

F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
Oil-ProhR
MedPresFR
No Cu/
PTFE FRL
Outdrs FR
F.R.L
(Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneur
AirBoost
SpdContr
Silncr
CheckV/
other
Jnt/tube
AirUnt
PresCompn
Mech/
ElecPresSw
ContactSW
AirSens
PresSW
Cool
AirFloSens/
Contr
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending



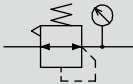
Regulator for water

WR1/WR2 Series

Easy-to-use compact regulator for water

● Port size: Rc1/8 to Rc1/2

JIS symbol



RoHS

Features

- Specially designed knob shape for easy pressure adjustment
- A single push can lock the pressure adjustment knob.
- Mesh filter is supplied as standard.
- RoHS compliant

Main applications

- Control pressure: A constant pressure can be obtained even if the flow rate is unstable.
- Flow rate control: The desired flow rate can be attained when used together with a metering valve.
- Protecting equipment: Equipment can be protected from primary side pressure fluctuations.

Equipment examples: Laser processing machine, welding machine, dental instrument, etc.

Specifications

Descriptions	WR1	WR2
Working fluid	General industrial clear water, compressed air	
Max. working pressure MPa	1.0 (≈150 psi, 10 bar)	
Proof pressure MPa	1.75 (≈250 psi, 17.5 bar)	
Ambient / fluid temperatures °C	5 (41°F) to 60 (140°F)	
Set pressure MPa	Standard: 0.05 (≈7.3 psi, 0.5 bar) to 0.70 (≈100 psi, 7 bar) Low pressure: 0.02 (≈2.9 psi, 0.2 bar) to 0.35 (≈51 psi, 3.5 bar)	
Pressure relief	Non-relief	
Port size (IN/OUT)	Rc1/8,Rc1/4	Rc3/8,Rc1/2
Pressure gauge port size	Rc1/8	
Weight kg	0.22	0.41(Rc3/8),0.44(Rc1/2)
Standard specifications	With mesh filter	

Option weight

* Add to the weight of the standard accessories.

Unit: kg

	Panel mount	Pressure gauge	Bracket
Code	P	G	B
WR1/WR2	0.025	0.086	0.03

How to order

WR1 - 8 - N L - G

A Model No.

B Port size

C Option

D Attachment

A Model No.

WR1

WR2

Code	Content	WR1	WR2	
B Port size				
6	Rc1/8	●		
8	Rc1/4	●		
10	Rc3/8		●	
15	Rc1/2		●	
C Option				
Panel mount *1	Blank	Without nut	●	●
	P	With nut	●	●
Pressure range	Blank	0.05 to 0.7 MPa	●	●
	L	0.02 to 0.35 MPa	●	●
D Attachment				
Blank	Not attached	●	●	
B *1	Bracket	●	●	
G *2	Pressure gauge (G49D-6-P10) [86 g]	●	●	

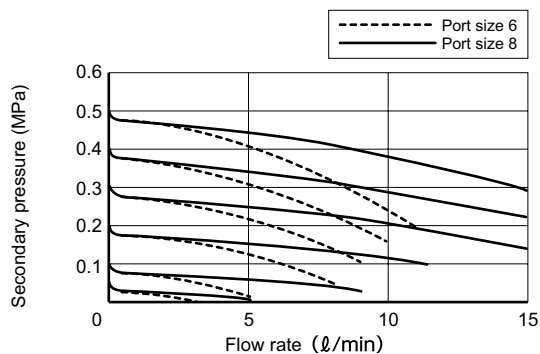
*1: "B " bracket attached is available only for option code P (panel mount).
A panel mounting nut cannot be retrofitted in a product without panel mounting nut.

*2: If the pressure range "L" is selected, the pressure gauge G49D-6-P04 for 0.4 MPa will be supplied.

