Shown with Control Unit W/B

**Style 1102 Rubber Expansion Joint**

30” ID x 15” F/F (DN750mm x 381mm) - 150-lb Drilling | 1102-0030-3.16

**Bill of Materials**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MATERIAL</th>
<th>FINISH</th>
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<tbody>
<tr>
<td>Retaining Ring</td>
<td>Carbon Steel</td>
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**Retaining Ring**

- **Material Options**:
  - Carbon Steel
  - Stainless Steel

**Gusset**

- **Thickness Options**:
  - 1 3/8” thk. [35mm]
  - 1 3/8” thk. [35mm]

**Tire Cord**

- **Types**:
  - Polyester
  - Kevlar®
  - Pure Gum
  - Neoprene
  - Butyl
  - Nitrile (Buna-N)
  - EPDM
  - Viton® (FKM)

**Maximum Temperature Rating**

- **Polyester**
  - 180 [82] °F [°C]
- **Kevlar®**
  - 180 [82] °F [°C]
- **Pure Gum**
  - 180 [82] °F [°C]
- **Neoprene**
  - 225 [107] °F [°C]
- **Butyl**
  - 250 [121] °F [°C]
- **Nitrile (Buna-N)**
  - 210 [99] °F [°C]
- **EPDM**
  - 250 [121] °F [°C]
- **Viton® (FKM)**
  - 250 [121] °F [°C]

**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)

**Movement**

- **Comp. in [mm]**: 5 [127]
- **Lateral in [mm]**: 2 1/2 [64]
- **Angular deg.**: 14
- **Torsional deg.**: 4.6
- **Comp. lb/in [N/mm]**: 1,090 [190]
- **Lateral lb/in [N/mm]**: 1,330 [232]
- **Angular ft-lb/deg [N-m/deg]**: 199 [508]
- **Torsional ft-lb/deg [N-m/deg]**: 375 [508]
- **Pressure psig [barg]**: 100 [6.9]
- **Vacuum in-Hg [barg]**: 10 [-0.3]
- **RBJ with Rings lbs [kg]**: 225 [102.3]
- **Control Unit lbs [kg]**: 62 [28.2]

**Optional Control Units**

- 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.

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