

### P.G.Information (Specialized Product)

SP104X-014E P: SO

# Vacuum Regulator / IRV10 Series Special options usable for various applications

**SMC CORPORATION** 4-14-1,SOTO-KANDA, CHIYODA-KU, TOKYO 101-0021, JAPAN URL: http://www.smcworld.com

# Feature: This is an introduction for special options which may be used for various applications.

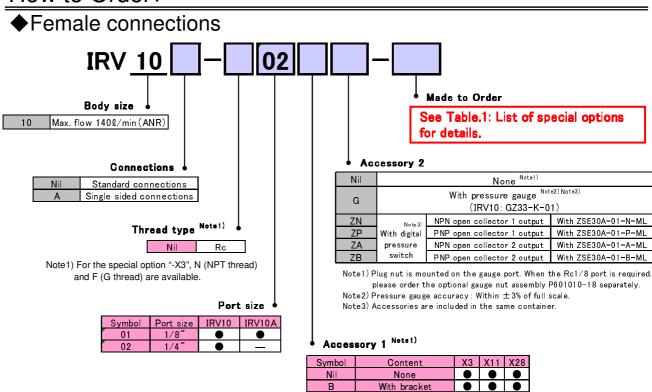
Table.1 List of Special options

	Special option	Description			Connections	
		Female connections	Gauge port Rc1/8 (only one side)	Female connections with rotation stop	Standard connections	Single sided connections
IRV10	Х3	•	_	_	•	•
	X7	_	•	_	•	•
	X11	•	•	_	•	•
	X28	_	_	•	•	_

# Specifications:

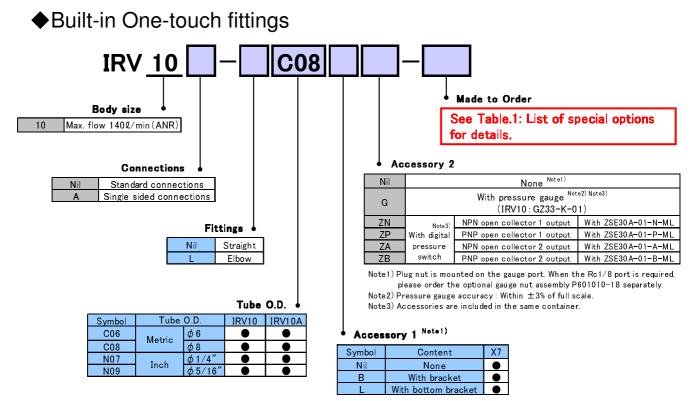
Fluid	Air	
Set pressure range	-100~-1.3kPa	
Withstand pressure	100kPa (Except with pressure gauge)	
Ambient and Fluid temperature	5~60°C	

### How to Order:



Note1) Accessories are included in the same container

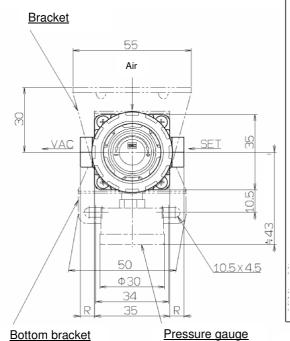
With bottom bracket



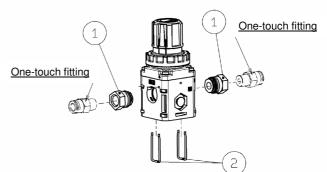
Note1) Accessories are included in the same container

### Dimensions: mm

## ♦IRV10-\*-X3



How to attach fittings with female thread adapters (Example of a one-touch fitting)



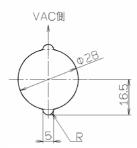
1. Screw one-touch fittings into the female thread adapters (1). 2. Insert the adapters 1. into the port and fix with the clip (2).

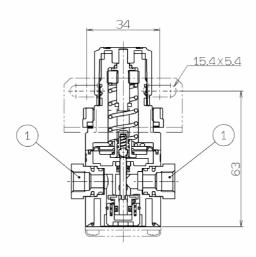
Note1) Do not fix the adapter before attaching the fitting. The resin body may break.

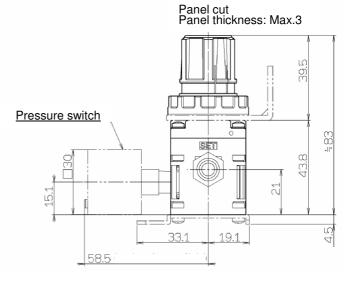
Note2) The parts (1) and (2) will be bundled with the product. Note3) The one-touch fitting will not be bundled.

