

## ■ Pressure Switches

- Pressure switches are used to make or break an electrical circuit at a preset hydraulic pressure.
- The Pressure switch has two microswitches, each of which is capable of electrically detecting high pressure or low pressure setting. The microswitch structure is dust and drip proof structure.

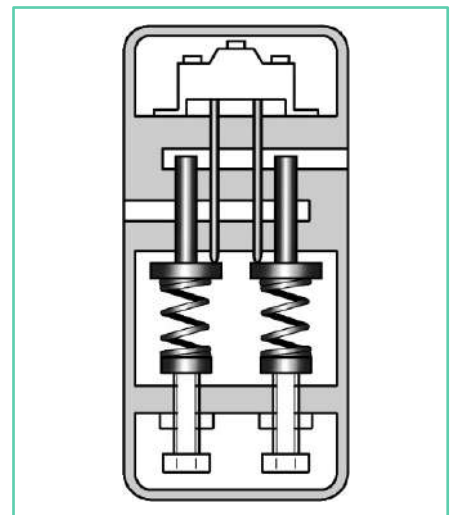


## ■ Specifications

| Model number       | Max. operating Pressure<br>Kgf/cm <sup>2</sup> | Mass<br>Kg. |
|--------------------|--|-------------|
| Sub-Plate Mounting |  |             |
| SG-02-※-2080       | 350  | 4.5         |

## ■ Micro Switch Ratings

| Loads                     | AC                         |                            | DC                           |
|---------------------------|----------------------------|----------------------------|------------------------------|
|                           | Normally Closed Contact    | Normally Open Contact      |                              |
| Inductive Load            | 4.5A – 125V<br>3.0A – 250V | 2.5A – 125V<br>1.5A – 250V | 0.05A – 125V<br>0.03A – 250V |
| Electric Motor            |                            |                            | -----                        |
| Incandescent Lamp         |                            |                            |                              |
| Electromagnetic Coil Load |                            |                            |                              |



Graphic Symbol



## ■ Model Number Designation

| F-  | S                              | G                               | -02        | -B  | -20           | 80              |
|---|--------------------------------|---------------------------------|------------|---|---------------|-----------------|
| Special Seals **  | Series number                  | Type of Mounting                | Valve Size | Pres. Adj. Range<br>Kgf/cm <sup>2</sup>                                     | Design Number | Design Standard |
| <b>F:</b><br>Special Seals for Phosphate Ester Type Fluids.<br>(Omit if not required) | <b>S:</b><br>Pressure Switches | <b>G:</b><br>Sub-Plate mounting | <b>02</b>  | <b>B:</b> 7-70<br><b>C:</b> 35-140<br><b>H:</b> 70-210<br><b>K:</b> 105-350 | <b>20</b>     | <b>80</b>       |

\*\* Before ordering the Special Seals, consult C.N.INDUSTRIAL PRODUCT.

## Instructions

### Pressure Adjustments

Remove the front cover and loosen the lock nut. Turn the pressure adjustment screw slowly clockwise for higher pressure or anti-clockwise for lower pressures. After adjustments, be sure to tighten the lock nut and replace the front cover in position.

### Drain piping

Connect the drain pipe not to any other line but directly to the tank.

## Attachment

### Mounting Bolts

| Valve Model Number | Socket Head cap Screw | Qty. | Bolt Kit Ordering Code |
|--------------------|-----------------------|------|------------------------|
| SG-02-2080         | M6 x 60 Lg.           | 2    | BKSG-02-20             |

### Sub-plate

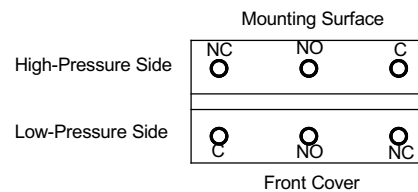
| Valve Model Number | Sub-Plate Model Number | Thread Size | Mass Kg. |
|--------------------|------------------------|-------------|----------|
| SG-02              | SGM-02-2080            | 1/4 BSP.F   | 1.1      |

- Sub-plates are available. Specify sub-plate model from the table above. When sub-plates are not used, the mounting surface should have a good machined finish.

