

## fibrewound pressure tanks

*Signature*  
**2000**



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### FIBREWOUND PRESSURE TANKS

*Built Tough... for Quality*  
Every Signature 2000® tank utilizes a durable, FDA approved air cell which is resistant to chlorine and will not promote taste or odor problems associated with iron bacteria that may be present in the water supply.

*Built Tough... for Durability*  
Each tank is wrapped with more than three miles of over-lapping, continuous fiberglass strands, sealed with high grade epoxy resin, then oven cured. Tough composite construction means longer lasting tanks that will not rust, corrode, dent or scratch.

*Built Tough... for Easy Installation and Service*  
Not only is composite construction tougher, it's also more lightweight... as little as half the weight of steel tanks. Installation is faster, easier and can be handled by one person. Repairable with the tank installed.

UL Classified to ANSI/NSF 61, Drinking Water System Components



### ORDERING INFORMATION

| Catalog Number | Max. Capacity gal/liter | Diameter inch/cm | Height inch/cm | Service Clearance inch/cm | Precharge PSI/kPa | Connection Size Female | Connection Material | Drawdown in Gallons/Liters |            |            | Weight lbs/kg |
|----------------|-------------------------|------------------|----------------|---------------------------|-------------------|------------------------|---------------------|----------------------------|------------|------------|---------------|
|                |                         |                  |                |                           |                   |                        |                     | 20-40                      | 30-50      | 40-60      |               |
| SR20-6S        | 20/76                   | 16/41            | 36/92          | 48/122                    | 40/276            | 1" NPT                 | Stn. Stl.           | 6.9/26.2                   | 5.9/22.4   | 5.2/19.7   | 25/11         |
| SR35-10S       | 35/133                  | 20/51            | 39.5/101       | 51/130                    | 40/276            | 1" NPT                 | Stn. Stl.           | 12.1/46.0                  | 10.3/39.1  | 9.0/34.2   | 40/18         |
| SR40-12S       | 40/151                  | 16/41            | 60.5/154       | 80/201                    | 40/276            | 1" NPT                 | Stn. Stl.           | 13.8/52.2                  | 11.8/44.7  | 10.3/39.0  | 36/16.3       |
| SR48-14S       | 48/182                  | 20/51            | 50.25/128      | 69/175                    | 40/276            | 1" NPT                 | Stn. Stl.           | 16.5/62.5                  | 14.2/53.8  | 12.4/46.9  | 41/18.6       |
| SR60-18        | 60/228                  | 24/61            | 45.75/117      | 58/148                    | 40/276            | 1-1/4" NPT             | Stn. Stl.           | 20.7/78.6                  | 17.7/67.2  | 15.5/58.9  | 60/27         |
| SR85-25        | 85/323                  | 24/61            | 59.5/152       | 78/199                    | 40/276            | 1-1/4" NPT             | Stn. Stl.           | 29.3/111.3                 | 25.1/95.3  | 21.9/83.2  | 75/34         |
| SR119-35       | 119/452                 | 28/72            | 62.25/159      | 81/206                    | 40/276            | 1-1/4" NPT             | Stn. Stl.           | 41.1/156.1                 | 35.1/133.3 | 30.7/116.6 | 105/48        |

Maximum Operating Pressure = 100 PSI    Maximum Liquid Temperature: 120°F    Maximum External (Ambient) Temperature: 125°F

# fibrewound pressure tanks

## APPLICATIONS

- Use wherever pressurized tanks are needed in water systems applications.

## SPECIFICATIONS

- Inner Liner** – One-piece high-density polyethylene
- Outer Shell** – Fiberglass-wound and epoxy resin sealed
- Air Cell** – Heavy mil ethyl-vinyl-acetate (EVA)
- Upper and Lower Flanges** – Reinforced polypropylene
- Base** – One piece high density polyethylene
- Service Connection** – PVC on SR20 and SR35; Stainless steel available on all models
- Air Valve** – Brass body, Schrader core assembly
- Weather Cap** – High density polyethylene

## FEATURES

**Durable Composite Construction** – A rugged one-piece molded, inner-liner of premium high-density polyethylene.

- Miles of continuous overlapping fiberglass strands, sealed with oven cured epoxy make the outer-shell impervious to rust, dents, and ultra-violet rays (no paint to scratch and touch-up).
- Proprietary wrap pattern makes the tank stronger than steel. Tanks can be installed with a wider range of pressure settings, so you can select the system pressure you want.

**Air Cell** – The air cell is fabricated from durable and extensively tested ethyl-vinyl-acetate (EVA).

- EVA is resistant to chlorine.
- EVA will not support iron bacteria growth that may be present in the water supply.

- EVA and Polyethylene meet FDA requirements for potable water supplies.
- Signature 2000® Fibrewound Pressure Tank assembly is classified to ANSI/NSF Standard 61 for water system components.

**Tank Base** – Rigid molded polyethylene is the sturdiest composite base on the market. Corrosion- and impact-resistant. Base rotates 360° for ease-of-service hook-up.

**Replaceable Air Cell** – With the tank installed! Air cell access is via a top mount design. Generous and accessible air cell opening facilitates easy removable and re-installation of replacement air cell (with the professional contractor in mind).

