

E X P E R I E N C E C O U N T S



ElectroStopTM



***Monolithic
Isolation
Fittings***

The ElectroStop™ monolithic isolation fittings will serve as a positive leak proof, long lasting block against the flow of electric current in all piping systems. When you bury the ElectroStop™ isolation fitting you bury maintenance costs forever - an especially important feature for system operators and engineers.

Eliminates Short Circuits

Bolts, sleeves and washers - the major source of short circuits in most isolation assemblies - are eliminated with the ElectroStop™ isolation fitting.

Eliminates Field Assembly

The ElectroStop™ isolation fitting is completely factory assembled and tested. There are no flanges, gaskets, nuts, bolts, sleeves or washers to handle and consequently no fluid leaks due to improper field assembly.

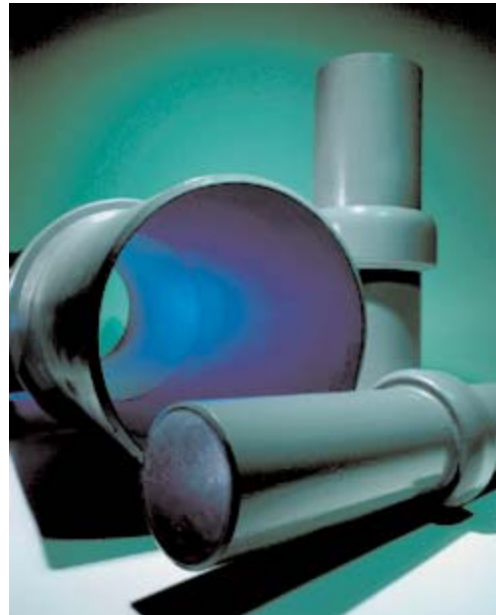
Is Less Expensive

Purchase the ElectroStop™ isolation fitting for less than the cost of the component parts of insulated flange assemblies in most pipe sizes. Install the ElectroStop™ isolation fitting for less than the labor costs of installing an insulated flange assembly.

Is Coated Both Internally and Externally

A two part epoxy is sprayed to a thickness of .010-.012" (.25 to .30mm) to within 2" (50.8mm) of each weld end.

The ElectroStop™



Is 100% Hydrostatically Tested

All ElectroStop™ fittings undergo hydrostatic and cyclic pressure tests at 1.5 times rated operating pressure in accordance with the latest ANSI standards. Testing is conducted between plates or end caps to ensure the most arduous conditions.

Is 100% Electrically Tested

All ElectroStop™ fittings undergo a electrical resistance and voltage test prior to shipping.

Is Completely Weld Inspected

All ElectroStop™ fittings undergo a weld inspection with combinations of ultrasonic (UT), magnetic partical (MT) and dye penetrant (LT) on all welds. In addition, X-ray tests can be conducted upon request.

Is Manufactured In Accordance With ISO 9001:2000 Quality Assurance

Control over all stages of production is ensured by close adherence to an in-place and on going ISO 9001:2000 quality assurance program which is constantly monitored and subject to periodic audit.

Steel Pipe (Standard)
(See Grade On Provided Charts)

Internal and External
Epoxy Coating
(Standard)

Buna N Seals
(Standard)

The
ElectroStopTM

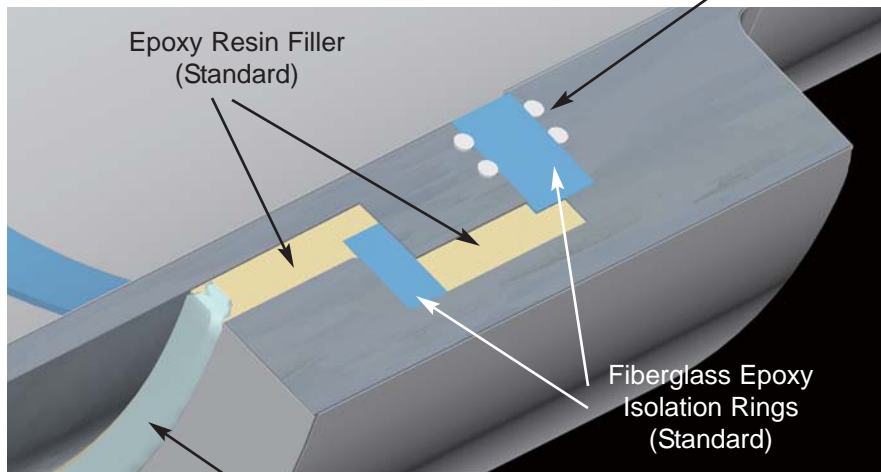
Monolithic Isolation Fitting Specification

