

## Process description

FRP tank is controlled by computer, and the inner lining layer (such as anti-corrosion inner lining layer) is made according to the requirements on the mandrel. After gelation according to specified linetype and thickness to winding the structural layer, finally to make the protective layer.

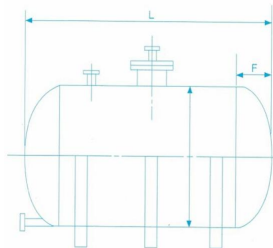
## Characteristics

- **Light weight:** the density of FRP 1.5~1.9G/CM<sup>3</sup>, 1/4 of steel's, but higher strength.
- **Corrosion resistant:** select different resins as per the variety of the media, such as acid, alkaline, salt, oil and solvent. FRP can be used in every chemical corrosion resistance area; it can replace the stainless steel, nonferrous metal etc., and decline the cost.
- **Smooth inner surface:** easy to clean, the roughness coefficient is N=0.0084, Has good sanitary property, can resist the corrosion of animalcule. if choose the Food grade resin, the FRP products can meet the requirement of sanitation without toxicity and without taste.
- **Good property against the low temperature:** FRP can be used in minus 80°C, suitable for the cold area.
- **The thermal expansion factor** is  $2 \times 10^{-5}/^{\circ}\text{C}$ , the thermal conductivity is 0.2Kcal/(m<sup>2</sup>·h·°C), has good thermal insulation property.
- **Easy to shape, convenience to maintenance:** especially easy to make the complicated equipment, the large-scale vessel can be winding at jobsite.

## Applications

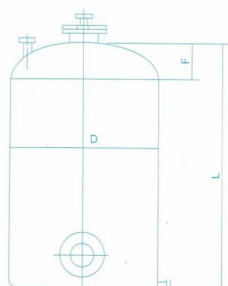
FRP tanks are widely used in chemical, petroleum, paper, pharmaceutical, food, electronics, packaging and transportation field. Applicable to all kinds of acid, alkali, salt and organic solvent corrosion environment.

## Horizontal tank specification



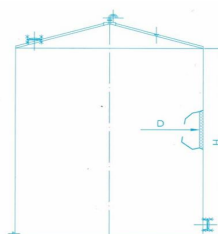
| L \ D | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2600 | 3000  |
|-------|------|------|------|------|------|------|------|------|-------|
| M3    |      |      |      |      |      |      |      |      |       |
| 1     | 1460 |      |      |      |      |      |      |      |       |
| 2     | 2370 | 1990 | 1550 |      |      |      |      |      |       |
| 3     | 4010 | 2870 | 2200 |      |      |      |      |      |       |
| 4     |      | 3760 | 2850 | 2280 |      |      |      |      |       |
| 5     |      |      | 3500 | 2770 |      |      |      |      |       |
| 6     |      |      |      | 3270 |      |      |      |      |       |
| 7     |      |      |      | 3770 |      |      |      |      |       |
| 8     |      |      |      | 4270 | 3460 |      |      |      |       |
| 9     |      |      |      | 4760 | 3860 |      |      |      |       |
| 10    |      |      |      | 5260 | 4250 | 3540 |      |      |       |
| 11    |      |      |      | 5760 | 4640 | 3850 |      |      |       |
| 12    |      |      |      | 6260 | 5040 | 4170 | 3540 |      |       |
| 15    |      |      |      |      | 6120 | 5130 | 4330 |      |       |
| 18    |      |      |      |      | 7390 | 6080 | 5120 |      |       |
| 20    |      |      |      |      | 8180 | 6720 | 5650 | 4220 |       |
| 25    |      |      |      |      |      | 8310 | 6960 | 5160 | 4100  |
| 30    |      |      |      |      |      |      | 8280 | 6100 | 4800  |
| 35    |      |      |      |      |      |      |      | 7050 | 5510  |
| 40    |      |      |      |      |      |      |      | 7990 | 6220  |
| 50    |      |      |      |      |      |      |      | 9870 | 7630  |
| 60    |      |      |      |      |      |      |      |      | 9050  |
| 70    |      |      |      |      |      |      |      |      | 10460 |
| 80    |      |      |      |      |      |      |      |      | 11880 |

