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Flow Control Valves (with Pressure/Temperature Compensation Control)



Nomenclature × SE G 02 * * * 15 1 2 3 4 5 6 1 Applicable fluid code 5 Maximum control flow rate No designation: Petroleum-based hydraulic fluid, water-002: 0.2 L/min glycol hydraulic fluid 006: 0.6 L/min F: Phosphate ester hydraulic fluid 030: 3 L/min 060: 6 L/min 2 Model No. 150: 15 L/min SF: S series flow control valve 6 Design No. **3** Connections (The design No. is subject to change) G: Gasket mount type 4 Nominal diameter $02: \frac{1}{4}$ Sub-plate model code Specifications Maximum Flow rate • The sub-plate is not provided with the valve. Order it separately Nominal Mass adjustment operating if required by specifying the model code given in the table below. Model code diameter pressure range kg Nominal Connection port MPa {kgf/cm L/min Model code Mass kg diameter diameter SF-G02-002-15 0.01 to 0.2 SF-02M 1/4 Rc1/4 0.5 SF-G02-006-15 0.01 to 0.6 Refer to Page S-8 for the dimensions of the sub-plate. 0.8 SF-G02-030-15 0.01 to 3 1/4 7 {70} Accessories SF-G02-060-15 0.01 to 6 SF-G02-150-15 0.01 to 15 Hexagon socket Tightening torque Quantity head cap bolt N·m {kgf·cm]

Handling

• Use the value in combination with a line filter with a filtration accuracy of 10 µm or better. When controlling flow rate of 0.02 L/min or less, ensure that the contamination of the hydraulic fluid goes no higher than NAS contamination class 8.

 $M6 \times 50$

- To ensure good pressure compensation performance, maintain a pressure difference of 1 MPa {10 kgf/cm²} minimum between the inlet and outlet ports.
- When a flow control valve with check valve is required, order SMC-02-05-10 on Page F-19 separately and stack it with the valve.

F-3

Performance curves (viscosity: 32 mm²/s {cSt})

Flow rate - Pressure fluctuation characteristics Pressure difference between inlet and outlet ports: 1 to 7 MPa {10 to 70 kgf/cm²}



Scale - Flow rate characteristics

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Pressure difference between inlet and outlet ports: 3.5 MPa {35 kgf/cm²}

10 to 12.5 {100 to 125}

FLOW CONTROL VALVES



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Performance curves

Fluid temperature - Flow rate characteristics



SF-G02

External dimension diagram

Sectional structural diagram

SF-G02







This port has no influence on the operation of the valve, but seal it with the gasket face.



Sealing part table

| Part No. | Name | Quantity | Part specifications |
|----------|--------|----------|----------------------|
| 22 | O-ring | 2 | JIS B 2401 1A P9 |
| 23 | O-ring | 1 | JIS B 2401 1A P4 |
| 24 | O-ring | 3 | AS568-014 (NBR,Hs70) |
| 25 | O-ring | 1 | JIS B 2401 1A P6 |
| 26 | O-ring | 1 | AS568-028 (NBR,Hs70) |