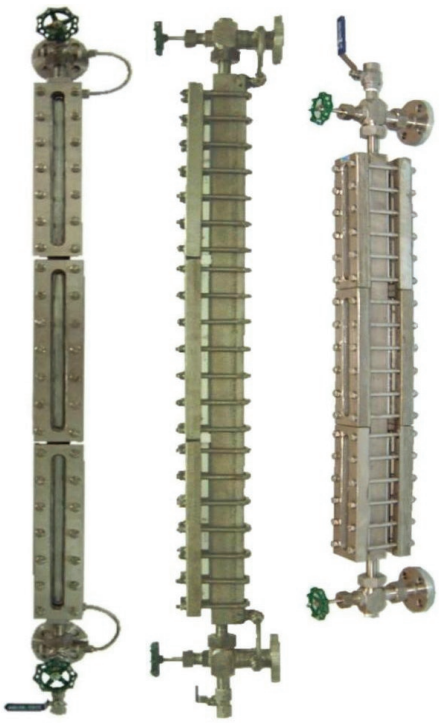
# LIQUID LEVEL GAUGE

## R Series – *Reflex Type* T Series – *Transparent Type* B Series – *Large Chamber Type*



NEW-FLOW glass level gauge are designed in wide range including R series, T series and B series. Which meet various pressure, temperature for application by customer.

### *Feature*

- High Quality
- Low Cost
- Material: Carbon steel, SS304, SS316 are available
- The special materials are available by requrested

### *Valve Type*



*Standard Type Valve*

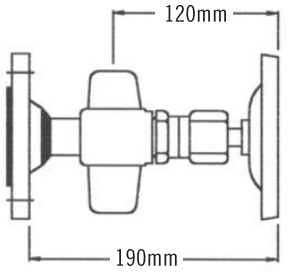


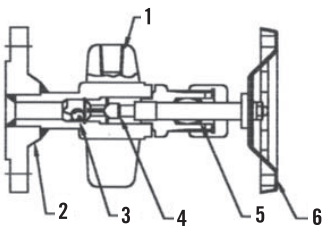
*Jacket Type Valve*



*Offset Type Valve*

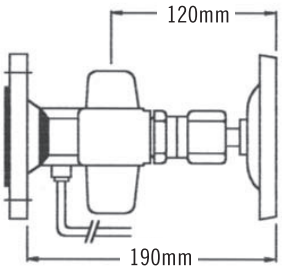
**Standard Type**

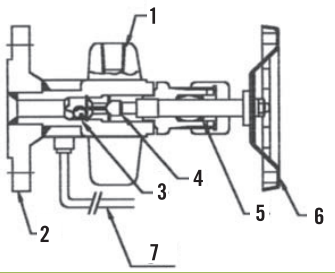



(1) Body
(2) Flange
(3) Ball
(4) Plug stem
(5) Packing
(6) Handle wheel

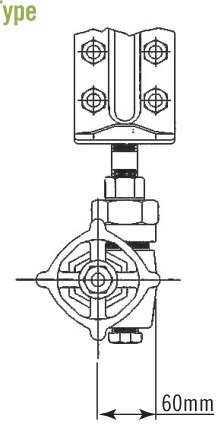
**Jacket Type Valve**

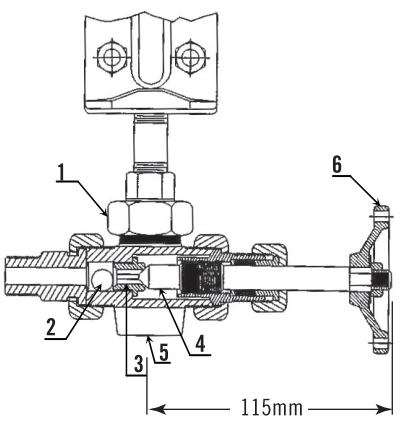



(1) Body
(2) Flange
(3) Ball
(4) Plug stem
(5) Packing
(6) Handle wheel
(7) Jacket tube

