

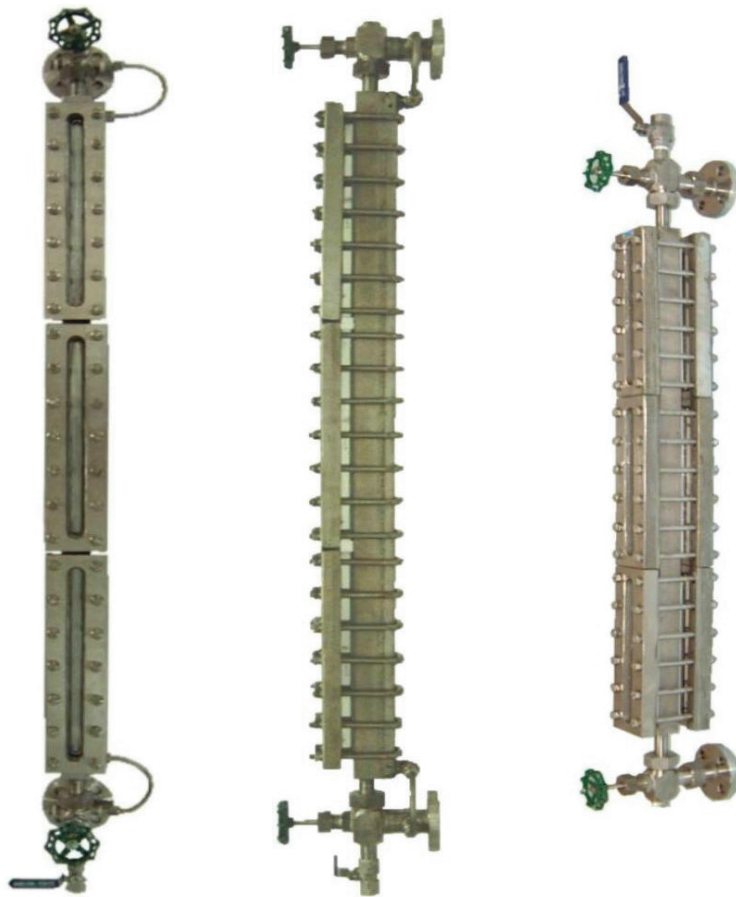
NEW-FLOW

**ISO 9001
REGISTERED**

NEW-FLOW

MANUFACTURE OF METAL TUBE FLOW METER
LIQUID LEVEL GAUGE

Instruction Manual



NEW-FLOW TECHNOLOGIES, INC.

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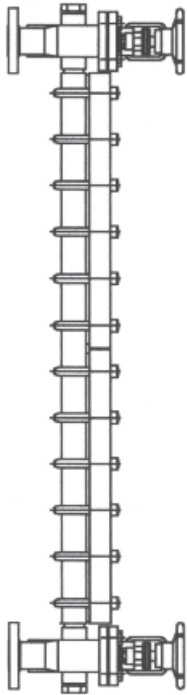
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INSTALLATION

Liquid Level Gauge Type

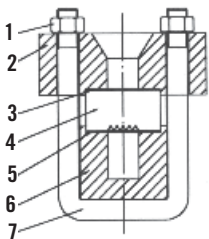
• R Series – Reflex Type



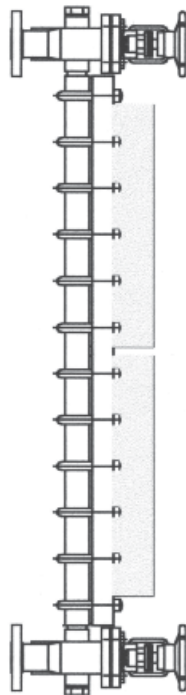
Model: R
Standard Type

- **Temperature Range:** 0°C ~ 280°C
- **Pressure Range:** up to 40 kg/cm²; option available
- **With Gauge Valve:** Union nut or Nipple between gauge valve and vessel body.
- **Process Connection:** Thread or Flange according to JIS, ANSI and DN specification.

