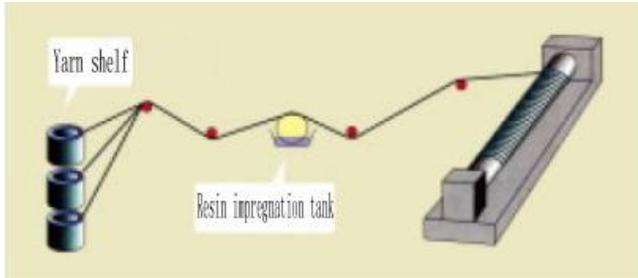


Process description

Filament wound FRP pipe is made through the process of winding glass roving on a mandrel with resin impregnation. Light weight pipe with excellent insulating or mechanical strength property can be produced.

Manufacturing process



Product specifications (see table)

Our company produces FRP process pipe diameter 25mm-4000mm, the length have 6m, 10m, 12m, the temperature range generally is between -40℃~80℃.

Characteristics

- Cold resistance: in a frozen environment, pipe will not be cracking.
- Corrosion resistance: client can choose different corrosion-resistant pipe for different media.
- Pressure: design and fabricate the pipe depend on process required pressure, the liquid filling test pressure is 1.5 times of design pressure.
- Heat resistance: high temperature resistant.
- Good insulation: after development, it can eliminate static electricity.
- Good flame resistance: after development, it can be self-extinguishing inflaming retarding and flame repellent.
- Perfect transparent performance: after development, it can be colorful.
- Good heat insulation: after development, thermal conductivity can be improved.
- Non-toxic: it can be used for transmitting drinking water.

Applications

FRP process pipe which is characterized by performance in the $n \leq 0.0084$ has a very smooth wall, so that the fluid transport pressure loss is very low, therefore, compare with traditional pipe, we can choose smaller diameter pipe or lower pump to transmit same flow. For long distance transmission, large diameter pipe can also reduce the cost of installation, insulation, anti-corrosion and maintenance; this is the reason FRP process pipe has a good reputation of energy saving.

Connection method

- * Socket-spigot joint with single seal ring.
- * Socket-spigot joint with double seal rings.
- * Socket-spigot joint with glueing.
- * Butt joint.
- * Flanged joint.

Product specifications					
DN (mm)	0.6MPa	1.0MPa	1.6MPa	2.5MPa	L (m)
	T (mm)	T (mm)	T (mm)	T (mm)	
25	4.5	4.5	4.5	4.5	1
32	4.5	4.5	4.5	4.5	1
40	4.5	4.5	4.5	4.5	1
50	4.5	4.5	4.5	4.5	3
65	4.5	4.5	4.5	5.5	3
80	4.5	4.5	4.5	5.5	6
100	4.5	4.5	5.5	5.5	6
125	5	5	5.6	6.5	6
150	5	5.5	6	7.5	6
200	5.5	6	6.5	8	6
250	6	6.5	6.5	9.5	6
300	6.5	7	7	10.5	12
350	6.5	7	7.5	11.5	12
400	7	7.5	8	14	12
450	7	7.5	8	15	12
500	7.5	8	9	16	12
600	8.5	9	12	19	12
700	9	11	14	22	12
800	9.5	12.5	16	23.5	12
900	10.5	14	17.5	25	12
1000	12	15	19	27	12
1200	13				12
1400	16				12
1500	17				12
1600	18				12
1800	20				12
2000	23				12
2200	24				12
2500	27.5				12
2600	28.6				12
2800	30.2				12
3000	32.5				12
3400	35.9				12
3600	37.9				12
4000	39.8				12

Installation and construction procedure (Socket-spigot joint with double seal rings)