**Offset Valve Type**

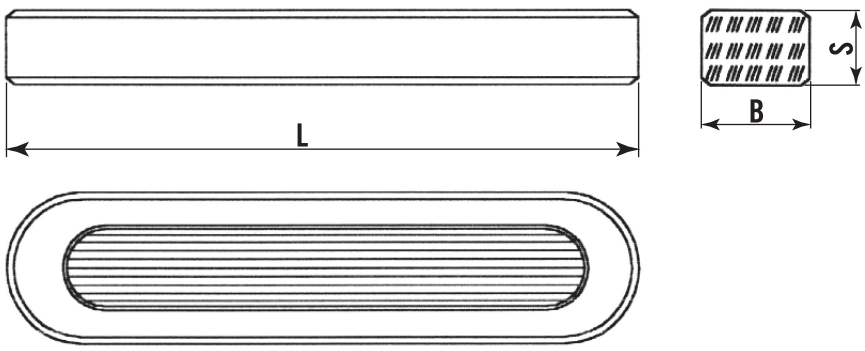



(1) Unit-Nut
(2) Ball Check
(3) Seat
(4) Stem
(5) ½"NPT
(6) Handle Wheel

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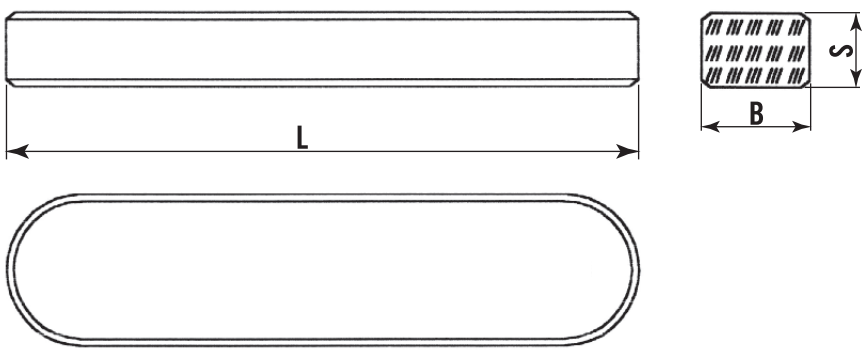
## Glass for Reflex type




### Dimensions-mm

| Size | L | B | S |
|---|---|---|---|
| 1 | 190 | 34 | 17 |
| 2 | 220 | 34 | 17 |
| 3 | 250 | 34 | 17 |
| 4 | 280 | 34 | 17 |
| 5 | 300 | 34 | 17 |
| 6 | 320 | 34 | 17 |
| 7 | 340 | 34 | 17 |
| 8 | 400 | 34 | 17 |

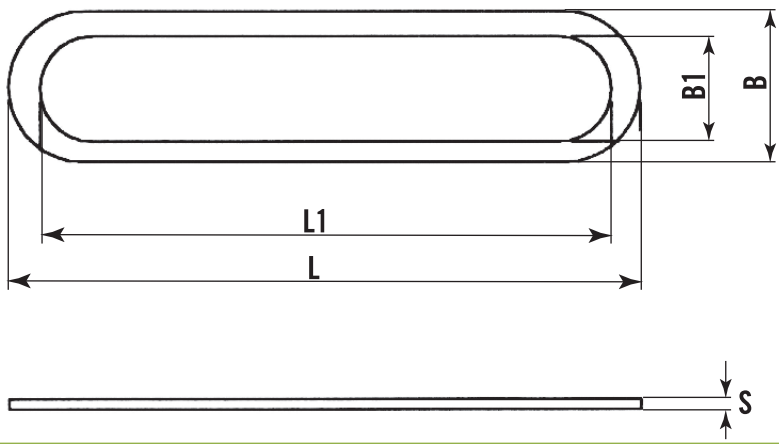
## Glass for Transparent type




### Dimensions-mm

| Size | L | B | S |
|---|---|---|---|
| 1 | 190 | 34 | 17 |
| 2 | 220 | 34 | 17 |
| 3 | 250 | 34 | 17 |
| 4 | 280 | 34 | 17 |
| 5 | 300 | 34 | 17 |
| 6 | 320 | 34 | 17 |
| 7 | 340 | 34 | 17 |
| 8 | 400 | 34 | 17 |

## Sealing Gasket

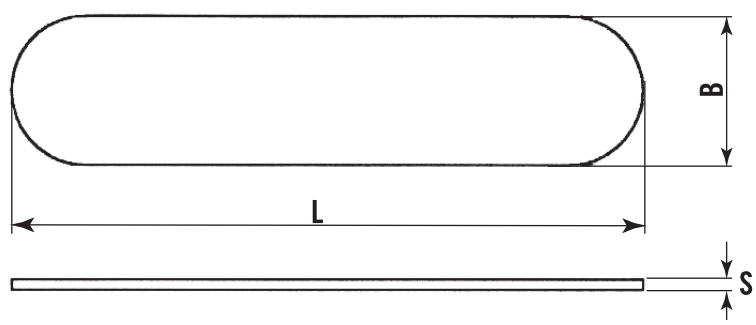



### Dimensions-mm

| Size | L | B | S |
|---|---|---|---|
| 1 | 190 | 34 | 17 |
| 2 | 220 | 34 | 17 |
| 3 | 250 | 34 | 17 |
| 4 | 280 | 34 | 17 |
| 5 | 300 | 34 | 17 |
| 6 | 320 | 34 | 17 |
| 7 | 340 | 34 | 17 |
| 8 | 400 | 34 | 17 |

