

Regulator

2215/2216 Series

● Port size: Rc 3/4 to Rc2

JIS symbol



Specifications

Item		2215-6C/8C/10C	2216-12C/16C
Working fluid		Compressed air	
Max. working pressure	MPa	2.06 (≈300 psi, 20.6 bar)	
Proof pressure	MPa	3.09 (≈450 psi, 30.9 bar)	
Ambient / fluid temperatures	°C	5 (41°F) to 65 (149°F)	
Set pressure	MPa	0.07 (≈10 psi, 0.7 bar) to 0.83 (≈120 psi, 8.3 bar)	
Pressure relief		With relief mechanism	
Port size	Rc	3/4, 1, 1 1/4	1 1/2, 2
Weight	kg	2.5	4.6

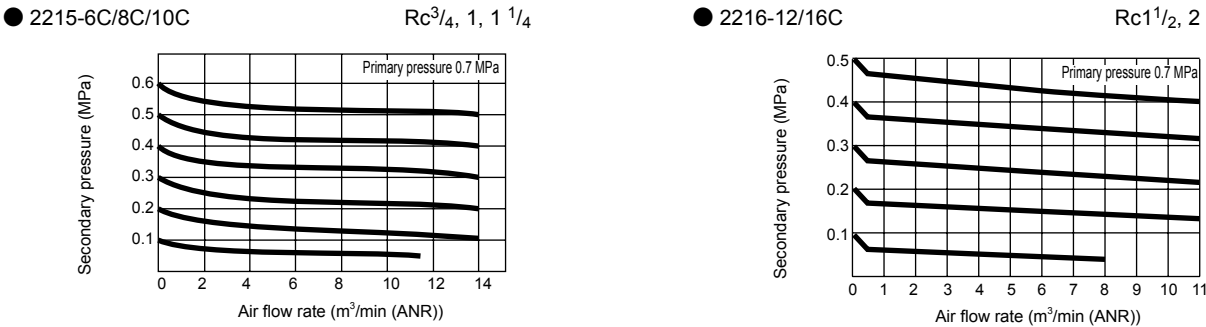
*1: The pressure gauge for "HG" is 0 to 0.4 MPa and 0 to 2.0 MPa.
 *2: The relief pressure for the high pressure type (H) is the value 0.13 MPa higher than the set pressure.

Option weight

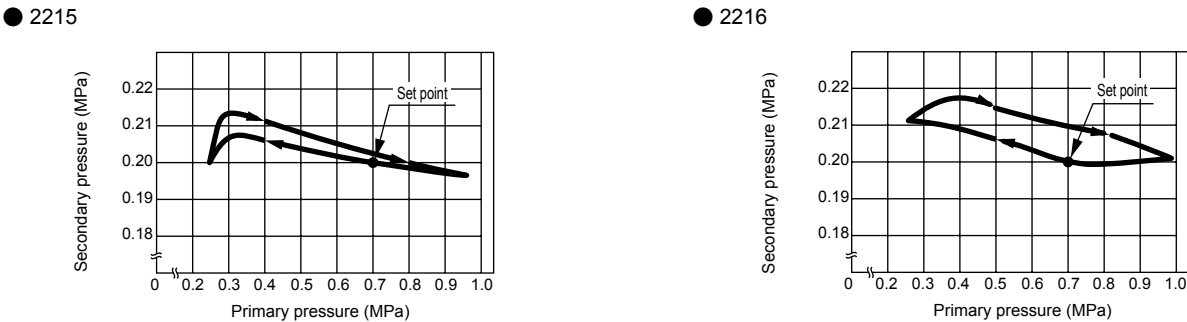
* Add to the weight of the standard accessories. Unit: kg

	Plastic knob	Pressure gauge
Code	K	G
2215	0.01	0.114
2216	0.01	0.114

Flow characteristics



Pressure characteristics



How to order

2215 – **6C** – **NKG**

A Model No.

B Port size

*1

[Example of model No.]

2215-6C-NKG

Model: Regulator large

B Port size: Rc $\frac{3}{4}$

C Option: Non-relief,

plastic knob,

pressure gauge

enclosed

C Option

*2 to 5

⚠ Precautions for model No. selection

*1 : If port size NPT thread is required, do not indicate nominal size C. (Example) 2215-6
If a pressure gauge is selected, the NPT thread pressure gauge is enclosed.

*2 : Options can be combined.

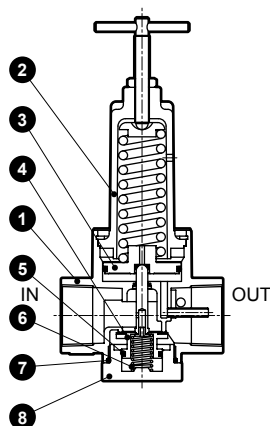
*3 : The pressure adjusting range of "H" high pressure is 0.07 to 1.23 MPa.

*4 : If the option code "G" is indicated, a pressure gauge is enclosed.

G59D-8-P10 pressure gauge comes with types 2215 and 2216 (G59D-8-P04 for low pressure and G59D-8-P20 for high pressure). Refer to related products (page 363) for pressure gauge specifications.

*5 : Contact CKD when assembly products are required.

