

fibrewound pressure tanks



Signature

2000®

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 (49°C)
 Maximum External (Ambient) Temperature: 125°F (52°C)

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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** – Stainless steel 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).

Five Year Warranty – Managed and provided by WICOR Industries, the only US manufacturer to design and manufacture fibrewound and steel tanks!

Signature 2000® is a registered trademark of WICOR Industries. In order to provide the best products possible, specifications are subject to change.

TANK SIZING RULE:



Size tank for one gallon of drawdown for each gallon per minute at pump capacity.

EXAMPLE: For a 1 HP - 20 GPM unit pumping 20 gallons per minute on a 30-50 pressure switch setting, the properly sized Signature 2000® tank is a SR85-25, which has a 25.1 gallon drawdown.

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OPERATING CYCLE

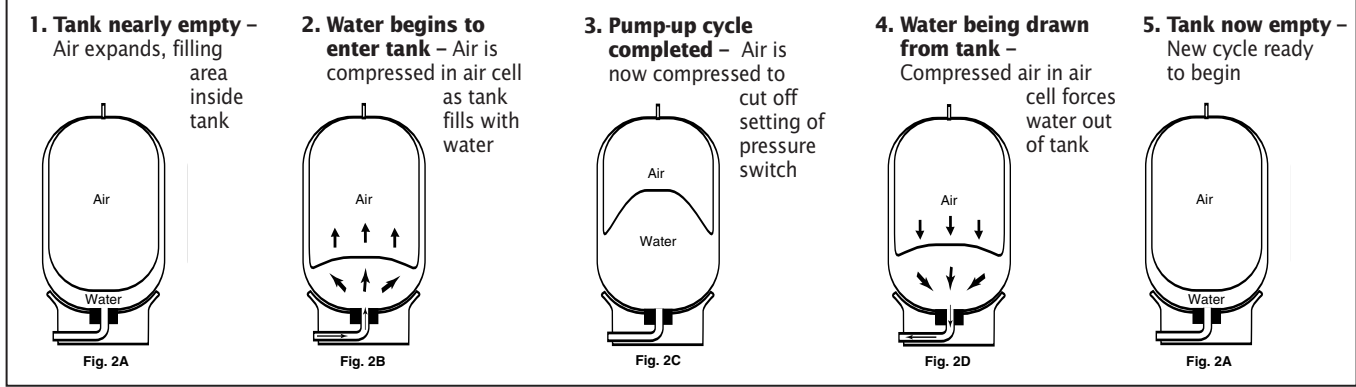


CHART A

Pump GPM	System Pressure Switch Setting – PSI					
	20-40		30-50		40-60	
	Run Times					
	1 Minute	2 Minute	1 Minute	2 Minute	1 Minute	2 Minute
5	SR20	SR35	SR20	SR35	SR20	SR40
7.5	SR20	SR48	SR35	SR48	SR35	SR60
10	SR40	SR60	SR35	SR60	SR40	SR85
12.5	SR48	SR60	SR40	SR85	SR48	SR85
15	SR60	SR85	SR48	SR119	SR60	SR119
20	SR60	SR119	SR60	SR119	SR85	SR85 (2)
30	SR85	SR85 (2)	SR119	SR60 + SR119	SR119	SR119 (2)
50	SR85 (2)	SR119 (2)	SR85 (2)	SR119 (3)	SR119 (2)	SR119 (4)

NOTE: Drawdown will be affected by operating temperature of the system, accuracy of the pressure switch and gauge, the actual precharge pressure, and rate of fill.

CHART B

Pump Off Pressure PSI	DRAWDOWN VOLUME MULTIPLIER* (APPROXIMATE)							
	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

*Utilize this chart if proper selection cannot be made using Chart A. Drawdown based on Boyle's Law.

Procedure:

1. Identify drawdown multiplier relating to specific application.
2. Insert multiplier (X) into the following formula:

$$\text{Pump GPM} \times \text{Min Run Time} \times \text{Multiplier (X)} = \text{Minimum Tank Capacity Required}$$
3. Refer to "Ordering Information" Table – Max. Capacity Gals.



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