

# Flow Gauge & Switch, Sight flow meter

## HCKB - Series

### Description

#### Flow Switch

They are magnet coupling, pointer indication type flow switch.

A flapper is located in flow path and the movement of the flapper is transferred to the pointer by magnetic coupling for the indication on the scale plate.

They are used to measure the opaque liquid, sludge, cooling water and gas.

#### Features

- Magnet coupling
- Alarm (1 SPDT, 2 SPDT) – Reed Switch



### Flow Chart

| Size |        | Flow Rate                            | Flow Rate                |              | Length (mm) |           |
|------|--------|--------------------------------------|--------------------------|--------------|-------------|-----------|
|      |        | H <sub>2</sub> O (m <sup>3</sup> /h) | GAS (Nm <sup>3</sup> /h) | STEAM (Kg/h) | L (Flange)  | L (Screw) |
| 15A  | 1/2B   | 0,1 – 0,5                            | 6 – 30                   | 10 – 50      | 220         | 150       |
|      |        | 0,4 – 2                              | 12 – 60                  | 20 – 100     |             |           |
| 20A  | 3/4B   | 0,1 – 0,5                            | 6 – 30                   | 10 – 50      | 220         | 160       |
|      |        | 0,6 – 3                              | 12 – 60                  | 20 – 100     |             |           |
| 25A  | 1B     | 0,2 – 1                              | 12 – 60                  | 10 – 50      | 220         | 180       |
|      |        | 1 – 5                                | 30 – 150                 | 40 – 200     |             |           |
| 32A  | 1-1/4B | 0,2 – 1                              | 12 – 60                  | 10 – 50      | 220         | 200       |
|      |        | 1 – 5                                | 30 – 150                 | 40 – 200     |             |           |
| 40A  | 1-1/2B | 0,4 – 2                              | 16 – 80                  | 20 – 100     | 220         | 200       |
|      |        | 2 – 10                               | 60 – 300                 | 80 – 400     |             |           |
| 50A  | 2B     | 0,6 – 3                              | 20 – 100                 | 20 – 100     | 220         | 220       |
|      |        | 3 – 15                               | 90 – 450                 | 120 – 600    |             |           |
| 65A  | 2-1/2B | 1,2 – 6                              | 60 – 300                 | 80 – 400     | 260         | 220       |
|      |        | 6 – 30                               | 180 – 900                | 240 – 1,200  |             |           |
| 80A  | 3B     | 1,6 – 8                              | 120 – 600                | 100 – 500    | 300         |           |
|      |        | 8 – 40                               | 240 – 1,200              | 400 – 2,000  |             |           |
| 100A | 4B     | 3 – 15                               | 180 – 900                | 200 – 1,000  | 330         |           |
|      |        | 16 – 80                              | 400 – 2,000              | 700 – 3,500  |             |           |
| 125A | 5B     | 4 – 20                               | 200 – 1,000              | 200 – 1,000  | 380         |           |
|      |        | 20 – 100                             | 600 – 3,000              | 900 – 4,500  |             |           |
| 150A | 6B     | 6 – 30                               | 240 – 1,200              |              | 480         |           |
|      |        | 30 – 150                             | 900 – 4,500              |              |             |           |
| 200A | 8B     | 12 – 60                              | 300 – 1,500              |              | 650         |           |
|      |        | 60 – 300                             | 1,800 – 9,000            |              |             |           |
| 250A | 10B    | 16 – 80                              | 600 – 3,000              |              | 680         |           |
|      |        | 80 – 400                             | 2,400 – 12,000           |              |             |           |
| 300A | 12B    | 20 – 100                             | 900 – 4,500              |              | 720         |           |
|      |        | 100 – 500                            | 3,000 – 15,000           |              |             |           |

