F.R.L	
F (Filtr)	
R (Reg)	
L (Lub)	
PressSW	
Shutoff	
SlowStart	
FlmResistFR	
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/ ElecPressSw	
ContactSW	
AirSens	
PresSW Cool	
AirFloSens/ Contr	
WaterRtSens	
TotAirSys (Total Air)	
TotAirSys (Gamma)	
RefrDry	
DesicDry	
HiPolymDry	
MainFiltr	
Dischrg etc	
Ending	

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

RoHS   CAD

Specifications

1 MPa = 10 bar

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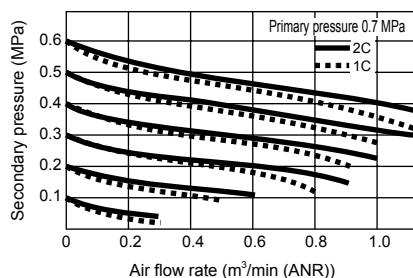*2: Pressure gauge for "LG" is 0 to 0.4 MPa.

Option weight

* Add to the weight of the standard accessories.   Unit: kg
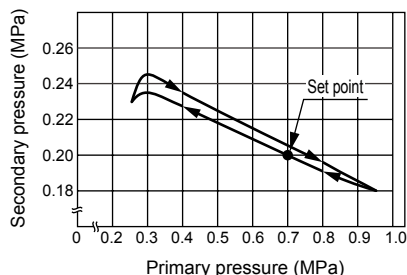
	Panel mount	Pressure gauge	Bracket
Code	P	G	B
2419	0	0.086	0.035

Flow characteristics

● 2419-1C/2C   Rc1/8 / 1/4

Primary pressure 0.7 MPa
—— 2C
---- 1C

Secondary pressure (MPa)
Air flow rate (m³/min (ANR))

Pressure characteristics

● 2419

Secondary pressure (MPa)
Set point
Primary pressure (MPa)

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

Secondary pressure (MPa)
Unusable
Usable
Set pressure (MPa)
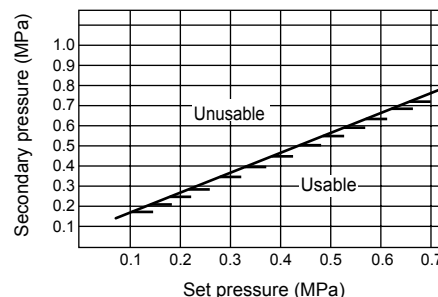
How to order

(2419) — (1C) — (NLGB)

Model No.

Ⓐ Port size *1

[Example of model No.]

2419-1C-NLGB

Model: Reverse regulator (check valve integrated)
Ⓐ Port size: Rc 1/8
Ⓑ Option: Non-relief, low pressure, pressure gauge included, bracket included

Ⓑ Option
*2
*3
*4
*5

Code	Content
Ⓐ Port size	
1C	Rc1/8
2C	Rc1/4
Ⓑ Option	

Regulator	Blank	Standard
	N	Non-relief
	L	Low pressure (0.02 to 0.34 MPa)
	P	Panel mount
Attached product	Blank	Not attached
	G	Pressure gauge
	B	Bracket

⚠ 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.
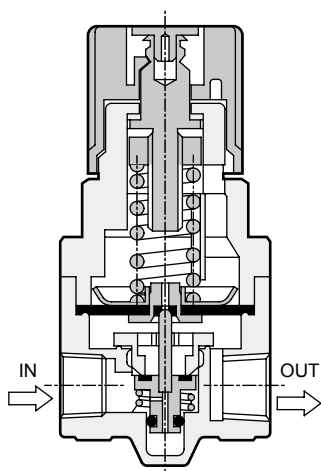   The pressure gauge supplied is G49D-6-P10 (G49D-6-P04 for low pressure). Refer to related products (page 289) for pressure gauge specifications.
*4 : Contact CKD when assembly products are required.
*5 : If option B (bracket) is selected, a 6506 bracket is enclosed, while if PB (bracket for panel mount) is selected, a 6166 bracket is enclosed. Refer to page 347 for the attached product "B" bracket.

CKD

Internal structure

Non-balanced type

Applications

● Circuit diagram
When cylinder head side and rod side pressures differ

Secondary pressure of reverse regulator

Primary pressure of reverse regulator
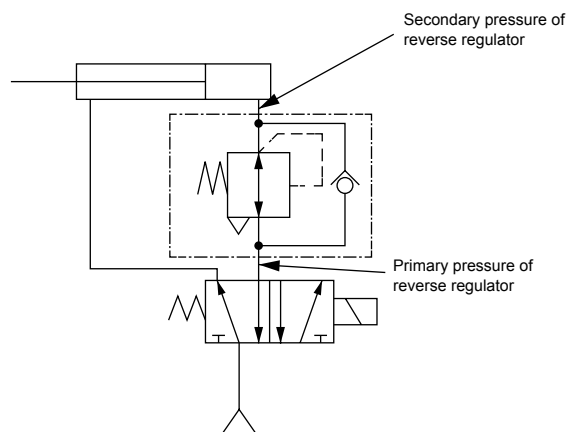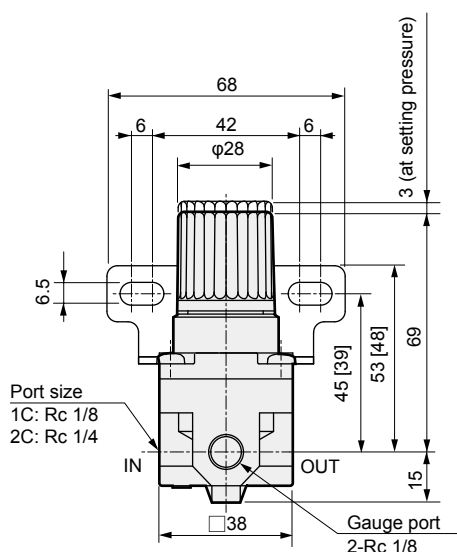
Functions

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.
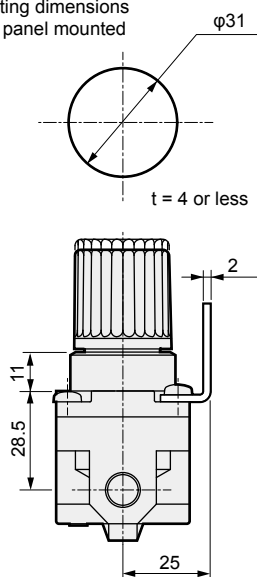
Dimensions

● 2419

Port size
1C: Rc 1/8
2C: Rc 1/4

Gauge port
2-Rc 1/8

Mounting dimensions when panel mounted

φ31

t = 4 or less

Dimensions shown in [ ] are for PB (bracket for panel mount)
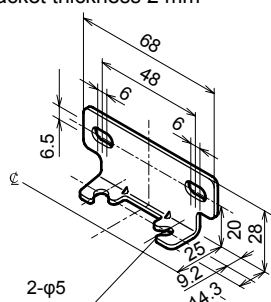
● Wall bracket: 6506
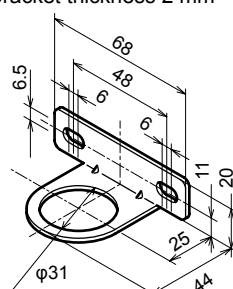·Material: Steel
  Zinc plated
Bracket thickness 2 mm

* Tapping screw attached

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