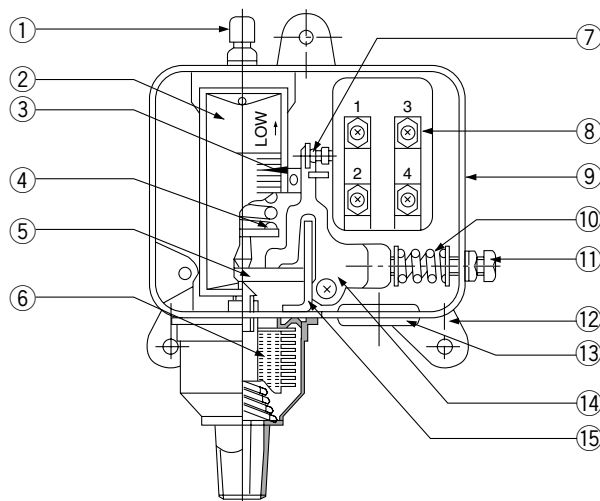


## Construction



## Component Parts

No.	Description
①	Setting pressure adjusting bolt
②	Scale plate
③	Pointer
④	Setting pressure adjusting spring
⑤	Main lever
⑥	Bellows assembly
⑦	Adjusting bolt
⑧	Snap switch (1a + 1b type)

No.	Description
⑨	Body
⑩	Hysteresis adjusting spring
⑪	Hysteresis adjusting bolt
⑫	Bracket
⑬	Grommet
⑭	Connection lever for switch operation
⑮	Stopper for operation lever

## How to Order

**ISG 1 1 0 - 03 0 - W**

- Multi-purpose pressure switch**
- Enclosure**
  - 1 Open type (Non-waterproof)
  - 2 Dripproof (Equivalent to IP44)
- Operating pressure range**
  - 1 0.02 to 0.3 MPa
  - 2 0.05 to 0.7 MPa
  - 3 0.1 to 1.0 MPa
  - 9 -10 to -100 kPa
- Material**
  - 0 Copper alloy
  - 1 Stainless steel 316
- Contacts/Bulb gland**

Contact	Nil	1a1b (Standard)
	W	2ab
Bulb gland	Nil	Type A 20a (Standard)
	B	Type A 20b
	C	Type A 20c

Note) Symbol must be ordered alphabetically like "BW".
- Hysteresis scale plate**

0	None
1	Hysteresis scale plate

Note) Not available for ISG 19/29□ type
- Port size**

03	R 3/8
N03	NPT 3/8

## Other

### ⚠ Caution

1. Bellows assembly is available for maintenance. When replacing other parts, please contact SMC, since it cannot be repaired by user.  
Order Bellows assembly with the part number as follows:  
Bellows assembly for ISG□□□-□□□  
(No other part numbers exist.)  
Ex.) Bellows assembly for ISG 110-030

## Operating Environment

1. Never use in an environment, where flammable fluids or gases are used. Since this product is not explosion-proof and may trigger an explosive disaster.

## ⚠ Precautions

Be sure to read before handling.  
Refer to pages 16-14-3 to 16-14-4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, and refer to pages 16-1-11 to 16-1-13 for Precautions on every series.

## Selection

### ⚠ Caution

1. Select the model taking into consideration the material suitable for the operating fluid. Type of operating fluid is limited by the material of wetted parts. Please contact SMC for materials not specified.

## Wiring

### ⚠ Warning

1. Do not have the internal wiring attached to the connection lever for switch operation. It may malfunction.

### ⚠ Caution

1. The grommet size of open type switch is ø17. It is possible to connect the electric piping 1/2B without grommet.
2. Max. diameter of an electric cord usable for bulb gland is shown as below.

Cable gland	Max. diameter of an electric cord
20a	ø 12
20b	ø 13
20c	ø 15

3. Terminal thread type is M4.

## Mounting/Piping

### ⚠ Caution

1. Mounting is possible in either horizontal or vertical orientations.

## Pressure Source

### ⚠ Warning

1. In the case of using switch in any liquid, install a water hammer or surge reducer to prevent the damage to switch caused by surges or pulsation pressure.

## Pressure Setting

### ⚠ Caution

1. Set the pressure by adjusting the setting pressure adjusting bolt to the right to increase and to the left to decrease.
2. Adjust the hysteresis with hysteresis adjusting bolt. In case of switch with scale plate, adjust the hysteresis with a flat head screwdriver tightening the adjusting bolt in the thread cap. Turn to the right to increase and to the left to decrease.
3. Hysteresis must be within the specified range in this catalog, operation may be unstable when activated out of the specified range.
4. Scale plate is only for reference. Use the gauge to get the correct pressure value.
5. Set pressure scale at the value of the pressure increase.