Monolithic isolation fittings shall be boltless and completely factory assembled in accordance with the appropriate requirements of ASTM, API, DIN and BS codes. All welds shall be butt weld construction. The dielectric isolation material shall be a thermosetting fiberglass epoxy material. Sealing shall be by two (2) static, self energized "O" ring seals housed in accurately machined grooves, fully protected from cavitation in full compliance with ASME design codes. Interior and exterior coating shall be a two part epoxy with a thickness of 12 to 15 mils to within 2" of each end. Testing shall be Electrical (@5kv, 25 Mohm), Hydraulic (@ 1.5 x O.P.) and Weld (Ultrasonic/Magnetic Particle/Dye Penetrant).

The Monolithic Isolation Fitting shall be the ElectroStopTM Isolation Fitting as manufactured by Pipeline Seal & Insulator, Inc., Houston, Texas.

Quality Assurance

Each monolithic isolation fitting shall be manufactured at a facility that has a Registered ISO 9001:2000 Quality Management System. Copy of current ISO 9001:2000 Registration shall be provided with material submittal.



Epoxy Resin Filler
(Standard)

Fiberglass Epoxy
Isolation Rings
(Standard)

Sealant
(Standard)

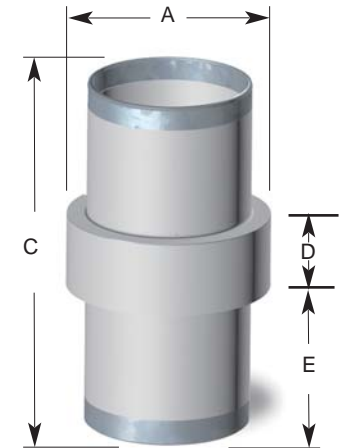


Pipeline Seal and Insulator, Inc.

6525 Goforth Street, Houston, TX 77021 U.S.A.
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Toll Free: 800-423-2410
www.pipeline-seal.com, e-mail: info@psipsi.com

150# ANSI CLASS (PN or DP 25)

NOMINAL DIAMETER Inches (mm)	WALL THICKNESS Inches (mm)	PIPE GRADE	DIMENSIONAL DATA - Inches (mm)				WEIGHT Lbs. (Kg)
			A	C	D	E	
1 (25.4)	0.13 (3.3)	B	2.68 (68.0)	27.50 (698.5)	2.99 (76.0)	11.94 (303.3)	6.6 (3.0)
2 (50.8)	0.15 (3.8)	B	3.86 (98.0)	27.50 (698.5)	3.15 (80.0)	11.66 (296.2)	11.4 (5.2)
3 (76.2)	0.22 (5.6)	B	4.92 (125.0)	27.50 (698.5)	3.62 (92.0)	11.50 (292.1)	24.2 (11.0)
4 (101.6)	0.24 (6.1)	B	6.10 (155.0)	27.50 (698.5)	3.84 (100.0)	11.40 (289.6)	35.9 (16.3)
6 (152.4)	0.28 (7.1)	B	8.50 (216.0)	27.50 (698.5)	5.12 (130.0)	11.10 (282.0)	65.3 (29.7)
8 (203.2)	0.32 (8.1)	B	10.59 (269.0)	27.50 (698.5)	5.75 (146.0)	10.85 (275.6)	101.2 (46.0)
10 (254.0)	0.37 (9.5)	B	12.60 (320.0)	31.50 (800.0)	6.22 (158.0)	12.70 (322.6)	151.8 (69.0)
12 (304.8)	0.41 (10.4)	B	13.54 (344.0)	39.33 (999.0)	6.30 (160.0)	16.52 (419.6)	242.0 (110.0)
14 (355.6)	0.31 (7.9)	B	16.50 (419.0)	23.62 (600.5)	7.48 (190.9)	8.07 (205.0)	220.0 (99.8)
16 (406.4)	0.34 (8.7)	B	18.82 (478.0)	35.43 (900.0)	8.27 (210.0)	13.58 (345.0)	386.9 (176.0)
18 (457.2)	0.31 (7.9)	B	20.83 (529.0)	31.50 (800.0)	8.82 (225.0)	11.34 (288.0)	338.8 (153.7)
20 (508.0)	0.37 (9.5)	B	22.83 (579.9)	39.37 (1000.0)	9.21 (234.0)	15.08 (383.0)	514.5 (233.4)
24 (609.6)	0.37 (9.5)	B	27.36 (695.0)	39.37 (1000.0)	10.79 (274.0)	14.29 (363.6)	704.0 (319.3)
26 (660.4)	0.37 (9.5)	B	28.90 (734.0)	39.37 (1000.0)	11.26 (286.0)	14.05 (356.9)	719.4 (326.3)
28 (711.2)	0.37 (9.5)	B	30.87 (784.0)	39.37 (1000.0)	11.65 (295.0)	13.95 (354.3)	783.2 (355.3)
30 (762.0)	0.37 (9.5)	B	33.07 (840.9)	39.37 (1000.0)	11.97 (304.0)	13.70 (348.8)	860.2 (390.2)
32 (812.8)	0.37 (9.5)	B	35.04 (890.0)	39.37 (1000.0)	12.36 (314.0)	13.50 (343.0)	939.4 (426.1)
36 (914.4)	0.37 (9.5)	B	38.98 (990.0)	47.24 (1199.9)	12.99 (330.0)	17.12 (434.8)	1174.8 (532.9)