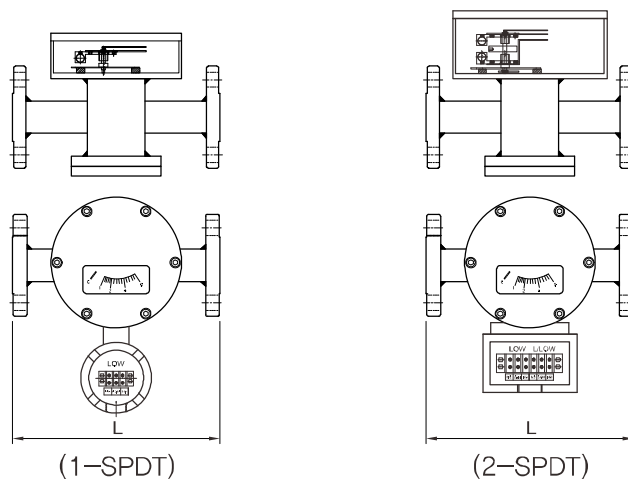
# Flow Gauge & Switch, Sight flow meter

## Specification

|                    |                                                                                      |
|--------------------|--------------------------------------------------------------------------------------|
| Measuring          | Liquid, Gas (Option: Steam)                                                          |
| Meter Size         | 15A(1/2") ~ 300A(12")                                                                |
| Material           | SUS 304 / SUS 316 / SUS 316L<br>Other Materials on Request                           |
| Pressure Rating    | Max 10 kgf/cm <sup>2</sup> (Standard)<br>Option: Max 20 kgf/cm <sup>2</sup>          |
| Temperature        | Operation: 0 ~ 100°C (Max: 120°C)<br>Option: Max 200°C                               |
| Connection         | Flange Connection (JIS / ANSI / DIN / Other)<br>Screw Connection<br>Calmp Connection |
| Accuracy           | ± 5.0% of F.S                                                                        |
| Alarm (Option)     | Contact Capacity: 250 VAC 0.5A<br>Form: 1-SPDT, 2-SPDT (Reed Switch)                 |
| Electro Connection | PF 3/4"                                                                              |

## Material & Dimension

| Part List    | Material               |         |          |
|--------------|------------------------|---------|----------|
| Flange       | SUS 304                | SUS 316 | SUS 316L |
| Packing      | NBR, EPDM, VITON, PTFE |         |          |
| Body         | SUS 304                | SUS 316 | SUS 316L |
| Shaft        | SUS 304                | SUS 316 | SUS 316L |
| Spring       | SUS 304                | SUS 316 | SUS 316L |
| Flapper      | SUS 304                | SUS 316 | SUS 316L |
| Magnet Room  | SUS 304                | SUS 316 | SUS 316L |
| Bolt Nut     | SUS 304                | SUS 316 | SUS 316L |
| Cover        | ALUMINUM               |         |          |
| Sensor       | Reed Switch            |         |          |
| Terminal Box | ALUMINUM               |         |          |



HCKB

## Ordering Code

| Model                 | Specification            | Description  |     |            |  |
|-----------------------|--------------------------|--------------|-----|------------|--|
| HCKB                  | Flow Switch              |              |     |            |  |
|                       | ▪ Flow Direction         |              |     |            |  |
|                       | 1                        | Bottom → Top |     |            |  |
|                       | 5                        | Side → Side  |     |            |  |
|                       | 6                        | Top → Bottom |     |            |  |
|                       | ▪ Meter Size             |              |     |            |  |
|                       | 15                       | 15A(1/2")    | 100 | 100A (4")  |  |
|                       | 20                       | 20A(3/4")    | 125 | 125A (5")  |  |
|                       | 25                       | 25A (1")     | 150 | 150A (6")  |  |
|                       | 32                       | 32A (1-1/4") | 200 | 200A (8")  |  |
|                       | 40                       | 40A (1-1/2") | 250 | 250A (10") |  |
|                       | 50                       | 50A (2")     | 300 | 300A (12") |  |
|                       | 65                       | 65A (2-1/2") | O   | Others     |  |
|                       | 80                       | 80A (3")     |     |            |  |
|                       | ▪ Connection             |              |     |            |  |
|                       | J                        | JIS 10K      |     |            |  |
|                       | A                        | ANSI 150#    |     |            |  |
|                       | D                        | DIN PN16     |     |            |  |
|                       | P                        | Screw: PT    |     |            |  |
|                       | N                        | Screw: NPT   |     |            |  |
|                       | O                        | Others       |     |            |  |
| ▪ Body Material       |                          |              |     |            |  |
| A                     | SUS 304                  |              |     |            |  |
| B                     | SUS 316                  |              |     |            |  |
| C                     | SUS 316L                 |              |     |            |  |
| O                     | Others                   |              |     |            |  |
| ▪ Alarm (Reed Switch) |                          |              |     |            |  |
| 1                     | One Point Alarm (1-SPDT) |              |     |            |  |
| 2                     | Two Point Alarm (2-SPDT) |              |     |            |  |

[Example]

HCKB-1-15-J-A-1