

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
 VacFR
 Clean FR
 ElecPneR
 AirBoost
 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



Regulator Flame-resistant series

R3000/R4000/R8000-G4 Series

● Port size: 1/4 to 1

JIS symbol



Specifications

Descriptions	R3000-G4	R4000-G4	R8000-G4
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)		
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	1/4,3/8 (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)
Weight kg	0.52	0.77	1.6
Standard specifications	Exterior: Flame-resistant material, nut for panel mounting		Exterior: Flame-resistant material

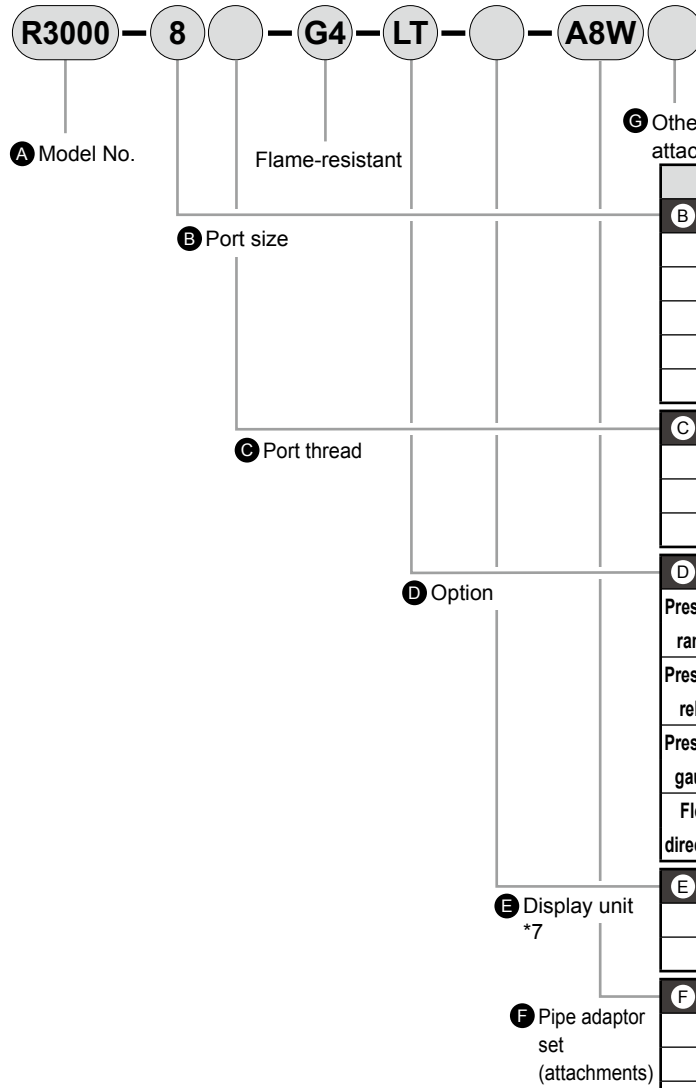
Option weight

* Add to the weight of the standard accessories.

Unit: kg

Code	Pressure gauge	Pipe adaptor set						Attachment			
	T*	A8*W	A10*W	A15*W	A20*W	A25*W	A32*W	BW	B3W	G49P	G59P
R3000-G4	0	0.16	0.16	0.16				0.17	0.07	0.086	0.115
R4000-G4	0	0.16	0.16	0.16	0.16			0.21	0.11	0.086	0.115
R8000-G4	0				0.53	0.53	0.53	0.36		0.086	0.115

How to order



* Refer to page 28 for the explanation of the option.

A Model No.

Model No.	R3000	R4000	R8000
R3000	●	●	●
R4000	●	●	●
R8000	●	●	●

Code	Content	R3000	R4000	R8000
B Port size				
8	1/4	●	●	●
10	3/8	●	●	●
15	1/2	●	●	●
20	3/4	●	●	●
25	1	●	●	●

Code	Content	R3000	R4000	R8000
C Port thread				
Blank	Rc thread	●	●	●
N	NPT thread	●	●	●
G	G thread	●	●	●

Code	Content	R3000	R4000	R8000	
D Option					
Pressure range	Blank	0.05 to 0.85 MPa	●	●	●
	L	0.05 to 0.35 MPa	●	●	●
Pressure relief	Blank	With relief mechanism	●	●	●
	N	Non-relief	●	●	●
Pressure gauge	T	No pressure gauge (gauge port (1/4) is assembled sealed)	●	●	●
	T8	Pressure gauge ready (gauge port (1/4) is left open)	●	●	●
Flow direction	Blank	Standard flow (left → right)	●	●	●
	X1	Reverse flow (right → left)	●	●	●

Code	Content	R3000	R4000	R8000
E Display unit				
Blank	MPa display, Rc thread	●	●	●
J1	MPa display, NPT, G thread	●	●	●

Code	Content	R3000	R4000	R8000
F Pipe adaptor set (attachments)				
Blank	Not attached	●	●	●
A8*W	1/4 pipe adaptor set (white)	●	●	●
A10*W	3/8 pipe adaptor set (white)	●	●	●
A15*W	1/2 pipe adaptor set (white)	●	●	●
A20*W	3/4 pipe adaptor set (white)	●	●	●
A25*W	1 pipe adaptor set (white)	●	●	●
A32*W	1 1/4 pipe adaptor set (white)	●	●	●

Code	Content	R3000	R4000	R8000
* Adaptor thread				
Blank	Rc thread	●	●	●
N	NPT thread	●	●	●
G	G thread	●	●	●

Code	Content	R3000	R4000	R8000
G Other attachments				
Blank	Not attached	●	●	●
BW	C type bracket (silver)	●	●	●
B3W	*5 L type bracket (silver)	●	●	●
G49P	G49D-8-P10(L:G49D-8-P04)	●	●	●
G59P	G59D-8-P10(L:G59D-8-P04)	●	●	●

⚠️ Precautions for model No. selection

- *1: When G threads or NPT threads are selected, the IN, OUT and gauge ports are the targets.
- *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: The pipe adaptor set and C type bracket cannot be used together.
- *5: For details on mounting the L type bracket, refer to (2. Regulator) of "⚠️ Cautions and Installation & Adjustment" (page 283).
- *6: If NPT is selected for C Port thread, an NPT pressure gauge is supplied. If Rc or G thread is selected, an R thread pressure gauge is supplied.
- *7: 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.

