

1.0 SCOPE

This specification covers requirements for a FRP Wye (Y) Strainers used in chemical piping systems that require continuous contact with corrosive fluids operating at elevated temperature and pressures.

2.0 STRAINER DESIGN

- 2.1 Strainer type shall be oversized flanged wye.
- 2.2 Basket shall be PVDF, Perforations 1/8" on 3/16" centers.
- 2.3 Minimum area ratio of pipe to basket shall be 10 to 1.
- 2.4 Cover shall have 1/2" minimum drain/blowdown port.
- 2.5 Strainer shall be hydrostatic tested at 110% of pressure rating.
- 2.6 Maximum operating temperature (limited based on fluid chemical properties):
 - 2.6.1 Max operating temperature shall be 180F will be Derakane 411, Hetron 922 or equal.
 - 2.6.2 Max operating temperature shall be 220F will be Derakane 470, Hetron 970 or equal.
- 2.7 Flanges shall be ASME/ANSI 16.5 Class 150 manufactured per ASTM D5421.
- 2.8 Flange bolt holes are spot faced and coated with resin.
- 2.9 Gaskets shall be EPDM or specified for fluid compatibility.

3.0 CONSTRUCTION

- 3.1 The body shall have a 100 mil chemical resistant liner with 10% glass content, an anti-wicking layer of chopped mats with 25% glass content, and a structural filament wound layer with 65% glass content.
- 3.2 Strainer body shall be vinyl ester FRP filament wound pipe per ASTM-D2996 with joint overlay of greater strength.
- 3.3 Exterior coating shall have a minimum 10 mil layer of unsaturated polyester resin based, high quality gel coat with UV protective inhibitors to maximize service life.

4.0 MANUFACTURER

Manufacturer shall have minimum five year service history in industry.

Manufacturer shall maintain as-built dimensions of each strainer.

Manufacturer shall be ISO 9001:2015 Certified.

Manufacturer shall supply minimum one year warranty on covers, baskets, and gaskets to cover defect in material or workmanship.

Manufacturer shall supply minimum five year warranty on FRP shell to cover defect in material or workmanship.

Known Approved manufacturers

- 4.6.1. Stayflow Model YFF www.stayflowproducts.com



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