

2. Technical Information

2-2 Functional Description of Regulator

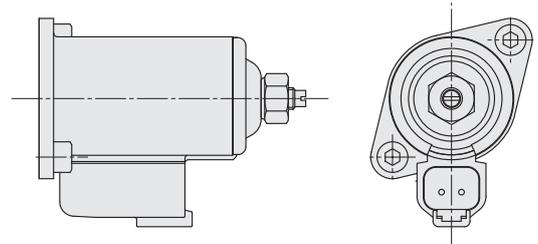
◆ Electric Proportional Control (Ordering code [14] : P1, P2)

Pump delivery flow can be proportionally controlled by the input current to the electric proportional reducing valve equipped on the regulator.

The input current of the electric proportional reducing valve signals the control spool in a regulator to stroke, and to supply pressure to the servo piston. The pump displacement varies with the stroke of the servo piston.

The feedback lever, connected with the servo piston at the one end, moves with the stroke of the servo piston. This movement causes the sleeve of the control spool which is connected to the other end of the feedback lever to stroke, and closes the flow passage to the servo piston. Consequently, the stroke of the servo piston stops, and the pump displacement becomes proportional to the input current.

● Electrical specifications

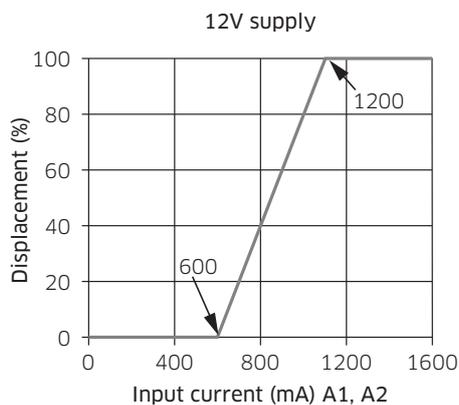
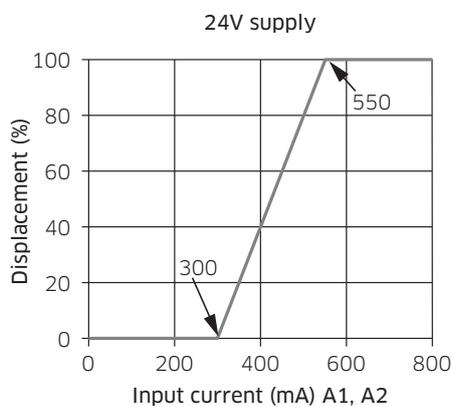


Connector type

LADD DISTRIBUTION, DT04-2P
Rated Current and Coil Resistance
For 24 V supply: 0.7 A, 15 Ω (at 20°C)
For 12 V supply: 1.6 A, 3.3 Ω (at 20°C)

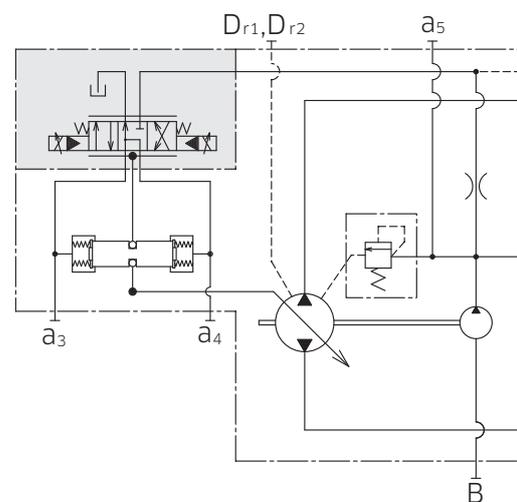
Recommended dither condition
85 Hz, 200 mAp-p for 24 V
85 Hz, 600 mAp-p for 12 V

Control characteristics



(Note)

Electric displacement control regulator requires the minimum servo pressure is 2.0 MPa.



Hydraulic circuit

The above figures is the control characteristics of electric proportional control.
The control characteristics of electric proportional control is not adjustable.