

Modular Type Electro-hydraulic Proportional Reducing Valve

30ℓ/min
0.3 to 14MPa

Features

This valve incorporates the ease-of-use principles of the modular valve into an electro-hydraulic proportional reducing valve to provide reduction

control of hydraulic system pressure in proportion to input current. This valve is perfect for a small-scale hydraulic system, such as those used

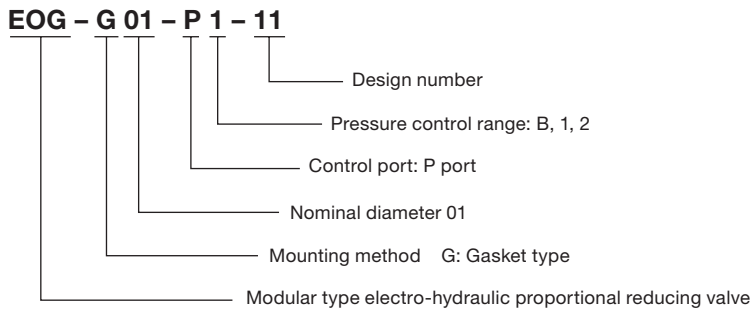
for continuous proportional control of lathe chuck pressure. A relief function ensures outstanding pressure response characteristics.

Specifications

Item	Model No.	EOG-G01-P*-11
Maximum Operating Pressure	MPa{kgf/cm ² }	25{255}
Maximum Flow Rate	ℓ/min	30
Pressure Control Range	MPa{kgf/cm ² }	B : 0.3 to 2.5{3.1 to 25.5} 1 : 0.4 to 7 {4 to 71 } 2 : 0.6 to 14 {6 to 143 }
T Port Allowable Back Pressure	MPa{kgf/cm ² }	2.5{25.5}max
Rated Current	mA	850
Coil Resistance	Ω	20 (20°C)
Hysteresis	%	3 max. (Note 1)
Weight	kg	3.6

Note) Value when a Nachi-Fujikoshi special amplifier is used (with dithering).

Explanation of model No.



● 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 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 (counterclockwise) and secured with the lock nut.

3 Minimum Control Pressure

Since this valve has an internal drain system, T port back pressure has an effect on minimum control pressure.

4 Load Capacity

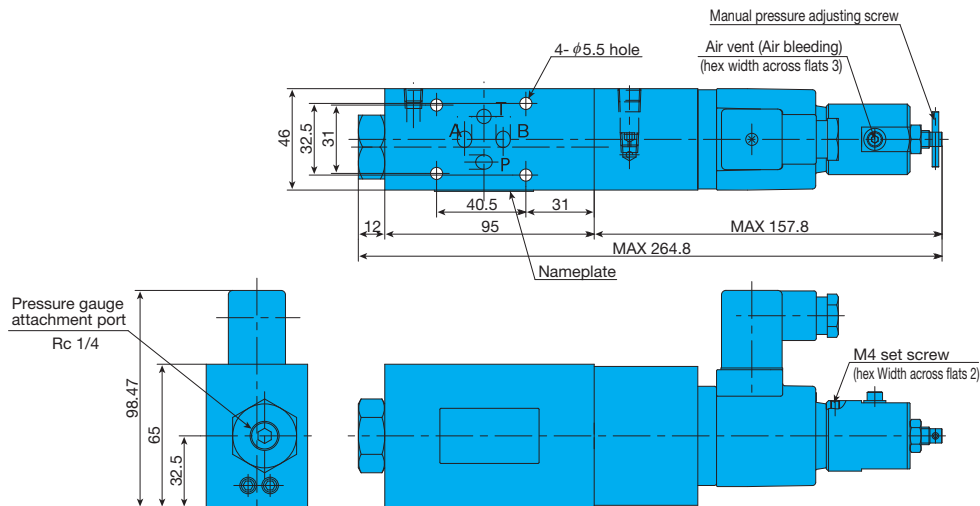
Make load capacity (valve OUT side capacity) at least 0.5ℓ.

5 Use an operating fluid that conforms to the both of the following.

Oil temperature : -20 to 70°C Kinematic Viscosity : 12 to 400mm²/s. The recommended kinematic viscosity range is 15 to 60mm²/s.

