

MODULAR TYPE ELECTRO-HYDRAULIC PROPORTIONAL REDUCING VALVE

Modular Type Electro-hydraulic Proportional Reducing Valve

30 ℓ /min 0.3 to 14MPa





Features

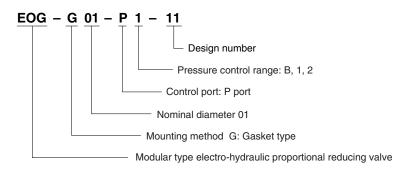
This valve incorporates the ease-ofuse principles of the modular valve into an electro-hydraulic proportional reducing valve to provide reduction control of hydraulic system pressure in proportion to input current. This valve is perfect for a small-scale hydraulic system, such as those used for continuous proportional control of lathe chuck pressure. A relief function ensures outstanding pressure response characteristics.

Specifications

Model No.	EOG-G01-P*-11
Maximum Operating Pressure MPa{kgf/cm²}	25{255}
Maximum Flow Rate ℓ/min	30
Pressure Control Range MPa{kgf/cm²}	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/cm²}	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).

Understanding Model Numbers



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 0.5 ℓ .

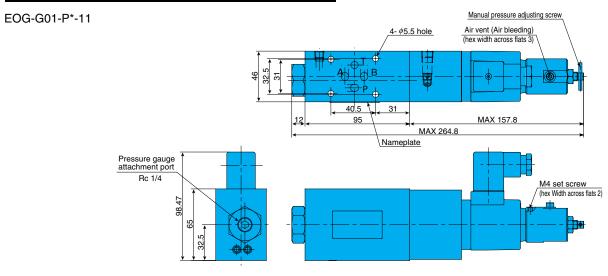
5 Use an operating fluid that conforms to the both of the following.

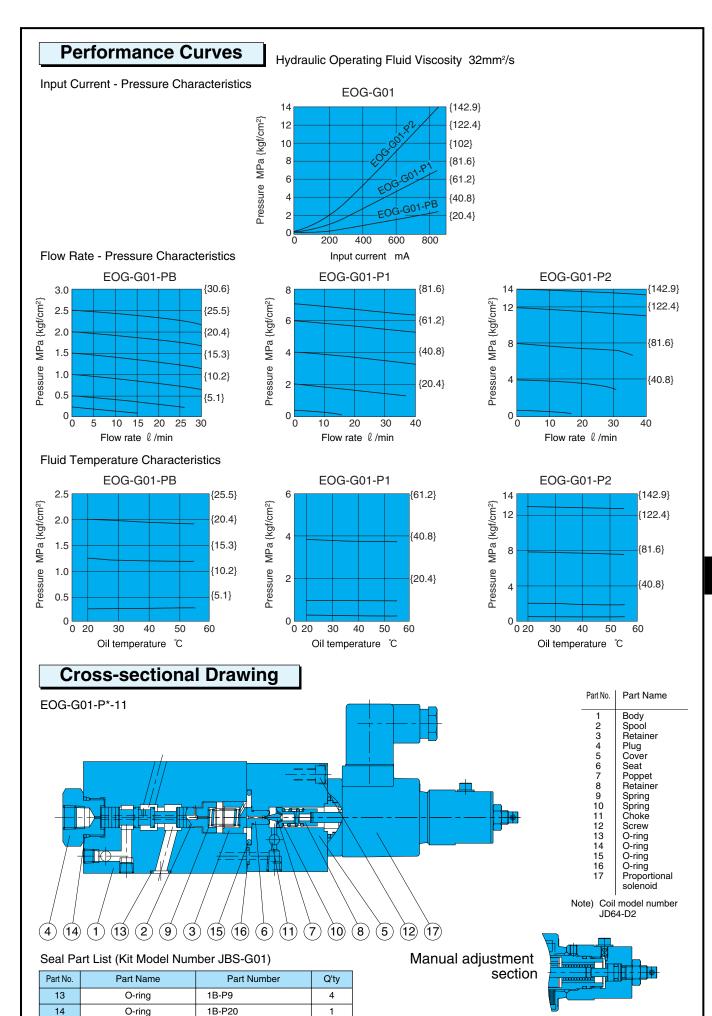
Oil temperature : -20 to 70°C

Viscosity: 12 to 400mm²/s

The recommended viscosity range is 15 to 60mm²/s.

Installation Dimension Drawings





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

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1

O-ring

O-ring

15

1B-P26

1B-P7