150# ANSI CLASS (PN or DP 25)

150# ANSI Pressure Rating = 285 psi

ElectroStop Continuous Operating Pressure = 355 psi

Test Pressure = 540 psi

Working Temperature: Range = 14° F. to 212° F.
(-10° C. to 100° C.)

Electrical Resistance (Dry Air) = 25 Mohms @ 1kv D.C.

Breakdown Voltage (Dry Air) = 5kv @ 50Hz for 1 minute.

All data supplied is for standard fittings. Please contact factory for nominal diameters, pressures (up to 2500 ANSI), temperatures (up to 160° C, 320° F.) and electrical characteristics not shown. The information is subject to change at the manufacturer's discretion.

Warranty

All products are warranted against failure caused by manufacturing defects for a period of one year. Any product found to be so defective and returned within one year from date of shipment will be replaced without charge.

The above warranty is made in lieu of, and we disclaim, any and all other warranties, expressed or implied, including the warranties of merchantability and fitness for a particular purpose, and buyer agrees to accept the products without any such warranties.

We hereby disclaim any obligation or liability for consequential damages, labor costs or any other claims or liabilities of any kind whatsoever.

How To Order

To order ElectroStop™ monolithic isolation fittings, please indicate the following:

1. Quantity
2. Nominal Pipe Size
3. ANSI, DIN, API Pressure Class or Actual Working Pressure.
4. Pipe Grade
5. Wall Thickness
6. Temperature Limits
7. Product Conveyed
8. Contact your local distributor or Pipeline Seal and Insulator, Inc.

* Note: 100% X-Ray inspection available upon request.



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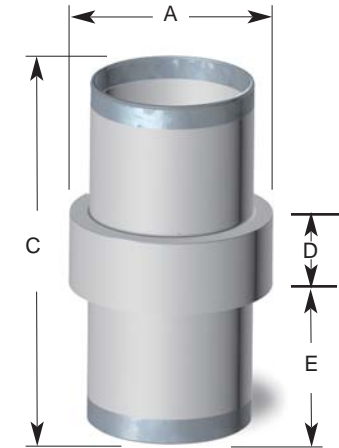
Toll Free: 800-423-2410

www.pipelinesal.com, e-mail: info@psipsi.com

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300-400# ANSI CLASS (PN or DP 64)

