



(Photo is UT Ball Joint with a spray nozzle)



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### [Features]

- Allows adjustment of the spray direction over a range of 50 degrees as desired.

### Metal Ball Joints

- Accurate nozzle alignment is possible after connecting to a pipe.
- Available from 1/8" to 3/4" in pipe connection size.
- Stainless steel UT series is designed to withstand high pressure up to 15 MPa.

### Plastic Ball Joints

- Spray direction is adjustable while spraying at a pressure up to 0.3 MPa.
- No O-ring. Easy installation by hand without tools.
- Lightweight, only half the weight of the metal ball joint.
- Low price due to injection-molded construction.

## UT series (metal)

| Metal UT series |  |
|-----------------|--|
| Material        | <ul style="list-style-type: none"> <li>• S303 or B (brass)</li> <li>• Optional material: S316 or others</li> </ul> |

Male thread inlet

Female thread inlet

①Ball ②O-ring (NBR) ③Cap ④Adaptor

H1, H2 = width across flats

| Ball joint code<br>(Inlet x Outlet) | Inlet pipe<br>conn. size | Outlet pipe<br>conn. size | Dimensions (mm) |    |    | Mass (g) |     |
|-------------------------------------|--------------------------|---------------------------|-----------------|----|----|----------|-----|
|                                     |                          |                           | L               | H1 | H2 | S303     | B   |
| UT 1/8M x 1/8F                      | R1/8                     | Rc1/8                     | 32.5            | 22 | 21 | 56       | 60  |
| UT 1/4M x 1/8F                      | R1/4                     | Rc1/8                     | 36.0            | 22 | 21 | 60       | 65  |
| UT 1/4M x 1/4F                      | R1/4                     | Rc1/4                     | 39.5            | 29 | 24 | 100      | 110 |
| UT 3/8M x 1/4F                      | R3/8                     | Rc1/4                     | 40.0            | 29 | 24 | 110      | 115 |
| UT 3/8M x 3/8F                      | R3/8                     | Rc3/8                     | 47.5            | 35 | 30 | 190      | 205 |
| UT 1/2M x 1/2F                      | R1/2                     | Rc1/2                     | 54.5            | 41 | 41 | 325      | 350 |
| UT 3/4M x 3/4F                      | R3/4                     | Rc3/4                     | 61.5            | 50 | 46 | 490      | 525 |
| UT 1/8F x 1/8F                      | Rc1/8                    | Rc1/8                     | 28.5            | 22 | 21 | 63       | 69  |
| UT 1/4F x 1/8F                      | Rc1/4                    | Rc1/8                     | 28.5            | 22 | 21 | 58       | 63  |
| UT 1/4F x 1/4F                      | Rc1/4                    | Rc1/4                     | 33.5            | 29 | 24 | 110      | 120 |
| UT 3/8F x 1/4F                      | Rc3/8                    | Rc1/4                     | 33.5            | 29 | 24 | 100      | 110 |
| UT 3/8F x 3/8F                      | Rc3/8                    | Rc3/8                     | 44.5            | 35 | 30 | 220      | 235 |
| UT 1/2F x 1/2F                      | Rc1/2                    | Rc1/2                     | 48.5            | 41 | 41 | 375      | 405 |
| UT 3/4F x 3/4F                      | Rc3/4                    | Rc3/4                     | 55.5            | 50 | 46 | 560      | 600 |

## UT series (plastic)

| Plastic UT series |   |
|-------------------|---|
| Material          | <ul style="list-style-type: none"> <li>• Adaptor and Cap: FRPP</li> <li>• Ball: FRPP + PP + EPDM</li> </ul> |

①Ball ②Cap ③Adaptor

H = width across flats

| Ball joint code<br>(Inlet x Outlet) | Inlet pipe<br>conn. size | Outlet pipe<br>conn. size | Dimensions (mm) |    |    | Mass<br>(g) |
|-------------------------------------|--------------------------|---------------------------|-----------------|----|----|-------------|
|                                     |                          |                           | L               | H  | øD |             |
| UT 1/8M x 1/8F                      | R1/8                     | Rc1/8                     | 38.0            | 21 | 32 | 12          |
| UT 1/4M x 1/8F                      | R1/4                     | Rc1/8                     | 40.0            | 21 | 32 | 13          |
| UT 1/4M x 1/4F                      | R1/4                     | Rc1/4                     | 40.0            | 21 | 32 | 12          |
| UT 3/8M x 1/8F                      | R3/8                     | Rc1/8                     | 41.0            | 21 | 32 | 13          |
| UT 3/8M x 1/4F                      | R3/8                     | Rc1/4                     | 41.0            | 21 | 32 | 12          |

### How to order

Please inquire or order for a specific metal ball joint using this coding system.

<Example> UT 1/8M x 1/8F S303

|   |   |   |  |      |
|---|---|---|--|------|
| UT  | 1/8M  | x | 1/8F   | S303 |
| Inlet pipe connection size*   | Outlet pipe connection size*  |   | Material   |      |
| <input type="checkbox"/> 1/8M <input type="checkbox"/> 1/4M <input type="checkbox"/> 3/8M <input type="checkbox"/> 1/2M <input type="checkbox"/> 3/4M | <input type="checkbox"/> 1/8F <input type="checkbox"/> 1/4F <input type="checkbox"/> 3/8F <input type="checkbox"/> 1/2F <input type="checkbox"/> 3/4F |   | <input type="checkbox"/> S303 <input type="checkbox"/> B |      |

\*"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 1/8M = R1/8, 1/8F = Rc1/8.

### How to order

Please inquire or order for a specific plastic ball joint using this coding system.

<Example> UT 1/8M x 1/8F FRPP-IN

|   |   |   |      |         |
|---|---|---|------|---------|
| UT  | 1/8M  | x | 1/8F | FRPP-IN |
| Inlet pipe connection size*   | Outlet pipe connection size*                                |   |      |         |
| <input type="checkbox"/> 1/8M <input type="checkbox"/> 1/4M <input type="checkbox"/> 3/8M | <input type="checkbox"/> 1/8F <input type="checkbox"/> 1/4F |   |      |         |

\*"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 1/8M = R1/8, 1/8F = Rc1/8.



**Metal UT** Use UT-S303 at pressure **under 15 MPa**, UT-B (brass) **under 4 MPa**.

**Plastic UT** Use UT-FRPP at pressure **under 1 MPa** (at room temperature).

[Note] 1. Do not use under conditions where water hammer or sudden change of water pressure occurs.  
2. For use with KB and KKBP series nozzles, different type of UT Ball Joints are required. Contact us for details.