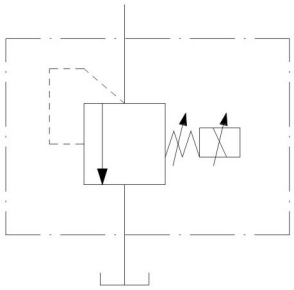
# Proportional Electro-Hydraulic Pilot Relief Valves

JIS Graphic Symbol



## Feature

- Simplify hydraulic system by breaking through the traditional complicated "one-pressure-one-controlling-valve" type of system.
- Proportional coil can produce step-less pressure based on input electric current to bring out the best working condition of unifying hydraulic and electronic.
- Function with fast response. The momentary number of pressure change is extremely small, hence it is able to reduce the piping resonance.

## Model Definition

| EDG | -01 | -C |
|---|---|---|
| Model Series | Valve Size (inch) | Pressure Adjustment Range (MPa) |
| Proportional Electro-Hydraulic Pilot Relief Valve | 01 : 1/8" | C : 14<br>H : 21 |

## Specification

| Model | Max. Operating Pressure (MPa) | Max. Flow (ℓ/min) | Flow Adjustment Range | Max. Allowable Back Pressure | Rated Current (mA) | Coil Resistance | Magnetic Hysteresis | Repeatability | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| EDG–01 | 21 | 2 | C:8~140<br>H:10~210 | Note | C:750<br>H:700 | 10Ω | < 3% | < 0.5% | 2 |

Note: The resistance of the return pipe should be cut down by using only one pipe and directly insert into the oil tank.

## Instructions

- Installation: Users are advised to face the air-bleeder up.
- Air Elimination: In order to stabilize the pressure, air in the pipe and valve should be eliminated completely. Please face the air-bleeder up, open up the screw to eliminate the air till there is no bubble (set up the pressure at 30kgf/cm²), then screw back in.
- Manual Pressure Adjustment Screw: when the electric control breaks down and is in need of power supply, users can just manually spin the screw in.
- Drain: Please directly insert the return lines underneath the tank to avoid the pipe from bending or resisting.

## Dimension

### EDG-01