

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

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

## Quantity: \_\_\_\_\_ Ref/Tag: \_ Style 1104 Rubber Expansion Joint Shown with 2 1/2" ID x 18" F/F (DN63mm x 457mm) - 150-Ib Drilling | 1104-0002.5-7.15 **Control Unit** 7/8" thk. GR/B [22.2mm] Section Detail Retaining Ring (segmented) Mating Flange Cover Rod Ø5/8" x 29" typ. (by others) Rubber [15.9mm x 737mm] Grommet Reinforcement 18" [457mm] Tube Unfilled Arch Filled Arch (reduce movements by 50%, increase spring rates by 400%) Nuts Pure Gum Neoprene Nitrile EPDM Butvl Viton® (Buna-N) (FKM) Ø2 1/2" Tube . . U ID Cover [63.5mm] Tire Cord: ° F [∘ C] ° F [° C] ° F [∘ C] ° F [⁰ C] ° F [° C] ° F [∘ C] Ø5 1/2" BC Polyester 180 [82] 225 [107] 250 [121] 210 [99] 250 [121] 250 [121] [139.7mm] 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 Ø7" OD Butyl w/Polyester Tire Cord rated 300°F (149°C) for Air Service up to 25 psig (1.7 barg) Ø10 7/8" Max OD [177.8mm] [274mm] **Bill of Materials** Ø3/4" [19mm] \*Gusset (4 holes) MATERIAL 3/8" thk. [10mm] ITEM FINISH **Retaining Ring** Carbon Steel Hot Dipped Galvanized **Stainless Steel** Plain Gusset **Carbon Steel** Hot Dipped Galvanized **Stainless Steel** Plain Rods ASTM A193 B7 Alloy Steel Hot Dipped Galvanized ASTM A193 B8M 316 SS Plain Nuts ASTM A194 2H Steel Hot Dipped Galvanized 🔲 ASTM A194 B8 316 SS Plain **Spherical Washers Stainless Steel** Plain Metal Reinforcement **High Tensile Steel Rubber Embedded** Textile Reinforcement Tire Cord **RFL** Coating SPRING RATE PRESSURE **MOVEMENT** (non-concurrent) WEIGHT Ext. Angular Ext. Lateral Vacuum **RBJ** with Comp. Lateral Torsional Comp. Angular Torsional Pressure Control ft-lb/deg lb/in lb/in ft-lb/deg Unit in [mm] in [mm] in [mm] deg. deg. lb/in psig in-Hg Rings [N/mm] [N/mm] [N/mm] [N-m/deg] [N-m/deg] lbs [kg] lbs [kg] [barg] [barg] 105 [18] 120 [21] 0.12 [0.16] 0.4 [0.54] 225 [15.5] 10.9 [4.9] 7 [178] 3 1/2 [89] 4 [102] 132 15.2 85 [14] 15 [-0.5] 23 [10.4] Inner Nuts (GR/W) Spherical Washer (GR-SW/B) Spherical Washer (GR-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) Grommet Inner Bare (GR/B) (shown above)

\*No. of Rods: 2 Rods / 225 psig

\*Gusset thickness and pressure 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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