

Regulator Standard White Series

R1000/R2000/R3000 R4000/R6000/R8000-W Series

Compact, pressure gauge embedded.

● Port size: 1/8 to 1

JIS symbol 

RoHS CAD

Specifications

Item	R1000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
Appearance						
Working fluid	Compressed air					
Max. working pressure MPa	1.0 (≈150 psi, 10 bar)					
Proof pressure MPa	1.5 (≈220 psi, 15 bar)					
Ambient / fluid temperatures °C	5 (41°F) to 60 (140°F) *1					
Set pressure MPa	0.05 (≈7.3 psi, 0.5 bar) to 0.85 (≈120 psi, 8.5 bar)					
Pressure relief	With relief mechanism					
Port size Rc,NPT,G	1/8,1/4 (3/8 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8 (1/2 uses an adaptor)	1/4,3/8,1/2 (3/4 uses an adaptor)	3/4,1 (1 1/4 uses an adaptor)	3/4,1 (1 1/4 uses an adaptor)
Weight kg	0.16	0.31	0.45	0.7	1.0	1.6
Standard accessories	Pressure gauge, nut for panel mount					Pressure gauge

*1: The ambient / fluid temperatures is 5 to 50°C for pressure switch with display PPR assembly "RN"/"RP" or digital pressure sensor PPX attachment "R2".

Option weight

* Add to the weight of the standard accessories.

Unit: kg

Code	Pressure gauge		Pipe adaptor set							Attachment		
	T*	RN/RP	A6*W	A8*W	A10*W	A15*W	A20*W	A25*W	A32*W	BW	B3W	B4W
R1000	0	0.04	0.09	0.09	0.09					0.1	0.04	
R2000	0	0.04		0.16	0.16	0.16				0.15	0.06	0.17
R3000	0	0.04		0.16	0.16	0.16				0.17	0.07	
R4000	0	0.04		0.16	0.16	0.16	0.16			0.21	0.11	
R6000	0	0.04					0.53	0.53	0.53	0.34	0.11	
R8000	0	0.04					0.53	0.53	0.53	0.36		

Code	Attachment					
	G45P	G49P	G59P	G40P	G52P	R2
R1000	0.074	0.086	0.115	0.085	0.15	0.04
R2000	0.074	0.086	0.115	0.085	0.15	0.04
R3000	0.074	0.086	0.115	0.085	0.15	0.04
R4000	0.074	0.086	0.115	0.085	0.15	0.04
R6000	0.074	0.086	0.115	0.085	0.15	0.04
R8000	0.074	0.086	0.115	0.085	0.15	0.04

Ozone-proof specs (Ending Page 12)

R*000 - … - W… - P11

Clean-room specs (Catalog No. CB-033SA)

● Anti-dust generation structure for use in cleanrooms

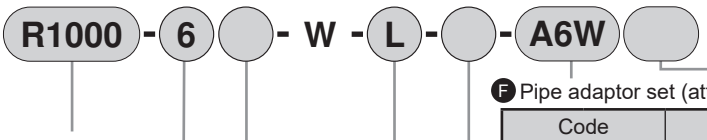
R*000 - ……. - P7*

Specs for rechargeable battery (Catalog No. CC-1226A)

● Structure compatible with rechargeable battery manufacturing process

R*000 - ……. - P4*

How to order



* Refer to page 30 for the explanation of the option.