S=1.3~1.8

## Mica Shields



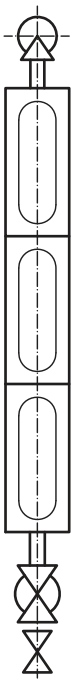
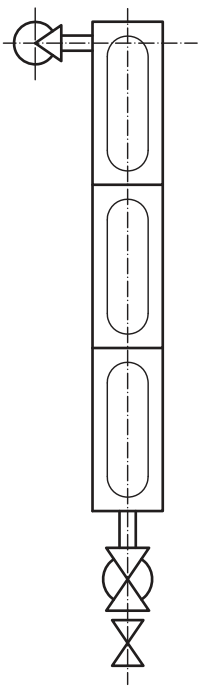
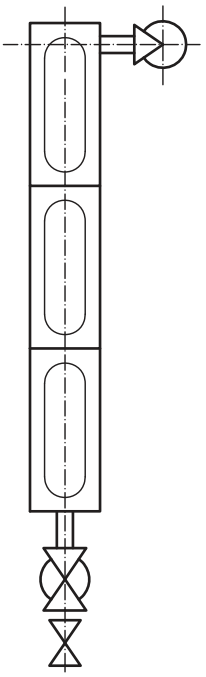
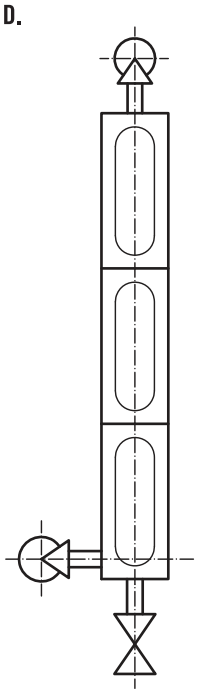
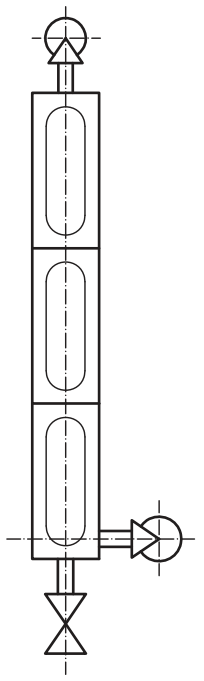

### Dimensions-mm

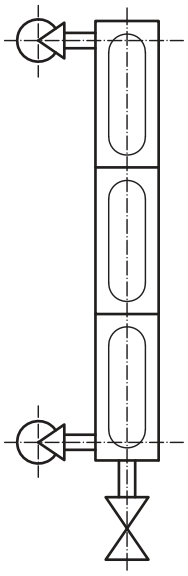
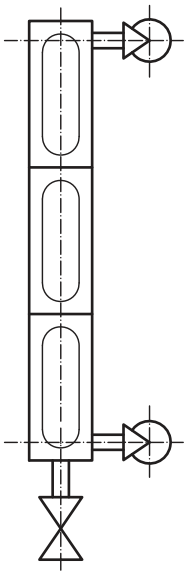
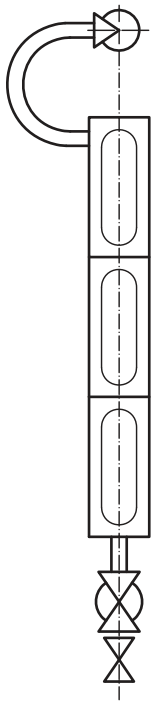
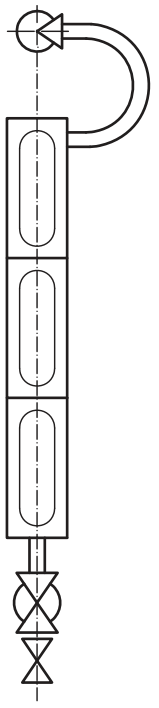
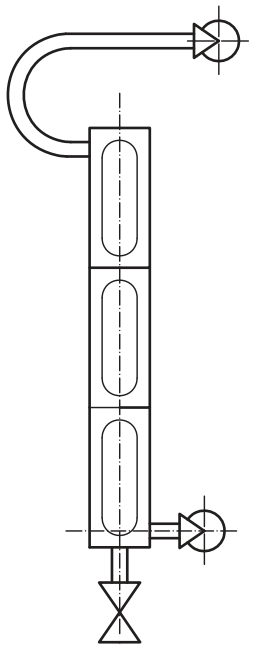
| Size | L | B | S |
|---|---|---|---|
| 1 | 190 | 34 | 17 |
| 2 | 220 | 34 | 17 |
| 3 | 250 | 34 | 17 |
| 4 | 280 | 34 | 17 |
| 5 | 300 | 34 | 17 |
| 6 | 320 | 34 | 17 |
| 7 | 340 | 34 | 17 |
| 8 | 400 | 34 | 17 |

S=0.15~0.20

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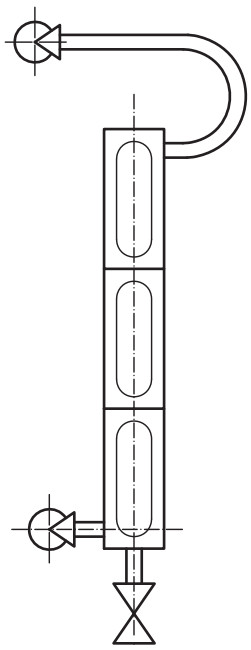
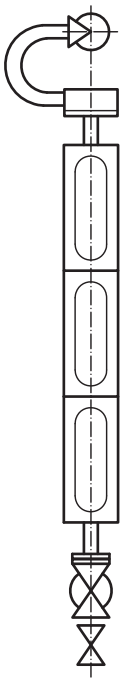
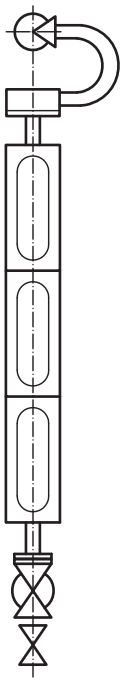
## Installed Methods- Process Connection

| Top Bottom | Bottom-Left Side | Bottom-Right Side | Top-Left Side | Top-Right Side |
|---|---|---|---|---|
| A.  | B.  | C.  | D.  | E.  |

