Pressure Switch Modular Valve

50ℓ/min 25MPa



Features

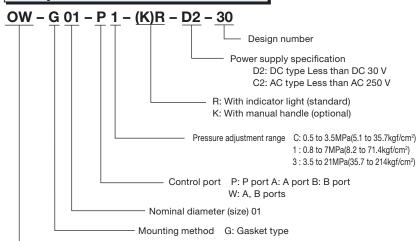
- This modular valve detects pressure changes inside the hydraulic circuit and opens and closes an electrical circuit accordingly.
- 2High precision detection, high precision circuit control, outstanding reli-
- ability.
- 3 Maximum operating pressure: 25MPa {255kgf/cm²}
- (4) Indicator light built into the DIN connector shows operational status at a glance.
- (5) A double type is also available for control of both port A and port B in a compact configuration.

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
OW-G01-PC-R-**-30 P1 P3	1/8	25{255}	50	0.5 to 3.5{ 5.1 to 35.7} 0.8 to 7{ 8.2 to 71.4} 3.5 to 21{35.7 to 214}	1.8	
OW-G01-AC-R-**-30 A1 A3				0.5 to 3.5{ 5.1 to 35.7} 0.8 to 7{ 8.2 to 71.4} 3.5 to 21{35.7 to 214}	1.8	l
OW-G01-BC-R-**-30 B1 B3				0.5 to 3.5{ 5.1 to 35.7} 0.8 to 7{ 8.2 to 71.4} 3.5 to 21{35.7 to 214}	1.8	ISO 4401-03-02-0-05
OW-G01-WC-R-**-30 W1 W3				0.5 to 3.5{ 5.1 to 35.7} 0.8 to 7{ 8.2 to 71.4} 3.5 to 21{35.7 to 214}	2.6	

Electrical			40	125V	5A	
Specifications Micro Switch	Contact Capacitance	AC	250V	3A		
Manufacturer:	(Resistive Load)		DC	14V	5A	
Omron				30V	4A	
Model No. SS-5	Mechanical Life		At least 1 × 10 ⁷			
	Electrical Life		At least 3×10^6 (AC,0.1A,cos ϕ =1)			
	Contact Resistance		30MΩ maximum (initial value)			
	Insulation Resistance		At least 100MΩ			
	Allowable Operating Frequency		60 times/minute (electrical)			
Environment	Dust Resistance/Water Resistance Rank		JIS C0920 IP64			
	Ambient Temperature		-20°C to 70°C (non-condensation)			
	Operating Fluid	Oil Temperature	-20°C to 7			
		Allowable kinematic viscosity Range	15 to 300n	nm²/s{cSt}	that is within both ranges.	
		Filtration	ration 25 µm maximum			

Explanation of model No.



Pressure switch modular valve

Handling

- 1 See the detailed explanation on the next page for information about wiring inside connectors.
- 2 Contacts are normally open type only, not normally closed type.
- 3In addition to load wiring, power supply wiring is also required to illuminate the indicator light. See the wiring diagram for more information.
- 4 If the DIN connector interferes with other valves, remove the two switch installation bolts and change the installation orientation.
 - If interference is caused in all orientations, install an interference blanker plate on top of the connector.
 - Contact your agent if an interference blanker plate is required.
- 5 Note that a special type of DIN connector is required. The DIN connector is not interchangeable with the one for the SA type solenoid valve.
- lf you cannot remove the DIN connector when wiring, remove the switch installation bolts and then remove the DIN connector. The tightening torque for the installation bolts is 5 to 7Nm {51 to 71kgf/cm}.
- This valve has drain volume the same as the OG-GO1 (decompression valve) the port for detecting structural pressure
- 8 Do not include inductive components or capacitive components in the loaded circuit that connects to the valves because they significantly reduce the life of the micro-switches. Contact us for details.