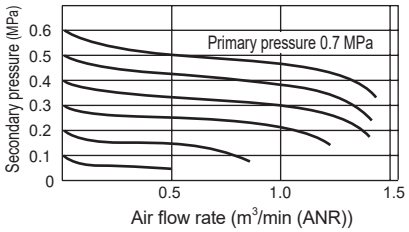
Code	Description	Ⓐ Model No. R1000	R2000	R3000	R4000	R6000	R8000
Ⓑ Port size							
6	1/8	●					
8	1/4	●	●	●	●		
10	3/8		●	●	●		
15	1/2				●		
20	3/4					●	●
25	1					●	●
Ⓒ Port thread							*1
Blank	Rc thread	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●
Ⓓ Option							*2
Pressure range **Blank**	0.05 to 0.85 MPa	●	●	●	●	●	●
L	0.05 to 0.35 MPa *3	●	●	●	●	●	●
Pressure relief **Blank**	With relief mechanism	●	●	●	●	●	●
N	Non-relief	●	●	●	●	●	●
Pressure gauge **Blank**	With standard pressure gauge (G401-W)	●	●	●	●	●	●
T	No pressure gauge (gauge port (1/4) is assembled sealed)	●	●	●	●	●	●
T8	Pressure gauge ready (gauge port (1/4) is left open)	●	●	●	●	●	●
T6	Digital pressure sensor PPX attachment option *4	●	●	●	●	●	●
RN	Pressure switch with display, PPR assembled (NPN output 1 point)	●	●	●	●	●	●
RP	Pressure switch with display, PPR assembled (PNP output 1 point)	●	●	●	●	●	●
Flow direction **Blank**	Standard flow (left → right)	●	●	●	●	●	●
X1	Reverse flow (right → left)	●	●	●	●	●	●
Ⓔ Unit indicated							
Blank	MPa display (Rc thread), psi display (NPT thread)), bar display (G thread)	●	●	●	●	●	●
J1	MPa display (NPT, G threads)	●	●	●	●	●	●
Ⓕ Pipe adaptor set (attachments)							*5, *6 Page 350
Blank	Not included	●	●	●	●	●	●
A6*W	1/8 pipe adaptor set	●					
A8*W	1/4 pipe adaptor set	●	●	●	●		
A10*W	3/8 pipe adaptor set	●	●	●	●		
A15*W	1/2 pipe adaptor set		●	●	●		
A20*W	3/4 pipe adaptor set				●	●	●
A25*W	1 pipe adaptor set					●	●
A32*W	1 1/4 pipe adaptor set					●	●
*** Adaptor thread**							
Blank	Rc thread	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●
Ⓖ Attachment							*7 Pages 346 and 363
Blank	Not included	●	●	●	●	●	●
BW	C-bracket	●	●	●	●	●	●
B3W	L-bracket *8	●	●	●	●	●	
B4W	B-bracket		●				
G45P	G45D-8-P10 (L: G45D-8-P04)	●	●	●	●	●	●
G49P	G49D-8-P10(L:G49D-8-P04)	●	●	●	●	●	●
G59P	G59D-8-P10(L:G59D-8-P04)	●	●	●	●	●	●
G40P	G40D-8-P10(L:G40D-8-P04)	●	●	●	●	●	●
G52P	G52D-8-P10(L:G52D-8-P10)	●	●	●	●	●	●
R 2 *4	Digital pressure sensor: PPX-R1ON-6M	●	●	●	●	●	●

⚠ Precautions for model No. selection

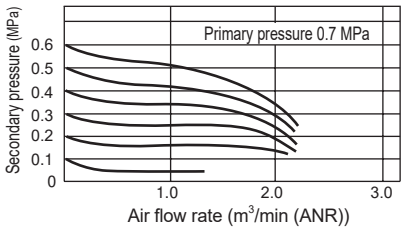
*1: G threads and NPT threads are available for IN, OUT and gauge ports.
*2: When selecting options for several items, list options in order from the top.
*3: The pressure gauge's indication range is 0 to 0.4 MPa for the option "L".
*4: When the option "T6" is selected, only "Blank" or "R2" can be selected for Ⓖ Other attachments. The digital pressure sensor PPX mounting port (Rc1/8) is left open.
*5: The pipe adaptor set and C-bracket cannot be used together.
*6: The joiner set is enclosed with the pipe adaptor set.
*7: The pressure gauge and digital pressure sensor (included) can be selected only when Ⓒ Port thread is Rc thread.
*8: For details on mounting the L-bracket, refer to (2. Regulator) of "⚠Cautions and Installation & Adjustment" (page 357).
*9: Display unit options when selecting NPT threads: If Blank is selected, the pressure unit is psi and the temperature display unit is °F.
When G thread and Blank display unit option are selected, the pressure unit will be bar and the temperature display unit will be °C.
When NPT/G thread and "J1" display unit option are selected, the pressure unit will be MPa and the temperature display unit will be °C.

