PRO-SOURCE[®] Plus Premium Steel Pressurized Tanks

APPLICATIONS

Residential Water Systems

Industrial, Commercial and Agricultural

SPECIFICATIONS

Shell: Heavy-gauge steel

Base: High-impact composite, ABS

Finish: Electrostatically applied, baked-on polyester paint

Water Cell: One-piece seamless PVC, made from FDA listed material

Flange: 304SS

Service Connection: NPT threads, integral to flange

Air Valve: Nickel-plated brass, threaded for ease of service



Stainless Steel Service Connection – "The Professional's Choice" Metal Air Valve Assembly – "Field-Serviceable" 125 PSI Maximum Operating Pressure – Four Sizes: PSP50, PSP62, PSP85 and PSP119 In order to provide the best products possible, specifications are subject to change.

ORDERING INFORMATION										
Catalog	Maximum Capacity	Diameter* Inch/cm	Height* Inch/cm	Precharge PSI/kPa	Connection Size Female	Drawdown In Gallons/Liters			Weight	Maximum Operating
Number	Gal./Liter					20-40	30-50	40-60	Lbs./kg	PSI
VERTICAL MODEL	S									
PSP19S-T02	19/72	20/51	21/53.3	40/276	1" NPT	6.9/26.1	5.8/21.9	5.0/18.9	49/22.2	100
PSP19T-T02	19/72	16/40.6	27.5/70	40/276	1" NPT	6.9/26.1	5.8/21.9	5.0/18.9	44/20.0	100
PSP32-T03	32/121	16/40.6	43/109	40/276	1" NPT	11.6/43.9	9.8/37.1	8.5/32.2	60/27.2	100
PSP35-T05	35/133	20/51	33/84	40/276	1" NPT	12.7/48.1	10.7/40.5	9.3/35.2	70/31.8	100
PSP50-T50	50/189	24/61	32.5/83	40/276	1-1/4" NPT	18.3/69.3	15.5/58.7	13.4/50.7	88/39.9	125
PSP62-T51	62/235	24/61	39.5/100	40/276	1-1/4" NPT	21.4/81.0	18.3/69.3	16.0/60.6	116/52.6	125
PSP85-T52	85/322	24/61	51/130	40/276	1-1/4" NPT	30/113.6	26/98.4	22.0/83.3	128/58.1	125
PSP119-TR50	119/450	24/61	68/173	40/276	1-1/4" NPT	41.3/156.3	35.4/134.0	31.0/117.3	140/63.5	125

*Subject to change without notice.

Maximum Liquid Temperature:120°F (49°C)

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



PRO-SOURCE[®] Plus Premium Steel Pressurized Tanks

FEATURES

Service Connection: 304 stainless steel.

Air Valve: Nickel-plated brass.

Maximum Operating Pressure:

100 PSI on 16" and 20" tanks; 125 PSI on 24" tanks. (models; PSP50, PSP62, PSP85, PSP119)

Heavy-Gauge Metal Construction:

Sturdy "welded wrapper and head design." Built to last.

Polyester Paint Finish: Electrostatically powder-painted, then oven-baked for a smooth high-gloss, appliance-quality finish. Resists corrosion.

Elongated, Seamless Water Cell:

- Controlled 2-dimensional cell expansion.
- Rugged, seamless "water cell" prevents the most common cause of tank failure - "waterlogging."
- Water never touches the steel tank material.

PSP85

Translucent bag material facilitates manufacturing quality control inspection.

NEW Stainless Service Connection:

- Corrosion-resistant.
- Stainless steel the professional's choice.

Integral Standpipe: Promotes complete flushing of the water entering/exiting the tank.

Nitrogen-Rich Precharge: Decreases air permeation three to four times over straight air precharge.

40 PSI Precharge: Ready for use with 40/60 pressure range systems. Enables installer to reduce pressure depending on pressure switch setting.

Sturdy Base: Tested-tough composite construction.

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 Pro-Source® PLUS tank is a PSP85-T52 which has a 26 gallon drawdown.