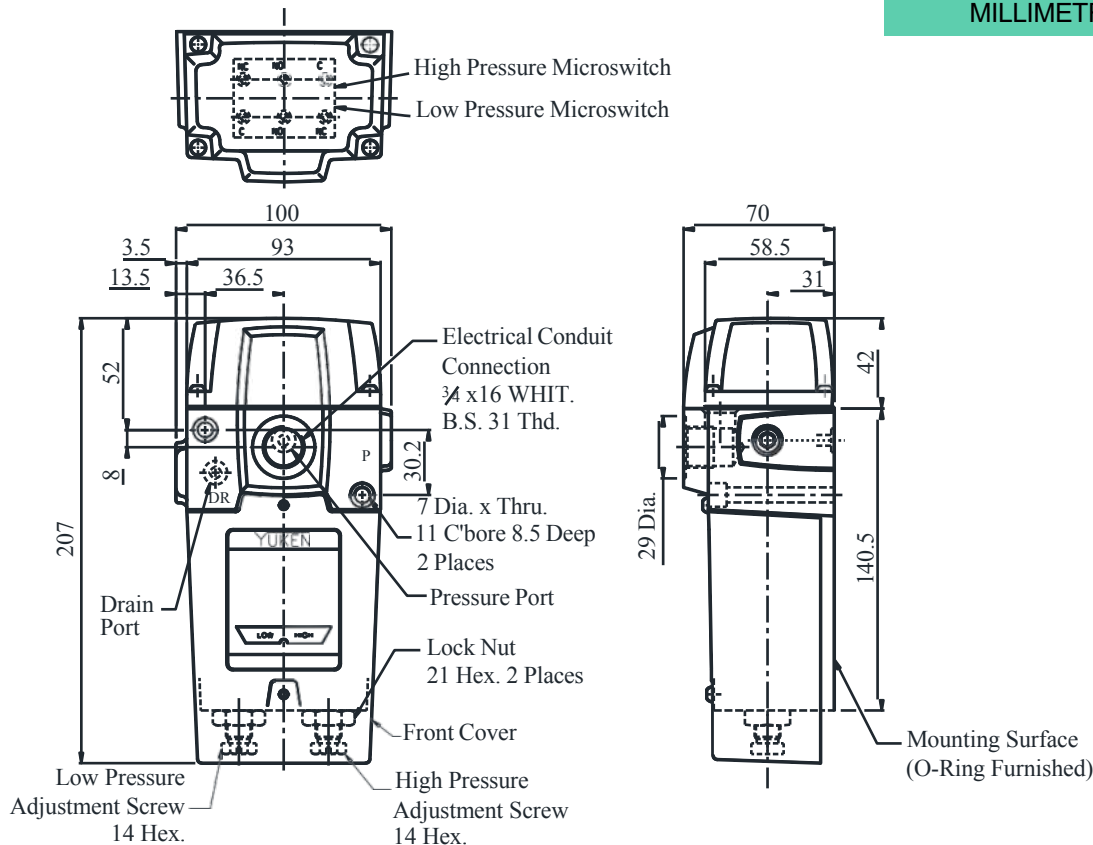
### Pressures and microswitch contacts

| Pressure                   | Contact point             |                          |
|----------------------------|---------------------------|--------------------------|
|                            | High pressure Microswitch | Low Pressure Microswitch |
| Under the Setting Pressure |                           |                          |
| Above the Setting Pressure |                           |                          |

