

Reverse regulator (check valve integrated)

# 2419 Series

Smooth discharge of secondary pressure with check valve.  
No bypass circuit required and easy piping.

● Port size: Rc1/8 to Rc1/4

JIS symbol



## Specifications

1 MPa = 10 bar

Item	2419-1C/2C	
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 65 (149°F)
Set pressure	MPa	0.04 (≈5.8 psi) to 0.83 (≈120 psi)
Pressure relief	With relief mechanism	
Port size	Rc	1/8 / 1/4
Weight	kg	0.2

\*1: Refer to the following graph for the set pressure range for back pressure.

\*2: Pressure gauge for "LG" is 0 to 0.4 MPa.

## Option weight

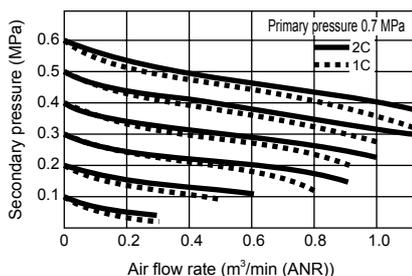
\* Add to the weight of the standard accessories.

Unit: kg

	Panel mount	Pressure gauge	Bracket
Code	P	G	B
2419	0	0.086	0.035

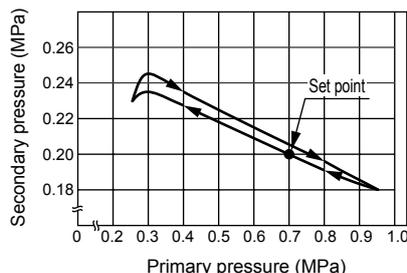
## Flow characteristics

● 2419-1C/2C Rc1/8 / 1/4



## Pressure characteristics

● 2419

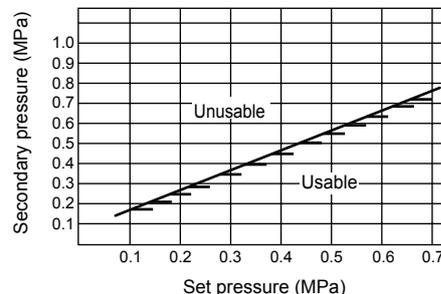


## Note on model No. selection

Always refer to the following graph for the set pressure range for back pressure.

For example, if the set pressure is 0.3 MPa and the secondary side back pressure exceeds 0.35 MPa, the secondary side pressure is not released to the primary side.

● Set pressure range to back pressure



## How to order

**2419** - **1C** - **NLGB**

Model No.

● A Port size

[Example of model No.] \*1

**2419-1C-NLGB**

Model: Reverse regulator (check valve integrated)

● A Port size: Rc 1/8

● B Option: Non-relief, low pressure, pressure gauge included, bracket included

● B Option

\*2  
\*3  
\*4  
\*5

## ⚠ Precautions for model No. selection

\*1 : If port size NPT thread is required, do not indicate nominal size C. (Example) 2419-1  
If a pressure gauge is selected, the NPT thread pressure gauge is enclosed.

\*2 : Options can be combined.

\*3 : If option codes "B" and "G" are indicated, a pressure gauge and a bracket are enclosed.

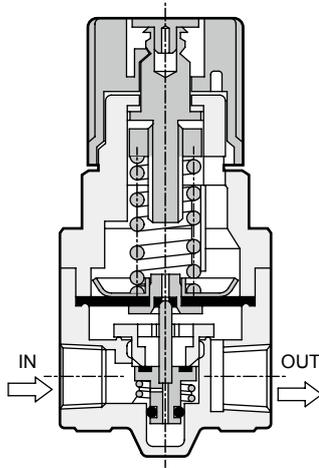
The pressure gauge supplied is G49D-6-P10 (G49D-6-P04 for low pressure). Refer to related products (page 363) for pressure gauge specifications.

\*4 : Contact CKD when assembly products are required.

\*5 : If option B (bracket) is selected, a 6506 bracket is enclosed, while if PB (bracket for panel mount) is selected, a 6166 bracket is enclosed. Refer to page 421 for the included product "B" bracket.

