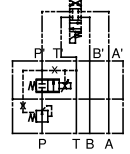


Modular Type Electro-hydraulic Proportional Flow Control Valve

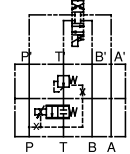
0.3 to 25 l/min
21MPa



EOF-G01-P25



EOF-G01-T25



Features

An electro-hydraulic proportional restrictor valve and pressure compensation valve are combined into a modular configuration, available as one of two types: the meter in control EOF-G01-P and meter out control EOF-G01-T.

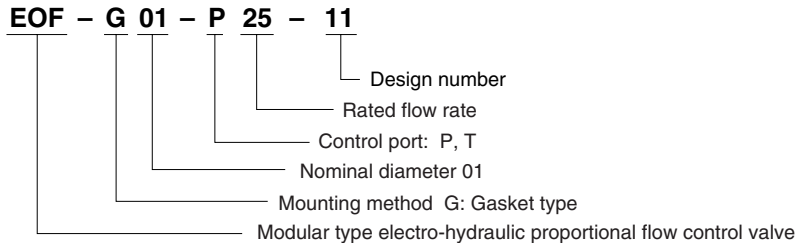
The pressure fluctuations have little influence on the setting flow rate making this valve perfect for electro-hydraulic proportional control of small hydraulic systems used for machine tool APC and ATC high-speed shockless control, remote control, etc.

Specifications

| Item | Model No. | EOF-G01- $\frac{P}{T}$ 25-11 |
|--------------------------------|---------------------------|--|
| Maximum Operating Pressure | MPa(kgf/cm ²) | 21 {214} |
| Flow Rate Control Range | l/min | 0.3 to 25 |
| Flow Rate Control Port | | EOF-G01-P : P port EOF-G01-T : T Port |
| T Port Allowable Back Pressure | MPa(kgf/cm ²) | 2.5 {25.5} max. |
| Hysteresis | % | 3 max. (Note 1) |
| Response Speed | S | 0.05 |
| Rated Current | mA | 800 |
| Coil Resistance | Ω | 20 (20°C) |
| Weight | kg | 3.7 |

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. The position of the air vent can change by loosening the lock screw and rotating the cover.

2 Manual flow rate 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, the flow rate can be adjusted by rotating the manual adjustment screw. Rotate clockwise (rightward) to increase flow rate.

Normally, this adjusting screw should be returned completely to its original position and secured with the lock nut.

3 T Port Back Pressure

Since this valve has an internal drain system, make sure that valve T port back pressure is no greater than 2.5MPa {25.5kgf/cm²}.

4 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.

5 O-ring Plate Orientation

① The port nearest the nameplate surface is the P port.

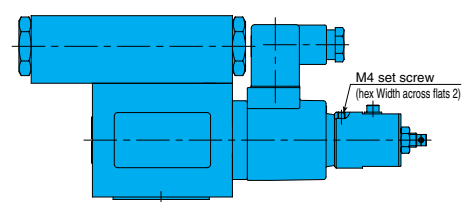
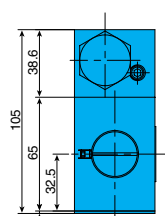
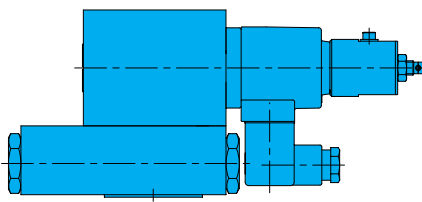
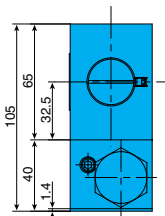
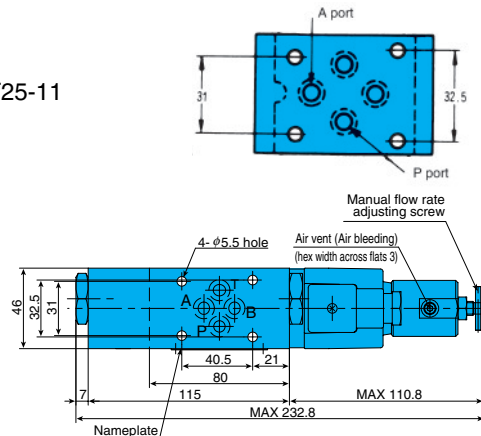
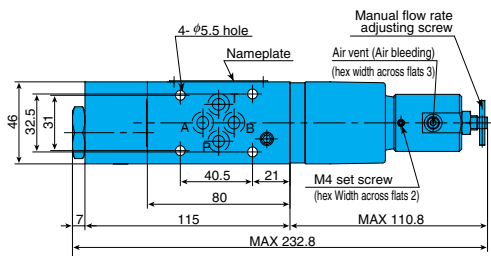
② The port with a mounting pitch width of 31 (narrow pitch width) is the A port.

③ The cutout on the O-ring plate is on the A port side.

