
Max. Flow lpm (USgpm)		125 (33)	
Metred Flow Adjustment Range lpm (USgpm)		1-125 (0.26-33)	
Flow Controls	Rated Current mA	750	800
	Coil Resistance Ω	40	10
	Valve Internal Resistance (A→B) bar (PSI)	5 (72.5)	
	Hysteresis %	< 7	
	Repeatability %	< 1	
Pressure Controls	Pres. Adj. Range bar (PSI)	C : 8-140(116-2030) H : 10-206(145-3000)	C : 8-140(116-2030) H : 10-250(145-3600)
	Rated Current mA	C : 700 H : 750	C : 820 H : 880
	Coil Resistance Ω	10	
	Hysteresis %	< 3	
	Repeatability %	< 1	
Weight kg(lbs.)		18 (39.6)	16 (35.3)