

B2019 Series

Port size: Rc1/8, Rc1/4





	Specifications	1 MPa = 10 bar	
N S	Item		B2019-1C/2C
e	Working fluid		Compressed air
rt	Max. working pressure	MPa	2.06 (≈300 psi, 20.6 bar)
C-	Proof pressure	MPa	3.09 (≈450 psi, 30.9 bar)
r R	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
R	Port size	Rc	1/8 / 1/4
L	Weight	kg	0.2

Ozone-proof specifications (Ending Page 16) B2019 - - P11

Option weight

B2019

(MPa)

Secondary pressure

0.22

0.21

0.20

0.19

0.18

0

0.2 0.3 0.4 0.5 0.6 0.7 0.8

Primary pressure (MPa)

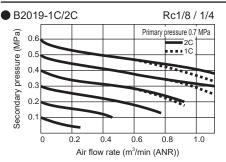
Pressure characteristics

* Add to the weight of the sta	Unit: kg		
	Panel mount	Pressure gauge	Bracket
Code	Р	G	В
B2019	0	0.086	0.035

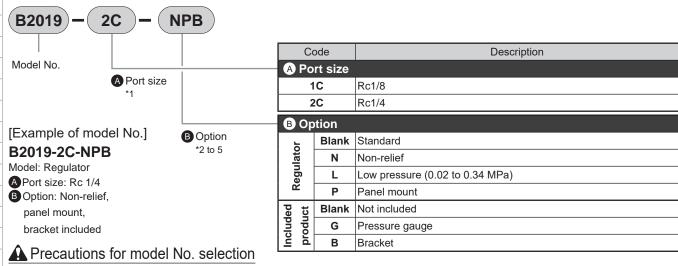
Set poin

0.9 1.0

Flow characteristics



How to order



*1 : If port size NPT thread is required, do not indicate nominal size C. (Example) B2019-1

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 : 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 419 for the included product "B" bracket.

F.R.L.

F.R. F (Filtr)

R (Reg)

L (Lub)

418

B2019 Series

F.R.L. F.R.

F (Filtr) R (Reg)

L (Lub) Drain Separ Mech

Press SW Res press exh valve

SlowStart Anti-bac/Bacremove Filt 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

Sens/Ctrl

WaterRtSens

TotAirSys (Total Air) TotAirSys (Gamma) Gas

generator

RefrDry

DesicDry

HiPolymDry

MainFiltr

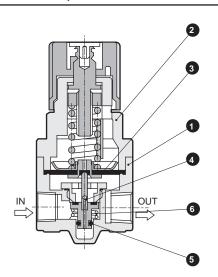
Dischrg

Ending

etc

Cool Air Flo

Internal structure and parts list



No.	Part name	Material	
1	Body	Zinc alloy die-casting	
2	Cover	Zinc alloy die-casting	
3	Diaphragm assembly	Nitrile rubber, zinc alloy die-casting, steel	
4	Valve assembly	Brass/hydrogenated nitrile rubber	
5	O-ring	Nitrile rubber	
6	Bottom spring	ottom spring Stainless steel	
7	O-ring	Nitrile rubber	
8	Bottom plug	Zinc alloy die-casting	

Consumable parts list

No.	Part name		Model No.	
2	Diaphragm assem-	Relief	B2019-DIAPHRAGM-ASSY	
3	bly	Non-relief	B2019-DIAPHRAGM-ASSY-N	
4	-Valve assembly		B2019-VALVE-ASSY	
5				

Mounting dimensions

when panel mounted

5

28.5

ø31

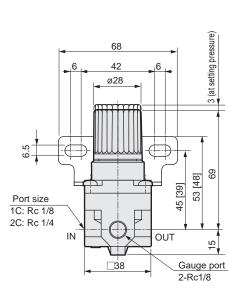
t = 4 or less

25

* Tapping screw attached

Dimensions

B2019



CAD

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

Internal structure diagram and parts list/dimensions

	-	-	vannen sions
	FUNCTION	5	
	Function (1) Adjusting Adjusting pressure pressure. (2) Relief val If the secc higher tha stem and release cc atmosphe preventin pressure (3) Diaphrag The balar pressure applied tc (seconda and the v closed to pressure side. (4) Valve sys If the diap adjustme compress supplied a side. A va used to a	S screw screw to adjus is turned clock we ondary pressur an the set press diaphragm sec ompressed air ere from the rel g the secondar from increasing m the diaphragm sprin the diaphragn ry side pressur alve system is supply accurat (set pressure) tem haragm and the nt spring lose b as required to t live with a large chieve exceller	t secondary wise to increase e becomes sure, the valve ction separate to to the e force of the g and the force h bottom e) is maintained opened and e and stable to the secondary e pressure alance, the rimary side is he secondary e bore size is
	character (5) Gauge po		
	A gauge p	port is placed n	ear the OUT side to measure the
		y side pressure rts are provide	e accurately. Two d.
SSY			
SY-N			
(
Wall bracket 6506		Wall bracket	·6166
Material:Steel Zin	ic plated	•	eel Zinc plated
Bracket thickness	s 2 mm	Bracket thi	ckness 2 mm
L			
2-ø5	20101	9 ⁹	₹ 20 20
* Tanning scrow a	attached		

CKD