

W/R

Customer: \_\_\_\_\_ Date: \_\_\_\_\_

Job/Project: \_\_\_\_\_

Quantity: \_\_\_\_\_ Ref/Tag: \_

## Style 1102 Rubber Expansion Joint Shown with 24" ID x 15" F/F (DN600mm x 381mm) - 150-lb Drilling | 1102-0024-3.16 **Control Unit** 1 1/8" thk. [28.6mm] Section Detail Retaining Ring Mating Rod Ø3/4" x 29" typ. (segmented) Flange Cover [19mm x 737mm] (by others) Nuts Reinforcement Unfilled Arch Tube 15" [381mm] Filled Arch (reduce movements by 50%, increase spring rates by 400%) Pure Gum Neoprene Butyl Nitrile **EPDM** Viton® (Buna-N) (FKM) Tube . . U Cover ° F [∘ C] Tire Cord: ° F [° C] ° F [∘ C] ° F [⁰ C] ° F [° C] ° F [∘ C] Polyester 180 [82] 225 [107] 250 [121] 210 [99] 250 [121] 250 [121] 350 [177] Kevlar<sup>®</sup> 180 [82] 225 [107] 300 [149] 210 [99] 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** MATERIAL ITEM FINISH Ø24" ID **Retaining Ring** Carbon Steel Hot Dipped Galvanized [609.6mm] **Stainless Steel** Plain Gusset **Carbon Steel** Hot Dipped Galvanized Ø32" OD [812.8mm] **Stainless Steel** Plain Rods ASTM A193 B7 Alloy Steel Hot Dipped Galvanized Ø29 1/2" BC ASTM A193 B8M 316 SS Plain [749.3mm] ASTM A194 2H Steel Ø35 15/16" Max OD Nuts Hot Dipped Galvanized [912mm] Ø1 3/8" [34.9mm] ASTM A194 8M 316 SS Plain \*Gusset (20 holes) **Spherical Washers Stainless Steel** Plain 1" thk. [25mm] Metal Reinforcement **High Tensile Steel Rubber Embedded** Textile Reinforcement Tire Cord **RFL** Coating SPRING RATE PRESSURE **MOVEMENT** (non-concurrent) WEIGHT Ext. Angular Lateral Vacuum **RBJ** with Comp. Lateral Torsional Comp. Ext. Angular Torsional Pressure Control ft-lb/deg lb/in lb/in lb/in ft-lb/deg Unit in [mm] in [mm] in [mm] deg. deg. psig in-Hg Rings [N/mm] [N/mm] [N/mm] [N-m/deg] [N-m/deg] lbs [kg] lbs [kg] [barg] [barg] 1,050 [184] 870 [152] 101 [137] 195 [264] 5 [127] 2 1/2 [64] 2 3/4 [70] 16 4.8 865 [151] 130 [9] 15 [-0.5] 166 [75] 50 [23] Inner Nuts (W/W) Spherical Washer (SW/B) Spherical Washer (SW/SW) **Optional Control Units** No Control Units Outer Washer, Integral Ring (INT-W/W) Integral Ring, Spherical Washer Integral Ring (INT-W/B) (INT-SW/SW) Inner Bare (W/B) (shown above)

\*No. of Rods: 2 Rods / 73 psig 3 Rods / 110 psig 4 Rods / 130 psig

\*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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