Parts List



1. Nut for U-bolt
2. Cover
3. Gasket
4. Gauge Glass
5. Gasket
6. Body
7. U-bolt

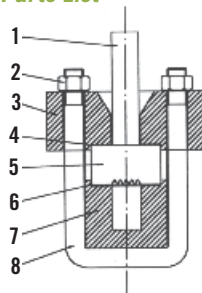


Model: RN
Non-Frosting Type

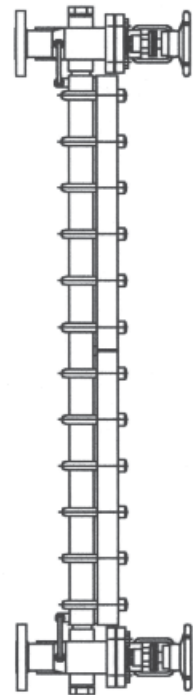
Using in low temperature application to prevent the frost build up does not obscure reading of the liquid level.

- **Temperature Range:** -10°C ~ 100°C
- **Pressure Range:** up to 20 kg/cm²

Parts List



1. Plastic Extension Plate
2. Nut for U-bolt
3. Gauge Cover
4. Gasket
5. Gauge Glass
6. Gasket
7. Gauge Body
8. U-bolt

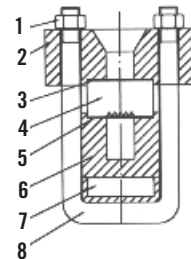


Model: RJ
Jacket Type

Jacket type— Heating or Cooling
This type is built with a jacket pass through steam or cooling water into the jacket. It can keep temperature in the vessel to avoid liquid crystallization or vaporization. So the liquid can be indicated clearly.

- **Temperature Range:** 0°C ~ 280°C
- **Pressure Range:** up to 40 kg/cm²; option available.

Parts List

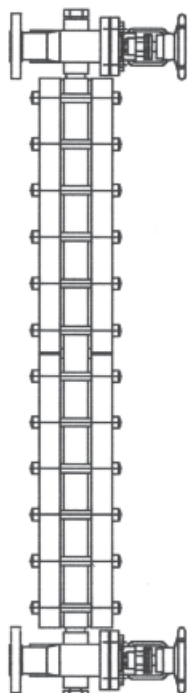


1. Nut for U-bolt
2. Cover
3. Gasket
4. Gauge Glass
5. Gasket
6. Body
7. Jacket
8. U-bolt

INSTALLATION

Liquid Level Gauge Type

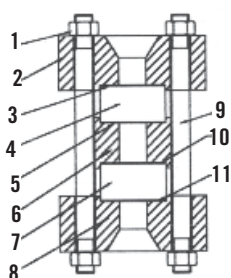
• T Series – Transparent Type



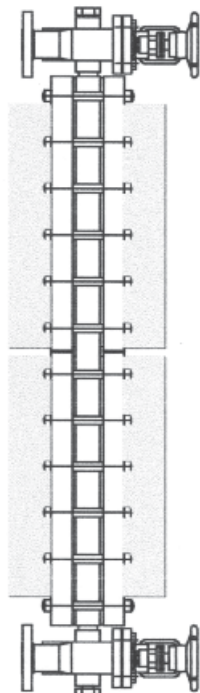
Model: T
Standard Type

- **Temperature Range:** 0°C ~ 280°C
- **Pressure Range:** up to 40 kg/cm²; option available.
- **Without Gauge Valve:** ½" or ¾" NPT
- **With Gauge Valve:** Union nut or Nipple between gauge valve and vessel body.
- **Process Connection:** Thread or Flange according to JIS, ANSI and DN specification.
- **Transparent type is not suitable for colorless liquid.**

Parts List



1. Nut for U-bolt
2. Cover
3. Gasket
4. Gauge Glass
5. Gasket
6. Body
7. Gauge Glass
8. Cover
9. Bolt
10. Gasket
11. Gasket

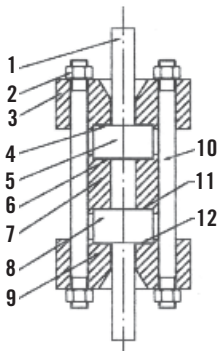


Model: TN
Non-Frosting Type

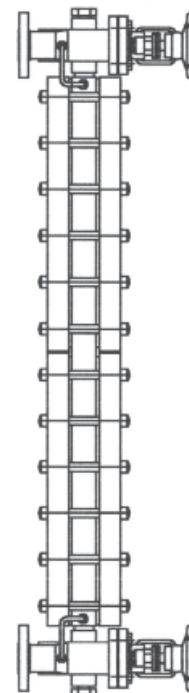
Using in low temperature application to prevent the frost build up does not obscure reading of the liquid level.

