

Standard Materials Specifications

Pipe and fittings manufactured by Resistoflex are in full compliance with:

ASTM F1545, Standard Specification for Plastic-Lined Ferrous Metal Pipe, Fittings, and Flanges as follows

- Resistoflex purchases approved ASTM designations of resin used to manufacture liner
- Resistoflex uses approved ASTM designations of materials of construction of housings and flanges
- Resistoflex meets or exceeds minimum dimensional requirements
- Resistoflex meets qualification testing requirements, including steam/cold water, temperature aging, and vacuum testing
- Resistoflex performs proof-testing on 100% of finished goods using approved procedures

Resistoflex products also meet the following specifications/requirements:

Liners:	PTFE — Polytetrafluoroethylene, ASTM D4894 and D4895 PFA — Perfluoroalkoxy, ASTM D3307 PVDF — Polyvinylidene Fluoride, ASTM D3222 and D5575 PP — Polypropylene, ASTM D4101								
Pipe:	<u>Thermalok:</u> 1" through 4" size, Sch. 40 Carbon Steel per ASTM A587 ERW 6" - 8" size, Sch. 40 Carbon Steel per ASTM A53 ERW, Grade B Type E 10" size PTFE Full Vacuum = Sch. 30 Carbon Steel per ASTM A53 ERW, Grade B Type E 12" size PTFE Full Vacuum = Sch. 20 Carbon Steel per ASTM A53 ERW, Grade B Type E 10" - 12" size PTFE Non-Vacuum and PP = Sch. 30 Carbon Steel per ASTM A53 ERW, Grade B Type E <u>Swaged:</u> 1" through 6" size, Sch. 40 Carbon Steel per ASTM A513 ERW 8" size, Sch. 30 Carbon Steel per ASTM A513 ERW								
Flanges:	Lap-joint, 1" through 12" size, Ductile Iron ASTM A395, dimensions per ANSI B16.42 Class 150 Lap-joint, 1" through 12" size, Forged Steel ASTM A105, dimensions per ANSI B16.5 Class 150 Threaded (for Swaged pipe), 1" - 8" size, Forged Steel ASTM A105, dimensions per ANSI B16.5 Class 150								
Fittings:	Fabricated Carbon Steel: Components per ASTM A587, A53 and/or A234 Cast Fittings: Ductile Iron Casting (60-40-18) per ASTM A395 or Cast Steel per ASTM A216 Gr. WCB Fittings Flange Material: Ductile Iron Casting (60-40-18) per ASTM A395 or Cast Steel per ASTM A216 Gr. WCB or Forged Steel per ASTM A105 Fittings flanges are rotating lap joint or fixed as specified in the Design Guide. Standard fittings dimensions per ANSI B16.5 Class 150.								
Fabrication:	Pipe and Fittings Tolerances: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th style="text-decoration: underline;">Dimension</th> <th style="text-decoration: underline;">Tolerance, in.</th> </tr> </thead> <tbody> <tr> <td>Length and Centerline Dimensions</td> <td>± 1/8"</td> </tr> <tr> <td>Fixed Flange Bolt Hole Alignment</td> <td>± 1/16"</td> </tr> <tr> <td>Flange Perpendicularity (with Pipe Centerline)</td> <td>3/32 in/ft of nom. pipe diameter</td> </tr> </tbody> </table>	Dimension	Tolerance, in.	Length and Centerline Dimensions	± 1/8"	Fixed Flange Bolt Hole Alignment	± 1/16"	Flange Perpendicularity (with Pipe Centerline)	3/32 in/ft of nom. pipe diameter
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Crane Resistoflex
One Quality Way
Marion, NC 28752

Tel: 828-724-4000
Fax: 828-724-4783
www.resistoflex.com