### Microswitch terminals

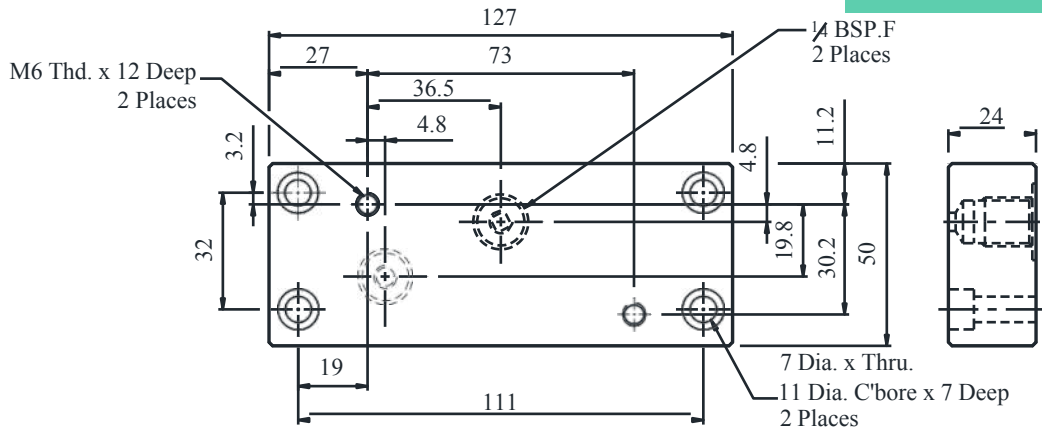


### SG-02-※-2080

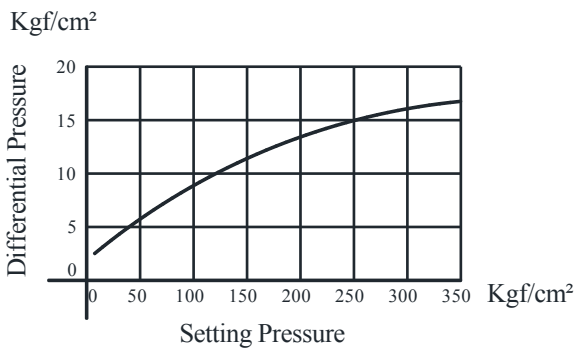


● **Sub-Plate : SGM-02-2080**

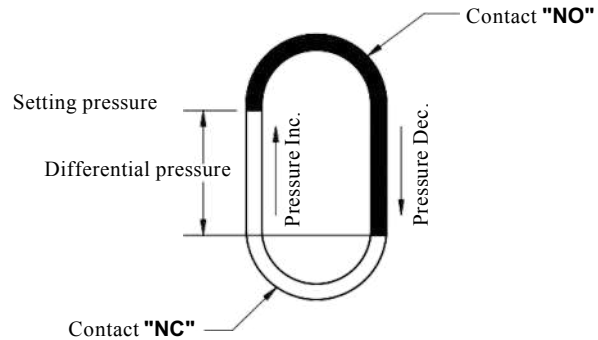
**DIMENSIONS IN MILLIMETRES**



**Differential Pressure Characteristic**



\* The differential pressure means the pressure difference caused between at NC and at NO when one of the pressure on the high and low-pressure side is raised and then lowered.



**Model Number Designation**

| Example 1<br>Solenoid is required to be energized at low pressure and De-energized at high pressure setting. |                | Example 2<br>Solenoid is required to be De-energized at low pressure and energized at high pressure setting. |                | Example 3<br>Electric motor is required to be started at low Pressure and stopped at high pressure setting. |                |
|--|----------------|--|----------------|---|----------------|
| Schematic Diagram  | Wiring Diagram | Schematic Diagram  | Wiring Diagram | Schematic Diagram   | Wiring Diagram |
|  |                |  |                |   |                |

**Spare Parts List**

● **List of Seals**

| Sl. No. | Name of Parts    | Part Number | Quantity |
|---------|------------------|-------------|----------|
| 1       | O-Ring           | SO-NA-P5    | 2        |
| 2       | O-Ring           | SO-NB-P8    | 2        |
| 3       | Insulation cloth | V*4-0795-0  | 2        |
| 4       | Gasket           | V*4-0792-0  | 1        |

Note : When Ordering the seals, please specify the seal kit number KS-SG-02-2080.

**Pressure Switches**