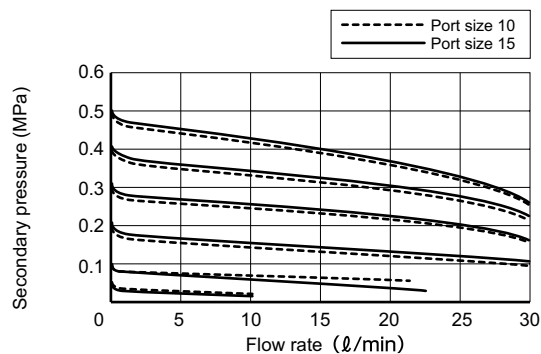
*3: A pipe plug (R1/8) is supplied with the product.

Flow characteristics (water) Primary pressure 0.7 MPa

●WR1-6-N,WR1-8-N

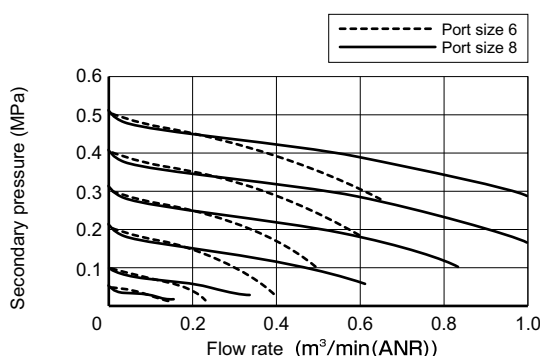


●WR2-10-N,WR2-15-N

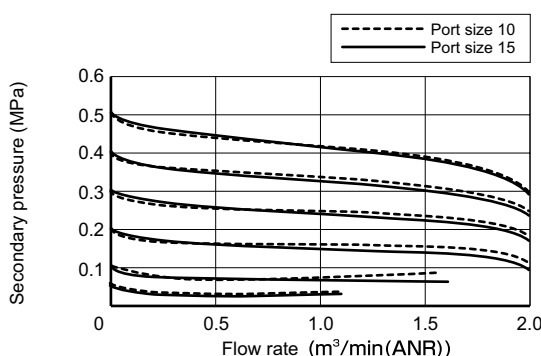


Flow characteristics (air) Primary pressure 0.7 MPa

●WR1-6-N,WR1-8-N

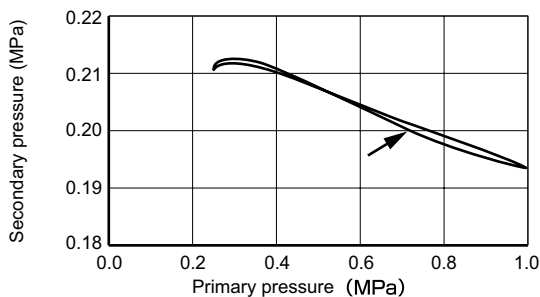


●WR2-10-N,WR2-15-N

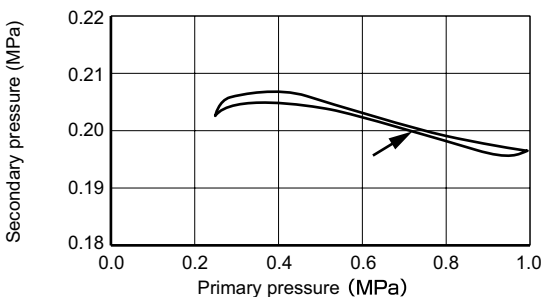


Pressure characteristics (water/air) set point →

●WR1



●WR2



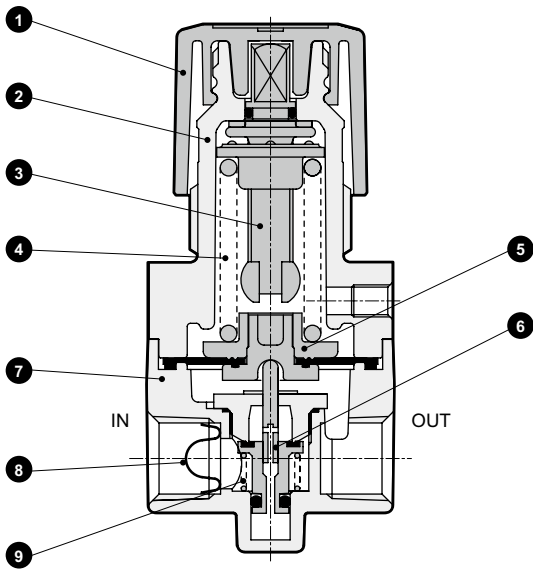
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SpdContr
Silncr
CheckV/ other
Jnt/tube
AirUnt
PrecsCompn
Mech/ ElecPresSw
ContactSW
AirSens
PresSW Cool
AirFloSens/ Contr
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