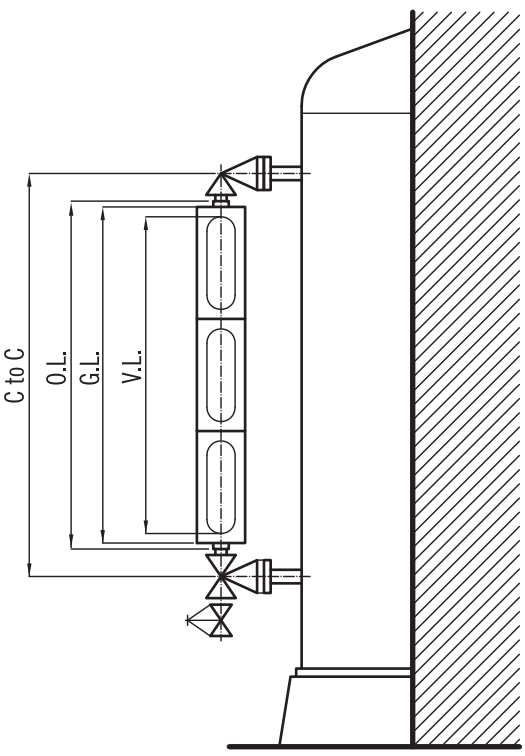
| Left to Left Side | Right to Right Side | Left Bend Top | Right Bend Top | Right Bend Right Side |
|---|---|---|---|---|
| F.  | G.  | H.  | I.  | J.  |

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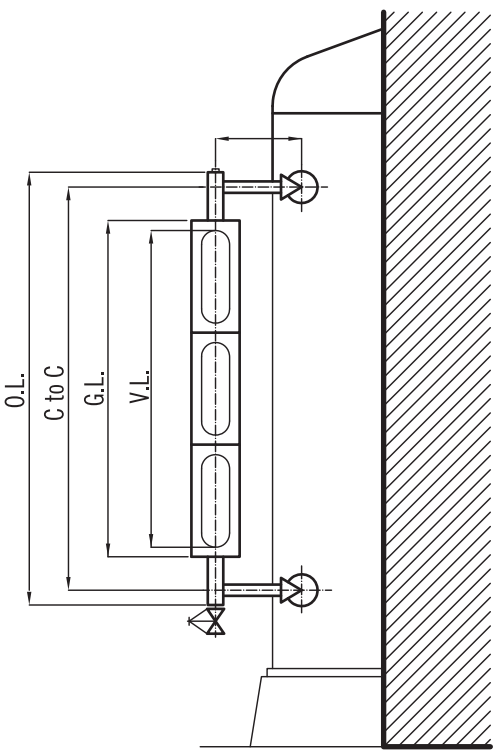
## Installed Methods- Process Connection

| Left Bend Left Side | Bottom. Flanged Left Bend Top | Bottom. Flanged Right Bend Top |
|---|---|---|
| K.  | L.  | M.  |

## Sample Hook-Up Drawing




*Top-Bottom Hook-Up*




*Right to Right Side Hook-Up*

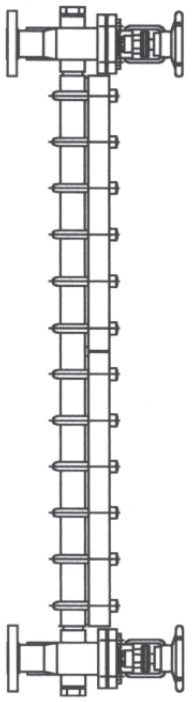
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## • R Series – Reflex Type Liquid Level Gauge

The Reflex type level gauge is constructed by a solid one-piece chamber made from bar stack with ductile steel covers, hard glass, steel bolts and nuts. The material are available with carbon steel, SS304, SS316 and SS316L. The special material are available by requested. The level gauge provide from one up to five section. As the reflex level gauge is used, liquid section appears black color and steam or gas section appears with white color.
The R Series level gauge is designed to suit for the euipment in the chemical plant. Power plant and other industries to measure the liquid levle. NEW-FLOW provides - R (standard type), RJ (jacket type) and RN (Non-frosting type) for customer to application by requested.

## Technical Data

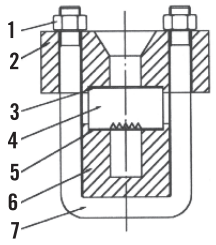
**Center to Center length:** By customer requested
**Connection Vessel:** ½" or ¼" female or male
**Process Rating:** Thread or Flange end available
**Covers:** Ductile, SS304 and SS316 are available by requested
**Sight Glass:** Borosilicate glass
**Gasket:** High quality material are made by requested
**U-Bolt and Nuts:** Alloy ateel, SS304 and SS316 are available



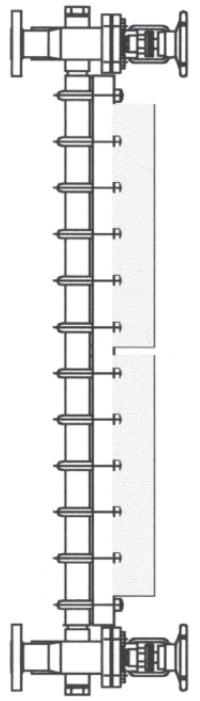
### Model: R
### Standard Type

- **Temperature Range:** 2°C ~ 280°C
- **Pressure Range:** up to 40 kg/cm² (standard); optoin up to 70 kg/cm² 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. Packing
4. Gauge Glass
5. Packing
6. Body
7. U-bolt

