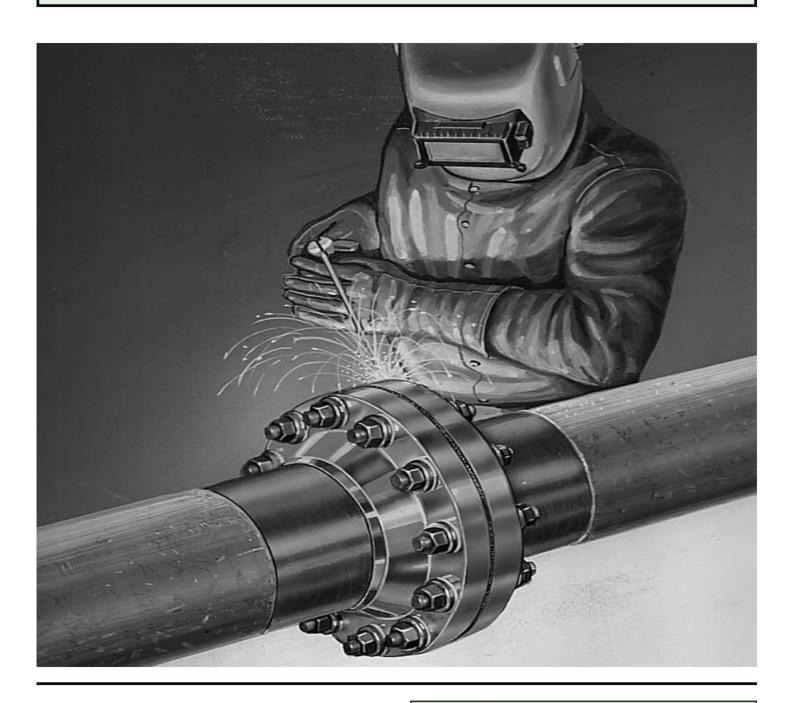




International Measurement and Control Systems
90 MAIN ST. • P.O. BOX 1605 • TULLYTOWN, PA 19007





P.O. BOX 1605 • TULLYTOWN, PA 19007 1-800-955-4GAS (4427) • Tel. (215) 946-2200 • FAX: (215) 943-2984 e-mail: sales@imacsystems.com Distributed by:



Why BARLOW Insulated Joints?

- 1. Preassembly eliminates kits, saves on site labor
- 2. Controlled assembly and pretesting eliminates adjustments. Guarantees Performance.
- 3. Mechanical design resists affects of stress and resulting insulation failure
- Serviceability and maintenance greatly simplified

Designed to the highest possible standards including the following:

Thicker dielectric sleeves (1/8") machined to precise, close tolerance dimensions, both length and diameter.

Flange bolt holes line reamed to provide perfect alignment and close tolerance fit to the dielectric sleeves.

Flange studs machined from Alloy Steel and heat treated to ASTM Designation A-193-52T Grade B-7, resulting in superior strength and greater resistance to stress induced elongation.

Coupling nuts machined from Alloy Steel and heat treated to ASTM Designation A-194 Class 2-H

Precision machined steel washers, flat parallel, and counterbored allowing for square alignment and clearance for the dielectric sleeves. The clearance prevents stress on the sleeves after torquing flange studs.

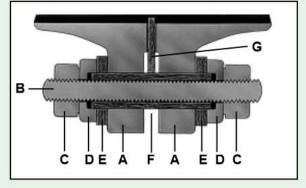
Flange gasket precision cut for ideal fit with small projection into the stream to prevent contamination or bridging of the joint inside the pipe.

Precise assembly with accurate torquing carried out in stages followed by retorquing after 24 hours.

Tested for minimum resistance of 2,000,000 ohms prior to packing in special containers.

Flange gap sealed with epoxy resin to prevent contamination during post assembly handling.

