



# BALEM Valve (BALEM 411)

## Special Features

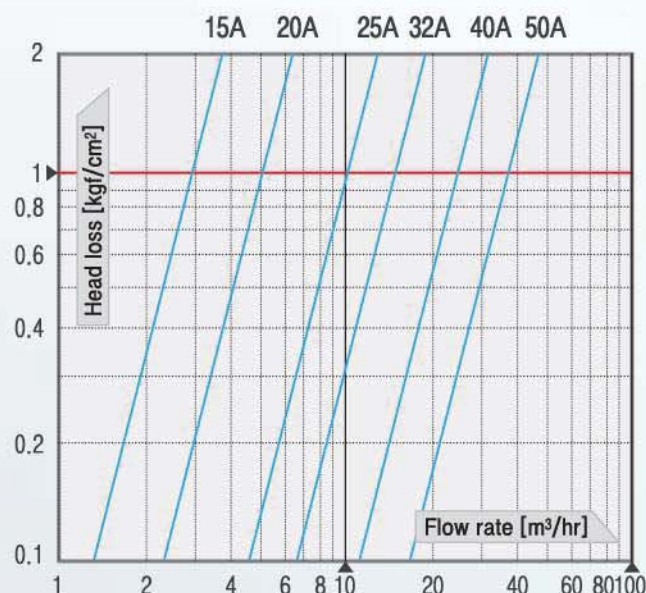
- Simple design combined ball valve with float.
- Operates mechanically without external power source.
- Spherical disc with hole controls liquid level perfectly.
- Durable, trouble free and easy installation.
- Perfect shutoff at high pressure.
- Valve body is available in stainless steel or nickel plated brass.

Balem Valve (Balem 411) is designed to control liquid level in a reservoir by the float buoyancy and dead weight(gravity). The valve does not require any external power source but controls the water level perfectly. This valve guarantees perfect shut-off even at high pressure. Anti-corrosive and thermal resistant material ensures durable and trouble free operation. Installation and maintenance is simple and easy.

## 【 Applications 】

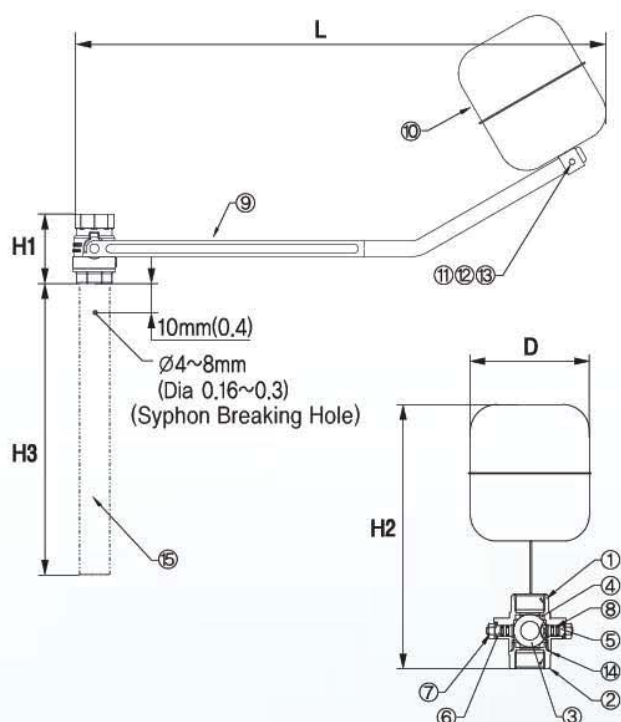
- Underground / roof top water reservoir level control valve.
- Substitution for High and Low level control electrodes in water reservoir.
- Various types of oil tank float control valves.

## 【 Flow Chart 】



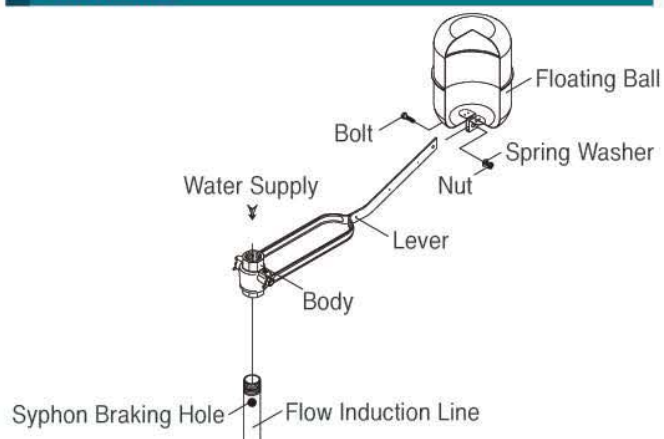
| Specifications     | BALEM Valve (BALEM 411)                                         |           |                    |             |               |         |
|--------------------|-----------------------------------------------------------------|-----------|--------------------|-------------|---------------|---------|
| Model No.          | 411-015<br>4F                                                   | 411-020   | 411-025<br>2F / 4F | 411-032     | 411-040<br>4F | 411-050 |
|                    | 2F : Brass Body & Cap(Nickel Plated) / 4F : All Stainless Steel |           |                    |             |               |         |
| Size               | 15A(1/2")                                                       | 20A(3/4") | 25A(1")            | 32A(1 1/4") | 40A(1 1/2")   | 50A(2") |
| Operating Pressure | 0.98 MPa (10kgf/cm²)                                            |           |                    |             |               |         |
| End Connections    | Female threaded : KSPT(Standard) / NPT(Optional)                |           |                    |             |               |         |
| Media              | Water, Oil<br>Temperature : 0℃ ~ 80℃                            |           |                    |             |               |         |