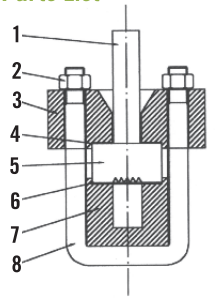


### Model: RN
### Non-Frosting Type

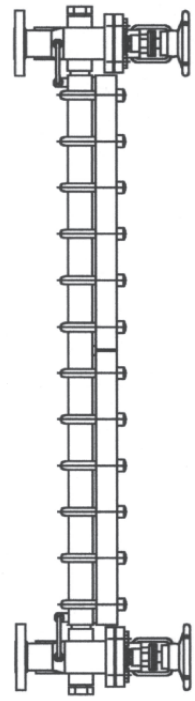
Using in low temperature application to prevent the frost build up does not obscure reading of the liquid level.

- **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

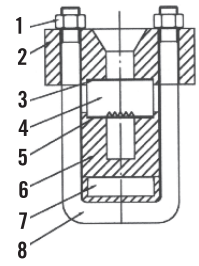


### Model: RJ
### Jacket Type

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 dearly.

- **Temperature Range:** 2°C ~ 280°C
- **Pressure Range:** up to 40 kg/cm² (standard); optoin up to 70 kg/cm² available.

*Parts List*

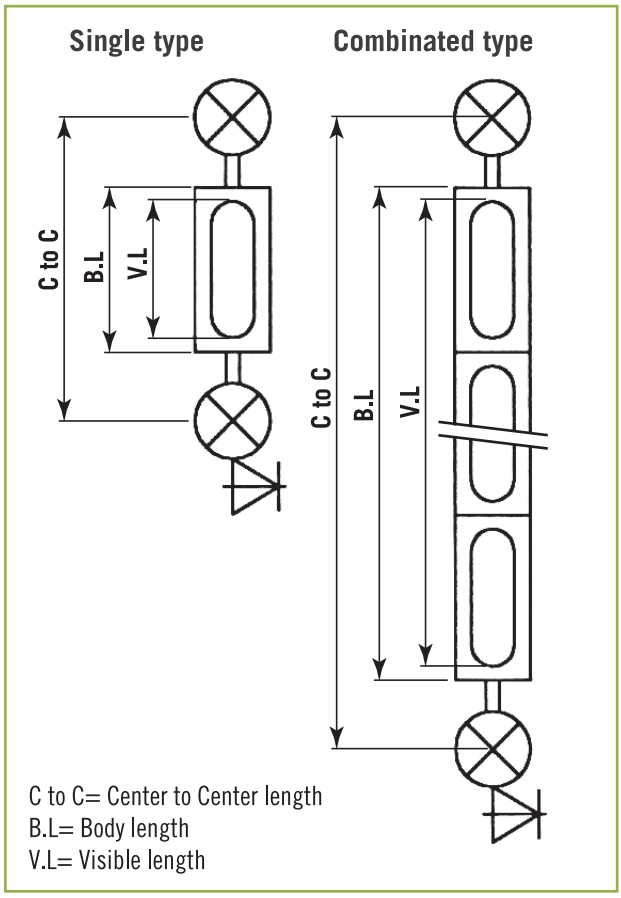



1. Nut for U-bolt
2. Cover
3. Packing
4. Gauge Glass
5. Packing
6. Body
7. Jacket
8. U-bolt

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## • R Series – Reflex Type Liquid Level Gauge

### Installation Mode




C to C= Center to Center length
B.L= Body length
V.L= Visible length

### Ordering Information

| LG | Code | Model |
|---|---|---|
| | R | Standard type |
| | RN | Non-Frosting type |
| | RJ | Jacket type |

| Code | Connection Size |
|---|---|
| | **(1)** ½" **(2)** ¾" **(3)** 1" **(4)** 1½" **(5)** 2" |

| Code | Connection Rating |
|---|---|
| | **(A)** NPT-M **(B)** ANSI 150# **(C)** ANSI 300# **(D)** PN16 **(E)** PN40 **(F)** option |

| Code | Body Material |
|---|---|
| | **(1)** SS304 **(2)** SS316 **(3)** Carbon steel **(4)** option |

| Code | Gauge Valve Material |
|---|---|
| | **(1)** SS304 **(2)** SS316 **(3)** Carbon steel **(4)** option |

| Code | Valve Type |
|---|---|
| | **(A)** Standard type **(B)** Offset type **(C)** Jacket type **(D)** option **(E)** without |

| Code | Gasket Material |
|---|---|
| | **(1)** Asbestos **(2)** Non-Asbestos **(3)** Teflon **(4)** option |

| Code | The Function of Gauge Valve |
|---|---|
| | **(A)** With ball check **(B)** Without ball check |

| Code | Center to Center length (C to C) |
|---|---|
| | Please directly fill out the length you required |

| Code | Process Connection Methods |
|---|---|
| | Please refer to the table of Installed Methods and fill out the code (A.~M.) of your request. |

| LG | | | | | | | | | | | Complete Ordering Code |
|---|---|---|---|---|---|---|---|---|---|---|---|