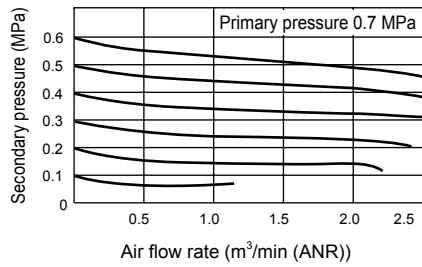
F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
Oil-ProhR
MedPresFR
No Cu/ PTFE FRL
Outdrs FR
F.R.L (Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
SpdContr
Silncr
CheckV/ other
Jnt/tube
AirUnt
PrecsCompn
Mech/ ElecPresSw
ContactSW
AirSens
PresSW Cool
AirFloSens/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

Regulator series

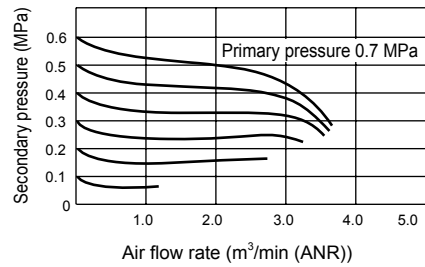
F.R.L Flow characteristics

- 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
- VacFR
- Clean FR
- ElecPneuR
- AirBoost
- 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

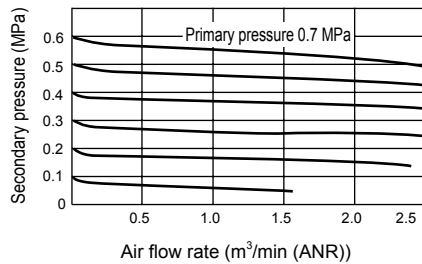
● R3000-8-G4



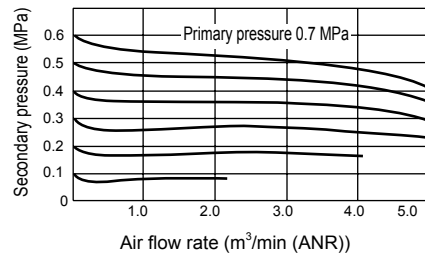
● R3000-10-G4



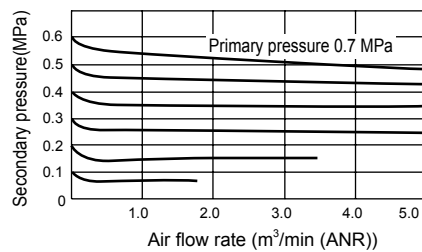
● R4000-8-G4



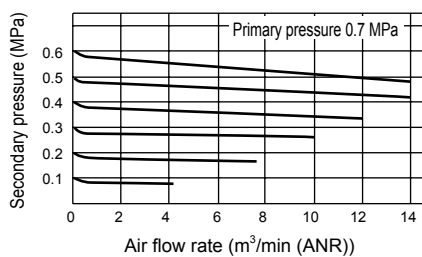
● R4000-10-G4



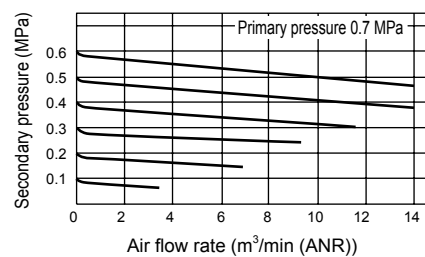
● R4000-15-G4



● R8000-20-G4



● R8000-25-G4

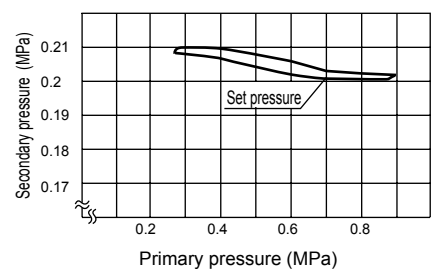
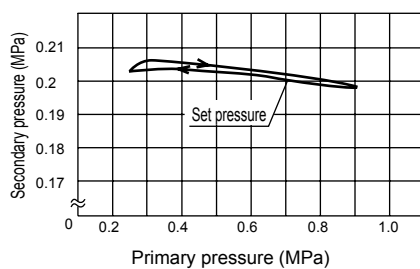
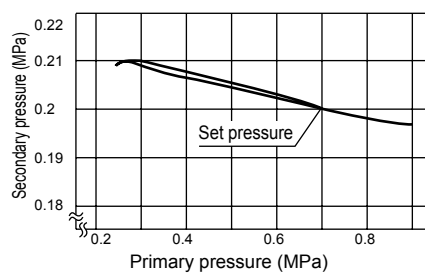


Pressure characteristics

● R3000-G4

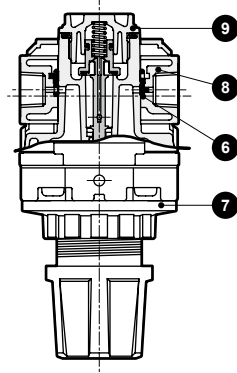
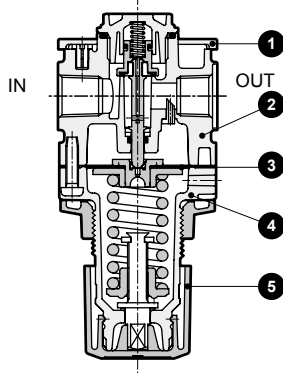
● R4000-G4