- **Temperature Range:** -10°C ~ 100°C
- **Pressure Range:** up to 20 kg/cm²

Parts List



1. Plastic Extension Plate
2. Nut for U-bolt
3. Gauge Cover
4. Gasket
5. Gauge Glass
6. Gasket
7. Body
8. Gauge Glass
9. Cover
10. U-bolt
11. Gasket
12. Gasket

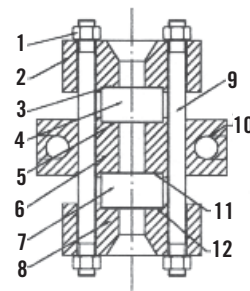


Model: TJ
Jacket Type

Jacket type— Heating or Cooling
This type is built with a jacket pass through steam or cooling water into the jacket. It can keep temperature in the vessel to avoid liquid crystallization or vaporization. So the liquid can be indicated clearly.

- **Temperature Range:** 0°C ~ 280°C
- **Pressure Range:** up to 40 kg/cm²; option available.

Parts List

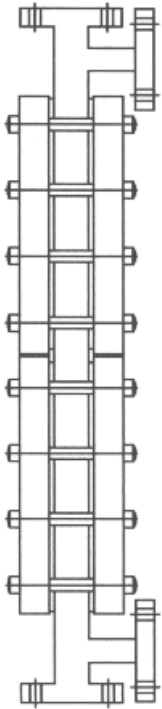


1. Nut for U-bolt
2. Cover
3. Gasket
4. Gauge Glass
5. Gasket
6. Body
7. Gauge Glass
8. Cover
9. Bolt
10. Jacket Pipe
11. Gasket
12. Gasket

INSTALLATION

Liquid Level Gauge Type

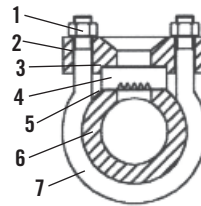
• B Series – Large Chamber Type



Model: BR, Standard

- **Temperature Range:** 0°C ~ 300°C
- **Pressure Range:** up to 40 kg/cm²;
- **Process Connection:** ½" up to 2"

Parts List



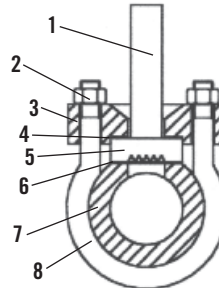
- | | |
|-------------------|-----------|
| 1. Nut for U-bolt | 6. Body |
| 2. Gauge Cover | 7. U-bolt |
| 3. Gasket | |
| 4. Gauge Glass | |
| 5. Gasket | |

Model: BRN, Non-Frosting Type

Using in low temperature application to prevent the frost build up does not obscure reading of the liquid level.

- **Temperature Range:** -10°C ~ 100°C
- **Pressure Range:** up to 20 kg/cm²;
- **Process Connection:** ½" up to 2"

Parts List

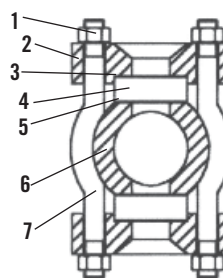


- | | |
|----------------------------|---------------|
| 1. Plastic Extension Plate | 6. Gasket |
| 2. Nut for U-bolt | 7. Gauge Body |
| 3. Gauge Cover | 8. U-bolt |
| 4. Gasket | |
| 5. Gauge Glass | |

Model: BT

- **Temperature Range:** 0°C ~ 300°C
- **Pressure Range:** up to 40 kg/cm²;
- **Process Connection:** ½" up to 2"

Parts List

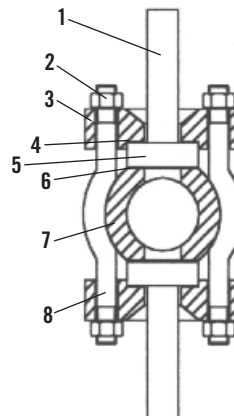


- | | |
|-------------------|---------------|
| 1. Nut for U-bolt | 6. Gauge Body |
| 2. Gauge Cover | 7. Bolt |
| 3. Gasket | |
| 4. Gauge Glass | |
| 5. Gasket | |

Model: BTN

- **Temperature Range:** -10°C ~ 100°C
- **Pressure Range:** up to 40 kg/cm²;
- **Process Connection:** ½" up to 2"