Fitting part dimensions

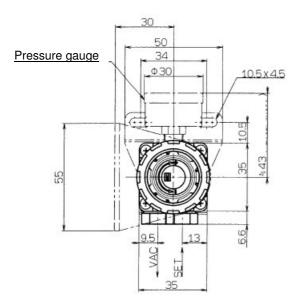
Port size	VAC/SET	
FUIT SIZE	R	
Rc1/8, G1/8	6.6	
1/8NPT	7.6	
Rc1/4, G1/4	11.6	
1/4NPT	12.6	

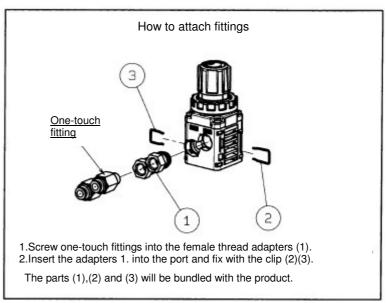


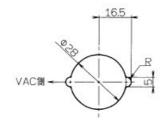




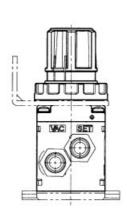
#### **♦IRV10A**-**※**-**X**3

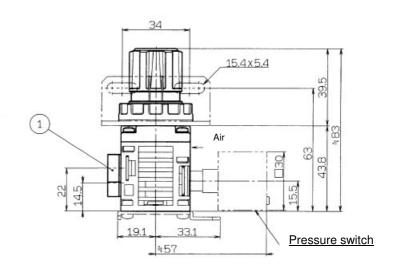






Panel cut Panel thickness: Max.3

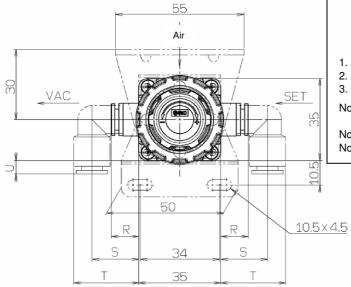


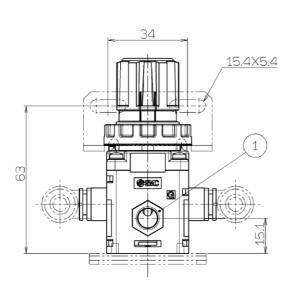


#### ♦IRV10-※-X7

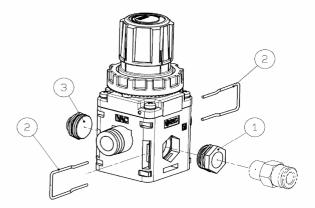
Fitting part dimensions

	VAC/SET				
Fitting size	Straight	Elbow	Elbow	Elbow	
	R	S	Т	U	
φ6, φ1/4"	10	19	26	3	
φ8, φ5/16"	12	20	28	6	





How to attach a fitting with a gauge nut (Example of a one-touch fitting)

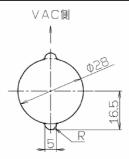


- 1. Screw the one-touch fitting into the gauge nut (1).
- Insert the gauge nut 1. into the port and fix with the clip (2).
   Insert a plug nut into the port on the other side of the body.

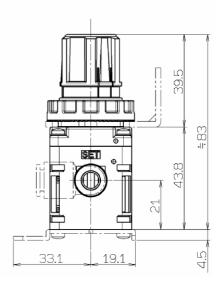
Note1) Do not fix the gauge nut before attaching the fitting. The resin body may break.

Note2) The parts (1),(2) and (3) will be bundled with the product.

Note3) The one-touch fitting will not be bundled.



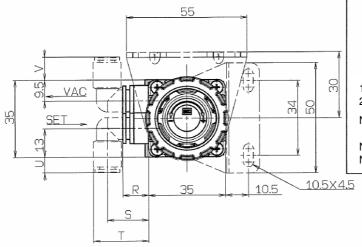
Panel cut Panel thickness: Max.3

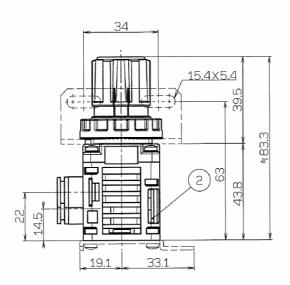


#### **♦IRV10A**-**※**-**X7**

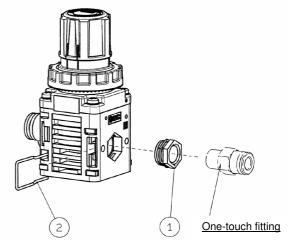
#### Fitting part dimensions

	VAC/SET					
Fitting size	Straight	Elbow	Elbow	Elbow	Elbow	
	R	S	Т	U	V	
Φ6, φ1/4"	10	19	26	7.5	11	
Φ8, φ5/16"	12	20	28	10.5	14	





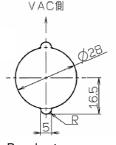
# How to attach a fitting with a gauge nut (Example of a one-touch fitting)



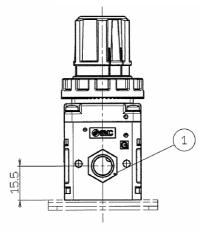
- Screw the one-touch fitting into the gauge nut (1).
   Insert the gauge nut 1. into the port and fix with the clip (2).

