Barlow®

INSULATING JOINTS

Manufactured By IMAC Systems, Inc.

IMAC Systems Inc.
International Measurement and Control Systems
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Distributed by:

Barlow

INSULATING JOINTS

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
4. 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.

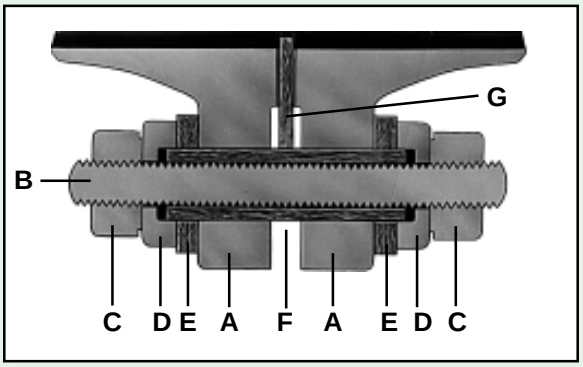
Flange gasket precision cut for ideal fit with small projection into the stream to prevent contamination or bridging of the joint inside the pipe.

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

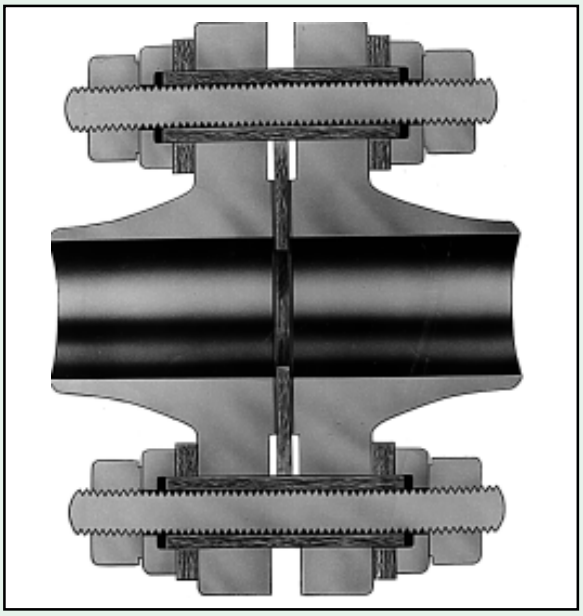
Tested for minimum resistance of 2,000,000 ohms prior to packing in special containers.

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

Precision Machined Components



A	Forded Steel Flanges	**E**	Dielectric Washers
B	Alloy Steel Studs	**F**	Dielectric Sleeves
C	Steel Hex Nuts	**G**	Dielectric Gaskets
D	Recessed Steel Washers		



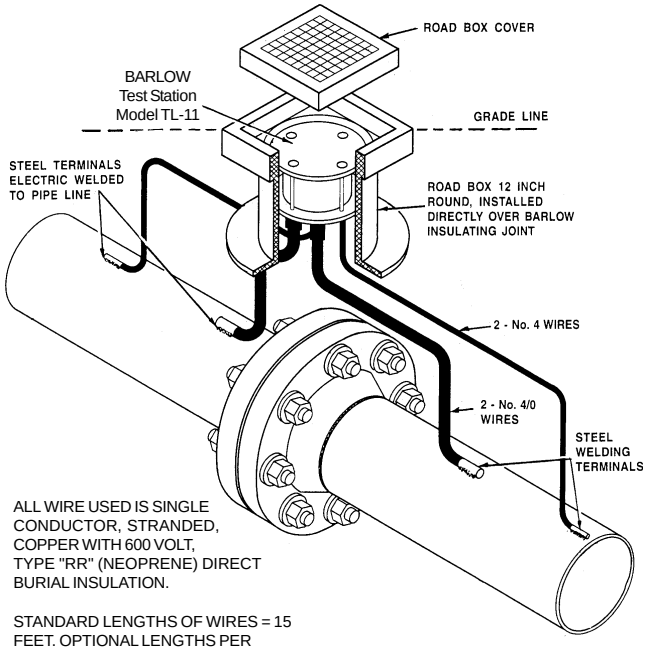
Precision Assembly and Torquing

Fully Tested **Ready For Installation**

IMAC *BARLOW ACCESSORIES*

BARLOW HOUSING BOX - Model TL-11X

(Below Ground Installation)



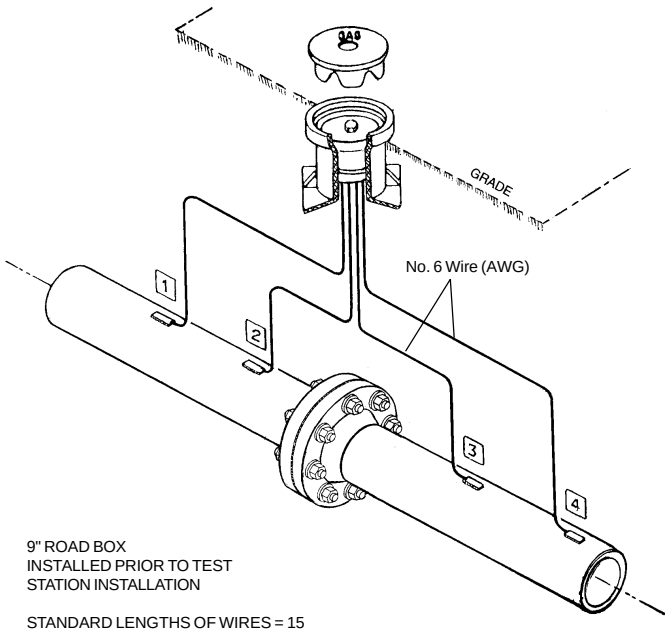
ALL WIRE USED IS SINGLE CONDUCTOR, STRANDED, COPPER WITH 600 VOLT, TYPE "RR" (NEOPRENE) DIRECT BURIAL INSULATION.