Parts List



- | | |
|----------------------------|---------------|
| 1. Plastic Extension Plate | 6. Gasket |
| 2. Nut for U-bolt | 7. Gauge Body |
| 3. Gauge Cover | 8. Bolt |
| 4. Gasket | |
| 5. Gauge Glass | |

INSTALLATION

Valve Type

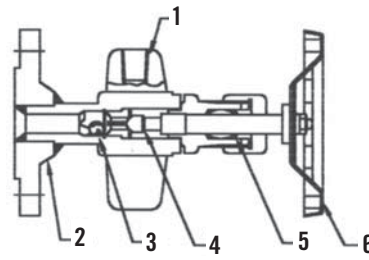
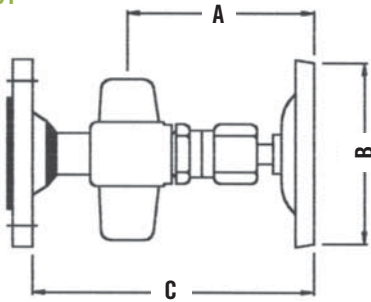


Standard Type Valve



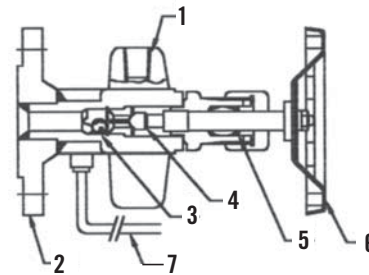
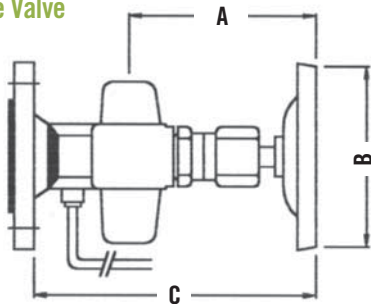
Jacket Type Valve

Standard Type



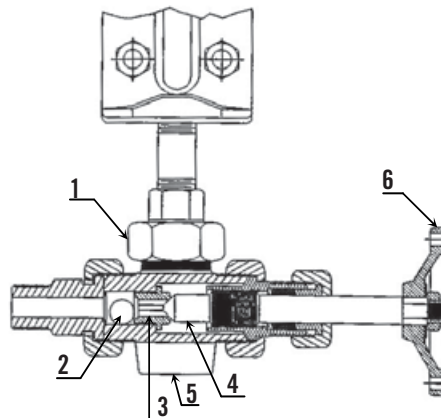
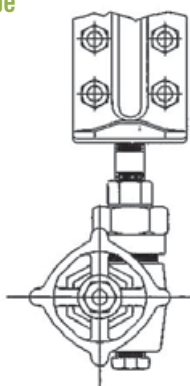
- (1) Body
- (2) Flange
- (3) Ball
- (4) Plug stem
- (5) Packing
- (6) Handle wheel

Jacket Type Valve



- (1) Body
- (2) Flange
- (3) Ball
- (4) Plug stem
- (5) Packing
- (6) Handle wheel
- (7) Jacket tube