● R8000-G4

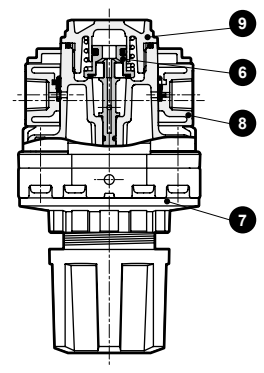
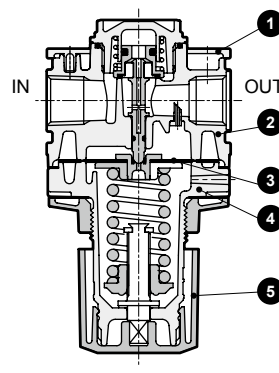


Internal structure and parts list

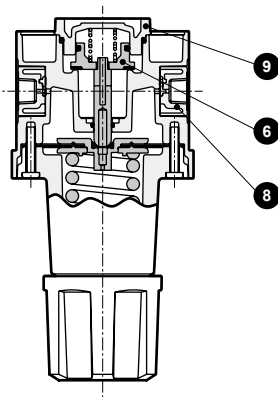
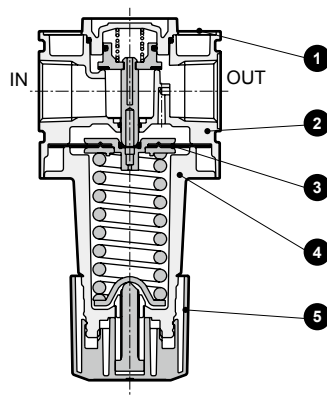
● R3000-G4



● R4000-G4



● R8000-G4



No.	Part name	Material		
		R3000-G4	R4000-G4	R8000-G4
1	Plate cover	ABS resin (*1)		
2	Body	Aluminum alloy die-casting		
3	Diaphragm assembly	Zinc alloy die-casting, nitrile rubber		
4	Cover	Aluminum alloy die-casting		
5	Knob	PBT resin (*1)		
6	Valve assembly	Copper alloy, hydrogenated nitrile rubber, polyacetal resin		
7	Mounting nut	PBT resin (*1)		-
8	Gauge plug assembly	Polyamide resin (*1), nitrile rubber, steel		
9	Bottom plug	Aluminum alloy die-casting		

*1: Flame-resistant resin, UL94 Standards V-0 or equivalent

*2: Refer to page 212 for repair parts.

- 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
- PrecsCompn
- Mech/
ElecPresSw
- ContactSW
- AirSens
- PresSW
Cool
- AirFloSens/
Contr
- WaterRtSens
- TotAirSys
(Total Air)
- TotAirSys
(Gamma)
- RefrDry
- DesicDry
- HiPolymDry
- MainFiltr
- Dischrg
etc
- Ending

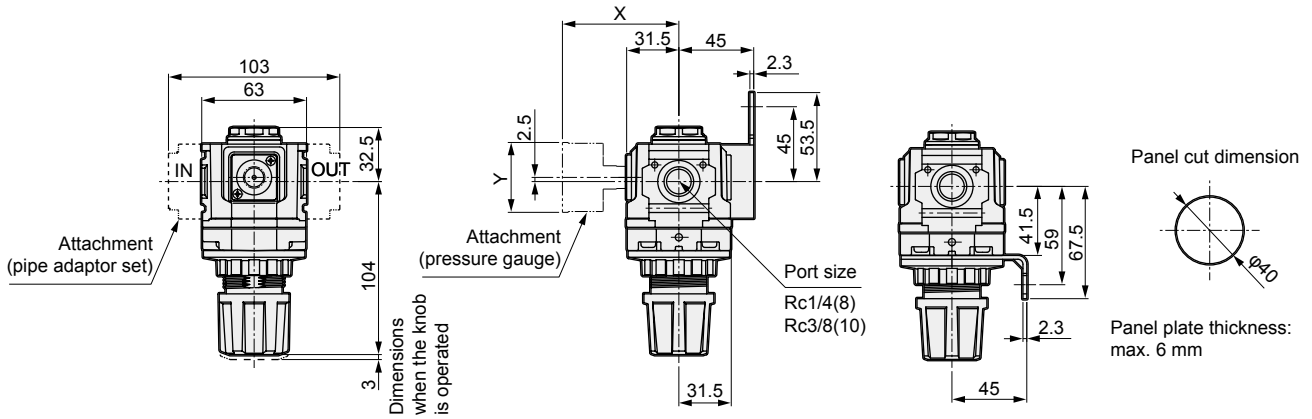
Regulator Series



Dimensions

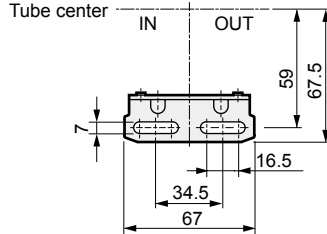
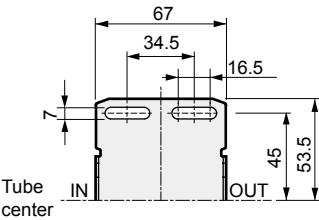
- F.R.L
- F (Filtr)
- R (Reg)
- L (Lub)
- PresSW
- Shutoff
- SlowStart
- FimResistFR
- Oil-ProHR
- MedPresFR
- No Cu/PTFE FRL
- Outdrs FR
- F.R.L (Related)
- CompFRL
- LgFRL
- PrecsR
- VacF/R
- Clean FR
- ElecPneuR
- AirBoost
- SpdContr
- Silncr
- CheckV/other
- Jnt/tube
- AirUnt
- PrecsCompn
- Mech/ElecPresSw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

