Two-Pressure Reducing Modular Valve

40 ℓ /min
0.2 to 14MPa

Features

①When 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).
②Even when pressure changes in the primary main circuit, the reduced secondary pressure is maintained at a constant level.
③Maximum Operating Pressure: 7, 25MPa {71.4, 255kgf/cm²}

Specifications

Model No.	Nominal Diameter (Size)	Maximum Working Pressure MPa{kgf/cm²}	Maximum Flow Rate ℓ /min	Pressure Adjustment Range MPa{kgf/cm²}		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}	4.8	ISO 4401-03-02-0-94
					0.8 to 7{ 8.2 to 71.4}		
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

Understanding Model Numbers

OGS – G 01 – P 1 C – K(R) – C1 – 22

- 22: Design number
- C1 – K(R): Power supply C1 : AC100V, C2 : AC200V; D1 : DC12V, D2 : DC24V
- K(R): Auxiliary symbol K: With handle (standard); R: With indicator light (optional)
- C: Low pressure side pressure adjustment range C, 1
- 1: High pressure side pressure adjustment range C, 1, 2 (There is no 11, 2C combination.)
- P: Control port P: P port
- 01: Nominal diameter (size) 01
- G: Mounting method G: Gasket type
- OGS: Pressure reducing modular valve for two-press setting

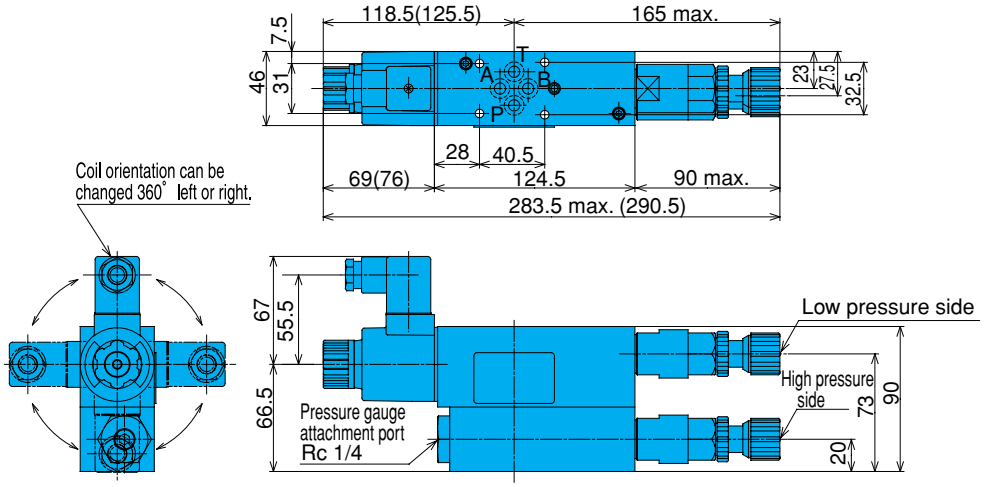
● Handling

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.

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

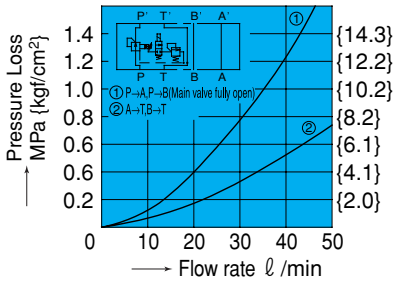
OGS-G01-P*C-K(R)-**-22



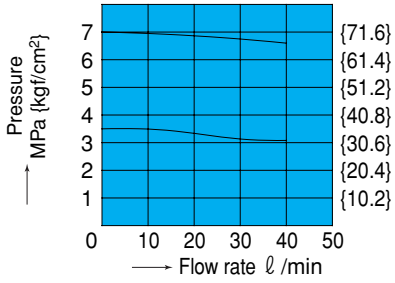
Performance Curves

Hydraulic Operating Fluid Viscosity 32mm²/s

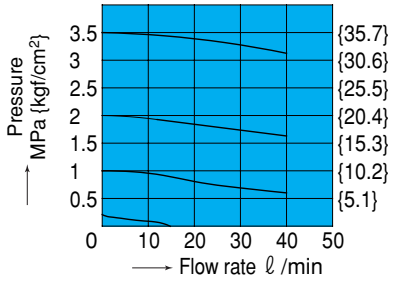
Pressure Loss Characteristics
OGS-G01-PIC-K-**-22



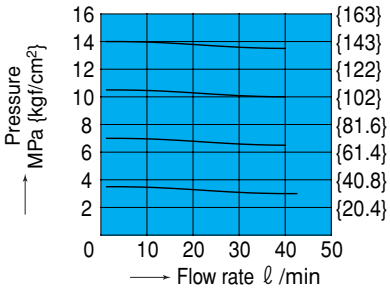
Pressure – Flow Rate Characteristics
OGS-G01-PIC-K-**-22
(Type 1)