NOMINAL DIAMETER Inches (mm)	WALL THICKNESS Inches (mm)	PIPE GRADE	DIMENSIONAL DATA - Inches (mm)				WEIGHT Lbs. (Kg)
			A	C	D	E	
1 (25.4)	0.13 (3.3)	B	2.99 (75.9)	27.50 (698.5)	3.62 (92.0)	11.94 (303.3)	9.2 (4.2)
2 (50.8)	0.15 (3.8)	B	3.78 (96.0)	27.50 (698.5)	3.62 (92.0)	11.63 (295.4)	13.2 (6.0)
3 (76.2)	0.22 (5.5)	B	4.89 (127.0)	27.50 (698.5)	3.93 (100.0)	11.50 (292.1)	25.5 (11.6)
4 (101.6)	0.24 (6.1)	B	6.14 (156.0)	27.50 (698.5)	4.41 (112.0)	11.40 (289.6)	37.2 (16.9)
6 (152.4)	0.28 (7.1)	B	8.50 (216.0)	27.50 (698.5)	5.51 (140.0)	11.00 (279.4)	68.2 (31.0)
8 (203.2)	0.32 (8.1)	X52	10.63 (270.0)	27.50 (698.5)	6.30 (160.0)	10.60 (269.2)	127.6 (58.0)
10 (254.0)	0.37 (9.5)	X52	13.86 (352.0)	31.50 (800.0)	7.09 (180.0)	12.20 (309.9)	202.8 (92.0)
12 (304.8)	0.41 (10.4)	X52	15.91 (404.0)	39.33 (999.9)	8.03 (204.0)	15.67 (398.0)	319.0 (145.0)
14 (355.6)	0.37 (9.3)	X52	17.64 (448.0)	31.50 (800.0)	8.43 (214.0)	11.54 (293.0)	338.8 (153.7)
16 (406.4)	0.44 (11.2)	X52	19.49 (495.0)	39.37 (1000.0)	9.21 (234.0)	15.08 (383.0)	524.7 (238.0)
18 (457.2)	0.47 (12.0)	X52	21.50 (546.0)	31.50 (800.0)	10.24 (260.0)	10.63 (270.0)	519.2 (235.5)
20 (508.0)	0.50 (12.7)	X52	23.82 (605.0)	47.24 (1200.0)	10.79 (274.0)	18.22 (463.0)	778.2 (353.0)
24 (609.6)	0.50 (12.7)	X52	27.76 (705.0)	47.24 (1200.0)	12.76 (324.0)	17.24 (438.0)	998.7 (453.0)
26 (660.4)	0.56 (14.2)	X52	29.76 (756.0)	39.37 (1000.0)	13.23 (336.0)	13.07 (332.0)	1062.6 (482.0)
30 (762.0)	0.63 (16.0)	X52	34.61 (879.0)	47.24 (1200.0)	14.80 (376.0)	16.22 (412.0)	1676.4 (760.4)
36 (914.4)	0.75 (19.0)	X52	40.59 (1031.0)	51.18 (1300.0)	17.32 (440.0)	16.92 (429.8)	2481.6 (1125.7)



300-400# ANSI CLASS (PN or DP 64)

300# ANSI Pressure Rating = 740 psi

400# ANSI Pressure Rating = 990 psi

ElectroStop Continuous

Operating Pressure = 990 psi

Test Pressure = 1,500 psi

Working Temperature: Range = 14° F. to 212° F.
(-10° C. to 100° C.)

Electrical Resistance (Dry Air)
= 25 Mohms @ 1kv D.C.

Breakdown Voltage (Dry Air)
= 5kv @ 50Hz for 1 minute.

All data supplied is for standard fittings. Please contact factory for nominal diameters, pressures (up to 2500 ANSI), temperatures (up to 160° C, 320° F.) and electrical characteristics not shown. The information is subject to change at the manufacturer's discretion.

Warranty

All products are warranted against failure caused by manufacturing defects for a period of one year. Any product found to be so defective and returned within one year from date of shipment will be replaced without charge.

The above warranty is made in lieu of, and we disclaim, any and all other warranties, expressed or implied, including the warranties of merchantability and fitness for a particular purpose, and buyer agrees to accept the products without any such warranties.

We hereby disclaim any obligation or liability for consequential damages, labor costs or any other claims or liabilities of any kind whatsoever.