WR1/WR2 Series

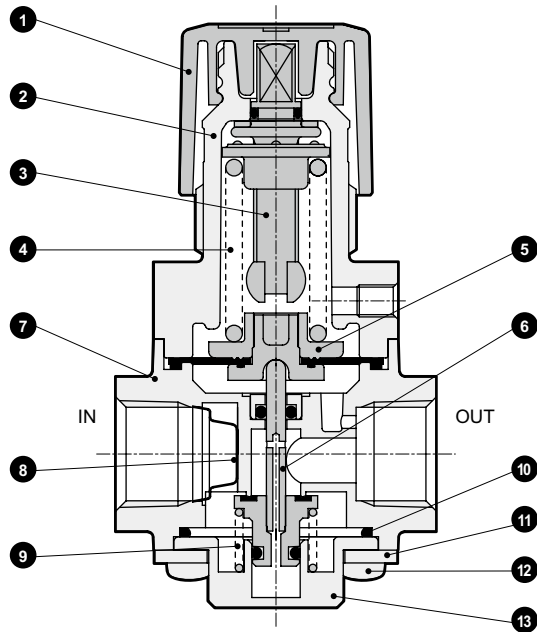
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Jnt/tube
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Internal structure and parts list

●WR1



●WR2



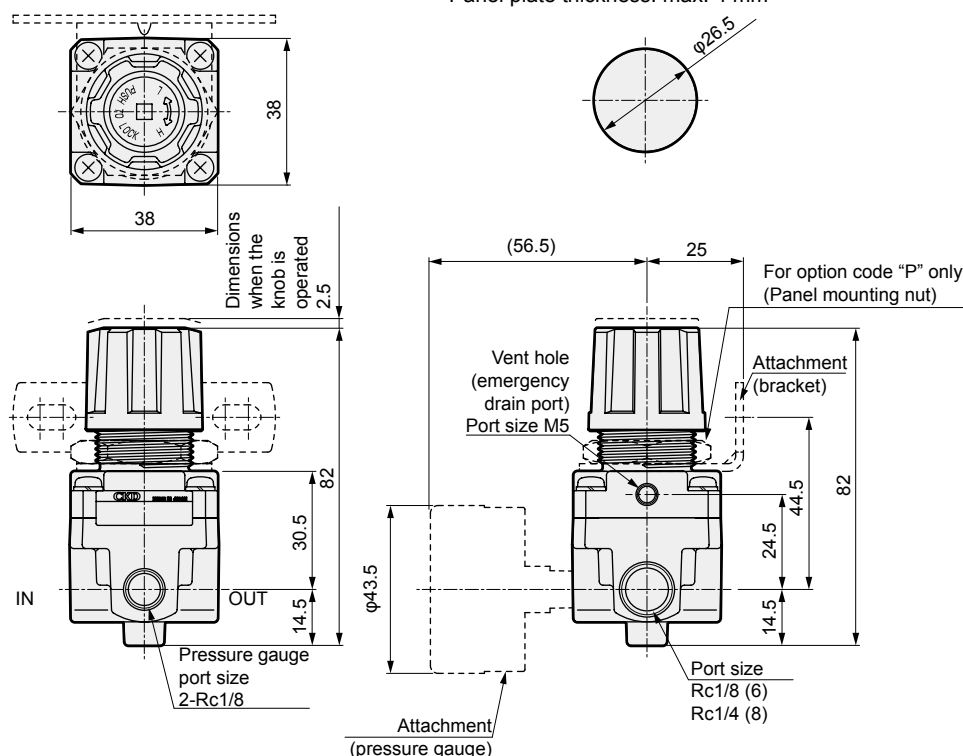
No.	Part name	Material	No.	Part name	Material
1	Knob	Polyacetal resin	8	Mesh filter	Stainless steel
2	Cover	PBT resin	9	Bottom spring	Stainless steel
3	Pressure adjusting screw assembly	Steel, polyacetal resin, nitrile rubber	10	O-ring	Nitrile rubber
4	Spring	Steel	11	Plate	Stainless steel
5	Diaphragm assembly	Nitrile rubber, polyacetal resin	12	Thread	Steel (nickel plating)
6	Valve assembly	Copper alloy, stainless steel, nitrile rubber	13	Bottom cap	Copper alloy
7	Body assembly	Copper alloy, nitrile rubber, polyacetal resin *			