● R3000-G4



Attachment
C type bracket (-BW)
Part model No.: B320
Material: Steel
Zinc plated

L type bracket (-B3W)
Part model No.: B330
Material: Steel
Zinc plated

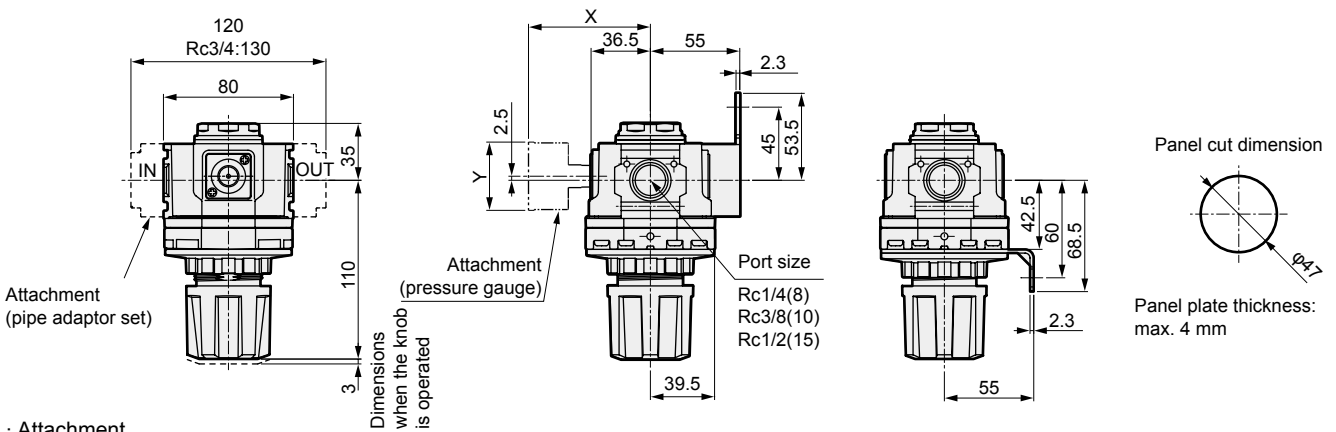


Pressure gauge attached optional dimensions table

Pressure gauge	X	Y
G49P	(69.5)	φ43.5
G59P	(72)	φ52

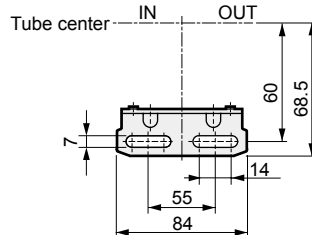
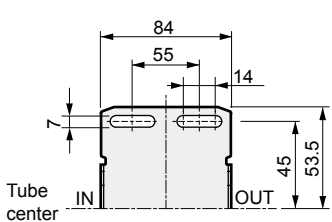
Note: The C type bracket and pipe adaptor set attachments cannot be used together.

● R4000-G4



Attachment
C type bracket (-BW)
Part model No.: B420
Material: Steel
Zinc plated

L type bracket (-B3W)
Part model No.: B430
Material: Steel
Zinc plated



Pressure gauge attached optional dimensions table

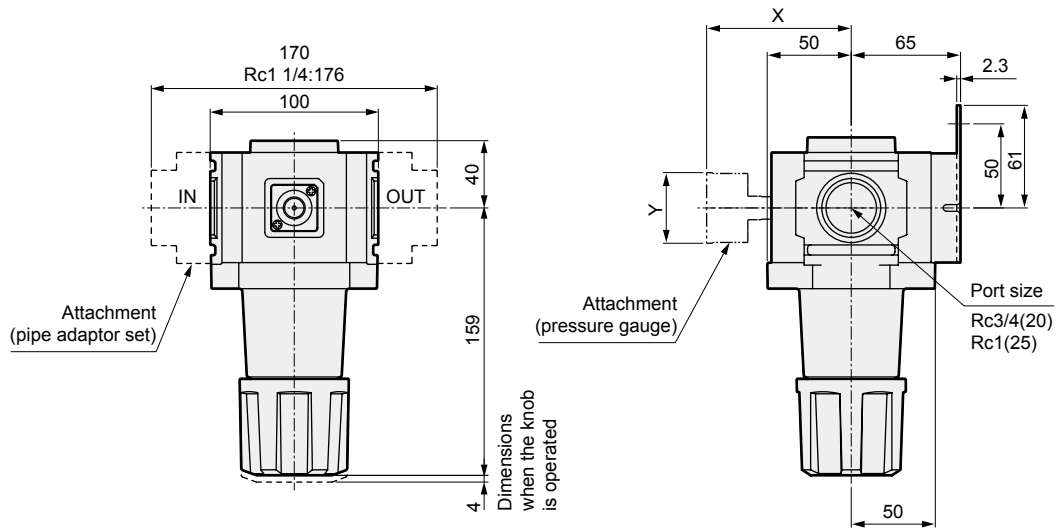
Pressure gauge	X	Y
G49P	(74.5)	φ43.5
G59P	(77)	φ52

Note: The C type bracket and pipe adaptor set attachments cannot be used together.

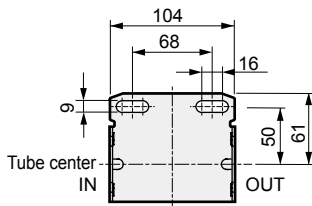
Dimensions



● R8000-G4



- Attachment
C type bracket (-BW)
Part model No.: B820
- Material: Steel
Zinc plated



Pressure gauge attached optional dimensions table

Pressure gauge	X	Y
G49P	(84.5)	φ43.5
G59P	(87)	φ52

Note: The C type bracket and pipe adaptor set attachments cannot be used together.

- 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
- PrescR
- 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

F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
Oil-ProhrR
MedPresFR
No Cu/
PTFE FRL
Outdrs FR
F.R.L
(Related)
CompFRL
LgFRL
PrecsR
VacFR
Clean FR
ElecPneur
AirBoost
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



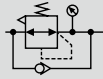
Reverse regulator Flame-resistant series

R3100/R4100/R8100-G4 Series

From secondary pressure to primary side with reverse flow function built in.