STANDARD LENGTHS OF WIRES = 15 FEET. OPTIONAL LENGTHS PER CUSTOMER SPECIFICATIONS.

Wire No. in (AWG)

TESTATION® - INSULATING JOINT

(Type "AA" Test Box)

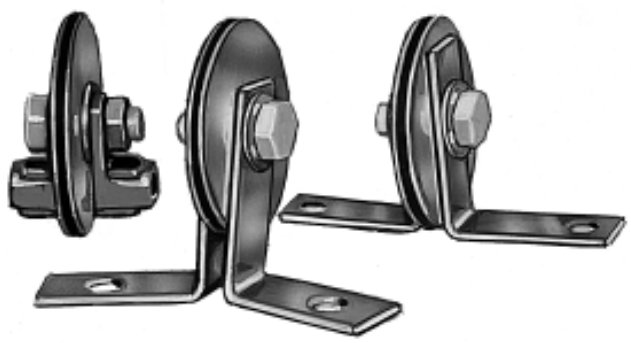


9" ROAD BOX INSTALLED PRIOR TO TEST STATION INSTALLATION

STANDARD LENGTHS OF WIRES = 15 FEET. OPTIONAL LENGTHS PER CUSTOMER SPECIFICATIONS.

BARLOW "TMK" SURGE ARRESTORS

Curb The Electrical Breakdown of Insulated Flanges



1. Non-linear voltage current characteristics; limits potentially destructive voltage levels but does not interfere with cathodic protection.
2. Nominal values - 50 ohms at 250 volts - 30,000 ohms at 3 volts.
3. Self-healing; able to survive multiple strikes.
4. Your choice of wire size connections.
5. Designed for above or below ground installation.
6. Fiber-glass housings available for above ground installation.
7. 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
12" x8 x 6 11/16

1. 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 out-standing 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.
3. Drill holes, cut outs, floor flanges can be supplied at an extra charge.
4. 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 Steel Studs			Joint end to end	Average weight (lbs.)
	O.D.	I.D.*	Thickness	No.	Diam.	Length		
2	6	2.07	¾	4	½	4 3/8	5¼	14
4	9	4.03	1	8	½	4¾	6¼	34
6	11	6.07	1	8	5/8	5¼	7¼	57
8	13½	7.98	1 1/8	8	5/8	5½	8¼	86
10	16	10.02	1 ¼	12	¾	6	8¼	122
12	19	12.00	1 ¼	12	¾	6 1/8	9¼	178
14	21	13.25	1 3/8	12	7/8	6½	10¼	226
16	23½	15.25	1½	16	7/8	6¾	10¼	280
20	27½	19.25	1¾	20	1	7¾	11 5/8	398
24	32	23.25	1 7/8	20	1 1/8	8½	12¼	595
30	38¾	29.25	2 1/8	28	1 1/8	9	10½	810

BARLOW INSULATING JOINTS ANSI 300 LBS.

Pipe Size Inches	Flange Dimensions			Alloy Steel Studs			Joint end to end	Average weight (lbs.)
	O.D.	I.D.*	Thickness	No.	Diam.	Length		
2	6½	2.07	7/8	8	½	4¾	5¾	21
3	8¼	3.07	1 1/8	8	5/8	5½	6½	39
4	10	4.03	1 ¼	8	5/8	5¾	7	60
6	12½	6.07	1 ½	12	5/8	6 1/8	8	95
8	15	7.98	1 5/8	12	¾	6¾	9	154
10	17½	10.02	1 7/8	16	7/8	7½	9½	207
12	20½	12.00	2	16	1	8	10½	331
14	23	13.25	2 1/8	20	1	8¼	11½	440
16	25½	15.25	2 ¼	20	1 1/8	9	11¾	572
20	30½	19.25	2 ½	24	1 1/8	9½	13	866
24	36	23.25	2 ¾	24	1 3/8	10½	13½	1290
30	43	29.25	3	28	1 5/8	11½	12¼	1770

BARLOW INSULATING JOINTS ANSI 600 LBS.

Pipe Size Inches	Flange Dimensions			Alloy Steel Studs			Joint end to end	Average weight (lbs.)
	O.D.	I.D.**	Thickness	No.	Diam.	Length		
2	6½	1.94	1¼	8	½	5¼	6½	27
3	8¼	2.90	1 ½	8	5/8	6	7¼	55
4	10¾	3.83	1 ¾	8	¾	6¾	8¾	98
6	14	5.76	2 1/8	12	7/8	8	10	197
8	16½	7.63	2 7/16	12	1	8 7/8	11¼	280
10	20	9.75	2¾	16	1 1/8	9¾	12¾	446
12	22	11.75	2 7/8	20	1 1/8	10	13	568
14	23¾	13.00	3	20	1¼	10 5/8	13¾	804
16	27	15.00	3 ¼	20	1 3/8	11¼	14¾	1102
20	32	19.00	3¾	24	1 ½	12½	15¾	1611
24	37	23.00	4¼	24	1¾	14	16¾	2380

*ID FOR STANDARD WALL PIPE **ID FOR EXTRA STRONG WALL PIPE (STD WALL AVAILABLE UPON REQUEST)