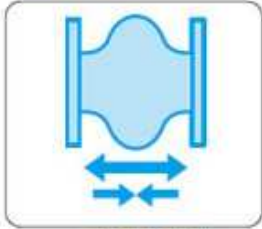


RUBBER EXPANSION JOINT

RUBBER EXPANSION JOINT is superior to the metal joint in these features.

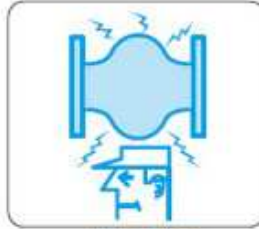
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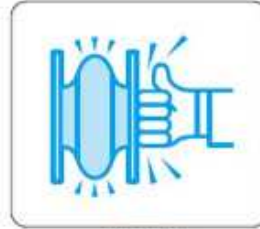
Excellent in flexibility and restorability



Excellent in chemical resistance



Reduces vibration and noise greatly



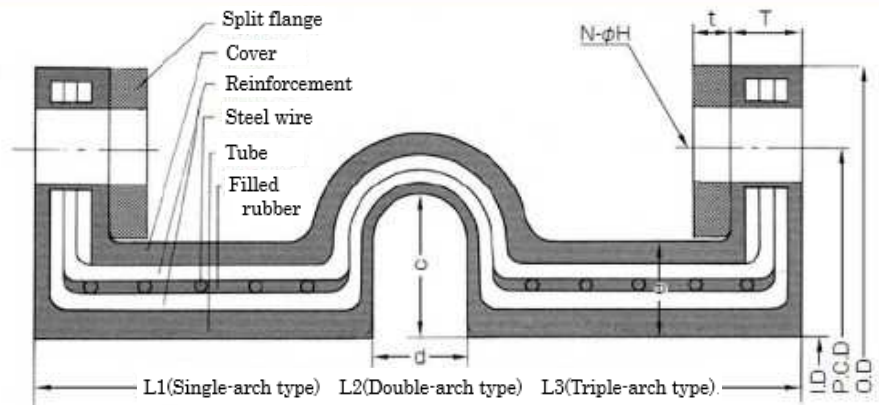
Excellent in pressure resistance



Light and easy to handle

<Construction>

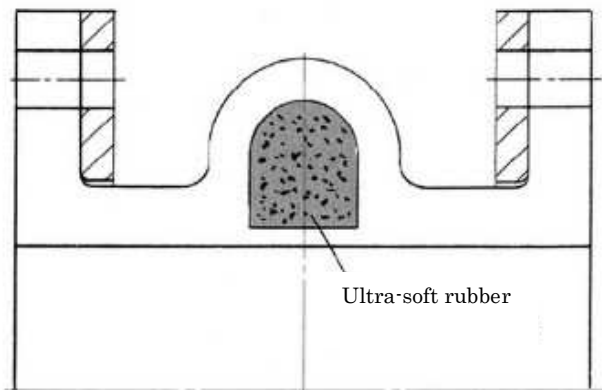
- JIS 10K
- Flange type
- (Standard type)