Flow characteristics

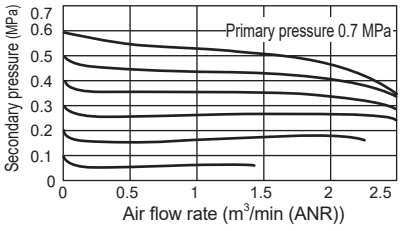
● R1000-6-W



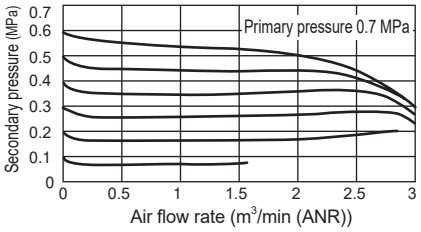
● R1000-8-W



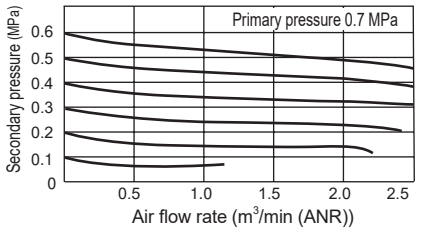
● R2000-8-W



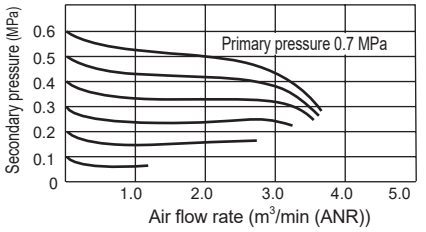
● R2000-10-W



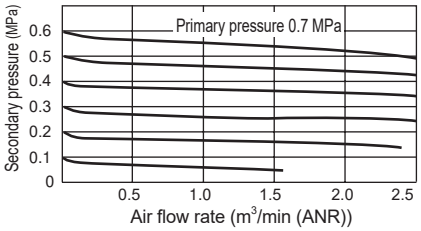
● R3000-8-W



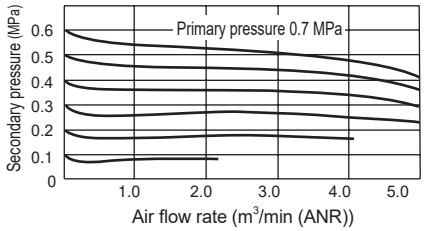
● R3000-10-W



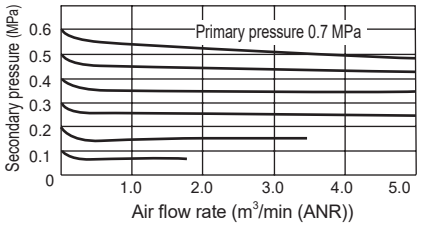
● R4000-8-W



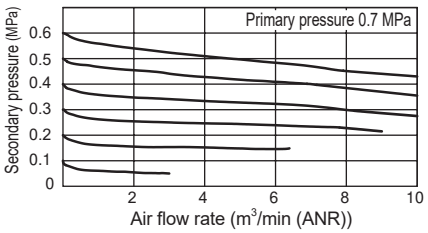
● R4000-10-W



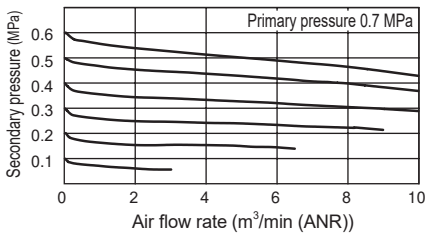
● R4000-15-W



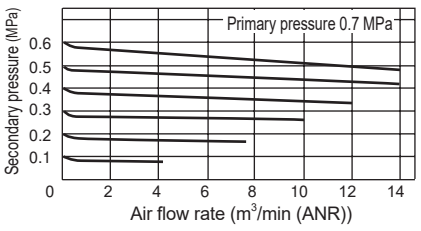
● R6000-20-W



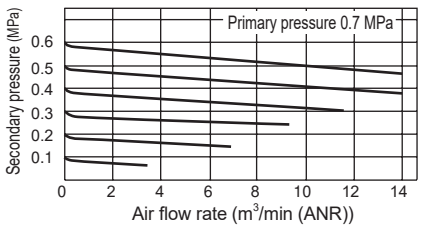
● R6000-25-W



● R8000-20-W

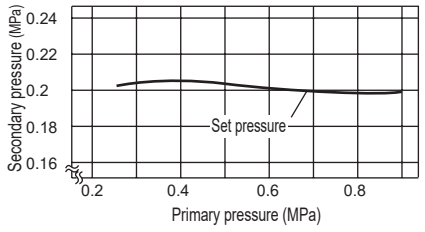


● R8000-25-W

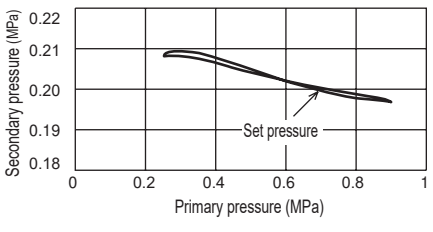


Pressure characteristics

