

Regulator for water

WR1/WR2 Series

Easy-to-use compact regulator for water

Port size: Rc1/8 to Rc1/2

JIS symbol





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 : An arbitrary 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

FAB/G

FGB/G

FVB

FWB/G

FHB

FLB

AB

AG

AP/ AD APK/ ADK

DryAir EX-XPLNprf

XPLNprf HVB/ HVL S≎B/ NAB

LAD/ NAD

Water-Rela

NP/NAP/ NVP

SNP

CHB/G

MXB/G

Other

valves

SWD/

MWD

DustColl

CVE/

CVSE

CCH/ CPE/D

LifeSci

Combus

Auto-Water

Outdoor

SpecFld

Custom

Gas-

1 MPa = 10 bar

Item		WR1	WR2		
Working fluid		General industrial pure water, compressed air			
Max. working pressure MPa		1.0 (≈150 psi, 10 bar)			
Proof pressure MF	²a	1.75 (≈250 psi, 17.5 bar)			
Ambient / fluid temperatures °C		5 (41°F) to 60 (140°F)			
Set pressure MF	, [Standard: 0.05 (≈7.3 psi) to 0.70 (≈100 psi)			
Set pressure MF	a	Low pressure: 0.02 (≈2.9 psi) to 0.35 (≈51 psi)			
Pressure relief		Non-relief			
Port size (IN/OUT) Rc1/8, Rc1/4 Rc3/8, Rc1		Rc3/8, Rc1/2			
Pressure gauge port siz	ze	Rc1/8			
Weight k	ιg	0.22	0.41(Rc3/8), 0.44(Rc1/2)		

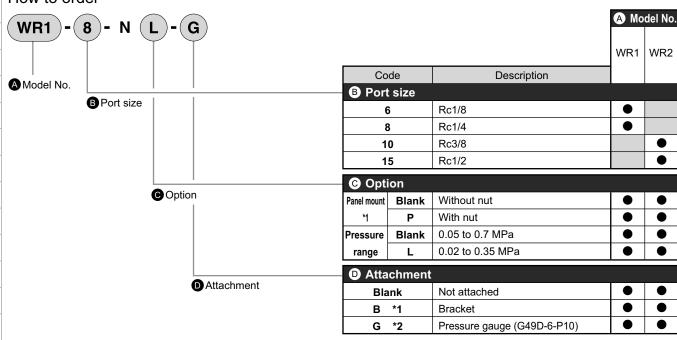
With mesh filter

Option weight

* Add to the weigh	t of the standard	Unit: kg	
	Panel mount	Pressure gauge	Bracket
Code	Р	G	В
WR1/WR2	0.025	0.086	0.03

How to order

Standard specifications



- *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 attached.
- *3 : One plug (R1/8) is included with the product.

Ending

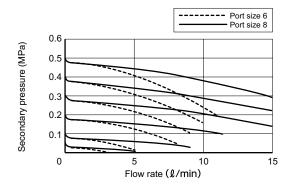
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WR1/WR2 Series

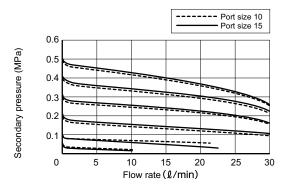
Flow characteristics/pressure characteristics

