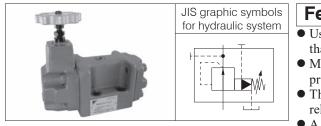
Internet

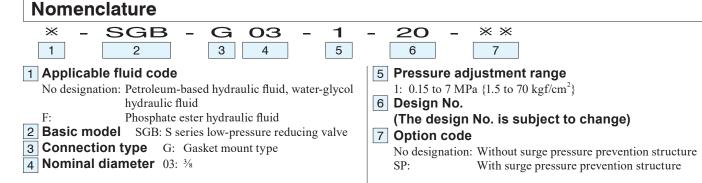
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# Low-pressure Reducing Valve



#### Features

- Used to set the pressure of a certain range of a hydraulic circuit lower than the main circuit.
- Maintains the secondary side pressure regardless of changes in the primary side main circuit pressure.
- The branch circuit pressure can be controlled remotely by connecting a relief valve for remote control to the vent port.
- A structure to prevent surge pressure is available as an option.



## Specifications

Model code	Nominal diameter	Maximum operating pressure MPa {kgf/cm²}	Pressure adjustment range MPa {kgf/cm²}	Maximum flow rate L/min	Mass kg
SGB-G03-1-20 3/8		14 {140}	0.15 to 7 {1.5 to 70}	30	3.0

Model code Pressure		Pressure change MPa {kgf/cm <sup>2</sup> } per handle revolution
SGB-G03-1		2.3 {23}/revolution

### Sub-plate model code

• The sub-plate is not provided with the valve. Order it separately as required by specifying the model code given in the table below.

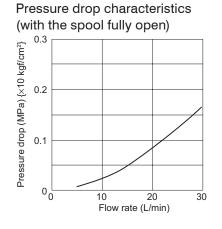
Model code Nominal diame		Connection port diameter	Mass kg
SGB-03M	3⁄8	Rc¾	1.5

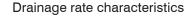
Refer to Page S-6 for the dimensions of the sub-plate.

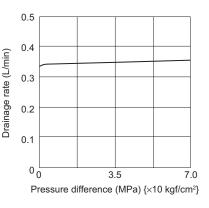
### Handling

- Directly connect the drain piping to the tank without merging it with other tank piping.
- To ensure good pressure reducing performance, set the primary side main circuit pressure and the secondary pressure reducing circuit pressure such that there is a minimum difference of 0.4 MPa {4 kgf/cm<sup>2</sup>}.
- If a reducing valve with check valve is required, order SMC-03-05-10 on Page E-65 separately and stack it on the valve.

### Performance curves (viscosity: 32 mm<sup>2</sup>/s {cSt})







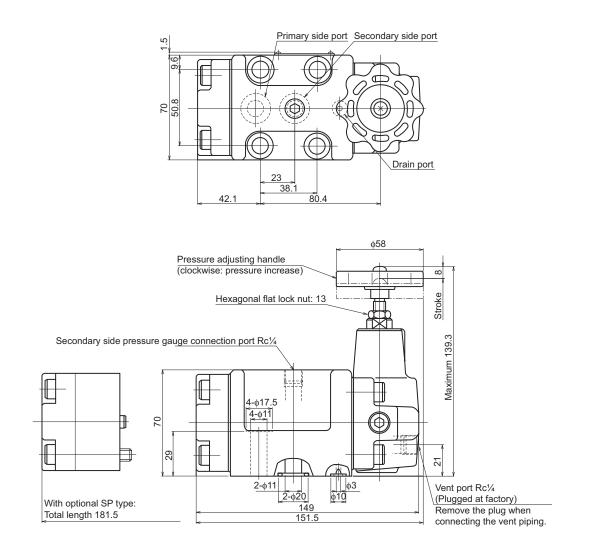
## Accessories (gasket mount type)

Hexagon socket head cap bolt	Quantity	Tightening torque N·m {kgf·cm	
M10  imes 45	4	48 to 63 {480 to 630}	

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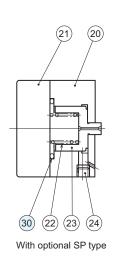
## External dimension diagram

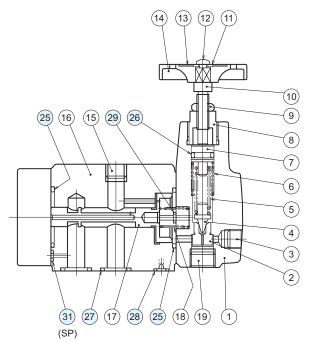
SGB-G03



#### Sectional structural diagram

SGB-G03





#### Sealing part table

Part No.	Name	Quantity	Part specifications
25	O-ring	2	JIS B 2401 1BG35
26	O-ring	1	JIS B 2401 1AP11
27	O-ring	2	JIS B 2401 1BP16
28	O-ring	1	JIS B 2401 1BP7
29	O-ring	1	JIS B 2401 1BP4
30	O-ring	SP type: 1	JIS B 2401 1P34
31	O-ring	SP type: 1	JIS B 2401 1BP4