

Two-Pressure Reducing Modular Valve

40ℓ/min
0.2 to 14MPa

Features

- ① When the pressure in part of the circuit is lower than the main circuit, this modular valve controls pressure by switching the low pressure to secondary pressure (high pressure, low pressure).
- ② Even when pressure changes in the primary main circuit, the reduced secondary pressure is maintained at a constant level.
- ③ Maximum Operating Pressure: 7, 25MPa {71.4, 255kgf/cm²}

Specifications

Model No.	Nominal Diameter (Size)	Maximum Working Pressure MPa{kgf/cm ² }	Maximum Flow Rate ℓ/min	Pressure Adjustment Range MPa{kgf/cm ² }		Weight kg	Gasket Surface Dimensions
				Low pressure side	High pressure side		
OGS-G01-PCC-K-**-22 P1C	1/8	7{71.4}	40	0.2 to 3.5 {2.0 to 35.7}	0.2 to 3.5{ 2.0 to 35.7} 0.8 to 7{ 8.2 to 71.4}	4.8	ISO 4401-03-02-0-05
P21		25{255}		0.8 to 7 {8.2 to 71.4}	3.5 to 14{35.7 to 143}		

Solenoid Specifications

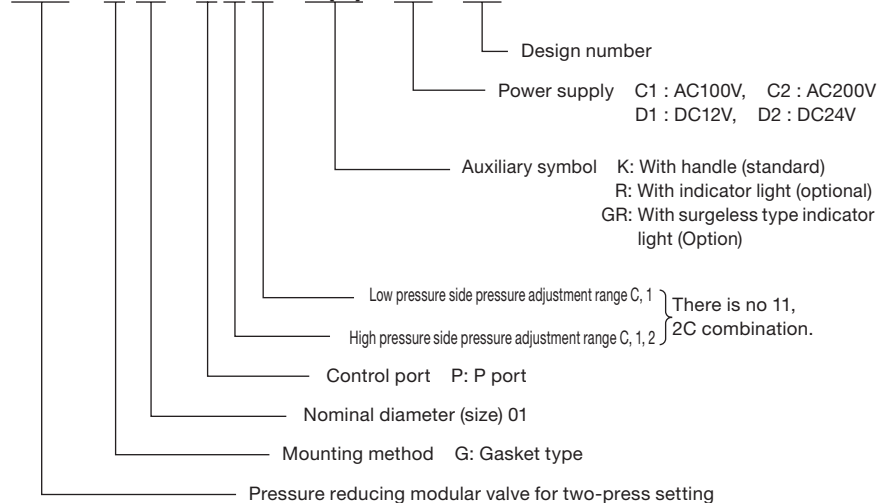
Model No.	Rated Voltage	Starting Current	Holding Current	Holding Power
OGS-G01-P**-K- C1-22	AC100V 50/60HZ	2.2/2.0A	0.52/0.38A	25/22W
C2	AC200V 50/60HZ	1.1/1.0A	0.26/0.19A	25/22W
D1	DC12V		2.2A	26W
D2	DC24V		1.1A	26W

● Handling

- ① See the Pressure-Flow Rate Characteristics for information about how the flow rate is controlled at low pressures.
- ② Note that a change in tank port back pressure causes a change in setting pressure.
- ③ Instability occurs when there is a small setting pressure differential between the high pressure and low pressure, so be sure to maintain at least the minimum pressure differentials described below.
C Type:
At least 0.3MPa {3.1 kgf/cm²}
1, 2 Type:
At least 0.5MPa {5.1 kgf/cm²}
- ④ Vent piping is not possible.
- ⑤ Note that a sub plate and installation bolts are not included. See pages D-90 through D-95 if these items are required.
- ⑥ Low pressure is attained when the solenoid is on.
- ⑦ The coil surface temperature increases if this pump is kept continuously energized. Install the valve so there is no chance of it being touched directly by hand.
- ⑧ The wiring in the connector is the same as the SA series wet type solenoid valve. (See page E-19)

Explanation of model No.