● Port size: 1/4 to 1

JIS symbol



Specifications

Descriptions	R3100-G4	R4100-G4	R8100-G4
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)		
Set pressure (*1) 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	1/4,3/8 (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)
Weight kg	0.52	0.77	1.6
Standard specifications	Exterior: Flame-resistant material, nut for panel mounting		Exterior: Flame-resistant material

*1 : Refer to the set pressure range for the back pressure given on page 208 when selecting the model.

*2 : Check that the primary pressure is at least 0.05 MPa more than the secondary pressure.

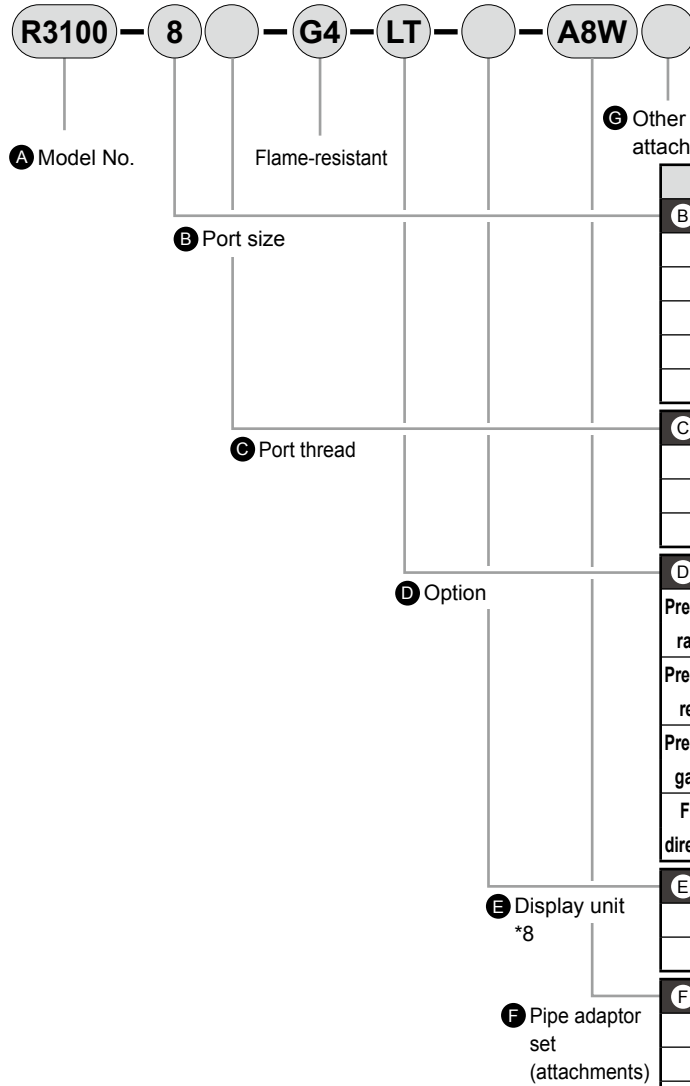
Option weight

* Add to the weight of the standard accessories.

Unit: kg

Code	Pressure gauge	Pipe adaptor set						Attachment			
	T*	A8*W	A10*W	A15*W	A20*W	A25*W	A32*W	BW	B3W	G49P	G59P
R3100-G4	0	0.16	0.16	0.16				0.17	0.07	0.086	0.115
R4100-G4	0	0.16	0.16	0.16	0.16			0.21	0.11	0.086	0.115
R8100-G4	0				0.53	0.53	0.53	0.36		0.086	0.115

How to order



* Refer to page 28 for the explanation of the option.

A Model No.

Code		Content	R3100	R4100	R8100
B Port size					
8	1/4		●	●	
10	3/8		●	●	
15	1/2			●	
20	3/4				●
25	1				●
C Port thread *1					
Blank	Rc thread		●	●	●
N	NPT thread		●	●	●
G	G thread		●	●	●
D Option *2, *3					
Pressure range	Blank	0.05 to 0.85 MPa	●	●	●
	L	0.05 to 0.35 MPa *4	●	●	●
Pressure relief	Blank	With relief mechanism	●	●	●
	N	Non-relief	●	●	●
Pressure gauge	T	No pressure gauge (gauge port (1/4) is assembled sealed)	●	●	●
	T8	Pressure gauge ready (gauge port (1/4) is left open)	●	●	●
Flow direction	Blank	Standard flow (left → right)	●	●	●
	X1	Reverse flow (right → left)	●	●	●
E Display unit					
Blank	MPa display, Rc thread		●	●	●
J1	MPa display, NPT, G thread		●	●	●
F Pipe adaptor set (attachments) *5 Page 270					
Blank	Not attached		●	●	●
A8*W	1/4 pipe adaptor set (white)		●	●	
A10*W	3/8 pipe adaptor set (white)		●	●	
A15*W	1/2 pipe adaptor set (white)		●	●	
A20*W	3/4 pipe adaptor set (white)			●	●
A25*W	1 pipe adaptor set (white)				●
A32*W	1 1/4 pipe adaptor set (white)				●
* Adaptor thread					
Blank	Rc thread		●	●	●
N	NPT thread		●	●	●
G	G thread		●	●	●
G Other attachments *7 Pages 267, 289					
Blank	Not attached		●	●	●
BW	C type bracket (silver)		●	●	●
B3W	*6 L type bracket (silver)		●	●	
G49P	G49D-8-P10(L:G49D-8-P04)		●	●	●
G59P	G59D-8-P10(L:G59D-8-P04)		●	●	●

⚠️ Precautions for model No. selection

- *1: G 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: **Positions of check valve and pressure gauge cannot be changed. If the IN and OUT directions must be reversed, indicate "X1" at the end of the option field.**
- *4: The pressure gauge's indication range is 0 to 0.4 MPa for the option "L".
- *5: The pipe adaptor set and C type bracket cannot be used together.
- *6: For details on mounting the L type bracket, refer to (2. Regulator) of "⚠️ Cautions and Installation & Adjustment" (page 283).
- *7: If NPT is selected for (C) Port thread, an NPT pressure gauge is supplied. If Rc or G thread is selected, an R thread pressure gauge is supplied.
- *8: 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.