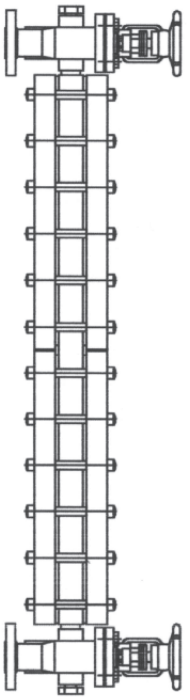
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## • T Series – Transparent Type Liquid Level Gauge

The Transparent type level gauge is constructed by a solid one-piece chamber made from bar stack with ductile steel covers, hard glass, steel bolts and nuts. The material are available with carbon steel, SS304, SS316 and SS316L. The special material are available by requested. The level gauge provide from one up to five section. As the transparent level gauge is used, liquid section appears black color and steam or gas section appears with white color.
The T Series level gauge is designed to suit for the euipment in the chemical plant. Power plant and other industries to measure the liquid levle. NEW-FLOW provides - T (standard type), TJ (jacket type) and TN (Non-frosting type) for customer to application by requested.

## Technical Data

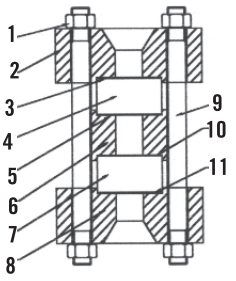
**Center to Center length:** By customer requested
**Connection Vessel:** ½" or ¼" female or male
**Process Rating:** Thread or Flange end available
**Covers:** Ductile, SS304 and SS316 are available by requested
**Sight Glass:** Borosilicate glass
**Gasket:** High quality material are made by requested
**U-Bolt and Nuts:** Alloy ateel, SS304 and SS316 are available



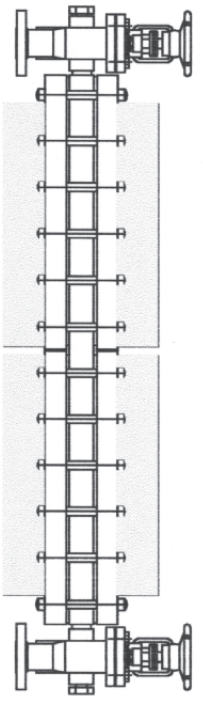
### Model: T
### Standard Type

- **Temperature Range:** 2°C ~ 280°C
- **Pressure Range:** up to 40 kg/cm² (standard); optoin up to 70 kg/cm² 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. Packing
4. Gauge Glass
5. Packing
6. Body
7. Gauge Glass
8. Cover
9. Bolt
10. Packing
11. Packing

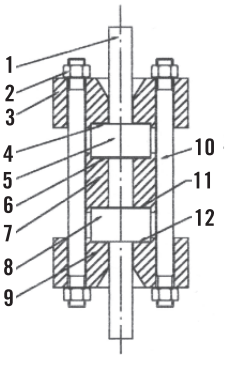


### Model: TN
### Non-Frosting Type

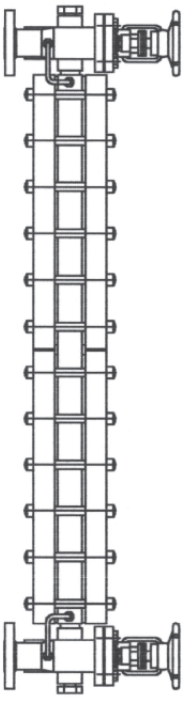
Using in low temperature application to prevent the frost build up does not obscure reading of the liquid level.

- **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. Packing
7. Body
8. Gauge Glass
9. Cover
10. U-bolt
11. Packing
12. Packing

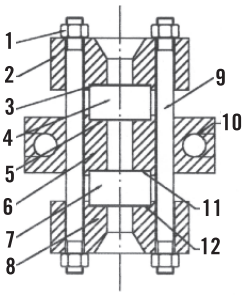


### Model: TJ
### Jacket Type

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 dearly.

- **Temperature Range:** -10°C ~ 280°C
- **Pressure Range:** up to 40 kg/cm² (standard); optoin up to 70 kg/cm² available.