CHART A											
Tank Selection Chart											
D	SYSTEM PRESSURE SWITCH SETTING – PSI										
Pump GPM	20-	-40	30-	-50	40-60						
••••		Runtimes									
	1 Minute	2 Minute	1 Minute	2 Minute	1 Minute	2 Minute					
5	PSP19T	PSP32	PSP19T	PSP35	PSP19T	PSP50					
7.5	PSP32	PSP50	PSP32	PSP50	PSP32	PSP62					
10	PSP32	PSP62	PSP35	PSP85	PSP50	PSP85					
12.5	PSP35	PSP85	PSP50	PSP85	PSP50	PSP119					
15	PSP50	PSP85	PSP50	PSP119	PSP62	PSP119					
20	PSP62	PSP119	PSP85	PSP85 (2)	PSP85	PSP85 (2)					
30	PSP85	PSP85 (2)	PSP119	PSP119 (2)	PSP119	PSP119 (2)					
50	PSP62 +	PSP119 (2) + PSP62	PSP85 (2)	PSP119 (3)	PSP119 (2)	PSP119 (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.

Pumps installed with a Pro-Source® PLUS tank require

a relief valve equal to the tank's maximum operating pressure. Relief valve must be capable of relieving entire flow of pump at relief pressure.

CHART B									
Drawdown Volume Multiplier* (Approx.)									
Pump Off Pressure 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	

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

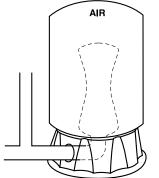
PROCEDURE: 1. Identify drawdown multiplier relating to specific application.

	2. Insert multiplier (X) into the following formula:	
	Pump GPM x Min Runtime _ Minimum Tank	
	Multiplier (X) Capacity Required	
EXAMPLE:	An example of a 20 GPM pump with a minimum runtime of 1 minute, installed on a 50-70 PSIG system pressure range:	
	20 GPM x 1 minute 83.3 minimum U.S. gal.	
	.24 (factor) from Chart B = tank capacity required	
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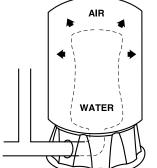
Referring to "Ordering Information" chart, the model PSP85-T52 has the closest U.S. gallon capacity that is greater or equal to the minimum volume requirement of 83.3 U.S. gallons.

PRO-SOURCE[®] Plus Premium Steel Pressurized Tanks

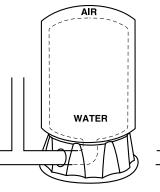
OPERATING CYCLE



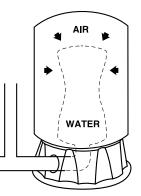
1. Separator is completely empty: A new cycle is ready to begin. Simple, positive action produces maximum drawdown on every cycle.



 Water begins to enter the tank: Air is compressed around the water separator as it fills with water.

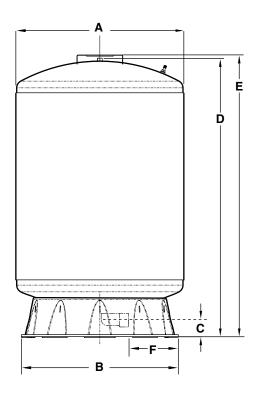


3. Pump-up cycle completed: Air is now compressed to the cut-off setting of pressure switch.



4. Water is being drawn from the tank: Compressed air in the tank forces water out of the separator.

OUTLINE DIMENSIONS



Catalog Number	Discharge NPT	Α	в	с	D	E	F
PSP19T-T02	1"	16.1	15.5	2.0	27.8	-	3.9
PSP19S-T02	1"	20.1	15.5	2.0	21.5	-	2.3
PSP32-T02	1"	16.1	15.5	2.0	43.0	-	2.3
PSP35-T05	1"	20.1	15.5	2.0	33.0	-	2.3
PSP50-T50	1-1/4"	24.1	22.7	2.5	33.2	-	5.5
PSP62-T51	1-1/4"	24.1	22.7	2.5	40.1	-	5.5
PSP85-T52	1-1/4"	24.1	22.7	2.5	51.5	-	5.5
PSP119-TR50	1-1/4"	24.1	22.7	2.5	68.6	-	5.5

Dimensions (in inches) are for estimating purposes only.



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