Flow characteristics (water) Primary pressure 0.7 MPa

●WR1-6-N, WR1-8-N

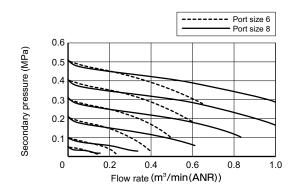


●WR2-10-N, WR2-15-N

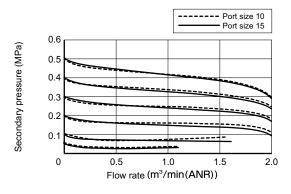


Flow characteristics (air) Primary pressure 0.7 MPa

●WR1-6-N, WR1-8-N

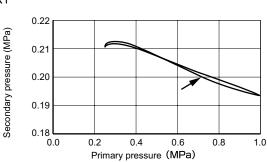


●WR2-10-N, WR2-15-N

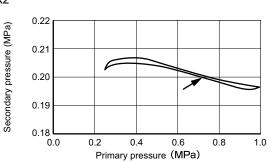


Pressure characteristics (water/air) set point 🖊

●WR1



●WR2



EXA

FWD

HNB/G

USB/G

FAB/G

FGB/G

FVB

FWB/G FHB

FLB

AB

AG

AP/ AD

APK/ ADK

DryAir

EX-XPLNprf XPLNprf

HVB/ HVL S\$B/ NAB

LAD/ NAD

Rela NP/NAP/ NVP

SNP CHB/G

MXB/G

Other valves SWD/MWD

DustColl
CVE/

CVSE CCH/ CPE/D

LifeSci

Gas-Combus Auto-Water

Outdoor

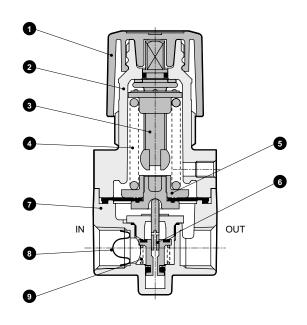
SpecFld

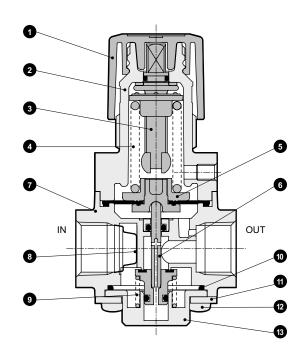
Custom

WR1/WR2 Series

Internal structure and parts list

●WR1 ●WR2





	No.	Part name	Material	No.	Part name	Material
	1	Knob	Polyacetal resin	8	Mesh filter	Stainless steel
4	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
ļ	7	Body assembly	Copper alloy, nitrile rubber, polyacetal resin*			* WR1 only

EX-XPLNprf

XPLNprf

HVB/
HVL

S \$ B/
NAB

LAD/
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WaterRela

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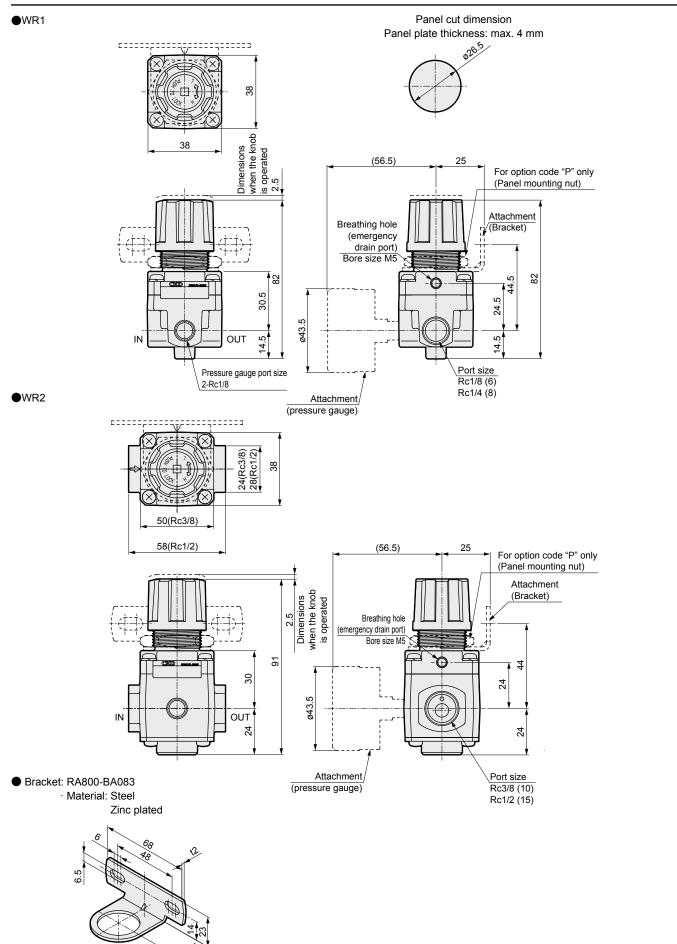
Ending

WR1/WR2 Series

Dimensions

Dimensions

RA800-BA083



FWD

HNB/G

EXA

USB/G

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FGB/G

FVB

FWB/G

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Ending