*Parts List*

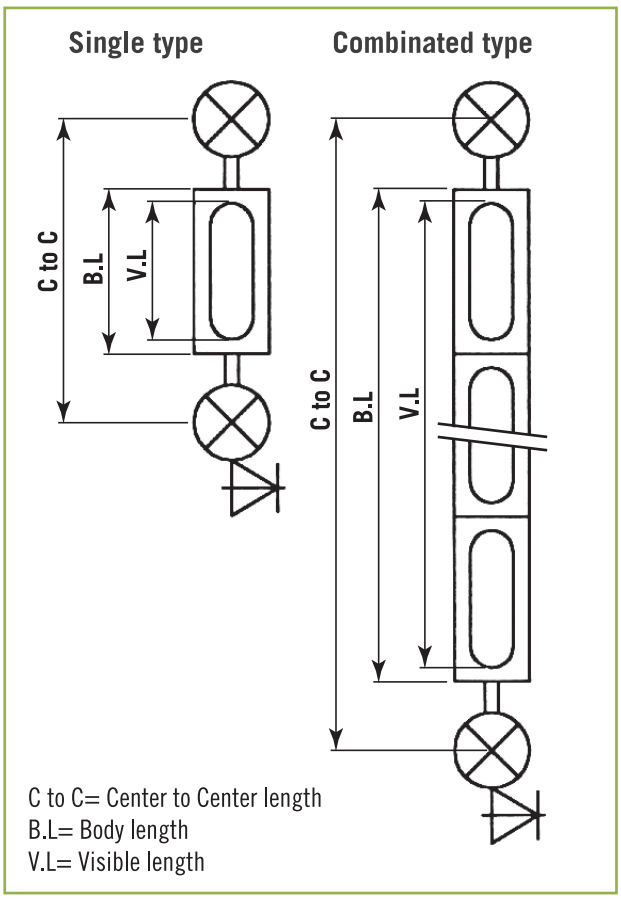



1. Nut for U-bolt
2. Cover
3. Packing
4. Gauge Glass
5. Packing
6. Body
7. Gauge Glass
8. Cover
9. Bolt
10. Jacket Pipe
11. Packing
12. Packing

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## • T Series – Transparent Type Liquid Level Gauge

### Installation Mode




C to C= Center to Center length
B.L= Body length
V.L= Visible length

### Ordering Information

| LG | Code | Model |
|---|---|---|
| | T | Standard type |
| | TN | Non-Frosting type |
| | TJ | Jacket type |

| Code | Connection Size |
|---|---|
| | **(1)** ½" **(2)** ¾" **(3)** 1" **(4)** 1½" **(5)** 2" |

| Code | Connection Rating |
|---|---|
| | **(A)** NPT-M **(B)** ANSI 150# **(C)** ANSI 300# **(D)** PN16 **(E)** PN40 **(F)** option |

| Code | Body Material |
|---|---|
| | **(1)** SS304 **(2)** SS316 **(3)** Carbon steel **(4)** option |

| Code | Gauge Valve Material |
|---|---|
| | **(1)** SS304 **(2)** SS316 **(3)** Carbon steel **(4)** option |

| Code | Valve Type |
|---|---|
| | **(A)** Standard type **(B)** Offset type **(C)** Jacket type **(D)** option **(E)** without |

| Code | Gasket Material |
|---|---|
| | **(1)** Asbestos **(2)** Non-Asbestos **(3)** Teflon **(4)** option |

| Code | The Function of Gauge Valve |
|---|---|
| | **(A)** With ball check **(B)** Without ball check |

| Code | Center to Center length (C to C) |
|---|---|
| | Please directly fill out the length you required |

| Code | Process Connection Methods |
|---|---|
| | Please refer to the table of Installed Methods and fill out the code (A.~M.) of your request. |

| LG | | | | | | | | | | | Complete Ordering Code |
|---|---|---|---|---|---|---|---|---|---|---|---|

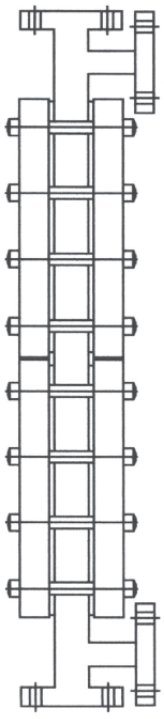
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## • B Series – Large Chamber Type Liquid Level Gauge

The Large Chamber level gauge is constructed by a big chamber made with ductile steel covers, hard glass, steel bolts and nuts. The large chamber type level gauge is specifically designed to provide an easy observation for the level of viscose liquid and provide an easy flushing to vessel of the level gauge when it's on requested.
The B series can provide end connection up to 2" thread or flange, accourding to the specification of JIS, ANSI, DIN all materials in the B series are available with carbon steel, SS304, SS316 and SS316L. The special materials are available by requested.

## Technical Data

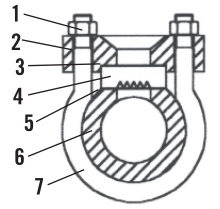
**Center to Center length:** By customer requested
**Connection Vessel:** Up to 2" pipe size
**Process Rating:** Thread or Flange end available
**Covers:** Ductile, SS304 and SS316 are available by requested
**Sight Glass:** Borosilicate glass
**Gasket:** High quality material are made by requested
**U-Bolt and Nuts:** Alloy ateel, SS304 and SS316 are available



### Model: BR, Standard Type

- **Temperature Range:** 2°C ~ 300°C
- **Pressure Range:** up to 40 kg/cm² (standard); optoin up to 70 kg/cm² available.
- **Process Connection:** ½" up to 2"

*Parts List*



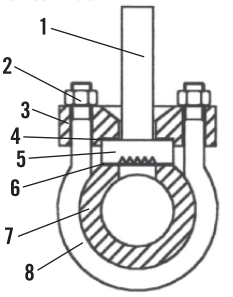

1. Nut for U-bolt
2. Gauge Cover
3. Packing
4. Gauge Glass
5. Packing
6. Body
7. U-bolt

### Model: BRN, Non-Frosting Type

Using in low temperature application toprevent 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*

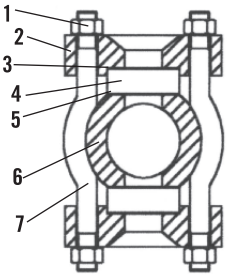



1. Plastic Extension Plate
2. Nut for U-bolt
3. Gauge Cover
4. Gasket
5. Gauge Glass
6. Gasket
7. Gauge Body
8. U-bolt

### Model: BT, Standard Type

- **Temperature Range:** 2°C ~ 300°C
- **Pressure Range:** up to 40 kg/cm² (standard); optoin up to 70 kg/cm² available.
- **Process Connection:** ½" up to 2"

