

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

Style 1101CR Rubber Expansion Joint

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



Section Detail

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

| | Pure Gum | Neoprene | Butyl | Nitrile (Buna-N) | EPDM | Viton® (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)

| | | | | | | | |
|-----------------|----------------------|---|----------------------|------|----------------------|----------|----------------------|
| 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] | 6 [152] | 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] | 6 [152] | 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] | 6 [152] | 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] | 8 [203] | 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] | 8 [203] | 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] | 8 [203] | 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] | 8 [203] | 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.