How To Order

To order ElectroStop™ monolithic isolation fittings, please indicate the following:

1. Quantity
2. Nominal Pipe Size
3. ANSI, DIN, API Pressure Class or Actual Working Pressure.
4. Pipe Grade
5. Wall Thickness
6. Temperature Limits
7. Product Conveyed
8. Contact your local distributor or Pipeline Seal and Insulator, Inc.

* Note: 100% X-Ray inspection available upon request



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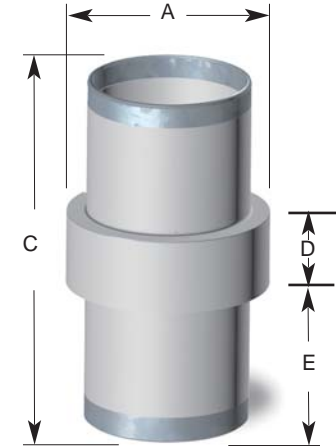
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600# ANSI CLASS (PN or DP 100)

NOMINAL DIAMETER Inches (mm)	WALL THICKNESS Inches (mm)	PIPE GRADE	DIMENSIONAL DATA - Inches (mm)				WEIGHT Lbs. (Kg)
			A	C	D	E	
1 (25.4)	0.13 (3.3)	B	2.99 (75.9)	27.50 (698.5)	3.62 (91.9)	11.94 (303.3)	9.2 (4.2)
2 (50.8)	0.15 (3.8)	B	4.33 (110.0)	27.50 (698.5)	4.25 (108.0)	11.63 (295.4)	16.7 (7.6)
3 (76.2)	0.22 (5.6)	B	5.91 (150.0)	27.50 (698.5)	4.57 (116.0)	11.50 (292.1)	33.0 (15.0)
4 (101.6)	0.24 (6.1)	B	6.89 (175.0)	27.50 (698.5)	5.12 (130.0)	11.20 (284.5)	44.0 (20.0)
6 (152.4)	0.28 (7.1)	X52	9.45 (240.0)	27.50 (698.5)	5.91 (150.0)	10.80 (274.3)	81.4 (37.0)
8 (203.2)	0.32 (8.1)	X52	11.57 (294.0)	27.50 (698.5)	7.01 (178.0)	10.25 (260.4)	138.6 (63.0)
10 (254.0)	0.36 (9.1)	X52	13.86 (352.0)	31.50 (800.0)	8.03 (204.0)	11.70 (297.2)	220.5 (100.0)
12 (304.8)	0.41 (10.4)	X52	15.91 (404.0)	39.33 (1000.0)	8.82 (224.0)	15.25 (387.4)	363.0 (165.0)
14 (355.6)	0.37 (9.4)	X52	17.83 (453.0)	31.50 (800.0)	9.84 (250.0)	10.83 (275.0)	389.4 (176.6)
16 (406.4)	0.44 (11.2)	X52	19.76 (502.0)	39.53 (1000.0)	10.79 (274.0)	14.29 (363.0)	568.8 (258.0)
18 (457.2)	0.47 (11.9)	X52	21.73 (552.0)	31.50 (800.0)	11.81 (300.0)	9.84 (250.0)	587.4 (266.4)
20 (508.0)	0.50 (12.7)	X52	23.98 (609.0)	47.24 (1200.0)	12.68 (322.0)	17.28 (438.0)	864.2 (392.0)
24 (609.6)	0.50 (12.7)	X52	29.34 (745.0)	47.24 (1200.0)	14.09 (357.9)	16.58 (421.0)	1289.6 (585.0)
26 (660.4)	0.56 (14.2)	X52	30.83 (783.0)	47.24 (1200.0)	15.20 (386.0)	16.00 (407.0)	1467.4 (665.6)
30 (762.0)	0.63 (16.0)	X52	35.71 (907.0)	51.18 (1300.0)	16.77 (426.0)	17.20 (437.0)	2151.6 (976.0)
36 (914.4)	0.75 (19.0)	X52	42.52 (1072.0)	51.18 (1300.0)	19.37 (492.0)	15.90 (403.9)	3306.6 (1500.0)



600# ANSI CLASS (PN or DP 100)

600# ANSI Pressure Rating = 1,480 psi

ElectroStop Continuous Operating

Pressure = 1,480 psi

Test Pressure = 2,225 psi

Working Temperature Range

= 14° F. to 212° F.

