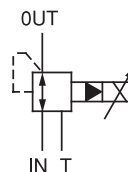
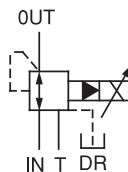


Electro-Hydraulic Proportional Reducing and Relief Valve

13.2 to 26.4 gpm
43.5 to 3625 psi



Features

This valve combines a compact, high-performance electro-hydraulic pilot relief valve, and a reducing and relief valve for low-pressure control of pressure within a hydraulic system in proportion to **input**

current.

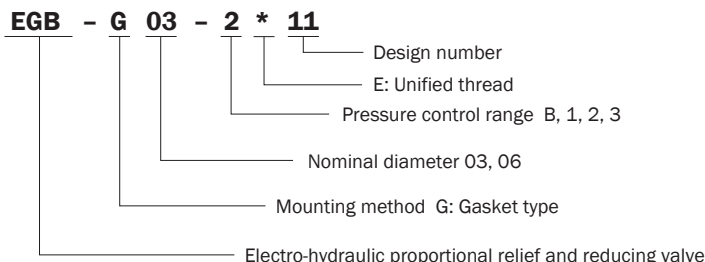
Since this valve includes a relief function, OUT side pressure can be maintained at a virtually fixed level, even when the valve's OUT side is used as reaction force. This valve also provides outstanding response as pressure drops.

Specifications

Item	Model No.	EGB-G03-*-11	EGB-G06-*-11
Maximum Operating Pressure psi		3625	
Maximum Flow Rate gpm		13.2	26.4
Pressure Control Range psi		B: 43 to 357 1: 100 to 1000 2: 129 to 2000 3: 214 to 3000	
Rated Current mA		800	
Coil Resistance Ω		20 (68° F)	
Hysteresis %		3 max. (Note 2)	
Weight lbs		12	17

Note: 1. G03 type only Rated flow rate: 5.2 gpm
2. Value when a Nachi-Fujikoshi special amplifier is used (with dithering).

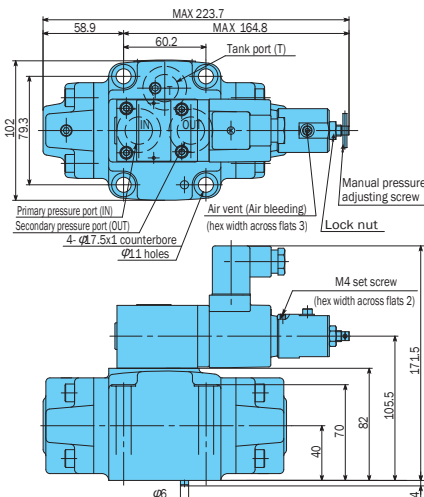
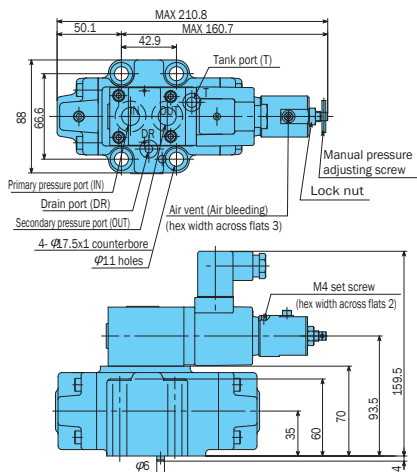
Understanding Model Numbers



Installation Dimension Drawings

EGB-G03-*-11

EGB-G06-*-11

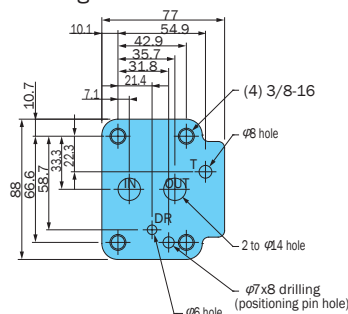


- Handling
- 1 Air Bleeding
To enable proper pressure control, loosen the air vent when starting up the pump in order to bleed any air from the pump, and fill the inside of the solenoid with hydraulic operating fluid.
- 2 DR Port Piping
When configuring piping, ensure that the DR port (T port for the G06 size) is filled with operating fluid.
- 3 Manual Pressure Adjusting Screw
For the initial adjustment or when there is no input current to the valve due to an electrical problem or some other reason, valve pressure can be increased by rotating the manual adjustment screw clockwise (rightward). Normally, the manual adjusting screw should be rotated back fully to the left (counter-clockwise) and secured with the lock nut.
- 4 Load Capacity
The G03 load capacity (valve OUT side volume) is at least .5 gpm, while the G06 load capacity is at least 1.3 gpm.
- 5 Bundled Accessories (Valve Mounting Bolts)

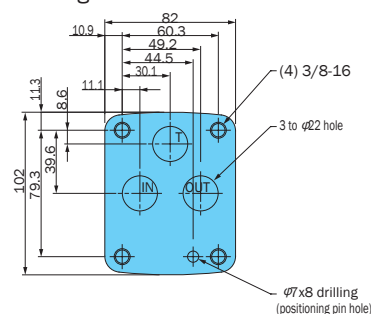
Model No.	Bolt Size	Q'ty	Tightening Torque ft lbs
EGB-G03	3/8-16 x 3"	4	33 to 40
EGB-G06	3/8-16 x 3 3/8"	4	33 to 40

- 6 Use an operating fluid that conforms to the both of the following.
Oil temperature: 4 to 140 °F
Viscosity: 12 to 400 centistokes. The recommended viscosity range is 15 to 60 centistokes.

