

# Regulator 2215/2216 Series

● Port size: Rc 3/4 to Rc2

JIS symbol



## Specifications

Descriptions	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.

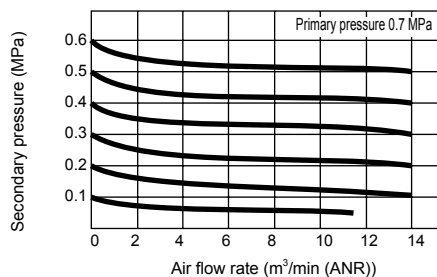
Unit: kg

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

## Flow characteristics

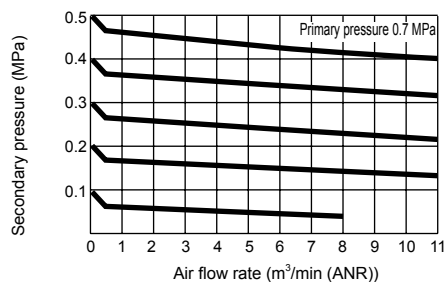
● 2215-6C/8C/10C

Rc3/4, 1, 1 1/4



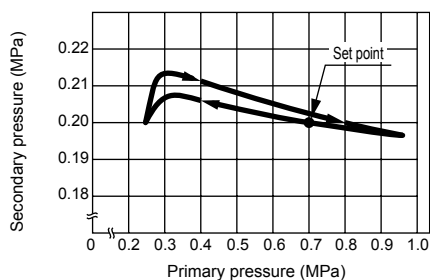
● 2216-12/16C

Rc1 1/2, 2

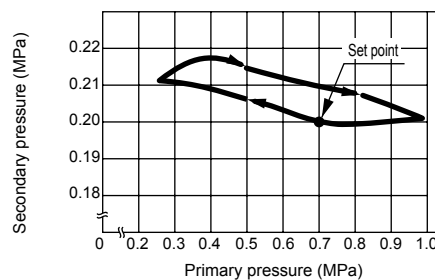


## Pressure characteristics

● 2215



● 2216



### How to order



**A** Model No.

**B** Port size  
\*1

[Example of model No.]

**2215-6C-NKG**

Model: Regulator large

**B** Port size: Rc 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.

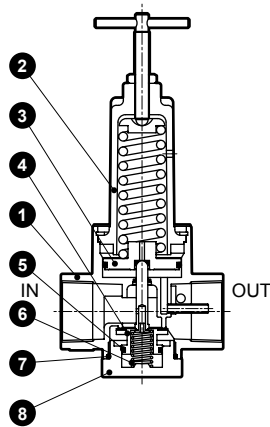
\*3 : The pressure adjusting range of "H" high pressure is 0.07 to 1.23 MPa.

\*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 289) 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	Valve assembly	2215-VALVE-ASSY	2216-VALVE-ASSY	

Code		A Model No.		
		Large	Large bore	
		2215	2216 (Custom)	
B Port size				
6C	Rc3/4	●		
8C	Rc1	●		
10C	Rc1 1/4	●		
12C	Rc1 1/2		●	
16C	Rc2		●	
C Option				
Regulator	Blank	Standard	●	●
	N	Non-relief	●	●
	H	High pressure (MPa)	● (0.07 to 1.23)	● (0.07 to 1.23)
	K	Plastic knob	●	●
Attached product	Blank	Not attached	●	●
	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 (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
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

# 2215/2216 Series



## F.R.L Dimensions

F (Filtr) ● 2215/2216

R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart

FilmResistFR

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

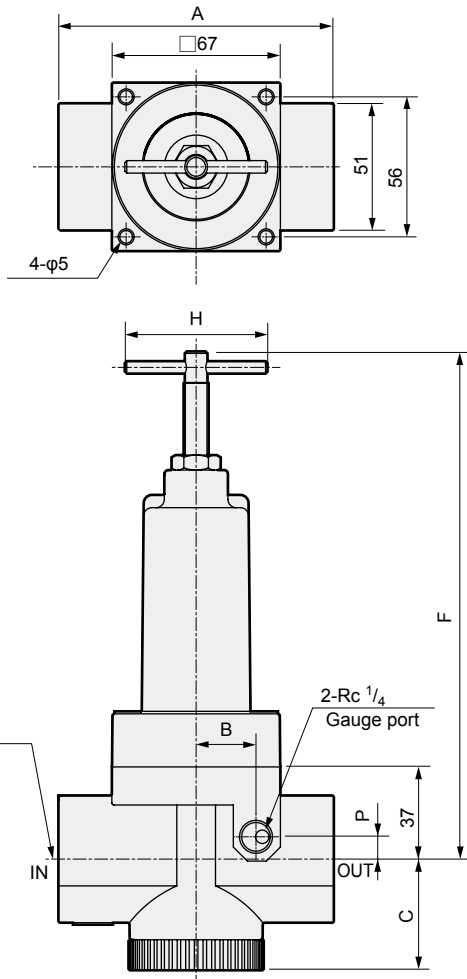
DesicDry

HiPolymDry

MainFiltr

Dischrg  
etc

Ending



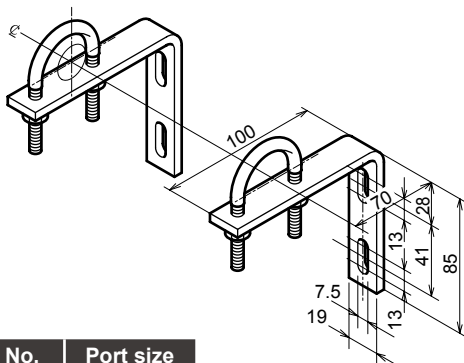
Model No.	A	B	C	F	H	P	Port size
2215	110	24	44	206	63( $\phi$ 48)	9	Rc $\frac{3}{4}$ , 1, $1\frac{1}{4}$
2216	135	38	72	216	63( $\phi$ 48)	15	Rc $1\frac{1}{2}$ , 2

● Pipe bracket: 6132

· Material: Steel

Zinc plated

Bracket - Pipe bracket thickness 4.5 mm



Model No.	Port size
6132-6C	$\frac{3}{4}$ B
6132-8C	1B