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## CHART B

### DRAWDOWN VOLUME MULTIPLIER\* (APPROXIMATE)

| Pump Off Pressure<br>PSI | Pump Start Pressure - PSI |      |      |      |      |      |      |      |
|--------------------------|---------------------------|------|------|------|------|------|------|------|
|                          | 10                        | 20   | 30   | 40   | 50   | 60   | 70   | 80   |
| 20                       | 0.26                      |      |      |      |      |      |      |      |
| 30                       | 0.41                      | 0.22 |      |      |      |      |      |      |
| 40                       |                           | 0.37 | 0.18 |      |      |      |      |      |
| 50                       |                           | 0.46 | 0.31 | 0.15 |      |      |      |      |
| 60                       |                           |      | 0.40 | 0.27 | 0.13 |      |      |      |
| 70                       |                           |      | 0.47 | 0.35 | 0.24 | 0.12 |      |      |
| 80                       |                           |      |      | 0.42 | 0.32 | 0.21 | 0.11 |      |
| 90                       |                           |      |      | 0.48 | 0.38 | 0.29 | 0.19 | 0.10 |
| 100                      |                           |      |      |      | 0.44 | 0.35 | 0.26 | 0.17 |

## OPERATING CYCLE

**1. Tank nearly empty** – Air expands, filling area inside tank

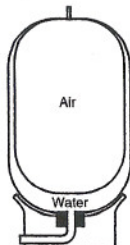


Fig. 2A

**2. Water begins to enter tank** – Air is compressed in air cell as tank fills with water

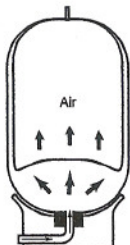


Fig. 2B

**3. Pump-up cycle completed** – Air is now compressed to cut off setting of pressure switch

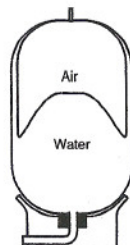


Fig. 2C

**4. Water being drawn from tank** – Compressed air in air cell forces water out of tank

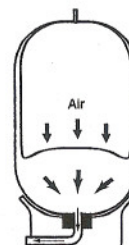


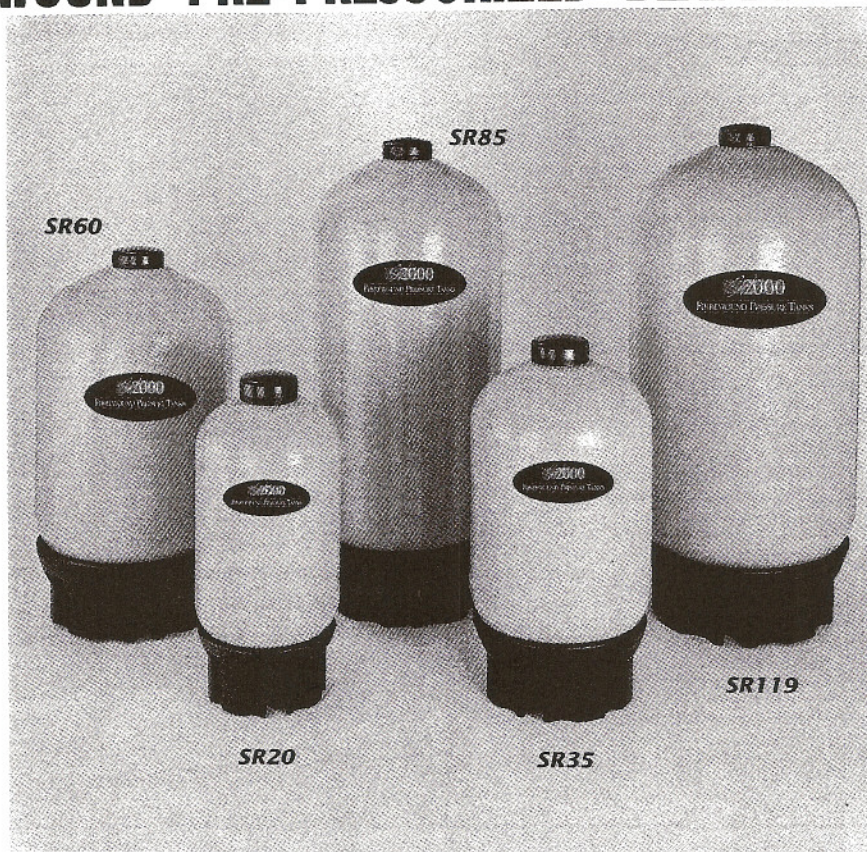
Fig. 2D

**5. Tank now empty** – New cycle ready to begin



Fig. 2A

## FIBREWOUND PRE-PRESSURIZED BLADDER TANKS



FIBREWOUND PRE-PRESSURIZED BLADDER TANKS  
DESIGNED FOR WATER STORAGE & PRESSURIZATION

VERTICAL TANK MODELS-----NON-ASME CODE TANKS  
 STANDARD DOMESTIC AND COMMERCIAL DUTY---REPLACEABLE BLADDER  
 MAX. OPERATING PRESSURE----100 PSI  
 MAX. LIQUID TEMPERATURE----120 F  
 MAX. EXTERNAL TEMPERATURE--125 F  
 CONNECTION FITTING---STAINLESS STEEL

| <u>MODEL</u>  | <u>PHYSICAL</u><br><u>VOLUME</u> | <u>DIA X HEIGHT</u><br><u>INCHES</u> | <u>APPROX.</u><br><u>WEIGHT</u><br><u>LBS.</u> |
|---------------|----------------------------------|--------------------------------------|--|
| SR20-6S-----  | 20 GALLONS                       | 16 X 36                              | 25   |
| SR35-10S----- | 35 GALLONS                       | 20 X 40                              | 40   |
| SR40-12S----- | 40 GALLONS                       | 16 X 61                              | 36   |
| SR48-14S----- | 48 GALLONS                       | 20 X 51                              | 41   |
| SR60-18-----  | 60 GALLONS                       | 24 X 46                              | 60   |
| SR85-25-----  | 85 GALLONS                       | 24 X 60                              | 75   |
| SR119-35----- | 119 GALLONS                      | 28 X 63                              | 105  |