### Style 1102 Rubber Expansion Joint

**36” ID x 15” F/F (DN900mm x 381mm) - 150-lb Drilling | 1102-0036-3.16**

#### Section Detail

- **Retaining Ring**: 
  - Pure Gum: [ ]
  - Neoprene: [ ]
  - Butyl: [ ]
  - Nitrile (Buna-N): [ ]
  - EPDM: [ ]
  - Viton® (FKM): [ ]

- **Tire Cord**:
  - Polyester: [ ]
  - Kevlar®: [ ]

- **Gusset**:
  - Carbon Steel: [ ]
  - Stainless Steel: [ ]

- **Rods**:
  - ASTM A193 B7 Alloy Steel: [ ]
  - ASTM A193 B8M 316 SS: [ ]

- **Nuts**:
  - Stainless Steel: [ ]

- **Spherical Washers**:
  - Carbon Steel: [ ]
  - Stainless Steel: [ ]

- **Textile Reinforcement**:
  - High Tensile Steel: [ ]
  - Rubber Embedded: [ ]

- **Metal Reinforcement**:
  - High Tensile Steel: [ ]

- **Cover**:
  - Stainless Steel: [ ]

- **Reinforcement**:
  - Wire: [ ]

- **Tube**:
  - Pure Gum: [ ]
  - Neoprene: [ ]
  - Butyl: [ ]
  - Nitrile (Buna-N): [ ]
  - EPDM: [ ]
  - Viton® (FKM): [ ]

- **Tire Cord**:
  - Polyester: [ ]
  - Kevlar®: [ ]

- **Gusset**:
  - Carbon Steel: [ ]
  - Stainless Steel: [ ]

- **Rods**:
  - ASTM A193 B7 Alloy Steel: [ ]
  - ASTM A193 B8M 316 SS: [ ]

- **Nuts**:
  - Stainless Steel: [ ]

- **Spherical Washers**:
  - Carbon Steel: [ ]
  - Stainless Steel: [ ]

- **Textile Reinforcement**:
  - High Tensile Steel: [ ]
  - Rubber Embedded: [ ]

- **Metal Reinforcement**:
  - High Tensile Steel: [ ]

- **Cover**:
  - Stainless Steel: [ ]

- **Reinforcement**:
  - Wire: [ ]

#### Bill of Materials

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<tr>
<th>ITEM</th>
<th>MATERIAL</th>
<th>FINISH</th>
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</thead>
<tbody>
<tr>
<td>Retaining Ring</td>
<td>Carbon Steel</td>
<td>Hot Dipped Galvanized</td>
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<tr>
<td></td>
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#### Optional Control Units

- [ ] No Control Units
- [ ] Outer Washer, Inner Bare (W/B) (shown above)
- [ ] Inner Nuts (W/W)
- [ ] Spherical Washer (SW/B)
- [ ] Spherical Washer (SW/SW)
- [ ] Integral Ring (INT-W/B)
- [ ] Integral Ring (INT-W/W)
- [ ] Integral Ring, Spherical Washer (INT-SW/SW)

#### MOVEMENT (non-concurrent)

<table>
<thead>
<tr>
<th>Comp. in [mm]</th>
<th>Ext. in [mm]</th>
<th>Lateral in [mm]</th>
<th>Angular deg.</th>
<th>Torsional deg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 [127]</td>
<td>2 1/2 [64]</td>
<td>2 3/4 [70]</td>
<td>12</td>
<td>4,4</td>
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</tbody>
</table>

#### SPRING RATE

|--------------------|-------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|---------------------|-------------------------|------------------------|

#### Pressure

- 90 [6.2] psig
- 10 [-0.3] in-Hg

#### Maximum Temperature Rating

- Pure Gum: 180 [82] °F
- Neoprene: 180 [82] °F
- Butyl: 225 [107] °F
- Nitrile (Buna-N): 250 [121] °F
- EPDM: 300 [149] °F
- Viton® (FKM): 350 [177] °F
- Neoprene: 225 [107] °F
- Butyl: 250 [121] °F

#### Optional Control Units

- [ ] No Control Units
- [ ] Outer Washer, Inner Bare (W/B) (shown above)
- [ ] Inner Nuts (W/W)
- [ ] Spherical Washer (SW/B)
- [ ] Spherical Washer (SW/SW)
- [ ] Integral Ring (INT-W/B)
- [ ] Integral Ring (INT-W/W)
- [ ] Integral Ring, Spherical Washer (INT-SW/SW)

*Gusset thickness and pressures listed above are for carbon steel gussets and ASTM A193 B7 rods. Contact General Rubber for stainless steel pressures and thicknesses.

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