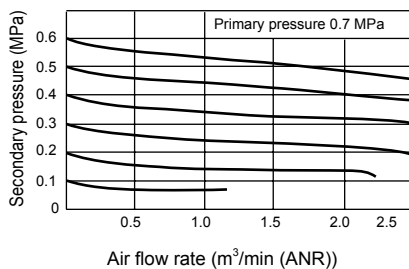
F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
Oil-ProhR
MedPresFR
No Cu/ PTFE FRL
Outdrs FR
F.R.L (Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
SpdContr
Silncr
CheckV/ other
Jnt/tube
AirUnt
PrecsCompn
Mech/ ElecPresSw
ContactSW
AirSens
PresSW Cool
AirFloSens/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

Regulator series

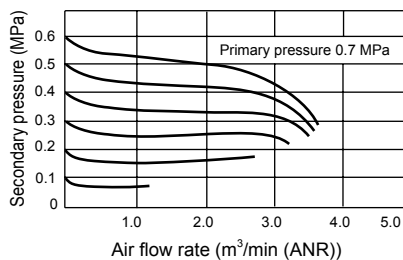
- F.R.L
- F (Filtr)
- R (Reg)
- L (Lub)
- PresSW
- Shutoff
- SlowStart
- FimResistFR
- Oil-ProhR
- MedPresFR
- No Cu/PTFE FRL
- Outdrs FR
- F.R.L (Related)
- CompFRL
- LgFRL
- PrecsR
- VacFR/R
- Clean FR
- ElecPneuR
- AirBoost
- SpdContr
- Silncr
- CheckV/other
- Jnt/tube
- AirUnt
- PrecsCompn
- Mech/ElecPresSw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

Flow characteristics

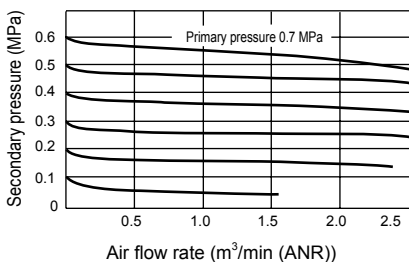
● R3100-8-G4



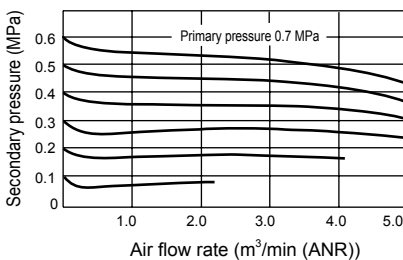
● R3100-10-G4



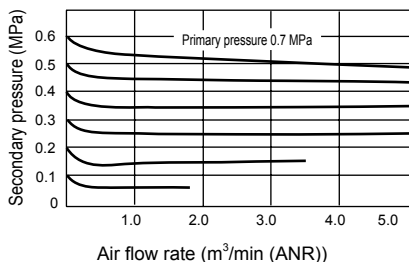
● R4100-8-G4



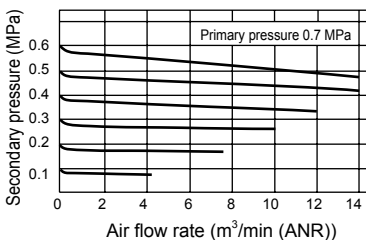
● R4100-10-G4



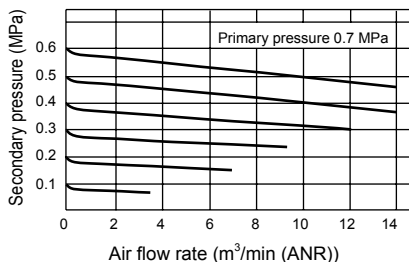
● R4100-15-G4



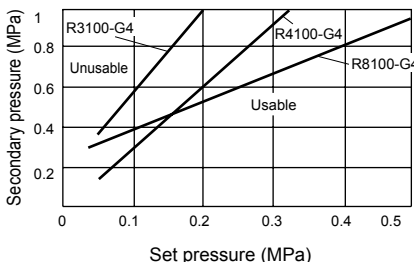
● R8100-20-G4



● R8100-25-G4



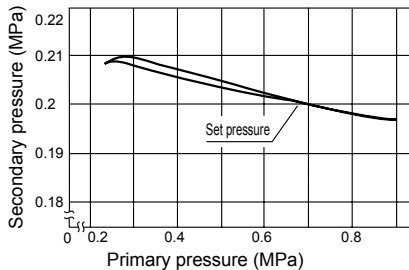
● Set pressure range to back pressure



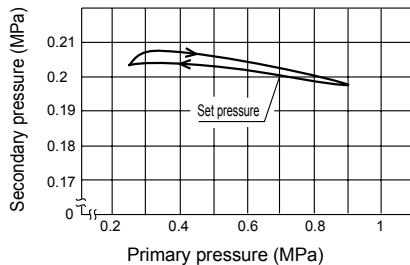
Note: The area above the graph line shows the unusable range and that below the graph line shows the usable range.
 Example: If R4100-W is set to the set pressure 0.2 MPa and the secondary back pressure is 0.6 MPa or more, the secondary pressure will not be released to the primary side.