## Vertical tank specification



| L \ D | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2600 | 3000  | 4000  |
|-------|------|------|------|------|------|------|------|------|-------|-------|
| M3    |      |      |      |      |      |      |      |      |       |       |
| 1     | 1370 |      |      |      |      |      |      |      |       |       |
| 2     | 2650 | 1890 | 1440 |      |      |      |      |      |       |       |
| 3     |      | 2720 | 2080 |      |      |      |      |      |       |       |
| 4     |      | 2660 | 2730 | 2140 |      |      |      |      |       |       |
| 5     |      |      | 3380 | 2640 |      |      |      |      |       |       |
| 6     |      |      |      | 3140 |      |      |      |      |       |       |
| 7     |      |      |      | 3640 |      |      |      |      |       |       |
| 8     |      |      |      | 4140 | 3320 |      |      |      |       |       |
| 9     |      |      |      | 4630 | 3700 |      |      |      |       |       |
| 10    |      |      |      | 5140 | 4090 | 3370 |      |      |       |       |
| 11    |      |      |      | 5640 | 4490 | 3690 |      |      |       |       |
| 12    |      |      |      |      | 4880 | 4010 | 3360 |      |       |       |
| 15    |      |      |      |      | 6060 | 4960 | 4150 |      |       |       |
| 18    |      |      |      |      | 7240 | 5920 | 4940 |      |       |       |
| 20    |      |      |      |      | 8030 | 6550 | 5460 | 4000 |       |       |
| 25    |      |      |      |      |      | 8140 | 6780 | 4950 | 3840  |       |
| 30    |      |      |      |      |      |      | 8100 | 5890 | 4550  |       |
| 35    |      |      |      |      |      |      |      | 6880 | 5260  |       |
| 40    |      |      |      |      |      |      |      | 7770 | 5970  |       |
| 50    |      |      |      |      |      |      |      | 9650 | 7390  | 4340  |
| 60    |      |      |      |      |      |      |      |      | 8790  | 5140  |
| 70    |      |      |      |      |      |      |      |      | 10210 | 5940  |
| 80    |      |      |      |      |      |      |      |      | 11630 | 6740  |
| 90    |      |      |      |      |      |      |      |      |       | 7540  |
| 100   |      |      |      |      |      |      |      |      |       | 8340  |
| 110   |      |      |      |      |      |      |      |      |       | 9140  |
| 120   |      |      |      |      |      |      |      |      |       | 9940  |
| 130   |      |      |      |      |      |      |      |      |       | 10740 |
| 140   |      |      |      |      |      |      |      |      |       | 11540 |
| 150   |      |      |      |      |      |      |      |      |       | 12340 |

## Field winding tank



| L \ D | 5500 | 6000 | 7000 | 8500 | 1800 | 10000 | 12000 | 15000 | 20000 |
|-------|------|------|------|------|------|-------|-------|-------|-------|
| M3    |      |      |      |      |      |       |       |       |       |
| 200   | 1460 |      |      |      |      |       |       |       |       |
| 300   | 2370 | 1990 | 1550 |      |      |       |       |       |       |
| 400   | 4010 | 2870 | 2200 |      |      |       |       |       |       |
| 500   |      | 3760 | 2850 | 2280 |      |       |       |       |       |
| 600   |      |      | 3500 | 2770 |      |       |       |       |       |
| 700   |      |      |      | 3270 |      |       |       |       |       |
| 800   |      |      |      | 3770 |      |       |       |       |       |
| 900   |      |      |      | 4270 | 3460 |       |       |       |       |
| 1000  |      |      |      | 4760 | 3860 |       |       |       |       |
| 1200  |      |      |      | 5260 | 4250 | 3540  |       |       |       |
| 1400  |      |      |      | 5760 | 4640 | 3850  |       |       |       |
| 1600  |      |      |      | 6260 | 5040 | 4170  | 3540  |       |       |
| 1800  |      |      |      |      | 6120 | 5130  | 4330  |       |       |
| 2000  |      |      |      |      | 7390 | 6080  | 5120  |       |       |
| 2200  |      |      |      |      | 8180 | 6720  | 5650  | 4220  |       |
| 2400  |      |      |      |      |      | 8310  | 6960  | 5160  | 4100  |
| 2500  |      |      |      |      |      |       | 8280  | 6100  | 4800  |