Precision Machined Components



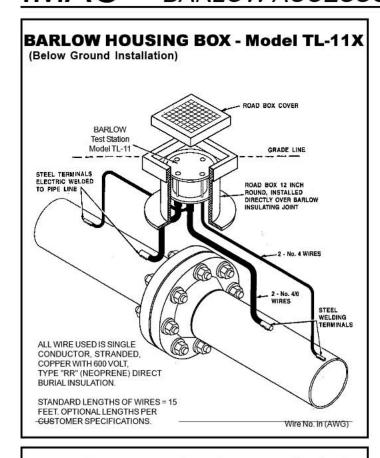
- Forded Steel Flanges
- В Alloy Steel Studs
- Steel Hex Nuts
- Recessed Steel Washers
- Dielectric Washers
- Dielectric Sleeves
- Dielectric Gaskets

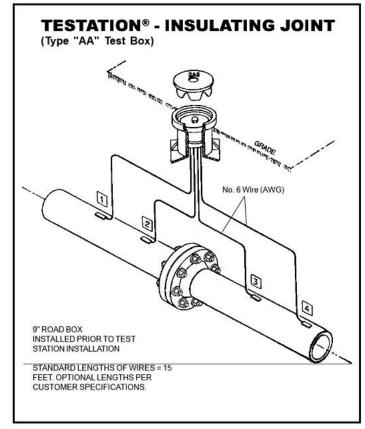


Precision Assembly and Torquing



Fully Tested





BARLOW "TMK" SURGE ARRESTORS

Curb The Electrical Breakdown of Insulated Flanges



- Non-linear voltage current characteristics; limits potentially destructive voltage levels but does not interfere with cathodic protection.
- Nominal values 50 ohms at 250 volts - 30,000 ohms at 3 volts.
- Self-healing; able to survive multiple strikes.
- Your choice of wire size connections.
- Designed for above or below ground installation.
- Fiber-glass housings available for above ground installation.
- Priced competitively with fusible or sacrificial voltage relief devices.

Consult Factory for Details



TMKE FIBERGLASS SURGE ARRESTOR ENCLOSURES

STANDARD SIZES Enclosure Inside Dimensions

Length x Height x Width 6" x 4 x 4 ^{15/16}

8" x 6 x 5 ^{3/16} 10" x 6 x 5 ^{11/16}

Ideal housing for Barlow "TMK"
 Surge Arrestors, Lightning Arrestors, terminal wiring boxes and electrical

control enclosures in highly corrosive atmospheres.

- 2. These enclosures are molded from a special polyester resin material which has excellent resistance and outstanding physical properties. The hinged cover is easly removable, and is attached to the body with internal hinges. Each cover has a neoprene gasket attached with oil-resistant adhesive. Cover screws are monel. All enclosures have a grey finish inside and out.
- Drill holes, cut outs, floor flanges can be supplied at an extra charge.
- These enclosures conform to the NEMA 4 standards for: dusttight, raintight, sleet-ice-resistant, rain-proof, water-tight, oil-tight and corrosion-resistant.



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BARLOW INSULATING JOINTS ANSI 150 LBS.

| Pipe Size Inches | Flange Dimensions | | | | Alloy Ste | el Studs | Joint | Average |
|------------------------|-------------------|-------|-----------|-----|-----------|----------|---------------|---------------|
| | O.D. | I.D.* | Thickness | No. | Diam. | Length | end to end | weight (lbs.) |
| 2 | 6 | 2.07 | 3/4 | 4 | 1/2 | 4 3/8 | 51/4 | 14 |
| 4 | 9 | 4.03 | 1 | 8 | 1/2 | 43/4 | 61/4 | 34 |
| 6 | 11 | 6.07 | 1 | 8 | 5/8 | 51/4 | 71/4 | 57 |
| 8 | 131/2 | 7.98 | 1 1/8 | 8 | 5/8 | 51/2 | 81/4 | 86 |
| 10 | 16 | 10.02 | 1 1/4 | 12 | 3/4 | 6 | 81/4 | 122 |
| 12 | 19 | 12.00 | 1 1/4 | 12 | 3/4 | 6 1/8 | 91/4 | 178 |
| 14 | 21 | 13.25 | 1 3/8 | 12 | 7/8 | 61/2 | 101/4 | 226 |
| 16 | 231/2 | 15.25 | 11/2 | 16 | 7/8 | 63/4 | 101/4 | 280 |
| 20 | 271/2 | 19.25 | 13/4 | 20 | 1 | 73/4 | 11 5/8 | 398 |
| 24 | 32 | 23.25 | 1 7/8 | 20 | 1 1/8 | 81/2 | 121/4 | 595 |
| 30 | 38¾ | 29.25 | 2 1/8 | 28 | 1 1/8 | 9 | 101/2 | 810 |