Installation Dimension Drawings

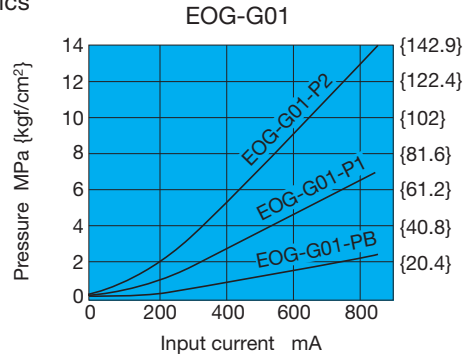
EOG-G01-P*-11



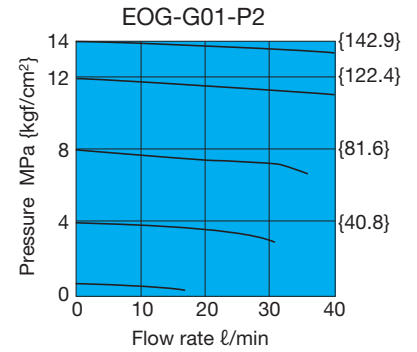
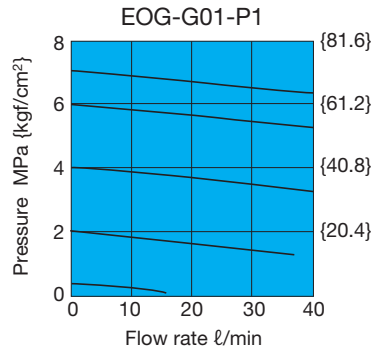
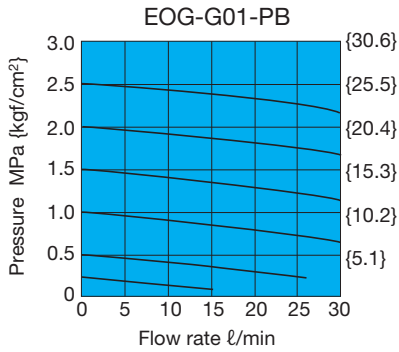
Performance Curves

Hydraulic Operating Fluid Kinematic Viscosity 32mm²/s

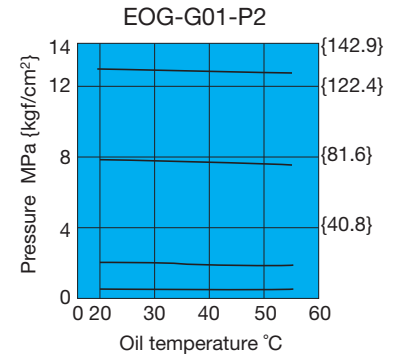
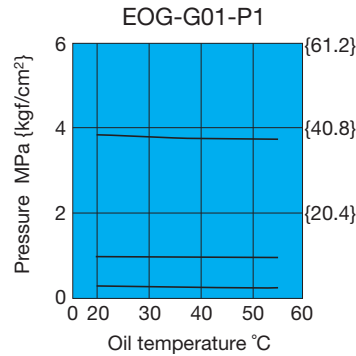
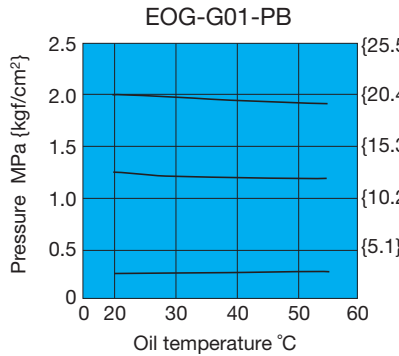
Input Current – Pressure Characteristics



Flow Rate – Pressure Characteristics

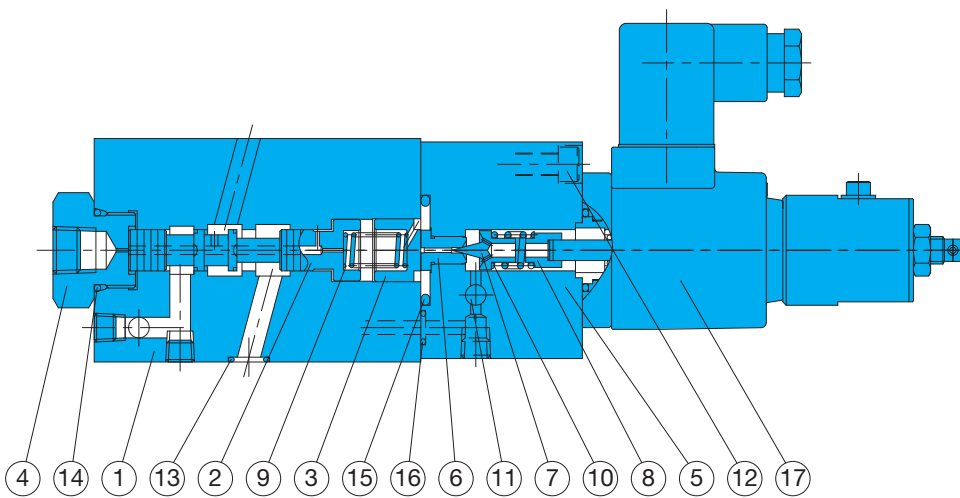


Oil Temperature Characteristics



Cross-sectional Drawing

EOG-G01-P*-11



Part No.	Part Name
1	Body
2	Spool
3	Retainer
4	Plug
5	Cover
6	Seat
7	Poppet
8	Retainer
9	Spring
10	Spring
11	Choke
12	Screw
13	O-ring
14	O-ring
15	O-ring
16	O-ring
17	Proportional solenoid

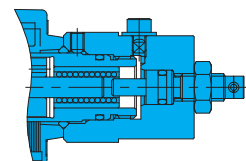
Note) Coil model number JD64-D2

Seal Part List (Kit Model Number JBS-G01)

Part No.	Part Name	Part Number	Q'ty
13	O-ring	AS568-012(NBR-90)	4
14	O-ring	NBR-90 P20	1
15	O-ring	NBR-90 P26	1
16	O-ring	NBR-90 P7	1

Note) The materials and hardness of the O-ring conforms with JIS B2401.

Manual adjustment section



Electro-hydraulic control valve