* WR1 only

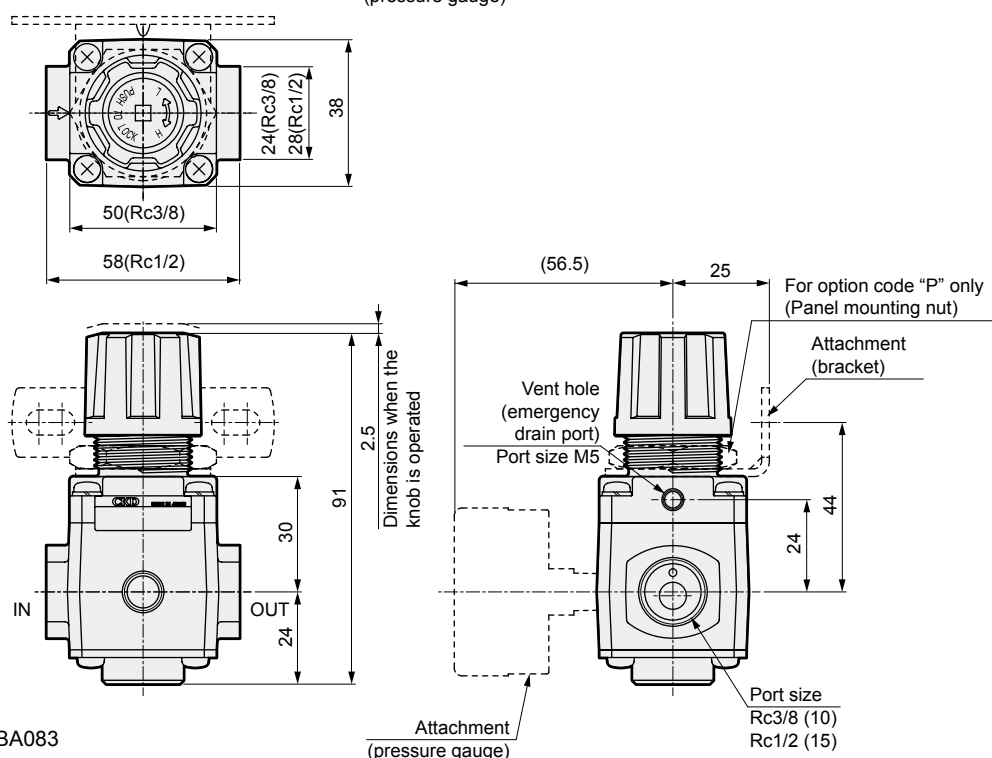
Dimensions

● WR1

Panel cut dimension
Panel plate thickness: max. 4 mm

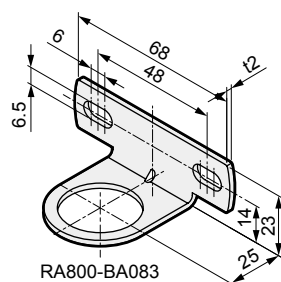


● WR2



● Bracket: RA800-BA083

Material: Steel
Zinc plated



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