BARLOW INSULATING JOINTS ANSI 300 LBS.

| Pipe Size Inches | Flange Dimensions | | | 1 | Alloy Ste | el Studs | Joint | Average |
|------------------------|-------------------|-------|-----------|-----|-----------|----------|---------------|---------------|
| | O.D. | I.D.* | Thickness | No. | Diam. | Length | end to end | weight (lbs.) |
| 2 | 61/2 | 2.07 | 7/8 | 8 | 1/2 | 43/4 | 53/4 | 21 |
| 3 | 81/4 | 3.07 | 1 1/8 | 8 | 5/8 | 51/2 | 61/2 | 39 |
| 4 | 10 | 4.03 | 1 1/4 | 8 | 5/8 | 53/4 | 7 | 60 |
| 6 | 121/2 | 6.07 | 1 1/2 | 12 | 5/8 | 6 1/8 | 8 | 95 |
| 8 | 15 | 7.98 | 1 5/8 | 12 | 3/4 | 63/4 | 9 | 154 |
| 10 | 171/2 | 10.02 | 1 7/8 | 16 | 7/8 | 71/2 | 91/2 | 207 |
| 12 | 201/2 | 12.00 | 2 | 16 | 1 | 8 | 101/2 | 331 |
| 14 | 23 | 13.25 | 2 1/8 | 20 | 1 | 81/4 | 111/2 | 440 |
| 16 | 251/2 | 15.25 | 2 1/4 | 20 | 1 1/8 | 9 | 113/4 | 572 |
| 20 | 30½ | 19.25 | 2 1/2 | 24 | 1 1/8 | 91/2 | 13 | 866 |
| 24 | 36 | 23.25 | 2 3/4 | 24 | 1 3/8 | 101/2 | 131/2 | 1290 |
| 30 | 43 | 29.25 | 3 | 28 | 1 5/8 | 111/2 | 121/4 | 1770 |

BARLOW INSULATING JOINTS ANSI 600 LBS.

| Pipe Size Inches | Flange Dimensions | | | | Alloy Ste | el Studs | Joint | Average |
|------------------------|-------------------|--------|-----------|-----|-----------|----------|---------------|---------------|
| | O.D. | I.D.** | Thickness | No. | Diam. | Length | end to end | weight (lbs.) |
| 2 | 61/2 | 1.94 | 11/4 | 8 | 1/2 | 51/4 | 61/2 | 27 |
| 3 | 81/4 | 2.90 | 1 1/2 | 8 | 5/8 | 6 | 71/4 | 55 |
| 4 | 10¾ | 3.83 | 1 3/4 | 8 | 3/4 | 6¾ | 83/4 | 98 |
| 6 | 14 | 5.76 | 2 1/8 | 12 | 7/8 | 8 | 10 | 197 |
| 8 | 161/2 | 7.63 | 2 7/16 | 12 | 1 | 8 7/8 | 111/4 | 280 |
| 10 | 20 | 9.75 | 23/4 | 16 | 1 1/8 | 93/4 | 12¾ | 446 |
| 12 | 22 | 11.75 | 2 7/8 | 20 | 1 1/8 | 10 | 13 | 568 |
| 14 | 23¾ | 13.00 | 3 | 20 | 11/4 | 10 5/8 | 13¾ | 804 |
| 16 | 27 | 15.00 | 3 1/4 | 20 | 1 3/8 | 111/4 | 143/4 | 1102 |
| 20 | 32 | 19.00 | 33/4 | 24 | 1 1/2 | 121/2 | 15¾ | 1611 |
| 24 | 37 | 23.00 | 41/4 | 24 | 13/4 | 14 | 163/4 | 2380 |