Internal structure and parts list



No.	Part name	Material	
		2215	2216
1	Body	Zinc alloy die-casting	
2	Cover	Zinc alloy die-casting	
3	Piston assembly	Zinc alloy die-casting/nitrile rubber	
4	Valve assembly	Copper alloy/hydrogenated nitrile rubber	
5	O-ring	Fluoro rubber	
6	Bottom spring	Stainless steel	
7	O-ring	Nitrile rubber	
8	Bottom plug	Zinc alloy die-casting	

Repair parts list

No.	Part name	Model No.	
		2215	2216
3	Diaphragm assembly	Pressure relief type 2215-PISTON-ASSY	2215-PISTON-ASSY
		Non-relief type 2215-PISTON-ASSY-N	2215-PISTON-ASSY-N
4	Valve assembly	2215-VALVE-ASSY	2216-VALVE-ASSY
5			

		A Model No.	
		Large	Large bore
		2215	2216
		(MTO)	
Code	Description		
B Port size			
6C	Rc $\frac{3}{4}$	●	
8C	Rc1	●	
10C	Rc1 $\frac{1}{4}$	●	
12C	Rc1 $\frac{1}{2}$		●
16C	Rc2		●
C Option			
Regulator	Blank	Standard	●
	N	Non-relief	●
	H	High pressure (MPa)	●
	K	Plastic knob	●
Included product	Blank	Not included	●
	G	Pressure gauge	●

Functions

(1) Adjusting screw

Adjusting screw to adjust secondary pressure is turned clockwise to increase pressure.

(2) Relief valve

If the secondary pressure becomes higher than the set pressure, the valve stem and diaphragm section separate to release compressed air to the atmosphere from the relief valve, preventing the secondary side set pressure from increasing abnormally.

(3) Diaphragm

The balance between the force of the pressure adjusting spring and the force applied to the diaphragm bottom (secondary side pressure) is maintained and the valve system is opened and closed to supply accurate and stable pressure (set pressure) to the secondary side. Large regulator 2215 balances pressure adjustment spring by the piston.

(4) Valve system

If the diaphragm and the pressure adjustment spring lose balance, the compressed air on the primary side is supplied as required to the secondary side. A valve with a large bore size is used to achieve excellent flow characteristics.

(5) Gauge port

A gauge port is placed near the OUT side from the center section to measure the secondary side pressure accurately. Two gauge ports are provided.

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filtr
Film
Resist FR
Oil-ProhR
Med
Press FR
No Cu/
PTFE FRL
Outdrs FRL
Adapter
Joiner
Press
Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/
other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro
Press SW
ContactSW
AirSens
PresSW
Cool
Air Flo
Sens/Ctrl
WaterRISens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

2215/2216 Series



F.R.L. Dimensions

F.R. ● 2215/2216

F (Filtr)

R (Reg)

L (Lub)

Drain

Separ

Mech

Press SW

Res press

exh valve

SlowStart

Anti-bac/Bac-

remove Filtr

Film

Resist FR

Oil-ProhR

Med

Press FR

No Cu/

PTFE FRL

Outdrs FRL

Adapter

Joiner

Press

Gauge

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

Speed Ctrl

Silncr

CheckV/

other

Fit/Tube

Nozzle

Air Unit

PrecsCompn

Electro

Press SW

ContactSW

AirSens

PresSW

Cool

Air Flo

Sens/Ctrl

WaterRtSens

TotAirSys

(Total Air)

TotAirSys

(Gamma)

Gas

generator

RefrDry

DesicDry

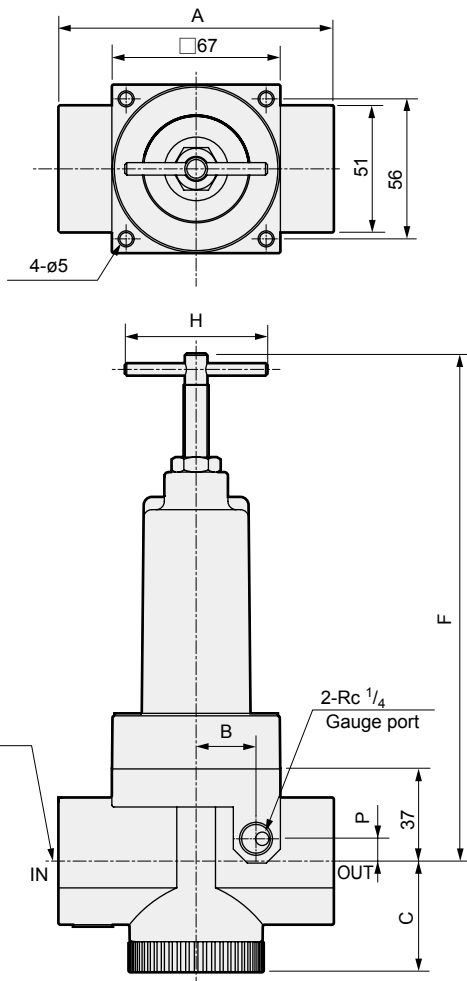
HiPolymDry

MainFiltr

Dischrg

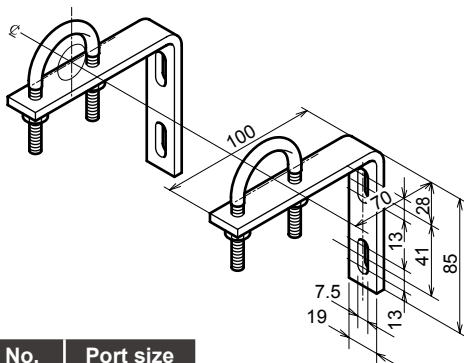
etc

Ending



Model No.	A	B	C	F	H	P	Port size
2215	110	24	44	206	63(ø48)	9	Rc ³ / ₄ , 1, 1 ¹ / ₄
2216	135	38	72	216	63(ø48)	15	Rc1 ¹ / ₂ , 2

- Pipe bracket: 6132
 - Material: Steel
 - Zinc plated
 - Bracket - Pipe bracket thickness 4.5 mm



Model No.	Port size
6132-6C	³ / ₄ B
6132-8C	1B