| Nominal Size | ID (mm) | O.D (mm) | P.C.D (mm) | N | φ H (mm) | t (mm) | T (mm) | c (mm) | d (mm) | e (mm) | Max Working Pressure (MPa) |
|--------------|---------|----------|------------|----|----------|--------|--------|--------|--------|--------|----------------------------|
| 50 | 51 | 155 | 120 | 4 | 19 | 6 | 13 | 24 | 14 | 16 | 1.0 |
| 65 | 64 | 175 | 140 | 4 | 19 | 6 | 13 | 24 | 14 | 16 | 1.0 |
| 80 | 76 | 185 | 150 | 8 | 19 | 6 | 13 | 24 | 14 | 16 | 1.0 |
| 100 | 102 | 210 | 175 | 8 | 19 | 6 | 13 | 24 | 14 | 16 | 0.9 |
| 125 | 127 | 250 | 210 | 8 | 23 | 6 | 13 | 24 | 14 | 16 | 0.8 |
| 150 | 152 | 280 | 240 | 8 | 23 | 9 | 17 | 36 | 20 | 20 | 0.8 |
| 175 | 178 | 305 | 265 | 12 | 23 | 9 | 17 | 36 | 20 | 20 | 0.7 |
| 200 | 203 | 330 | 290 | 12 | 23 | 9 | 17 | 36 | 20 | 20 | 0.7 |
| 225 | 225 | 350 | 310 | 12 | 23 | 9 | 17 | 36 | 20 | 20 | 0.6 |
| 250 | 253 | 400 | 355 | 12 | 25 | 9 | 17 | 36 | 20 | 20 | 0.6 |
| 300 | 303 | 445 | 400 | 16 | 25 | 9 | 20 | 44 | 22 | 21 | 0.6 |
| 350 | 355 | 490 | 445 | 16 | 25 | 9 | 20 | 44 | 22 | 21 | 0.4 |
| 400 | 405 | 560 | 510 | 16 | 27 | 12 | 22 | 44 | 22 | 24 | 0.4 |
| 450 | 450 | 620 | 565 | 20 | 27 | 12 | 22 | 44 | 22 | 24 | 0.4 |
| 500 | 500 | 675 | 620 | 20 | 27 | 12 | 22 | 44 | 22 | 27 | 0.4 |
| 550 | 550 | 745 | 680 | 20 | 33 | 15 | 26 | 52 | 26 | 33 | 0.35 |
| 600 | 600 | 795 | 730 | 24 | 33 | 15 | 26 | 52 | 26 | 33 | 0.35 |
| 650 | 650 | 845 | 780 | 24 | 33 | 15 | 26 | 52 | 26 | 35 | 0.35 |
| 700 | 700 | 905 | 840 | 24 | 33 | 15 | 26 | 52 | 26 | 35 | 0.3 |
| 750 | 750 | 970 | 900 | 24 | 33 | 15 | 26 | 52 | 26 | 35 | 0.3 |
| 800 | 800 | 1,020 | 950 | 28 | 33 | 15 | 26 | 52 | 26 | 35 | 0.3 |
| 850 | 850 | 1,070 | 1,000 | 28 | 33 | 15 | 26 | 52 | 26 | 35 | 0.25 |
| 900 | 900 | 1,120 | 1,050 | 28 | 33 | 15 | 26 | 52 | 26 | 35 | 0.25 |
| 1000 | 1,000 | 1,235 | 1,160 | 28 | 39 | 15 | 26 | 52 | 26 | 35 | 0.25 |
| 1200 | 1,200 | 1,465 | 1,380 | 32 | 39 | 19 | 30 | 60 | 30 | 40 | 0.25 |
| 1350 | 1,350 | 1,630 | 1,540 | 36 | 45 | 19 | 30 | 60 | 30 | 40 | 0.15 |
| 1500 | 1,500 | 1,795 | 1,700 | 40 | 45 | 19 | 30 | 60 | 30 | 40 | 0.15 |

■ Solid retention preventing structure

This structure is capable of preventing to retention solid mixed fluids such as slurry by laying ultra-soft rubber in the arch recessed part. However, the expansion amount changes slightly, please contact us according to the using situation.



※In case of severe use conditions such as high temperature, high pressure or large amount of displacement, a metal ring may be used to reinforce a flange part, and the length of the surface of some sizes becomes slightly longer.

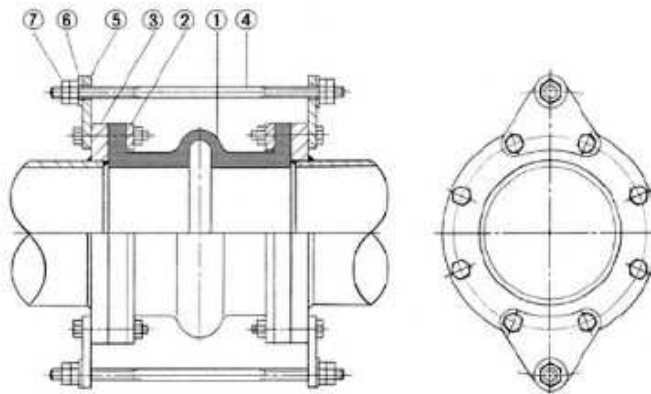
<Fitting>

■ Control units

Standard type

If EXPANSION JOINT is stretched too much during connecting pipes or operating time, it may result in impairing original functions and having a risk of damage.

Control units restrain its unnecessarily stretching, and protect it. We design various types of control units according to shapes (of EXPANSION JOINT affected by piping condition), pressure, eccentricity and so on.



