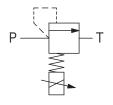
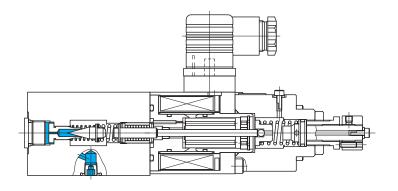
Proportional solenoid relief valves (direct operated type) **EPCG2-01**



Functional Symbol





The EPCG2-01 utilizes a proportional solenoid actuator to provide proportional control of hydraulic circuit pressure. The valve provides pressure control proportional to input current by connecting with small flow hydraulic systems, pilot operated pressure control valves or variable displacement pumps.

Model Code

EPCG2-01-210-11

1 2

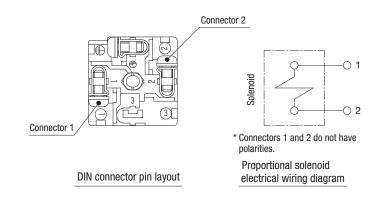
- 1 Proportional solenoid relief valve
- 2 Size

- 3 Pressure adjustment range Refer to "Specifications".
- 4 Design no.

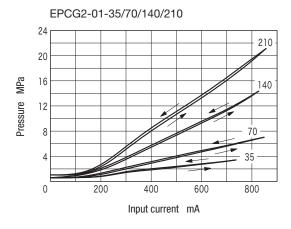
Specifications

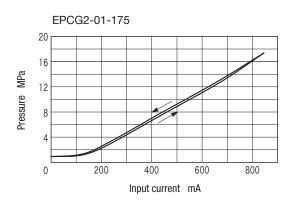
Model (EPCG2			
Size			01	
Max. working pre	essure	MPa	21	
Flow range		L/min	0.3~1.5	
Max. adjustable pressure MPa	Pressure adjustment range code	35	3.5	
		70	7	
		140	14	
		175	17.5	
		210	21	
Rated current		Α	1	
Coil resistance		Ω	14	
Hysteresis			Less than 3%*	
Repeatability			Less than 1%*	
Weight kg			2.5	

Note: * indicates the value when using controller P-X-20 or equivalent.

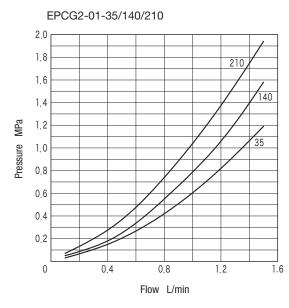


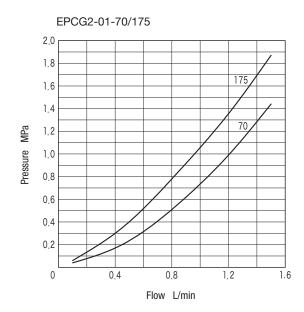
Input Current-Pressure Characteristics



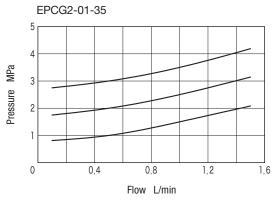


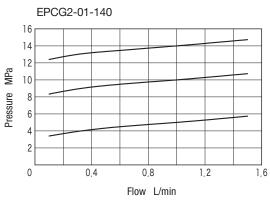
Minimum Control Pressure

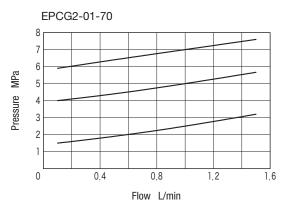


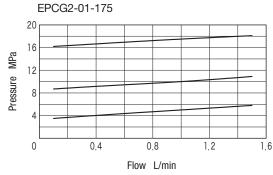


Flow-Pressure Characteristics

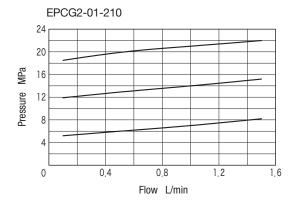








Flow-Pressure Characteristics



Notes on Operation

• Air bleed

For stable pressure control, loosen the air bleed plug and bleed air completely out of the valve prior to use.

· Manual adjustment

In case there is no input current to the solenoid during initial adjustment or electric malfunction, pressure may be set manually with the pressure adjustment knob. Return knob to counterclockwise direction upon electro-magnetic control.

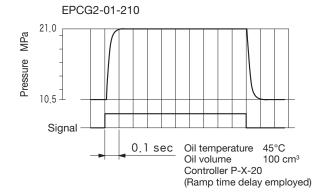
Minimum control flow

Pressure setting may be unstable in the case of low flow. Maintain minimum flows above the 0.3 L/min.

T port piping

Allowable back pressure is 0.2 MPa. T port piping should be directly returned to tank. Ensure that end of the piping is always below the fluid level.

Step Response Characteristics



Mounting Bolts (JIS B 1176, Strength Class 12.9)

Hex Socket Bolts	Qty
M5 × 50	4

- Mounting bolts must be ordered separately.
- Tightening torque of mounting bolts: 7 to 8 N·m

Subplate

Subplate Model Code		Connection Port Dia. Rc	
Side Piping	DGMS-3-1E-10-T-JA-J	3/8	
Bottom Piping	DGVM-3-10-T-JA-J	3/0	

- Subplate must be ordered separately.
- Mounting bolts are not included.
- See page R6-6 for dimensions.

Dimensions

