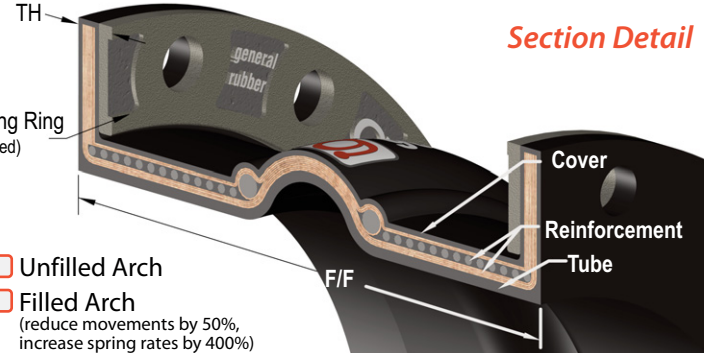
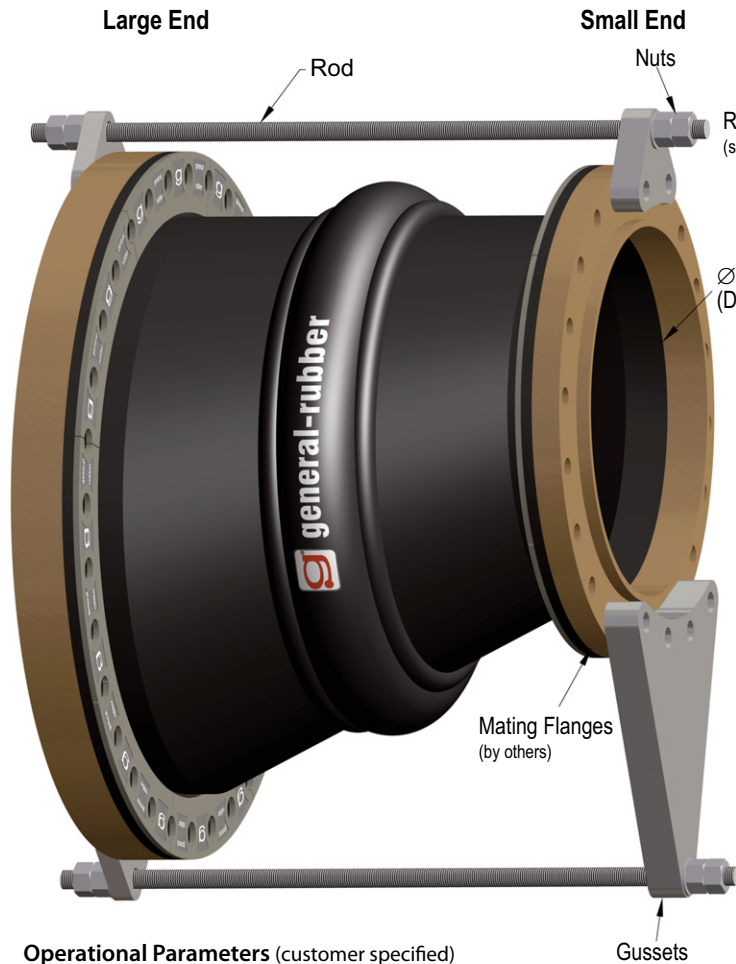


Shown with optional Control Unit W/B  
(others available)

## Style 1101ER Rubber Expansion Joint

Sizes 2" [DN50] - 18" [DN450] | 1101ER-0000-3.16



Section Detail

- Unfilled Arch
- Filled Arch  
(reduce movements by 50%,  
increase spring rates by 400%)

|                                    | Pure Gum                 | Neoprene                 | Butyl                    | Nitrile<br>(Buna-N)      | EPDM                     | Viton®<br>(FKM)          |
|------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Tube                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Cover                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tire Cord:                         | ° F [° C]                | ° F [° C]                | ° F [° C]                | ° F [° C]                | ° F [° C]                | ° F [° C]                |
| <input type="checkbox"/> Polyester | 180 [82]                 | 225 [107]                | 250 [121]                | 210 [99]                 | 250 [121]                | 250 [121]                |
| <input type="checkbox"/> Kevlar®   | 180 [82]                 | 225 [107]                | 300 [149]                | 210 [99]                 | 350 [177]                | 400 [204]                |

Maximum Temperature rating based on lowest temperature material selected. EPDM or Butyl w/Polyester Tire Cord rated 300°F (149°C) for Air Service up to 25 psig (1.7 barg)

### Bill of Materials

| ITEM                  | MATERIAL  | FINISH                |
|-----------------------|---|-----------------------|
| Retaining Ring        | <input type="checkbox"/> Carbon Steel             | Hot Dipped Galvanized |
|                       | <input type="checkbox"/> Stainless Steel          | Plain                 |
| Gusset                | <input type="checkbox"/> Carbon Steel             | Hot Dipped Galvanized |
|                       | <input type="checkbox"/> Stainless Steel          | Plain                 |
| Rods                  | <input type="checkbox"/> ASTM A193 B7 Alloy Steel | Hot Dipped Galvanized |
|                       | <input type="checkbox"/> ASTM A193 B8M 316 SS     | Plain                 |
| Nuts                  | <input type="checkbox"/> ASTM A194 2H Steel       | Hot Dipped Galvanized |
|                       | <input type="checkbox"/> ASTM A194 8M 316 SS      | Plain                 |
| Spherical Washers     | <input type="checkbox"/> Stainless Steel          | Plain                 |
| Metal Reinforcement   | High Tensile Steel                                | Rubber Embedded       |
| Textile Reinforcement | Tire Cord   | RFL Coating           |