Installation Dimension Drawings

EOF-G01-P25-11

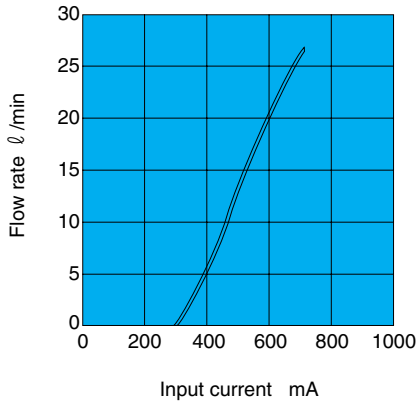
EOF-G01-T25-11



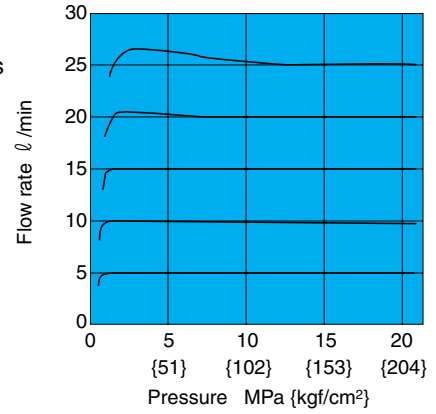
Performance Curves

Hydraulic Operating Fluid Viscosity 32mm²/s

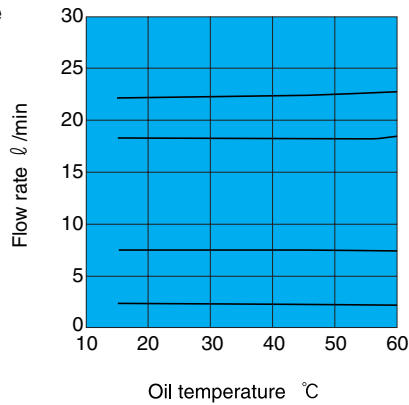
Input Current -
Flow Rate
Characteristics



Pressure -
Flow Rate
Characteristics

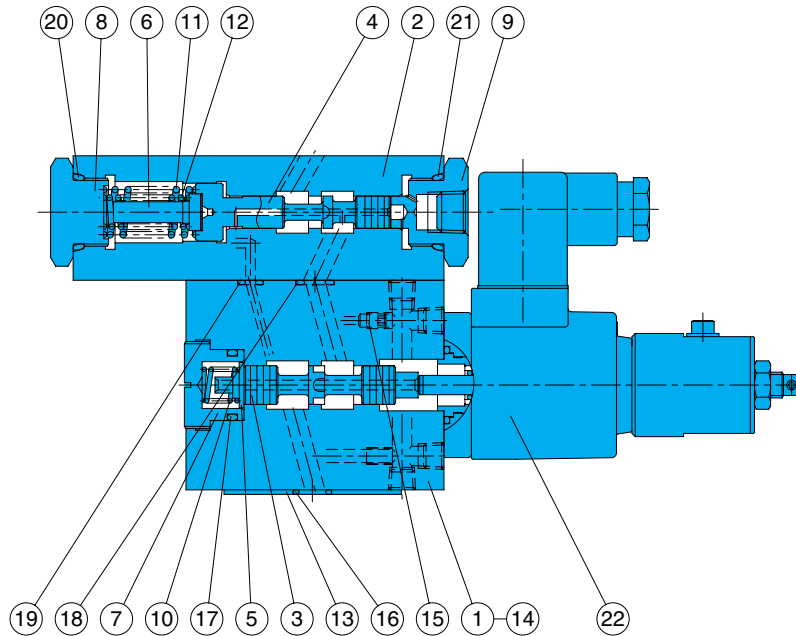


Fluid Temperature
Characteristics



Cross-sectional Drawing

EOF-G01-T25



Part No. | Part Name

| | |
|----|-----------------------|
| 1 | Body |
| 2 | Body |
| 3 | Spool |
| 4 | Piston |
| 5 | Retainer |
| 6 | Retainer |
| 7 | Plug |
| 8 | Plug |
| 9 | Plug |
| 10 | Spring |
| 11 | Spring |
| 12 | Spring |
| 13 | Plate |
| 14 | Screw |
| 15 | Screw |
| 16 | O-ring |
| 17 | O-ring |
| 18 | O-ring |
| 19 | O-ring |
| 20 | O-ring |
| 21 | O-ring |
| 22 | Proportional solenoid |

Note) Coil model number JD64-D2

Seal Part List (Kit Model Number JMS-G01)

| Part No. | Part Name | Part Number | Q'ty |
|----------|-----------|-------------|------|
| 16 | O-ring | 1B-P9 | 4 |
| 17 | O-ring | 1B-P18 | 1 |
| 18 | O-ring | 1B-P9 | 4 |
| 19 | O-ring | 1B-P5 | 1 |
| 20 | O-ring | 1B-P20 | 1 |
| 21 | O-ring | 1B-P20 | 1 |

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

Manual adjustment
section