Note1) Do not fix the gauge nut before attaching the fitting. The resin body may break.

Note2) The parts (1) and (2) will be bundled with the product. Note3) The one-touch fitting will not be bundled.



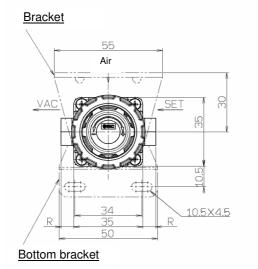
Panel cut Panel thickness: Max.3



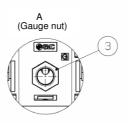
#### ♦IRV10-※-X11

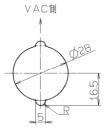
Fitting part dimensions VAC/SET Port size R Rc1/8 6.6 Rc1/4

11.6

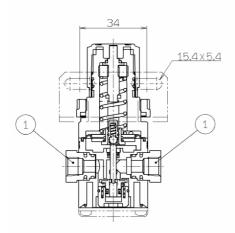


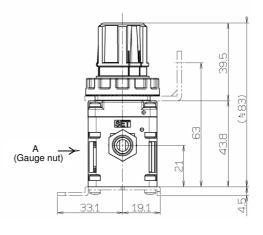
- How to attach fittings with female thread adapters ⇒It is the same as that of IRV10-※-X3.
  - (1) is the female thread adapter.
- How to attach a fitting with a gauge nut ⇒It is the same as that of IRV10-※-X7.
  - (3) is a gauge nut.



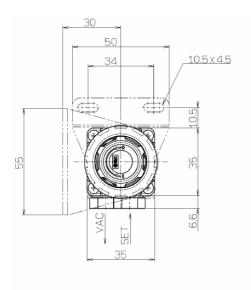


Panel cut Panel thickness: Max.3





#### ♦IRV10A-※-X11

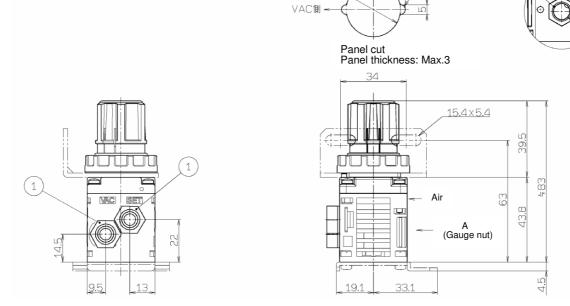


- How to attach fittings with female thread adapters
- ⇒It is the same as that of IRV10A-※-X3.
- (1) is the female thread adapter.
- How to attach a fitting with a gauge nut
  - ⇒It is the same as that of IRV10A-※-X7.

A (Gauge nut)

RC1/8

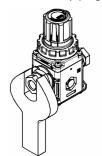
(4) is a gauge nut.



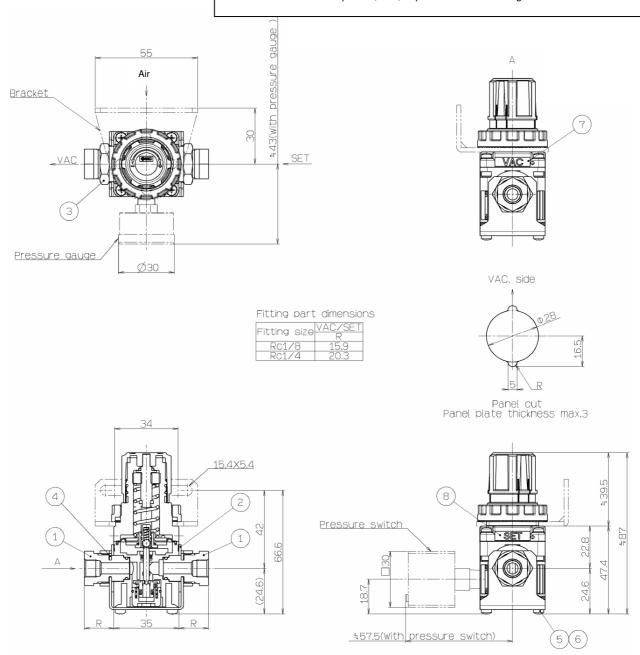
#### **♦IRV10**-**※**-**X28**

- Option to stop the tubing rotation.
- ⇒The parts (2),(3),(4),(5) and (6) are to stop the rotation of the tubing.
  - (1) is the female thread adapter.
  - (7) and (8) are port seals.

How to connect the piping



When connecting the tubing, please hold the female thread adapter with a spanner, etc., to prevent it from rotating.  $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2$ 



Caution To ensure the safest possible operation of this product, please be sure to thoroughly read the "Safety Instructions" in our "Best Pneumatics" catalog before use.