Offset Valve Type



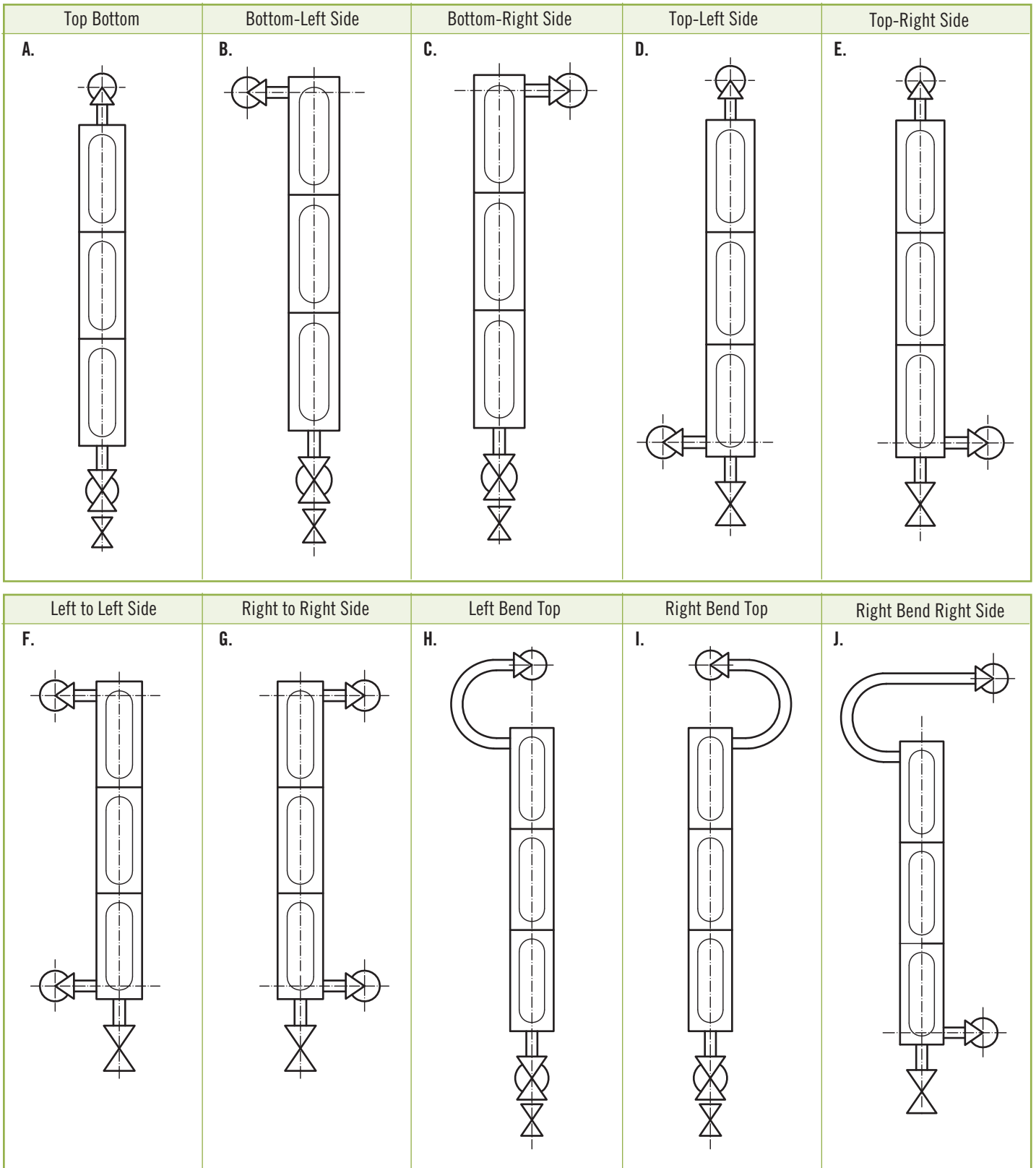
- (1) Unit-Nut
- (2) Ball Check
- (3) Seat
- (4) Stem
- (5) 1/2" NPT
- (6) Handle Wheel

The steps of turning on the ball check gauge valve

- Step 1:** Fasten the valve of level gauge securely, and adjust the handle wheel by rotating clockwise to close the gauge valve seat. Then, install the level gauge on the vessel (tank).
- Step 2:** Confirm the Vessel or Tank has filled the liquid, and adjust the gauge valve slowly in a "semicircle" by counter clockwise. This act is for avoiding the fast flowing of fluid makes the ball moves and obstructs the entrance of valve, it will cause the fluid is unable to influx into the body of level gauge.
- Step 3:** Confirm the gauge valve has been adjusted slowly in a semicircle by counter clockwise. When the fluid passed through the valve, the liquid on glass gauge will ascend slowly to the level position which is the same with the level of vessel or tank. Turn on the valve completely when the fluid is stable.