*Parts List*

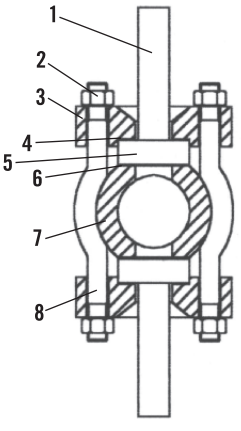



1. Nut for U-bolt
2. Gauge Cover
3. Gasket
4. Gauge Glass
5. Gasket
6. Gauge Body
7. Bolt

### Model: BTN, Non-Frosting Type

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

*Parts List*

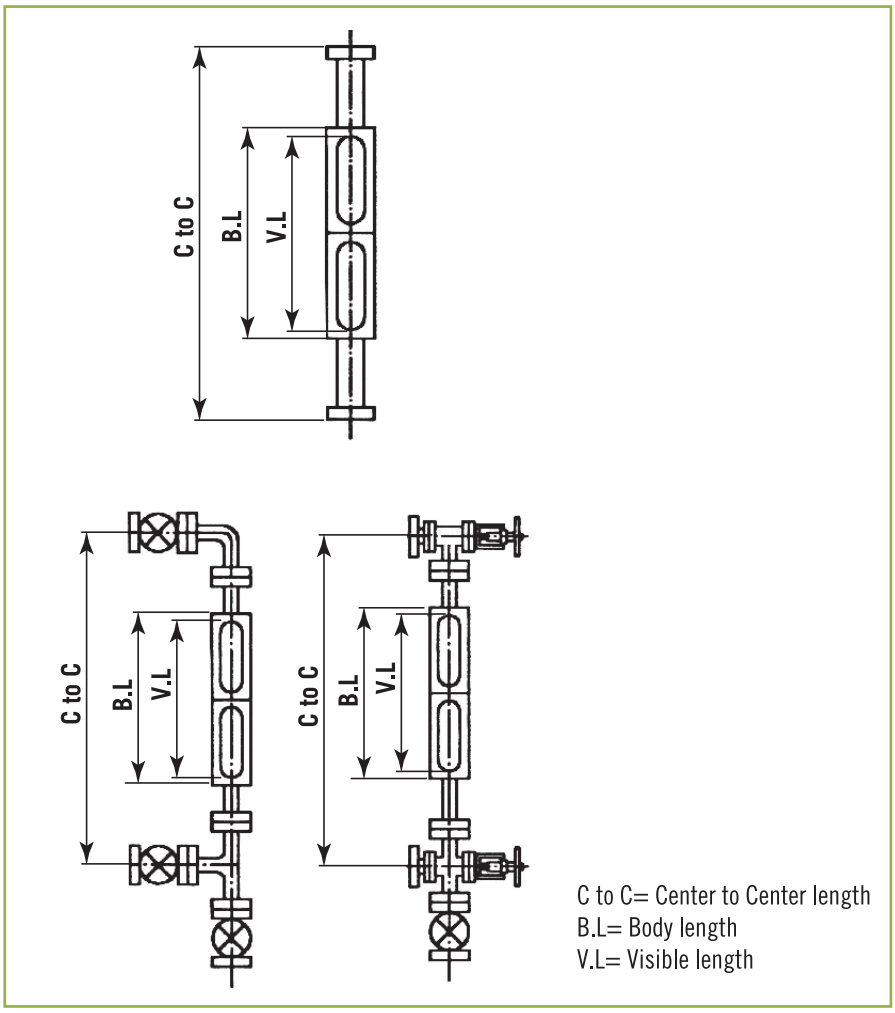



1. Plastic Extension Plate
2. Nut for U-bolt
3. Gauge Cover
4. Gasket
5. Gauge Glass
6. Gasket
7. Gauge Body
8. Bolt

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## • T Series – Transparent Type Liquid Level Gauge

### Installation Mode




C to C= Center to Center length
B.L= Body length
V.L= Visible length

### Ordering Information

| LG | Code | Model |
|---|---|---|
| | BR | Reflex, Standard type |
| | BRN | Relfex, Non-Frosting type |
| | BT | Transparent, Standard type |
| | BTN | Transparent, Non-Frosting type |

| Code | Connection Size |
|---|---|
| | (1) ½" ANSI 150# (2) ¾" ANSI 150# (3) 1" ANSI 150# (4) 1" JIS 10K (5) Option |

| Code | Body Material |
|---|---|
| | (1) SS304 (2) SS316 (3) Carbon steel (4) option |

| Code | Gauge Valve Material |
|---|---|
| | (1) SS304 (2) SS316 (3) Carbon steel (4) option |

| Code | Valve Type |
|---|---|
| | (A) Ball valve (B) Glove valve (C) option (D) Without |

| Code | Gasket Material |
|---|---|
| | (1) Asbestos (2) Non-Asbestos (3) Teflon (4) option |

| Code | Center to Center length (C to C) |
|---|---|
| | Please directly fill out the length you required |

| LG | | | | | | | | Complete Ordering Code |
|---|---|---|---|---|---|---|---|---|

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