(-10° C. to 100° C.)

Electrical Resistance (Dry Air)

= 25 Mohms @ 1kv D.C.

Breakdown Voltage (Dry Air)

= 5kv @ 50Hz for 1 minute.

All data supplied is for standard fittings. Please contact factory for nominal diameters, pressures (up to 2500 ANSI), temperatures (up to 160° C, 320° F.) and electrical characteristics not shown. The information is subject to change at the manufacturer's discretion.

Warranty

All products are warranted against failure caused by manufacturing defects for a period of one year. Any product found to be so defective and returned within one year from date of shipment will be replaced without charge.

The above warranty is made in lieu of, and we disclaim, any and all other warranties, expressed or implied, including the warranties of merchantability and fitness for a particular purpose, and buyer agrees to accept the products without any such warranties.

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How To Order

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1. Quantity
2. Nominal Pipe Size
3. ANSI, DIN, API Pressure Class or Actual Working Pressure.
4. Pipe Grade
5. Wall Thickness
6. Temperature Limits
7. Product Conveyed
8. Contact your local distributor or Pipeline Seal and Insulator, Inc.

* Note: 100% X-Ray inspection available upon request



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PSI ElectroStop®

STANDARD DESIGN SPECIFICATIONS:

ElectroStop fittings provide permanent electrical isolation of piping sections, facilitating the management of a cathodic protection system.

These fittings will be completely factory assembled.

Design Features

- A low uniform profile enhances ease of handling and field coating or tape wrapping.
- Fittings can be welded into the pipeline above grade, utilizing standard pipeline welding procedures, then lowered into the trench by a sling.
- There is a natural heat sink to dissipate circumferential weld heat during installation.
- They are tamper proof and maintenance free after installation.
- Each fitting will be the following minimum length which will include the insulating mechanism and pipe pups.

Nominal Diameter Inches (cm)	Minimum Length Inches (cm)	Nominal Diameter Inches (cm)	Minimum Length Inches (cm)	Nominal Diameter Inches (cm)	Minimum Length Inches (cm)
2" (5.1)	27.5" (69.9)	12" (30.5)	27.5" (69.9)	36" (91.4)	58" (147.3)
3" (7.6)	27.5" (69.9)	16" (40.7)	35.4" (89.9)	40" (101.6)	58" (147.3)
4" (10.2)	27.5" (69.9)	20" (50.8)	39.4" (100.1)	42" (106.7)	58" (147.3)
6" (15.2)	27.5" (69.9)	24" (61.0)	39.4" (100.1)	46" (116.8)	66" (167.6)
8" (20.3)	27.5" (69.9)	30" (76.2)	48" (121.9)	48" (121.9)	66" (167.6)
10" (25.4)	27.5" (69.9)	32" (81.3)	58" (147.3)		

- The minimum bore of each fitting will be equal to the standard bore tolerances of the pipe in which it will be installed.
- Each fitting uses a method of closure that will positively maintain a pre-stressed load on the insulation section that is in excess of the end loading forces at test pressure. This is accomplished by weld closure.
- The insulating member will be fiberglass reinforced thermosetting epoxy resin. The sealing gasket will be Butadiene/Acrylonitrile rubber according to ASTM D2000.

MANUFACTURE AND MATERIAL SPECIFICATIONS:

Manufacture

- The ElectroStop fittings described in this proposal will be manufactured to meet the material and manufacturing requirements established in the specification.
- These fittings will be manufactured in accordance with the most recent applicable ANSI, API, DIN or JIS standards as specified. The qualification of welders, their examination and registration will be conducted according to API 1104 or DIN 8560. All welding processes and procedures will be performed in accordance with API 1104 or DIN 8560.
- Welding Procedure: The forging of these fittings will be connected to the pipe pups by welds whose root passes are deposited by the manual inert gas (MIG) arc welding process. The balance of welds will be made by submerged arc process.

Material Specifications

- All steel components supplied by the manufacturer and used in the fabrication of these fittings will meet the customer's requirements. This compliance will be validated by the submission of Mill Certificates giving the chemical and physical properties, if requested.
- The sealing elements will be fabricated from Butadiene/Acrylonitrile Rubber.
- The insulating gasket will be stratified epoxy resin with fiberglass or an equal material.
- Both interior and exterior coatings will be 2-part epoxy.