Operational Parameters (customer specified)

Gussets

|                 |                      |   |                      |      |                      |          |                      |
|-----------------|----------------------|---|----------------------|------|----------------------|----------|----------------------|
| Size ID (DN)    | <input type="text"/> | X | <input type="text"/> | F/F  | <input type="text"/> | Pressure | <input type="text"/> |
| Flange Drilling | <input type="text"/> | X | <input type="text"/> | Qty. | <input type="text"/> | Vacuum   | <input type="text"/> |

| SIZE                 |                      |  | MOVEMENT (non-concurrent)    |                              |               |              |                 | PRESSURE        |                   | WEIGHT               |                     |  |
|----------------------|----------------------|--|------------------------------|------------------------------|---------------|--------------|-----------------|-----------------|-------------------|----------------------|---------------------|--|
| Large End ID in [mm] | Small End ID in [mm] | Minimum Length Available (F/F) in [mm] | Large End Flange TH. in [mm] | Small End Flange TH. in [mm] | Comp. in [mm] | Ext. in [mm] | Lateral in [mm] | Angular Degrees | Torsional Degrees | Pressure psig [barg] | Vacuum in-Hg [barg] | Gross Weight w/o Control Unit lbs [kg] |
| 2 [50]               | 1 [25]               | 6 [152]                                | 7/8 [22.2]                   | 7/8 [22.2]                   | 1/2 [12.7]    | 1/4 [6.4]    | 1/2 [12.7]      | 16              | 3.1               | 165 [11.4]           | 15 [-0.5]           | 6 [2.7]                                |
| 2 1/2 [65]           | 1 [25]               | 6 [152]                                | 7/8 [22.2]                   | 7/8 [22.2]                   | 1/2 [12.7]    | 1/4 [6.4]    | 1/2 [12.7]      | 14              | 3.0               | 165 [11.4]           | 15 [-0.5]           | 7 [3.2]                                |
| 3 [80]               | 1 [25]               | 6 [152]                                | 7/8 [22.2]                   | 7/8 [22.2]                   | 1/2 [12.7]    | 1/4 [6.4]    | 1/2 [12.7]      | 12.5            | 2.9               | 165 [11.4]           | 15 [-0.5]           | 8 [3.6]                                |
| 4 [100]              | 2 [50]               | 6 [152]                                | 7/8 [22.2]                   | 7/8 [22.2]                   | 1/2 [12.7]    | 1/4 [6.4]    | 1/2 [12.7]      | 9.5             | 2.7               | 165 [11.4]           | 15 [-0.5]           | 10 [4.5]                               |
| 5 [125]              | 2 [50]               | 8 [203]                                | 7/8 [22.2]                   | 7/8 [22.2]                   | 1/2 [12.7]    | 1/4 [6.4]    | 1/2 [12.7]      | 6.3             | 2.6               | 150 [10.3]           | 15 [-0.5]           | 15 [6.8]                               |
| 6 [150]              | 3 [75]               | 8 [203]                                | 7/8 [22.2]                   | 7/8 [22.2]                   | 1/2 [12.7]    | 1/4 [6.4]    | 1/2 [12.7]      | 6.1             | 2.4               | 150 [10.3]           | 15 [-0.5]           | 16 [7.3]                               |
| 8 [200]              | 4 [100]              | 8 [203]                                | 7/8 [22.2]                   | 7/8 [22.2]                   | 3/4 [19]      | 3/8 [9.5]    | 1/2 [12.7]      | 6.0             | 2.2               | 150 [10.3]           | 15 [-0.5]           | 19 [8.6]                               |
| 10 [250]             | 6 [150]              | 8 [203]                                | 7/8 [22.2]                   | 7/8 [22.2]                   | 3/4 [19]      | 3/8 [9.5]    | 1/2 [12.7]      | 5.8             | 2.1               | 150 [10.3]           | 15 [-0.5]           | 34 [15.5]                              |
| 12 [300]             | 6 [150]              | 10 [254]                               | 7/8 [22.2]                   | 7/8 [22.2]                   | 3/4 [19]      | 3/8 [9.5]    | 1/2 [12.7]      | 5.2             | 2.0               | 150 [10.3]           | 15 [-0.5]           | 42 [19]                                |
| 14 [350]             | 8 [200]              | 10 [254]                               | 1 [25.4]                     | 1 [25.4]                     | 3/4 [19]      | 3/8 [9.5]    | 1/2 [12.7]      | 3.9             | 1.8               | 90 [6.2]             | 15 [-0.5]           | 55 [25]                                |
| 16 [400]             | 10 [250]             | 10 [254]                               | 1 [25.4]                     | 1 [25.4]                     | 3/4 [19]      | 3/8 [9.5]    | 1/2 [12.7]      | 3.3             | 1.4               | 70 [4.8]             | 15 [-0.5]           | 64 [29]                                |
| 18 [450]             | 12 [300]             | 10 [254]                               | 1 [25.4]                     | 1 [25.4]                     | 3/4 [19]      | 3/8 [9.5]    | 1/2 [12.7]      | 2.6             | 1.0               | 70 [4.8]             | 15 [-0.5]           | 72 [32.7]                              |

Available in standard or custom face-to-face dimensions, custom offset arrangements and sizes not shown.

Contact General Rubber Corporation for full product specifications, Warnings and installation instructions.