## Dimensions



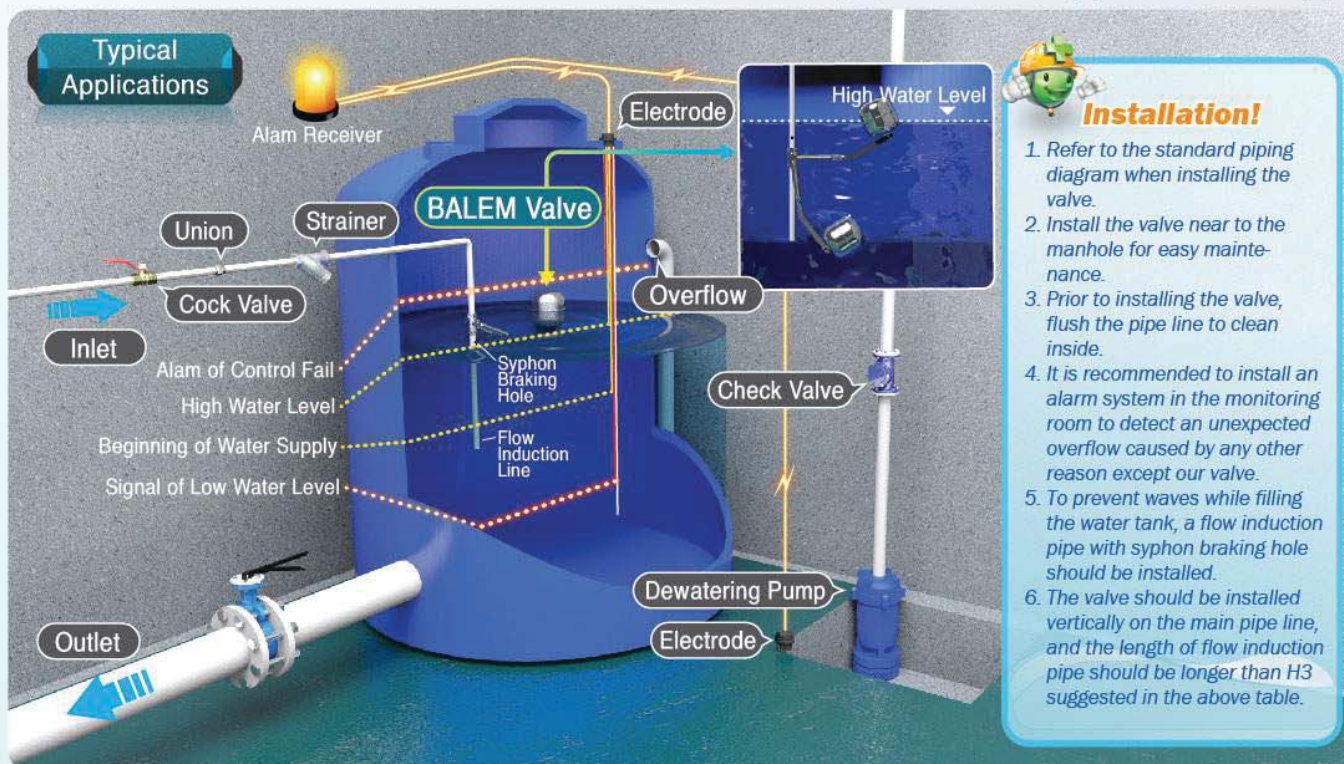
| Size(mm) | 2F | 4F | H1  | H2  | H3     | L   | D(Ø) |
|----------|----|----|-----|-----|--------|-----|------|
| 15A      | X  | ●  | 49  | 215 | 170min | 350 | 113  |
| 20A      | ●  | ●  | 59  | 240 | 200min | 510 | 113  |
| 25A      | ●  | ●  | 75  | 260 | 360min | 630 | 124  |
| 32A      | ●  | ●  | 85  | 310 | 460min | 760 | 145  |
| 40A      | X  | ●  | 89  | 330 | 550min | 880 | 176  |
| 50A      | X  | ●  | 110 | 420 | 670min | 995 | 208  |

## Materials



| No. | Components          | Materials |         |
|-----|---------------------|-----------|---------|
|     |                     | 2F        | 4F      |
| 1   | Body                | Brass     | SSC 13  |
| 2   | Cap                 | Brass     | SSC 13  |
| 3   | Ball                | Brass     | STS 304 |
| 4   | Seat Ring           | P.T.F.E   |         |
| 5   | Stem1               | Brass     | STS 304 |
| 6   | Stem2               | Brass     | STS 304 |
| 7   | Nut                 | Brass     | STS 304 |
| 8   | O-Ring              | N.B.R     |         |
| 9   | Lever               | STS 304   | STS 304 |
| 10  | Floating Ball       | STS 304   | STS 304 |
| 11  | Bolt                | STS 304   | STS 304 |
| 12  | Spring Washer       | STS 304   | STS 304 |
| 13  | Nut                 | STS 304   | STS 304 |
| 14  | O-Ring              | N.B.R     |         |
| 15  | Flow Induction Line | P.V.C     |         |

◎ 15A-25A (2F) wishful valve only provides induction pipes



### Installation!

1. Refer to the standard piping diagram when installing the valve.
2. Install the valve near to the manhole for easy maintenance.
3. Prior to installing the valve, flush the pipe line to clean inside.
4. It is recommended to install an alarm system in the monitoring room to detect an unexpected overflow caused by any other reason except our valve.
5. To prevent waves while filling the water tank, a flow induction pipe with syphon braking hole should be installed.
6. The valve should be installed vertically on the main pipe line, and the length of flow induction pipe should be longer than H3 suggested in the above table.