

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

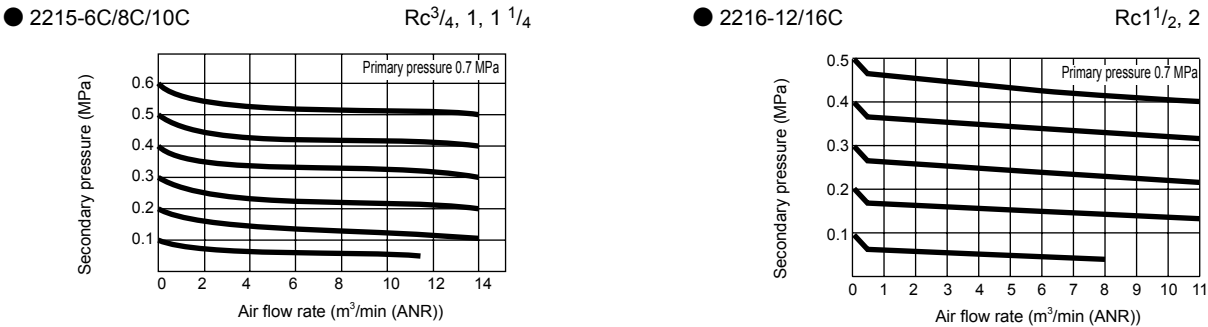
*1: The pressure gauge for "HG" is 0 to 0.4 MPa and 0 to 2.0 MPa.
 *2: The relief pressure for the high pressure type (H) is the value 0.13 MPa higher than the set pressure.

Option weight

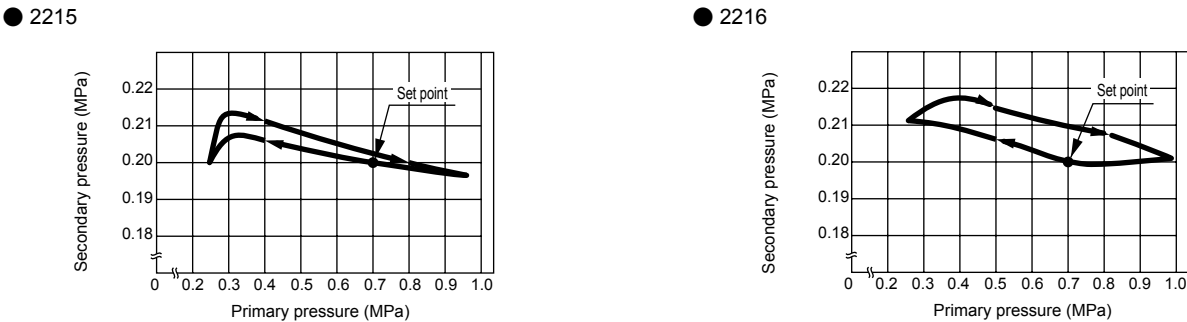
* Add to the weight of the standard accessories. Unit: kg

	Plastic knob	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.

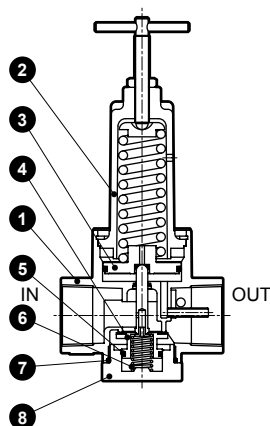
*4 : If the option code "G" is indicated, a pressure gauge is enclosed.

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 289) for pressure gauge specifications.

*5 : Contact CKD when assembly products are required.

Code		Content		N	(Custom)
B Port size					
6C	Rc ³ / 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	●	●	

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	2215-PISTON-ASSY	2215-PISTON-ASSY
		2215-PISTON-ASSY-N	2215-PISTON-ASSY-N
4	Valve assembly	2215-VALVE-ASSY	2216-VALVE-ASSY
5			

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

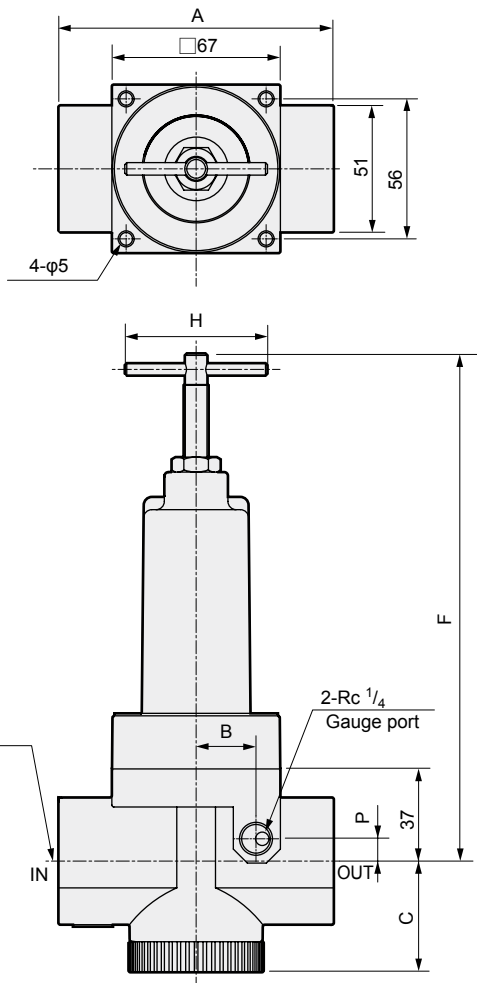
A gauge port is placed near the OUT side from the center section to measure the secondary side pressure accurately. Two gauge ports are provided.

2215/2216 Series



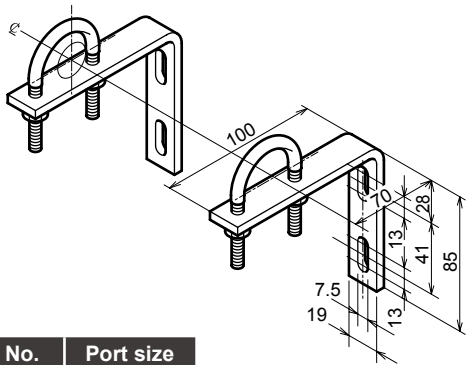
Dimensions

● 2215/2216



Model No.	A	B	C	F	H	P	Port size
2215	110	24	44	206	63(φ48)	9	Rc ³ / ₄ , 1, 1 ¹ / ₄
2216	135	38	72	216	63(φ48)	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