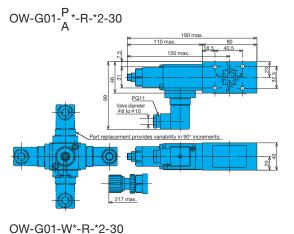
Model No.	Power supply specification	Wiring	Electrical Circuit Diagram		
BRC41-01WD2	D2	OW Terminal 1 is connected to load, while Terminals 2 to +). OW Terminal 1 is connected to power (Terminal 2 to -). OW Terminal 1 is connected to power (Terminal 2 and 3 are connected to load, while Terminals 2 and 3 are connected to load, while Terminals 2 and 3 are connected to power (Terminal 2 to -).	Normal open type with indicator DIN connector 2 3 Switch inside of valve Pressure increase causes indicator to light. Circuit closed (ON) Pressure decrease causes indicator to go out Circuit open (OFF)		
BRC41-01WC2	C2	OW Terminal 1 is connected to load, while Terminals 2 and 3 are connected to power (Terminal 2 is nonpolar).	Normal open type with indicator DIN connector Neen lamp Switch inside of valve Pressure increase causes indicator to light Circuit closed (ON) Pressure decrease causes indicator to go out. Circuit open (OFF)		

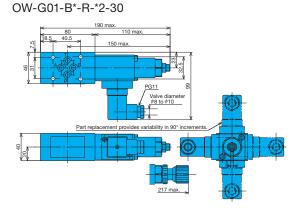
- Note) 1. The DIN connector wiring connector port size is PG11.
 2. The compatible cable diameter for the DIN connector is φ 8 to φ 10. Dust resistance and water resistance is lost for any cable outside this range.
 3. The connector can be installed in different orientations are 90-degree increments by changing the orientation of the terminal block.

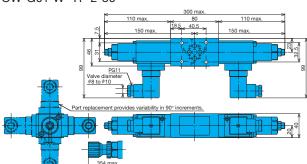
 - 4. The connector is designed so the cover cannot be removed unless the installation screws are removed.
 5. Use M3 for round type and Y type solderless terminals.
 6. The tightening torque of M3 screws used for securing connectors and for terminals is 0.3 to 0.5Nm.

Installation Dimension Drawings

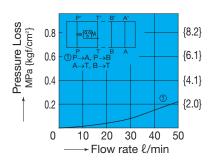
Note) Pressure is increased by clockwise (rightward) rotation of the adjusting screw, and decreased by counterclockwise (leftward) rotation.





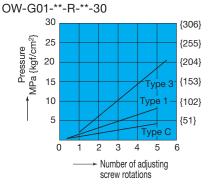


Pressure Loss Characteristics OW-G01-**-R-**-30

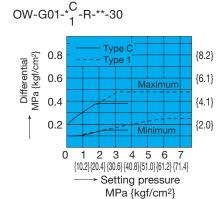


Number of Adjusting Screw Rotations

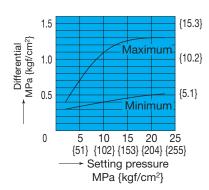
— Pressure Characteristics



Setting Pressure — Differential Characteristics

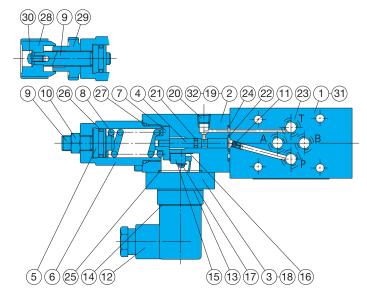


OW-G01-*3-R-**-30



Cross-sectional Drawing

OW-G01-P*-R-*2-30



Part No.	Part Name	Part No.	Part Name
1	Body	17	Screw
2	Cover	18	Screw
3	Cover	19	Screw
4	Piston	20	Plug
5	Push rod	21	O-ring
6	Retainer	22	O-ring
7	Guide	23	O-ring
8	Spring	24	O-ring
9	Screw	25	O-ring
10	Nut	26	O-ring
11	Choke	27	O-ring
12	Connector	28	Knob
13	Gasket	29	Nut
14	Gasket	30	Screw
15	Micro switch assy	31	Plate
16	Separator	32	Plate

Seal Part List (Kit Model Number BRCS-01W*-0A)

Part	Part Name	Part Number	Q'ty			
No.	Part Name	Part Number	Р	W	Α	В
21	O-ring	NBR-70-1 P3	1	2	1	1
22	O-ring	AS568-011(NBR-90)	1	2	1	1
23	O-ring	AS568-012(NBR-90)	4	4	4	4
24	O-ring	AS568-019(NBR-70-1)	1	2	1	1
25	O-ring	AS568-022(NBR-70-1)	1	2	1	1
26	O-ring	NBR-70-1 P15	1	2	1	1
27	O-ring	NBR-90 P22	1	2	1	1

Note) Specify P, W, A, or B for the asterisk (*) in the kit model number.