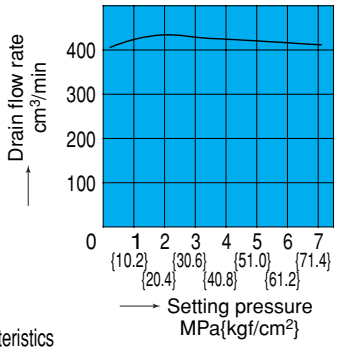
OGS-G01-P*C-K-**-22
(Type C))



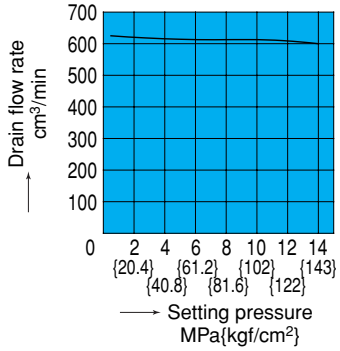
Pressure – Flow Rate Characteristics
OGS-G01-P21-K-**-22
(Type 2)



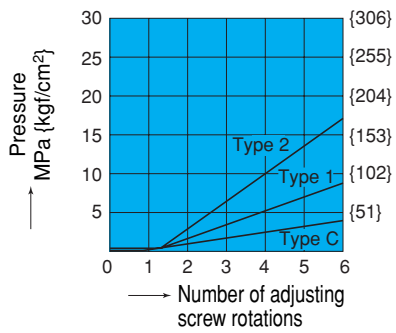
Pressure – Drain Rate Characteristics
OGS-G01-PIC-K-**-22



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

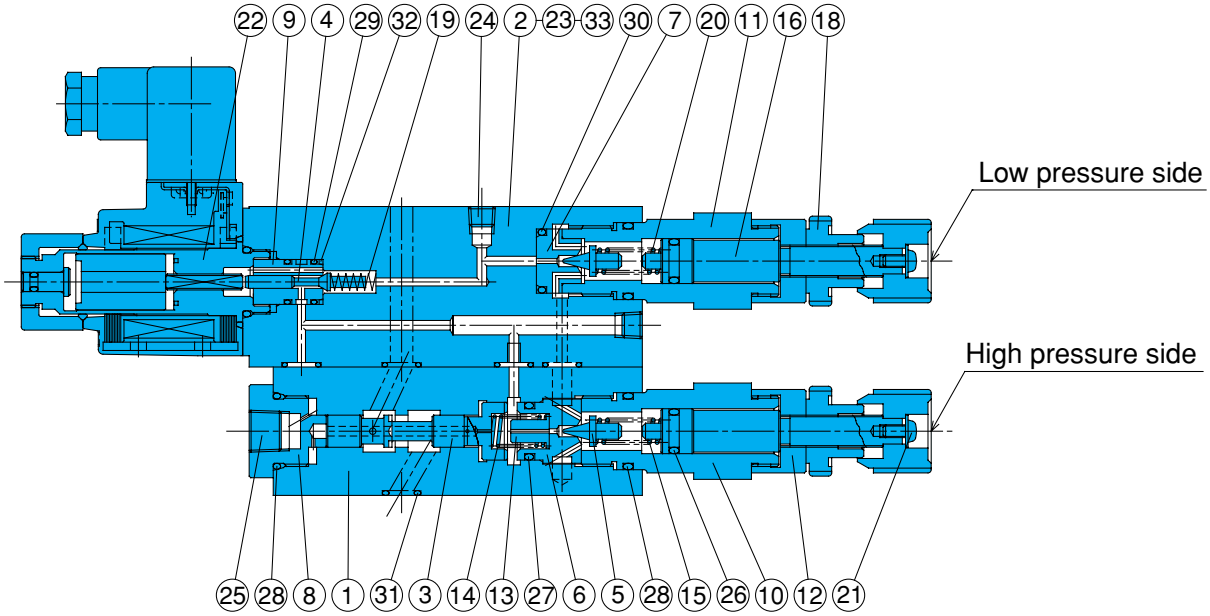


Number of Adjusting Screw Rotations – Pressure Characteristics
OGS-G01-P**-22



Cross-sectional Drawing

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



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

Part No.	Part Name	Part Number	Q'ty
26	O-ring	1A-P10A	2
27	O-ring	1B-P14	1
28	O-ring	1B-P20	3
29	O-ring	AS568-013(Hs90)	2
30	O-ring	1B-P16	1
31	O-ring	1B-P9	11
32	Backup ring	For AS568-013	1

Note) 1.O-ring 1A/B-** refers to JIS B2401-1A/B.

Part No.	Part Name
1	Body
2	Body
3	Spool
4	Spool
5	Poppet
6	Seat
7	Seat
8	Bushing
9	Sleeve
10	Retainer
11	Retainer
12	Bushing
13	Choke
14	Spring
15	Spring
16	Screw
17	Knob

Part No.	Part Name
18	Nut
19	Spring
20	Spring
21	Screw
22	Solenoid assy
23	Screw
24	Plug
25	Plug
26	O-ring
27	O-ring
28	O-ring
29	O-ring
30	O-ring
31	O-ring
32	Backup ring
33	Plate