Pressure characteristics

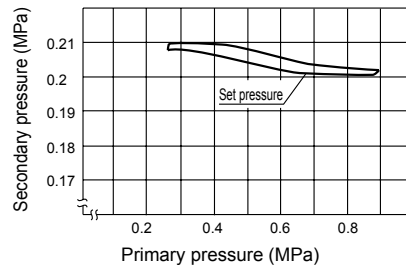
● R3100-G4



● R4100-G4

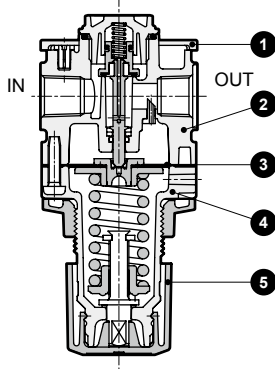


● R8100-G4

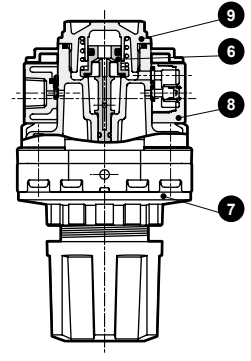
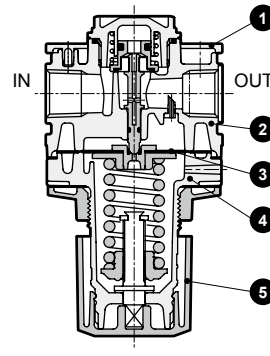


Internal structure and parts list

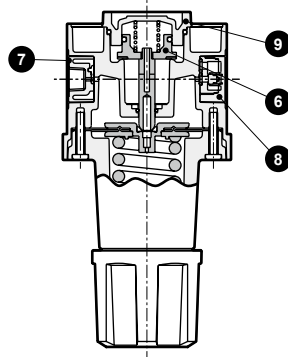
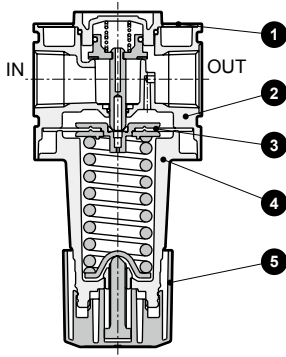
● R3100-G4



● R4100-G4



● R8100-G4



No.	Part name	Material		
		R3100-G4	R4100-G4	R8100-G4
1	Plate cover	ABS resin (*1)		
2	Body	Aluminum alloy die-casting		
3	Diaphragm assembly	Zinc alloy die-casting, nitrile rubber		
4	Cover	Aluminum alloy die-casting		
5	Knob	PBT resin (*1)		
6	Valve assembly	Copper alloy, hydrogenated nitrile rubber, polyacetal resin		
7	Gauge plug assembly	Polyamide resin (*1), nitrile rubber, steel		
8	Check valve total assembly	PBT resin, nitrile rubber, stainless steel wire, steel, aluminum		
9	Bottom plug	Aluminum alloy die-casting		
10	Mounting nut	PBT resin (*1)		-

*1: Flame-resistant resin, UL94 Standards V-0 or equivalent

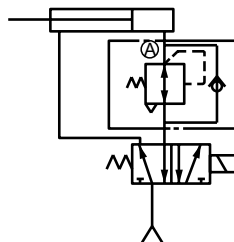
*2: Refer to page 212 for repair parts kits.

Functions

When the primary pressure is introduced from the IN side, the check valve functions as a regular regulator because it closes with primary pressure and spring load. When primary pressure is released by a switching valve such as a shut-off valve, the check valve opens with secondary pressure. Pressure in the diaphragm chamber is released and pressure drops. This causes the diaphragm to be pressed down by the pressure adjustment spring. The main valve (valve assembly) opens, and the air on the OUT side is discharged.

● Circuit diagram

When cylinder head side and rod side pressures differ



Note: When the primary side pressure is released, back pressure A must be equal to or less than the set pressure range of the regulator corresponding to the back pressure shown in the graph.

- 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
- PrecsCompn
- Mech/ElecPresSw
- ContactSW
- AirSens
- PresSW Cool
- AirFloSens/Contr
- WaterRtSens
- TotAirSys (Total Air)
- TotAirSys (Gamma)
- RefrDry
- DesicDry
- HiPolymDry
- MainFiltr
- Dischrg etc
- Ending

Regulator Series



- 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
- PrecsCompn
- Mech/ ElecPresSw
- ContactSW
- AirSens
- PresSW Cool
- AirFloSens/ Contr
- WaterRtSens
- TotAirSys (Total Air)
- TotAirSys (Gamma)
- RefrDry
- DesicDry
- HiPolymDry
- MainFiltr
- Dischrg etc
- Ending

Dimensions

● R3100-G4

Attachment (pipe adaptor set)

Attachment (pressure gauge)

Port size
Rc1/4(8)
Rc3/8(10)

Panel cut dimension

Panel plate thickness: max. 6 mm

Dimensions when the knob is operated

Attachment
C type bracket (-BW)
Part model No.: B320
Material: Steel
Zinc plated

L type bracket (-B3W)
Part model No.: B330
Material: Steel
Zinc plated

Tube center IN OUT

Pressure gauge attached optional dimensions table

Pressure gauge	X	Y
G49P	(69.5)	φ43.5
G59P	(72)	φ52

Note: The C type bracket and pipe adaptor set attachments cannot be used together.