Code	Description	
<b>A Port size</b>		
<b>1C</b>	Rc1/8	
<b>2C</b>	Rc1/4	
<b>B Option</b>		
<b>Regulator</b>	<b>Blank</b>	Standard
	<b>N</b>	Non-relief
	<b>L</b>	Low pressure (0.02 to 0.34 MPa)
	<b>P</b>	Panel mount
<b>Included product</b>	<b>Blank</b>	Not included
	<b>G</b>	Pressure gauge
	<b>B</b>	Bracket

### Internal structure

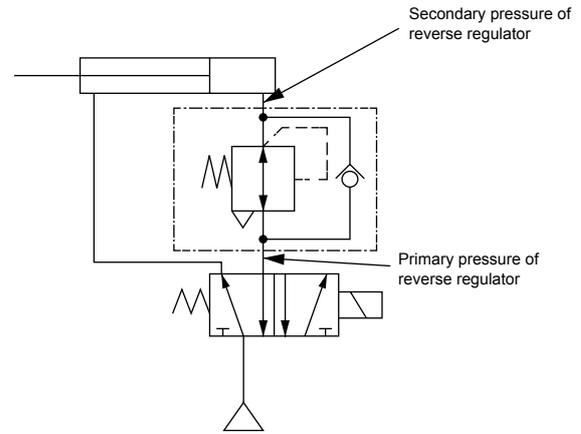


Non-balanced type

### Applications

- Circuit diagram

When cylinder head side and rod side pressures differ



### Functions

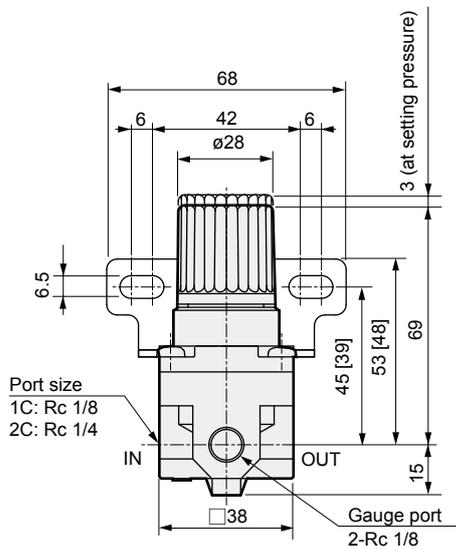
#### 2419 (non-balanced type)

Since the primary pressure is received under the main valve (valve assembly), if the primary pressure is discharged, the main valve is no longer held by the primary pressure and opens. This enables reverse use.

### Dimensions

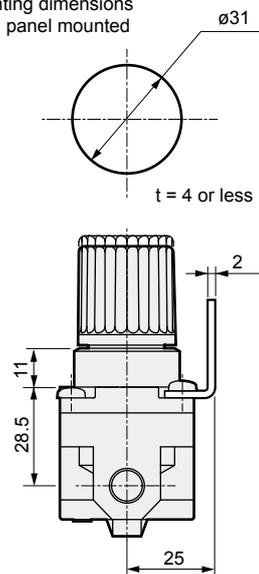


- 2419

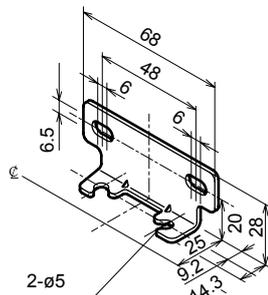


Dimensions shown in [ ] are for PB (bracket for panel mount)

Mounting dimensions when panel mounted

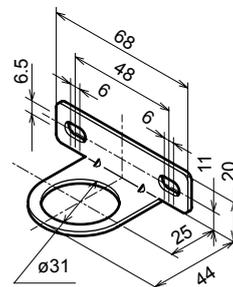


- Wall bracket: 6506
  - Material: Steel
  - Zinc plated
  - Bracket thickness 2 mm



\* Tapping screw attached

- Wall bracket: 6166
  - Material: Steel
  - Zinc plated
  - Bracket thickness 2 mm



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
PresCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterR/Sens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr Dischrg etc
Ending