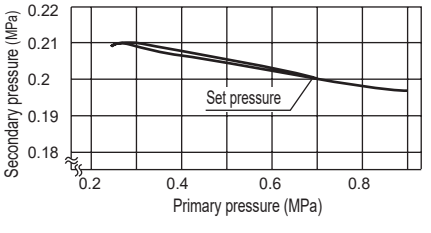
● R1000-W



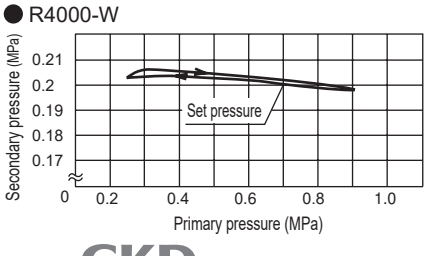
● R2000-W



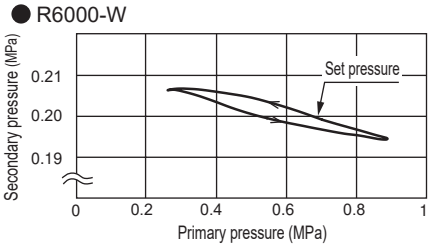
● R3000-W



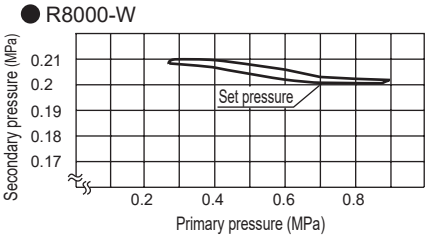
● R4000-W



● R6000-W

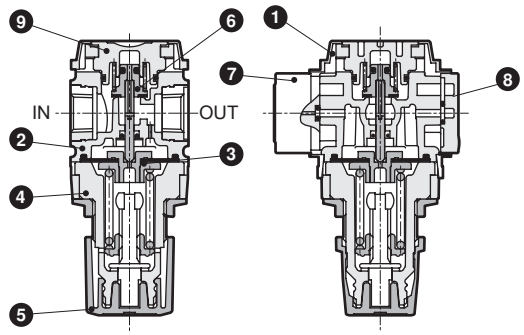


● R8000-W

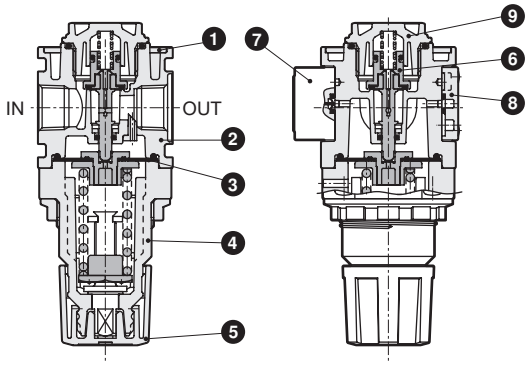


Internal structure and parts list

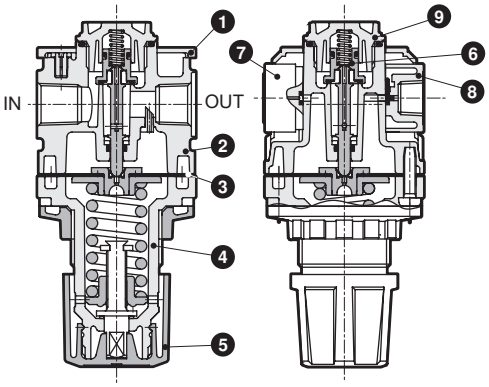
● R1000-W



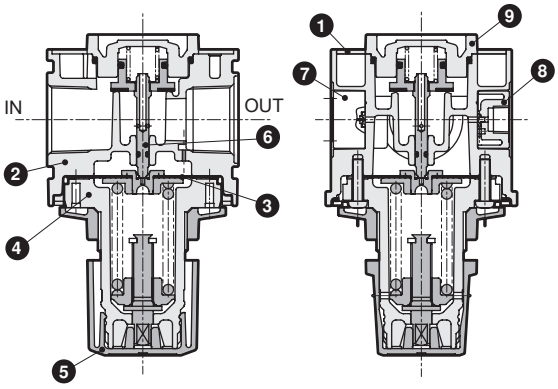
● R2000-W



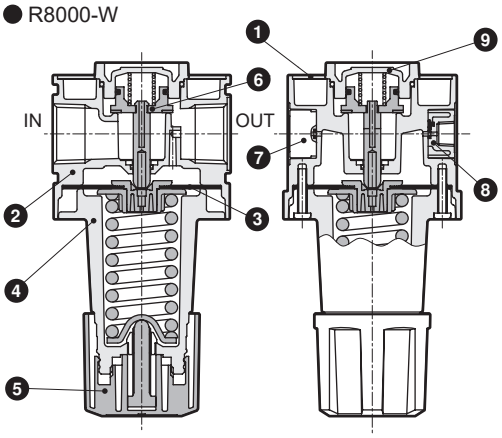
● R3000-W/R4000-W



● R6000-W



● R8000-W



No.	Part name	Material					
		R1000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
1	Plate cover	ABS resin					
2	Body	Polyamide resin, steel	Aluminum alloy die-casting	Aluminum alloy die-casting			
3	Diaphragm assembly	Polyacetal resin nitrile rubber		Zinc alloy die-casting, nitrile rubber *3			
4	Cover	Polyamide resin	PBT resin				Aluminum alloy die-casting
5	Knob	Polyacetal resin					
6	Valve assembly	Copper alloy, hydrogenated nitrile rubber (polyacetal resin: R2000, R3000, 4000, 8000)					
7	Pressure gauge assembly	PBT resin, nitrile rubber, polyacetal resin, polycarbonate resin, copper alloy, steel					
8	Gauge plug assembly	-	-	Polyamide resin, nitrile rubber, steel			
	Blanking plug assembly *1	PBT resin, nitrile rubber, copper		-		-	-
9	Bottom plug *4	Polyacetal resin				Aluminum alloy die-casting	

*1: A blanking plug is attached to R1000-W and R2000-W standard types.
*2: Refer to page 151 for repair parts.
*3: Aluminum is added for the R6000-W low-pressure type.
*4: The material of RM3000-W and RM4000-W Series is aluminum die-casting.