Mounding Gasket Dimensions EGB-G03-*-11



Mounding Gasket Dimensions EGB-G06-*-11

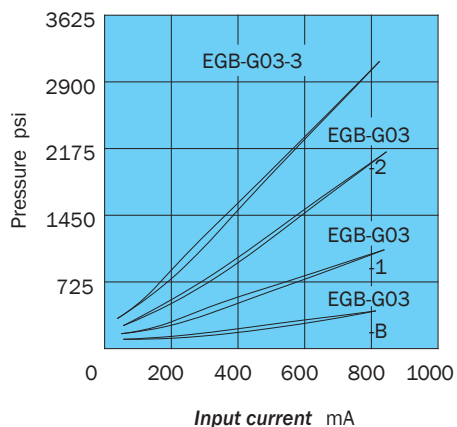


Performance Curves

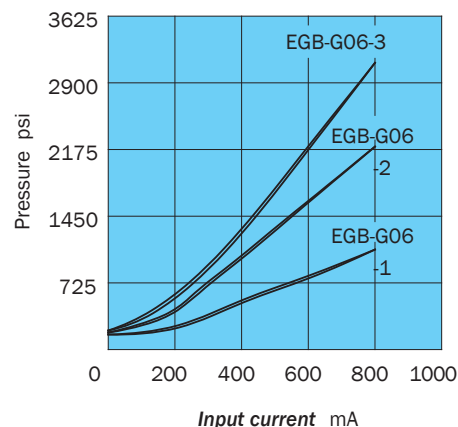
Hydraulic Operating Fluid Viscosity 32 centistokes

Input Current – Pressure Characteristics

EGB-G03

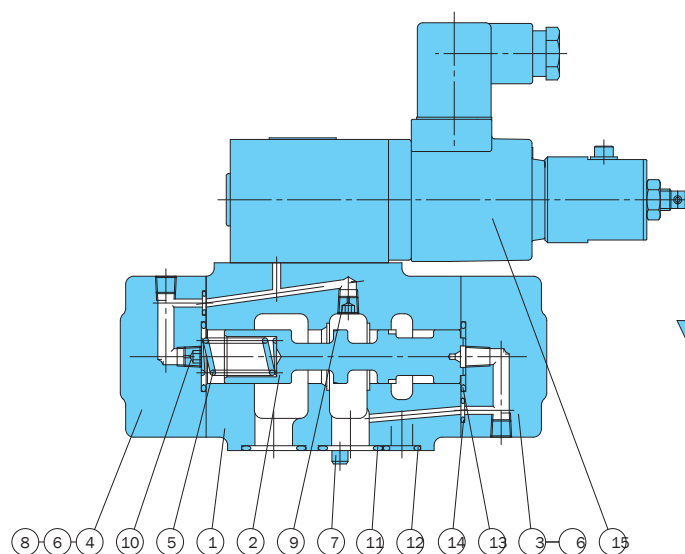


EGB-G06



Cross-sectional Drawing

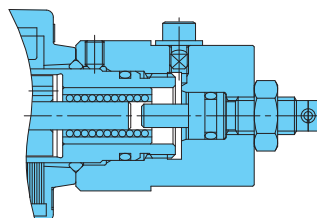
EGB-G**-*-11



EGB Valve Built-in Pilot Relief Valve List

Model No.	Built-in Pilot Relief Valve
EGB-G03-B-11	EPR-G01-B-0000-12
EGB-G03-1-11	1-0013-12
EGB-G03-2-11	2-0012-12
EGB-G03-3-11	3-0011-12
EGB-G06-1-11	EPR-G01-1-0013-12
EGB-G06-2-11	2-0012-12
EGB-G06-3-11	3-0012-12

Manual adjustment section



Seal Part List (Kit Model Number JGS-**-*)

Part No.	Part Name	EGB-G03-*-11		EGB-G06-*-11	
		Part Number	Q'ty	Part Number	Q'ty
11	O-ring	1B-P20	2	1B-P26	3
12	O-ring	1B-P10A	2	-	-
13	O-ring	1B-P22	2	1B-G30	2
14	O-ring	1B-P6	2	1B-P6	2

Note: 1.O-ring 1B-** refers to JIS B2401-1B-**.

2.For the ** part of the kit number, specify the valve size (G03, G06).

3.EPR-G01 pilot valve seal is available separately. See page G-3 for more information.

Part No.	Part Name
1	Body
2	Piston
3	Cover
4	Cover
5	Spring
6	Screw
7	Pin
8	Pin
9	Choke
10	Choke
11	O-ring
12	O-ring
13	O-ring
14	O-ring
15	Pilot relief valve

Note:

Coil model number JD64-D2