- ①Body ②Split flange ③Companion flange ④Control bolt
⑤Triangular plate ⑥Flat washer ⑦Hexagonal nut

| Nominal Size | Single-arch type | | | | Double-arch type | | | | Triple-arch type | | | |
|--------------|------------------|------------------|----------------|-------------------|------------------|------------------|----------------|-------------------|------------------|------------------|----------------|-------------------|
| | L1 (mm) | Compression (mm) | Extension (mm) | Eccentricity (mm) | L2 (mm) | Compression (mm) | Extension (mm) | Eccentricity (mm) | L3 (mm) | Compression (mm) | Extension (mm) | Eccentricity (mm) |
| 50 | 150 | 12 | 6 | 15 | 250 | 24 | 12 | 30 | 300 | 36 | 18 | 45 |
| 65 | 150 | 12 | 6 | 15 | 250 | 24 | 12 | 30 | 300 | 36 | 18 | 45 |
| 80 | 150 | 12 | 6 | 15 | 250 | 24 | 12 | 30 | 300 | 36 | 18 | 45 |
| 100 | 150 | 12 | 6 | 15 | 250 | 24 | 12 | 30 | 300 | 36 | 18 | 45 |
| 125 | 150 | 12 | 6 | 15 | 250 | 24 | 12 | 30 | 300 | 36 | 18 | 45 |
| 150 | 200 | 18 | 8 | 20 | 300 | 36 | 16 | 40 | 400 | 54 | 24 | 60 |
| 175 | 200 | 18 | 8 | 20 | 300 | 36 | 16 | 40 | 400 | 54 | 24 | 60 |
| 200 | 200 | 18 | 8 | 20 | 300 | 36 | 16 | 40 | 400 | 54 | 24 | 60 |
| 225 | 200 | 18 | 8 | 20 | 300 | 36 | 16 | 40 | 400 | 54 | 24 | 60 |
| 250 | 200 | 18 | 8 | 20 | 300 | 36 | 16 | 40 | 400 | 54 | 24 | 60 |
| 300 | 200 | 20 | 9 | 20 | 300 | 40 | 18 | 40 | 400 | 60 | 27 | 60 |
| 350 | 250 | 20 | 9 | 20 | 400 | 40 | 18 | 40 | 500 | 60 | 27 | 60 |
| 400 | 250 | 20 | 9 | 20 | 400 | 40 | 18 | 40 | 500 | 60 | 27 | 60 |
| 450 | 250 | 20 | 9 | 20 | 400 | 40 | 18 | 40 | 500 | 60 | 27 | 60 |
| 500 | 250 | 20 | 9 | 20 | 400 | 40 | 18 | 40 | 500 | 60 | 27 | 60 |
| 550 | 250 | 24 | 10 | 20 | 400 | 48 | 20 | 40 | 500 | 72 | 30 | 60 |
| 600 | 250 | 24 | 10 | 20 | 400 | 48 | 20 | 40 | 500 | 72 | 30 | 60 |
| 650 | 250 | 24 | 10 | 20 | 400 | 48 | 20 | 40 | 500 | 72 | 30 | 60 |
| 700 | 250 | 24 | 10 | 20 | 400 | 48 | 20 | 40 | 500 | 72 | 30 | 60 |
| 750 | 250 | 24 | 10 | 20 | 400 | 48 | 20 | 40 | 500 | 72 | 30 | 60 |
| 800 | 250 | 24 | 10 | 20 | 400 | 48 | 20 | 40 | 500 | 72 | 30 | 60 |
| 850 | 250 | 24 | 10 | 20 | 400 | 48 | 20 | 40 | 500 | 72 | 30 | 60 |
| 900 | 250 | 24 | 10 | 20 | 400 | 48 | 20 | 40 | 500 | 72 | 30 | 60 |
| 1000 | 250 | 24 | 10 | 20 | 400 | 48 | 20 | 40 | 500 | 72 | 30 | 60 |
| 1200 | 300 | 28 | 12 | 20 | 450 | 56 | 24 | 40 | 600 | 84 | 36 | 60 |
| 1350 | 300 | 28 | 12 | 20 | 450 | 56 | 24 | 40 | 600 | 84 | 36 | 60 |
| 1500 | 300 | 28 | 12 | 20 | 450 | 56 | 24 | 40 | 600 | 84 | 36 | 60 |



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2016E-02c