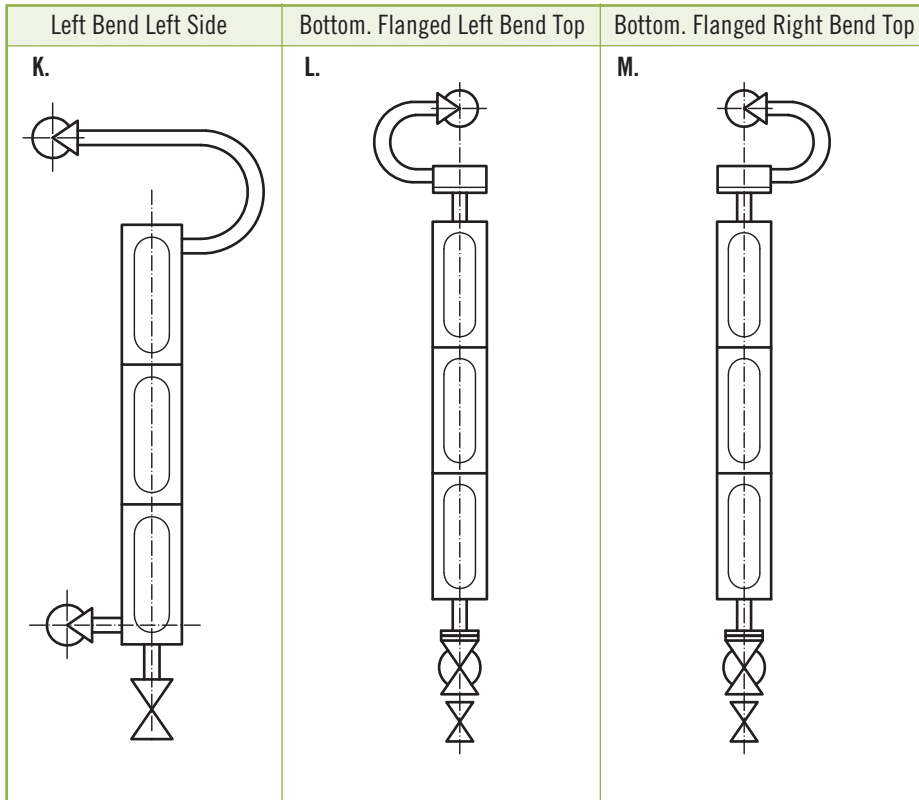
INSTALLATION

Installed Methods

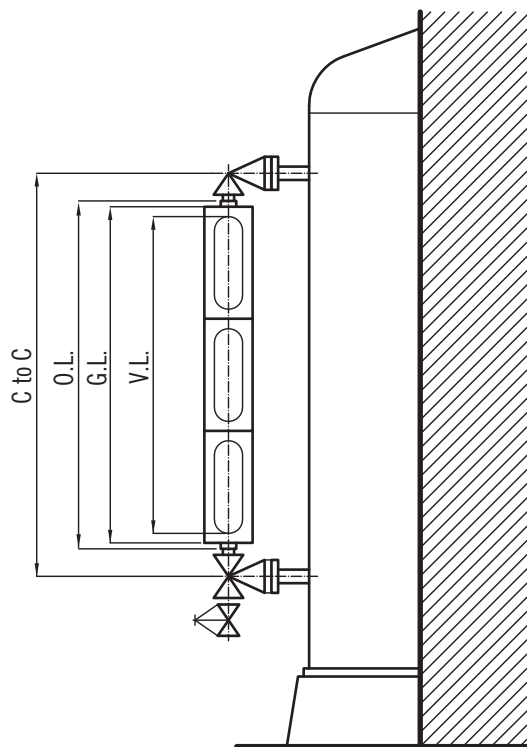


INSTALLATION

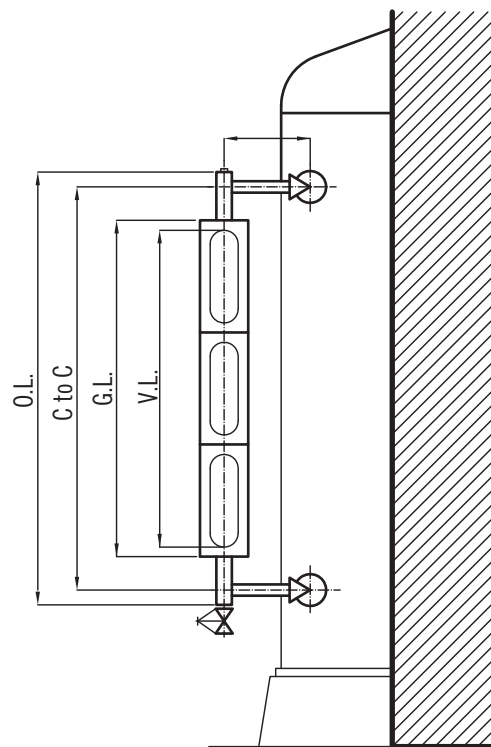
Installed Methods



Sample Hook-Up Drawing



Top-Bottom Hook-Up



Right to Right Side Hook-Up