



# Y-TYPE AUTOMATIC DIAPHRAGM VALVE (NORMAL OPEN TYPE)



## YT Series

### YT100 SOCKET/YT200 THREADED YT300 FLANGED Size: 3/8" - 2"

Y type diaphragm valve operation instructions:

1. Valve Close Operation :

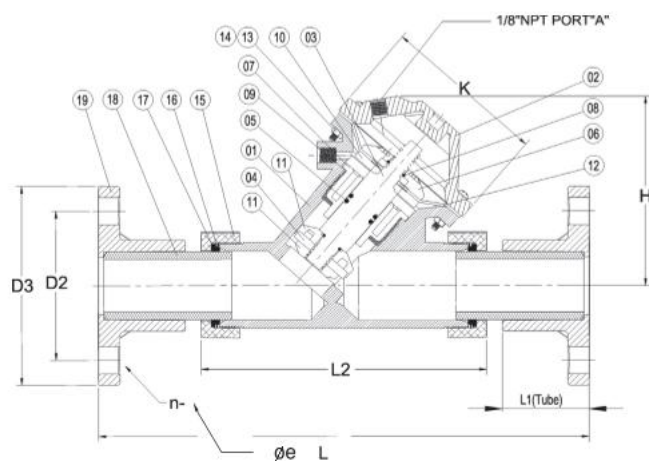
Air fill in from the cap's air hole and body's air hole clear out the air.

2. Valve Open Operation :

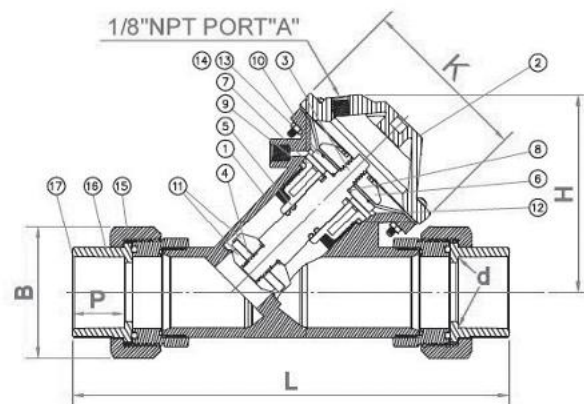
Fill air from the body's air hole and the cap's air hole clear out the air.

### ● MATERIALS OF CONSTRUCTION

| No. | Parts            | Pcs. | Materials | No. | Parts        | Pcs.   | Materials |
|-----|------------------|------|-----------|-----|--------------|--------|-----------|
| 1   | Body             | 1    | PPS       | 11  | Plate Screw  | 1      | PVDF      |
| 2   | Bonnet           | 1    | PPS       | 12  | Diaphragm    | 1      | EPDM      |
| 3   | Disc Plate Screw | 1    | PVDF      | 13  | Bolt         | 6/8/12 | SUS304    |
| 4   | Disc             | 1    | EPDM      | 14  | Hex Nut      | 6/8/12 | SUS304    |
| 5   | Dynamic O'ring   | 1    | EPDM      | 15  | End Seal     | 2      | PPO       |
| 6   | Shaft            | 1    | PVDF      | 16  | Split Ring   | 2      | EPDM      |
| 7   | Shaft Guide      | 1    | PPG       | 17  | Retainer Nut | 2      | PPG       |
| 8   | Shaft Seal       | 1    | EPDM      | 18  | Tube         | 2      | UPVC      |
| 9   | Body Seal        | 1    | EPDM      | 19  | Flange       | 2      | UPVC      |
| 10  | Diaphragm Hader  | 1    | PVDF      |     |              |        |           |



**FLANG TYPE**



**SOCKET & SCREW TYPE**

Operation limits:

1. pressure : 3-8 kgf/cm<sup>2</sup>
2. 3 kgf/cm<sup>2</sup> air pressure can open the valve(from the body's air hole)
3. The max pressure place on the valve (fill air pressure + flow pressure) is 8 kgf/cm<sup>2</sup>
4. The inlet air preaaure from the cap's air hole must be higher than the flow pressure that can close the valve.

## **DIMENSIONS TABLE**

| Nom. Size<br>DN(inch) | L2  | L1 | L   | H   | K   | JIS Unit:mm |     |   |    | ANSI Unit:inch |      |   |      | DIN Unit:mm |     |   |    |
|-----------------------|-----|----|-----|-----|-----|-------------|-----|---|----|----------------|------|---|------|-------------|-----|---|----|
|                       |     |    |     |     |     | D2          | D3  | n | øe | D2             | D3   | n | øe   | D2          | D3  | n | øe |
| 12(3/8")              | 100 | 70 | 198 | 65  | 63  | 65          | 90  | 4 | 15 | 2.38           | 3.50 | 4 | 0.63 | 60          | 90  | 4 | 14 |
| 15(1/2")              | 100 | 70 | 219 | 65  | 63  | 70          | 95  | 4 | 15 | 2.36           | 3.50 | 4 | 0.63 | 65          | 95  | 4 | 14 |
| 20(3/4")              | 100 | 80 | 238 | 65  | 63  | 75          | 100 | 4 | 15 | 2.75           | 3.88 | 4 | 0.63 | 75          | 105 | 4 | 14 |
| 25(1")                | 118 | 80 | 238 | 103 | 83  | 90          | 125 | 4 | 19 | 3.13           | 4.25 | 4 | 0.63 | 85          | 115 | 4 | 14 |
| 32(1-1/4")            | 118 | 90 | 332 | 103 | 83  | 100         | 135 | 4 | 19 | 3.50           | 4.63 | 4 | 0.63 | 100         | 140 | 4 | 18 |
| 40(1-1/2")            | 194 | 90 | 332 | 128 | 116 | 105         | 140 | 4 | 19 | 3.88           | 5.00 | 4 | 0.63 | 110         | 150 | 4 | 18 |
| 50(2")                | 194 | 90 | 350 | 128 | 116 | 120         | 155 | 4 | 19 | 4.75           | 6.00 | 4 | 0.75 | 125         | 165 | 4 | 18 |

※ Standard dimensions based on PVC material