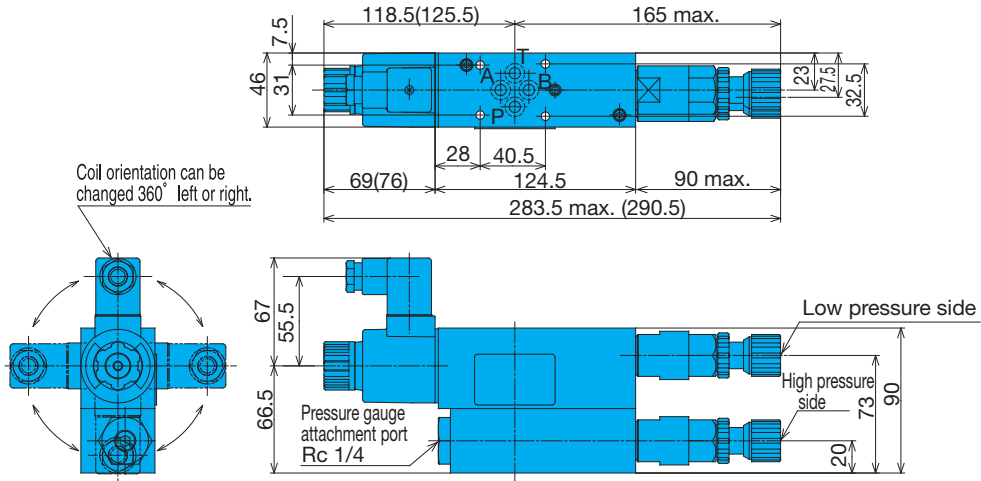
OGS - G 01 - P 1 C - K(R) - C1 - 22



Installation Dimension Drawings

Note) 1. Dimensions in parentheses apply in the case of a DC solenoid.
 2. Pressure is increased by clockwise (rightward) rotation of the adjusting handle, and decreased by counterclockwise (leftward) rotation

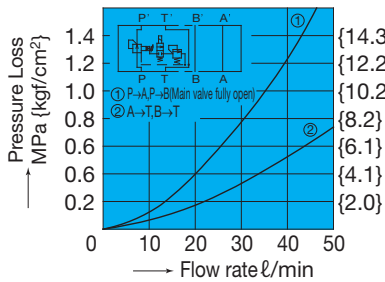
OGS-G01-P*C-K(R)-** -22



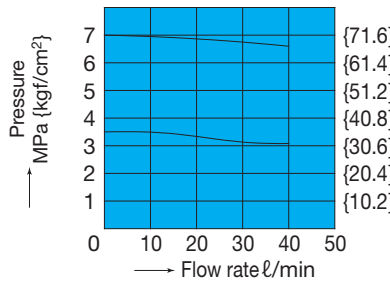
Performance Curves

Hydraulic Operating Fluid Kinematic Viscosity 32mm²/s

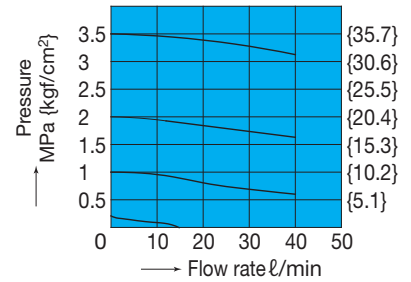
Pressure Loss Characteristics
OGS-G01-PIC-K-**-22



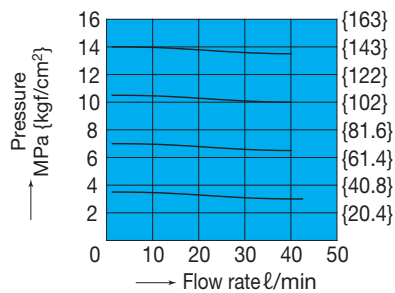
Pressure – Flow Rate Characteristics
OGS-G01-PIC-K-**-22
(Type 1)



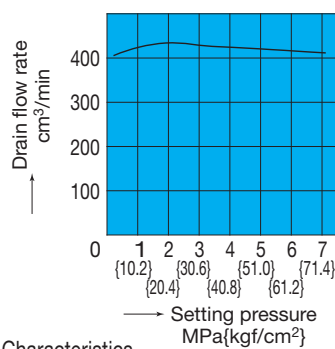
OGS-G01-P*C-K-**-22
(Type C)



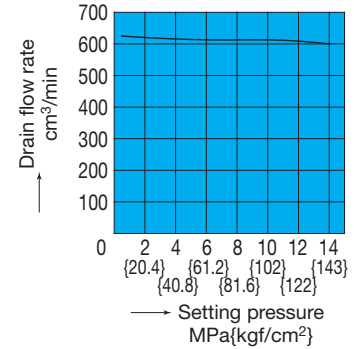
Pressure – Flow Rate Characteristics
OGS-G01-P21-K-**-22
(Type 2)