TEST PROCEDURES:

All testing will be performed in accordance with the requirements of this specification. The manufacturer will supply certifying documentation to substantiate this fact, if requested.

Steel Parts

All steel components supplied by the manufacturer and used in the fabrication of these fittings will conform to ANSI, API, DIN or JIS standards substantiated by the submission of mill certificates listing physical and chemical properties, if requested.

Dimensional Verifications

All critical dimensions will be according to the drawings approved by the customer. These dimensions will be checked and approved during production by responsible supervisory personnel of the manufacturer. Variances from the agreed dimensions will be committed to drawings and these variances will be subject to the approval of the customer's inspector.

Weld Procedure

Will conform to ASME Section 9.

Radiographic Testing

The manufacturer will have a qualified inspector confirm the results and pass approval on the non-destructive radiography tests at the time of their completion. All radiographs will be delivered to the customer's engineering department coinciding with the fittings' shipment by the manufacturer, if requested and if applicable.

Ultrasonic, Die Penetrant, MAG Particle Testing

The weld end of the fittings will be ultrasonically tested to confirm the absence of laminations in the weld ends. The weld ends of the fittings will be submitted to die penetrant tests to confirm the absence of porosity in the weld ends. The manufacturer will have a qualified inspector confirm and approve the results of the nondestructive ultrasonic and die penetrant test and deliver these test results records to the customer's engineering department at the time the fittings are shipped, if requested and if applicable.

Hydrostatic Testing

The manufacturer will conduct a hydrostatic test on each unit at a pressure of 1.5 times the maximum, non-shock, service pressure ratings in accordance with ANSI B16.5. All hydrostatic tests will be performed so that the fittings are unrestrained and their ends are capped.

We certify that each ElectroStop will be factory tested at 1.5 times rated operating pressure for the amount of time listed below.

Pipe Size Inches (cm)	Hydrostatic Minimum Test Time
Up to 3" (7.6)	15 Minutes
4" (10.2)	15 Minutes

6" (15.2) to 8" (20.3)	1 Hour
10" (25.4) to 16" (40.6)	2 Hours
20" (50.8) to 24" (61.0)	12 Hours
Above 24" (61.0)	As required by each specification.

The manufacturer will have a qualified inspector witness, certify and pass approval on the results. The certifications will be supplied to the customer's engineering department at the time the fittings are shipped, if requested and if applicable.

Electrical Testing

Electrical resistance in dry air will not be lower than 25 Mohms. Breakdown voltage in dry air will not be lower than 5 Kilovolts. The electrical resistance of standard insulating joints is guaranteed to be greater than the value obtained from the following formula:

$$R = P (L-20)/S \text{ Ohm}$$

in which: **P = Water resistivity in Ohm - centimeters.**

L = Overall length of joint in centimeters.

S = Cross sectional area of joint in square centimeters.

The manufacturer will have a qualified inspector witness, certify and pass approval on the results. The certificates will be delivered to the customer's engineering department at the time the fittings are shipped, if requested and if applicable.

Visual Inspection

All surfaces will be free of nicks, dents, gouges, laminations, arc burns and other visible surface defects. Grinding to remove these defects is permissible but no reduction below the specified nominal wall thickness will be allowed. This will be verified by ultrasonic testing.

NOTES:

1. The 150# ANSI Class ElectroStop is designed to operate continuously at 355 psi and tested at over 1.5 times that value. Many other 150# ANSI Class fittings are only designed to operate at 285 psi.
2. The 300# ANSI Class ElectroStop meets the 400# ANSI class rating. It can operate continuously at 990 psi and is tested at 1500 psi.
3. The 400# - 2500# ANSI Class ElectroStops are rated at the maximum continuous operating pressure listed for these class fittings.
4. During construction, each ElectroStop is end loaded to assure a monolithic action in actual field conditions.

Custom Orders

Custom ordered ElectroStops are available for unique installations with specific requirements such as products, temperatures, materials and conditions. Custom orders are manufactured to meet the customer's requirements in grades of steel or stainless steel, seal element and electrical isolation materials.