When there is a need to withstand shear forces, deflection & improved alignment.

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MATERIALS

- Worm Drive Clamp: 30 series ASTM stainless steel
- Nut & Bolt Clamp: 316 series ASTM stainless steel
- Shield: 301 series ASTM stainless steel 0.012" thick
- Gasket: This gasket is fabricated from a compound with high-quality elastomeric properties to meet physical testing.

**WORM DRIVE CLAMP DETAILS**

- **HOUSING**
- **SADDLE**
- **Screw**
- **Thread R.H.**

**NUT & BOLT CLAMP DETAILS**

- **BARREL**
- **BOLT**
- **NUT**
- **SHOE**

**Sealing Gasket Details**

**Accelerated Aging**

- 85% of original tensile strength
- 85% of original elongation
- All determined after oven aging at 70°C for 7 days

**Compression Set**

- 20% maximum of original deflection

**Ozone Cracking**

- No visible cracking at 2X magnification of the gasket after 24 hours exposure in 0.5 PPHM ozone concentrations at 40°C. Testing and inspection to be on gasket which is loop-mounted to give approximately 20% elongation of outer surface.

**Water Absorption**

- 3% maximum by weight after 7 days at 70°F

**Tensile Strength**

- 1000 PSI minimum

**Elongation**

- 250% minimum

**Durameter (Shore A)**

- 55 minimum 70 maximum

**GASKET PHYSICAL TESTS (ASTM C 425)**

- Tensile Strength
- Elongation
- Durameter (Shore A)
- Accelerated Aging
- Compression Set
- Ozone Cracking
- Water Absorption

**Corrosion Resistant**

- Surgical grade 316 stainless steel Nut & Bolt clamps and 300 series stainless steel components provide outstanding protection in severe environments; such as marine applications, poorly aerated or moist soils, contaminated ground conditions (particularly industrial fill sites) and where the ground water contains chloride, sulfates or bicarbonates.

**Superior Rigidity**

- 0.012" thick 301 series stainless steel shield provides superior load bearing control between the coupling and pipe surface. The coupling's rugged construction provides excellent sealing properties, and the stainless steel shield provides excellent resistance to shear forces and helps with alignment, while maintaining flexibility.

**Withstands Tension and Compression**

- Synthetic rubbers permit a substantial degree of distortion without change in basic physical resistance, unlike other manufacturers' thermoplastic coupling materials. Molded synthetic rubber gasket is strong, durable and resilient to ultraviolet rays, ozone, fungus growth, natural erosive properties of soil and normal sewer gases. More pliable and easier to install in cold weather applications than an elastomeric PVC gasket.

**Pre-Set Calibration**

- All ARC couplings are designed to be installed with a pre-set torque wrench calibrated to 60 in/lbs. maximum to accommodate the 300 series stainless steel 5/16" hex head screw.

**REFERENCE**

- MR03 44 ARC
- MR03 54 ARC
- MR03 55 ARC
- MR03 66 ARC
- MR03 86 ARC
- MR03 88 ARC
- MR03 1008 ARC
- MR03 1010 ARC
- MR03 1210 ARC
- MR03 1212 ARC
- MR03 1516 ARC
- MR03 1818 ARC

**WORM DRIVE CLAMP**

- **SHIELD**
- **NUT & BOLT CLAMP**

**TRUTH IN THE USA**

- **Flex-Seal® ARC Coupling - Submittal**
- **MR03 ARC Series**
- **Performance Couplings for Similar and Dissimilar Pipe Sizes and Materials**

**PROJECT**

- **ENGINEER**
- **CONTRACTOR**

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