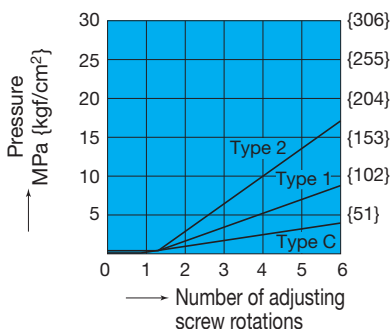
Pressure – Drain Rate Characteristics
OGS-G01-PIC-K-**-22



Pressure – Drain Rate Characteristics
OGS-G01-P21-K-**-22

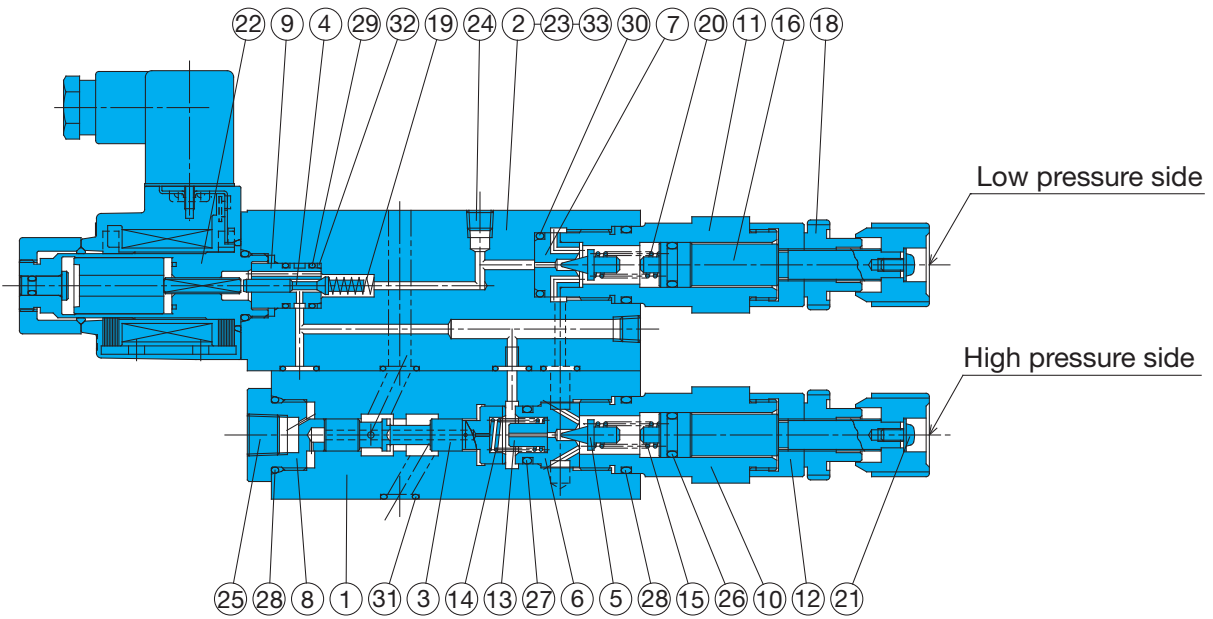


Number of Adjusting Screw Rotations – Pressure Characteristics
OGS-G01-P**-22



Cross-sectional Drawing

OGS-G01-P*C-K(R)-**1-22



Seal Part List (Kit Model Number BRBS-01GSP-1B)

Part No.	Part Name	Part Number	Q'ty
26	O-ring	NBR-70-1 P10A	2
27	O-ring	NBR-90 P14	1
28	O-ring	NBR-90 P20	3
29	O-ring	AS568-013(NBR-90)	2
30	O-ring	NBR-90 P16	1
31	O-ring	AS568-012(NBR-90)	11
32	Backup ring	For AS568-013	1

Note) The materials and hardness of the O-ring conform with JIS B2401.

Part No.	Part Name	Part No.	Part Name
1	Body	18	Nut
2	Body	19	Spring
3	Spool	20	Spring
4	Spool	21	Screw
5	Poppet	22	Solenoid assy
6	Seat	23	Screw
7	Seat	24	Plug
8	Bushing	25	Plug
9	Sleeve	26	O-ring
10	Retainer	27	O-ring
11	Retainer	28	O-ring
12	Bushing	29	O-ring
13	Choke	30	O-ring
14	Spring	31	O-ring
15	Spring	32	Backup ring
16	Screw	33	Plate
17	Knob		

D Modular Valve