

Customer: _____ Date: _____

Job/Project: _____

Quantity: _____ Ref/Tag: _

Style 1102 Rubber Expansion Joint Shown with 20" ID x 12" F/F (DN500mm x 305mm) - 150-lb Drilling | 1102-0020-3.16 **Control Unit** 1" thk. W/R [25.4mm] Section Detail Ø31 1/8" Max OD [790mm] Mating Ø27 1/2" OD Retaining Ring Flange [698.5mm] (segmented) Cover (by others) Reinforcement Unfilled Arch Tube 12" [305mm] Filled Arch (reduce movements by 50%, increase spring rates by 400%) Pure Gum Neoprene Butyl Nitrile EPDM Viton® Nuts (Buna-N) (FKM) Tube . . U Cover ° F [∘ C] Tire Cord: ° F [° C] ° F [∘ C] ° F [⁰ C] ° F [° C] ° F [∘ C] 61 Polyester 180 [82] 225 [107] 250 [121] 210 [99] 250 [121] 250 [121] Kevlar[®] 180 [82] 225 [107] 300 [149] 210 [99] 350 [177] 400 [204] Maximum Temperature rating based on lowest temperature material selected. EPDM or Ø20" ID Butyl w/Polyester Tire Cord rated 300°F (149°C) for Air Service up to 25 psig (1.7 barg) [508mm] **Bill of Materials** MATERIAL Ø25" BC ITEM FINISH [635mm] **Retaining Ring** Carbon Steel Hot Dipped Galvanized **Stainless Steel** Plain Gusset **Carbon Steel** Hot Dipped Galvanized **Stainless Steel** Plain Ø1 1/4" [31.8mm] Rods ASTM A193 B7 Alloy Steel Hot Dipped Galvanized (20 holes) ASTM A193 B8M 316 SS Plain Rod Ø3/4" x 25" typ. [19mm x 635mm] Nuts ASTM A194 2H Steel Hot Dipped Galvanized *Gusset ASTM A194 8M 316 SS Plain 1" thk. [25mm] **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. Lateral Angular Lateral Vacuum **RBJ** with Comp. Torsional Comp. Ext. Angular Torsional Pressure Control ft-lb/deg deg. lb/in lb/in lb/in ft-lb/deg Unit in [mm] in [mm] in [mm] deg. psig in-Hg Rings [N/mm] [N/mm] [N/mm] [N-m/deg] [N-m/deg] lbs [kg] lbs [kg] [barg] [barg] 2 1/4 [57] 2 1/2 [64] 875 [153] 810 [141] 144 [195] 35 [15.9] 4 1/2 [114] 18 5 640 [112] 55 [74] 130 [9] 15 [-0.5] 143 [65] 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 / 106 psig 3 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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