● R4100-G4

Attachment (pipe adaptor set)

Attachment (pressure gauge)

Port size
Rc1/4(8)
Rc3/8(10)
Rc1/2(15)

Panel cut dimension

Panel plate thickness: max. 4 mm

Dimensions when the knob is operated

Attachment
C type bracket (-BW)
Part model No.: B420
Material: Steel
Zinc plated

L type bracket (-B3W)
Part model No.: B430
Material: Steel
Zinc plated

Tube center IN OUT

Pressure gauge attached optional dimensions table

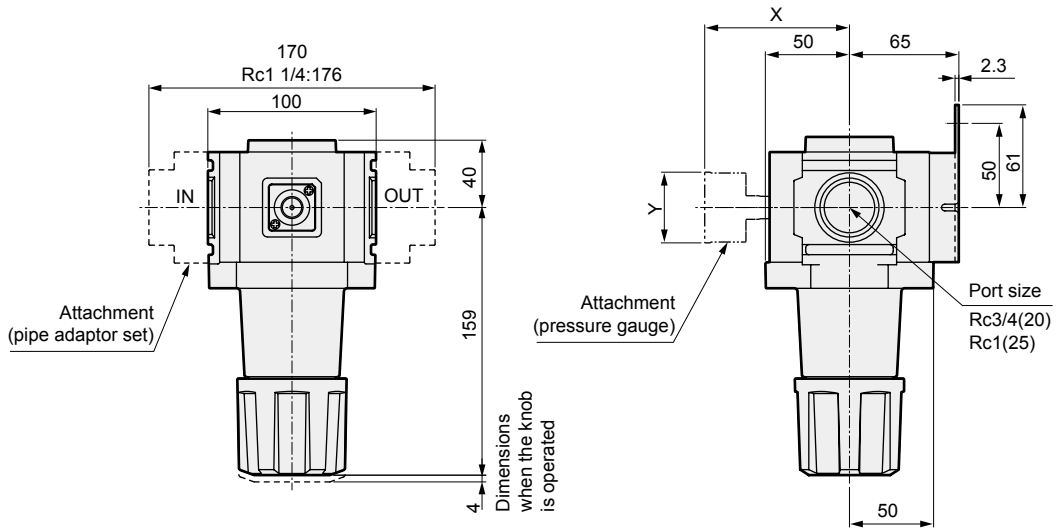
Pressure gauge	X	Y
G49P	(74.5)	φ43.5
G59P	(77)	φ52

Note: The C type bracket and pipe adaptor set attachments cannot be used together.

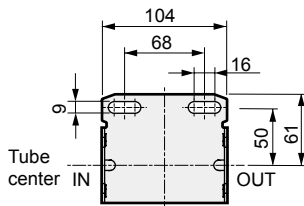
Dimensions



● R8100-G4



- Attachment
C type bracket (-BW)
Part model No.: B820
- Material: Steel
Zinc plated



Pressure gauge attached optional dimensions table

Pressure gauge	X	Y
G49P	(84.5)	φ43.5
G59P	(87)	φ52

Note: The C type bracket and pipe adaptor set attachments cannot be used together.

- 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 Series

F.R.L Optional parts diagram

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

PrecsCompn

Mech/
ElecPresSw

ContactSW

AirSens

PresSW
Cool

AirFloSens/
Contr

WaterRtSens

TotAirSys
(Total Air)

TotAirSys
(Gamma)

RefrDry

DesicDry

HiPolymDry

MainFiltr

Dischrg
etc

Ending

Repair parts kit (set of diaphragm assembly, valve assembly, bottom spring, bottom O-ring)

Repair parts kits model No. Model	Relief diaphragm	Non-relief diaphragm
R3000-G4,R3100-G4	R3000-KIT	R3000-KIT-N
R4000-G4,R4100-G4	R4000-KIT	R4000-KIT-N
R8000-G4,R8100-G4	R8000-KIT	R8000-KIT-N

Valve assembly (set of valve assembly, bottom spring, bottom O-ring)

Model	Valve assembly model No.
R3000-G4,R3100-G4	R3000-VALVE-ASSY
R4000-G4,R4100-G4	R4000-VALVE-ASSY
R8000-G4,R8100-G4	R8000-VALVE-ASSY

Check valve assembly for reverse regulator

Model	Check valve assembly model No.
R3100-G4,W3100-G4 R4100-G4,W4100-G4 R8100-G4,W8100-G4	R3100-G4-CHECK-VALVE-ASSY

Adjusting spring

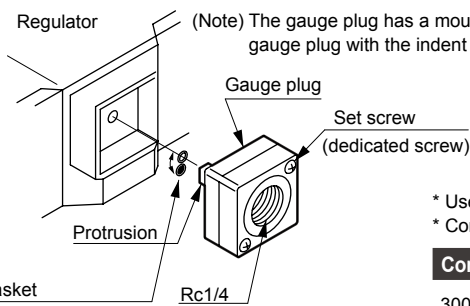
Adjusting spring model No. Model	Standard spring (0.05 to 0.85MPa)	Low pressure spring (0.05 to 0.35 MPa)
R3000-G4,R3100-G4 W3000-G4,W3100-G4	R3000-SPRING	R3000-SPRING-L
R4000-G4,R4100-G4 W4000-G4,W4100-G4	R4000-SPRING	R4000-SPRING-L
R8000-G4,R8100-G4	R8000-SPRING	R8000-SPRING-L
W8000-G4,W8100-G4	W8000-SPRING	W8000-SPRING-L

Diaphragm assembly (only diaphragm assembly)

Diaphragm assembly model No. Model	Relief diaphragm	Non-relief diaphragm
R3000-G4,R3100-G4 W3000-G4,W3100-G4	R3000-DIAPHRAGM-ASSY	R3000-DIAPHRAGM-ASSY-N
R4000-G4,R4100-G4 W4000-G4,W4100-G4	R4000-DIAPHRAGM-ASSY	R4000-DIAPHRAGM-ASSY-N
R8000-G4,R8100-G4	R8000-DIAPHRAGM-ASSY	R8000-DIAPHRAGM-ASSY-N
W8000-G4,W8100-G4	W8000-DIAPHRAGM-ASSY	W8000-DIAPHRAGM-ASSY-N

Gauge plug assembly (assembly of gauge plug, gasket and mounting screw)

Use when mounting the pressure gauge.



If the gasket is turned 180° as shown in the figure, the regulator pressure flows to the pressure gauge.

- * Use when detecting external pressures as well.
- * Consult with CKD when NPT or G threads are required.

Compatible model	Gauge plug valve assembly model No.
3000-G4 4000-G4 Series 8000-G4	R3000-G4-G-PLUG

