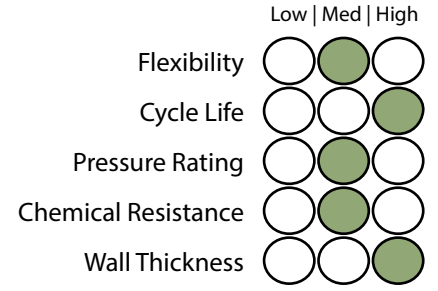




# EXPANSION JOINTS

## Twin Sphere Rubber Expansion Joints (TREJ) Rubber Expansion Joint - TREJ

**Part No.:** TREJ  
**Material:** E (EPDM), BN (BUNA NITRILE), V (VITON), N (NEOPRENE), H (HYPERLON)  
**Food Grade:** White Nitrile (NBR) (Upon Request)  
**Liner:** PTFE, Metallic (Upon Request)  
**Construction:** Smoothbore Sphere  
**Profile:** Medium Flexibility / Medium Pressure  
**Vacuum Ring:** Available on Request **Vacuum Conversion:** 1 Torr / mmHg = 0.13 kPa or 29.88 inHg  
**Size Available:** 1 1/4" - 24" (Larger sizes upon Request)  
**Temperature:** -30°C +105°C



### Construction

**Use:** Rubber expansion joints are designed to alleviate piping stress, absorb pipe misalignment, compression and extension, noise and vibration, in a relatively short space.



Temperature Correction Factor

| 80 °C | 85 °C  | 90 °C  | 95 °C  | 100 °C | 105 °C |
|-------|--------|--------|--------|--------|--------|
| x 1.0 | x 0.92 | x 0.83 | x 0.75 | x 0.67 | x 0.60 |

### Specifications

| Part Number<br>(See key below) | NB  | Length | Max. Working Pressure | Movements         |                  |                    |                    | Spring Rates      |                 |                    |                  | Torsional Degrees | Vacuum (without vacuum ring) | Vacuum (with vacuum ring) |
|--------------------------------|-----|--------|-----------------------|-------------------|------------------|--------------------|--------------------|-------------------|-----------------|--------------------|------------------|-------------------|------------------------------|---------------------------|
|                                |     |        |                       | Axial Compression | Axial Elongation | Lateral Deflection | Angular Deflection | Axial Compression | Axial Extension | Lateral Deflection | Angular Movement |                   |                              |                           |
|                                |     |        |                       | (mm)              | (mm)             | (mm)               | (Deg)              | N/mm              | N/mm            | N/mm               | Nm/Deg           |                   |                              |                           |
| TREJA-32-CDE                   | 32  | 175    | 1550                  | 50                | 30               | 38                 | 38                 | 57                | 75              | 85                 | 0.15             | 3                 | 600                          | 600                       |
| TREJA-40-CDE                   | 40  | 175    | 1550                  | 50                | 30               | 38                 | 38                 | 69                | 90              | 103                | 0.22             | 3                 | 600                          | 600                       |
| TREJA-50-CDE                   | 50  | 175    | 1550                  | 50                | 30               | 38                 | 38                 | 82                | 108             | 138                | 0.45             | 3                 | 600                          | 600                       |
| TREJA-65-CDE                   | 65  | 175    | 1550                  | 50                | 30               | 38                 | 36                 | 103               | 135             | 150                | 0.76             | 3                 | 600                          | 600                       |
| TREJA-80-CDE                   | 80  | 175    | 1550                  | 50                | 30               | 38                 | 36                 | 124               | 163             | 162                | 1.21             | 3                 | 600                          | 600                       |
| TREJA-100-CDE                  | 100 | 225    | 1550                  | 50                | 35               | 32                 | 30                 | 166               | 217             | 187                | 2.89             | 3                 | 600                          | 600                       |
| TREJA-125-CDE                  | 125 | 225    | 1550                  | 50                | 35               | 32                 | 25                 | 208               | 271             | 214                | 6                | 3                 | 225                          | 600                       |
| TREJA-150-CDE                  | 150 | 225    | 1550                  | 50                | 35               | 32                 | 21                 | 250               | 325             | 243                | 10               | 3                 | 225                          | 600                       |
| TREJA-200-CDE                  | 200 | 325    | 1550                  | 50                | 35               | 28                 | 17                 | 227               | 361             | 297                | 19               | 3                 | 225                          | 600                       |
| TREJA-250-CDE                  | 250 | 325    | 1550                  | 50                | 35               | 28                 | 13                 | 348               | 453             | 318                | 36               | 3                 | 150                          | 250                       |
| TREJA-300-CDE                  | 300 | 325    | 1550                  | 50                | 35               | 28                 | 9                  | 417               | 543             | 373                | 64               | 3                 | 150                          | 250                       |
| TREJA-350-CDE                  | 350 | 350    | 1550                  | 45                | 30               | 25                 | 8                  | 364               | 475             | 439                | 28               | 2                 | 150                          | 250                       |
| TREJA-400-CDE                  | 400 | 350    | 1550                  | 45                | 30               | 25                 | 7                  | 417               | 543             | 507                | 115              | 2                 | 100                          | 150                       |
| TREJA-450-CDE                  | 450 | 350    | 1550                  | 45                | 30               | 25                 | 6                  | 469               | 610             | 559                | 162              | 1                 | 100                          | 150                       |
| TREJA-500-CDE                  | 500 | 350    | 1550                  | 45                | 30               | 25                 | 6                  | 522               | 678             | 625                | 232              | 1                 | 100                          | 150                       |
| TREJA-600-CDE                  | 600 | 350    | 1550                  | 45                | 30               | 25                 | 5                  | 625               | 813             | 572                | 417              | 1                 | 100                          | 150                       |

### Part Number Key:

A = RUBBER TYPE: E (EPDM), BN (BUNA NITRILE), V (VITON), N (NEOPRENE)  
 B = NB SIZE: E.G. 25 (25mm/1"), 100 (100mm/4")  
 C = FLANGE 1: D (TABLE D), E (TABLE E), A1 (ANSI 150), D16 (DIN 16)  
 D = FLANGE 2: D (TABLE D), E (TABLE E), A1 (ANSI 150), D16 (DIN 16)  
 E = FLANGE MATERIAL: HG (GALVANISED), 6S (316 STAINLESS STEEL)

### Applications



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EXPANSION JOINTS