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Stocked in multiple locations in the US and Canada  
Standard 200 mil corrosion barrier  
Complies with ASME NM.2  
Complies with ASTM D5421 and ASTM D6041  
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Typical Applications:  
strong acids, brine solutions  
pulping liquors, chlorinated solutions  
oxidizing agents  
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## Specifications

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Resin: INEOS DERAKANE™ 510N (Brominated Epoxy Novolac Vinyl Ester)

Glass: 'ECR' Glass

Pressure Rating: 150 psi (10 BAR), testing per ASTM D1599

Maximum Test Pressure: 225 psi (15 BAR)

Surfacing Veil: C veil

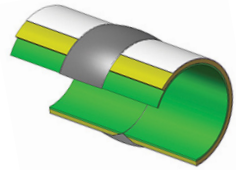
Temperature Range: -40°F (-40°C) to 220°F (104°C)



- H-150-200 piping systems with a continuous operating temperature above 210°F (99°C) should be evaluated by RPS engineering to determine if the process conditions are acceptable.
- All pipe, flanges, and fittings have a 200 mil corrosion barrier comprising two layers of veil (chemical barrier) and four layers of chopped strand glass (anti-wicking barrier).
- Manufactured via combination of contact molding and filament winding. Available in sizes 1" - 120" diameter. Refer to our *Pipe Fitting and Dimensions Catalog* for dimensions.
- External resin coating containing paraffin and ultraviolet absorbers to assure proper surface cure and inhibit ultraviolet light degradation.
- Minimum Barcol hardness of 90% of resin manufacturer's specified value.
- Flanges available in either full face FRP or lap joint style. Drilling in accordance with ASME B16.5 Class 150.
- All pipe and fittings manufactured under a formal QA program based on Quality Assurance Standard ISO 9001:2015.
- All pipe and fittings shall be shop or field assembled using straight butt joints.

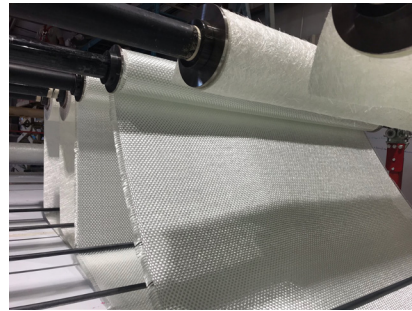
# Specifications

## Butt & Wrap Joints



- Available in all liner systems and pressure ratings.
- Pipe and fitting ends are sanded to prepare a good bonding surface. Components are aligned, “butted” together, and sealed with resin. A “wrap” is applied to permanently bond the components. The “wrap” is made up of layers of glass reinforcement saturated with resin.
- A variety of butt joint designs are available depending on the service conditions. These include straight, tapered, and edge capped.

Detailed joining instructions are available in our *Installation Manual* at [rpscomposites.com/resources/company-literature](https://rpscomposites.com/resources/company-literature)



## RPS H-150-200 Pipe Dimensions

Pipe Size	Inside Diameter	Liner Thickness	Structure Thickness	Total Thickness	Outside Diameter	Weight
(in)	(in)	(in)	(in)	(in)	(in)	(lbs/ft)
1	1.00	0.22	0.08	0.30	1.60	0.9
1.5	1.50	0.22	0.08	0.30	2.10	1.5
2	2.00	0.22	0.08	0.30	2.60	1.9
3	3.00	0.22	0.08	0.30	3.60	2.7
4	4.00	0.22	0.095	0.32	4.63	3.8
6	6.00	0.22	0.13	0.35	6.70	6.0
8	8.00	0.22	0.17	0.39	8.78	8.9
10	10.00	0.22	0.21	0.43	10.86	12.1
12	12.00	0.22	0.26	0.48	12.96	16.2

<b>H-150-200 Maximum Recommended Support Spacing at 150 psi</b>				
NPS (in)	Single Span		Continuous Span	
	SG = 1.0	SG = 1.3	SG = 1.0	SG = 1.3
1	6.9	6.7	10.3	10
1.5	7.6	7.3	11.4	10.9
2	8.2	7.9	12.2	11.7
3	9.1	8.7	12.8	11.8
4	10.2	9.7	13.4	12.2
6	12.2	11.3	15.2	13.8
8	14.1	12.9	17.4	15.8
10	15.7	14.3	19.2	17.4
12	17.3	16.3	21.8	20

Notes:

1. Based on  $DF = 6$  and maximum deflection = 0.5"
2. Support spacings apply up to 180°F (82°C). At 220°F (104°C), derate spacings by factor of 0.9.
3. Loads include internal pressure and weight of pipe and contents.



# Specifications

Collapse Pressure of H-150-200 Pipe		
NPS (in)	Collapse Pressure (psi)	
	180°F (82°C)	220°F (104°C)
1	1295	1166
1.5	512	461
2	252	227
3	88	79
4	66	60
6	54	48
8	52	47
10	51	46
12	57	51

**Note:**

For sustained exposure to external pressure (e.g. vacuum), a design factor of at least 4 should be used as required by ASME NM.2.

## Pipe Supports

RPS offers a full line of pipe supports specifically designed to match RPS H-150-200 pipe. Refer to the *RPS Pipe Supports Catalog* at [rpscomposites.com/resources/company-literature](http://rpscomposites.com/resources/company-literature).

## Thermal Expansion

For recommendations on accommodating thermal expansion, refer to *RPS Design Manual*. For information on conducting a pipe stress analysis of H-150-200 piping, refer to *RPS Doc. No. E-880*, available from our Engineering Department.



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