

# BACKSTOP<sup>®</sup> Diaphragm Well Tanks

## PRE-PRESSURIZED WELL TANK SUBMITTAL

**TYPE:** PRE-PRESSURIZED EXPANSION WELL TANKS FOR WATER SYSTEMS

**MODELS:** 12-AW101; 12-AW102; 12-AW110; 12-AW103S; 12-AW104S; 12-AW105ST-2; 12-AW132ST; 12-AW105S; 12-AW106S; 12-AW107S; 12-AW108S; 12-AW186S; 12-AW109S

JOB _____	BackStop Rep. _____
Unit Tag No _____	Order No. _____ Date _____
Engineer _____	Submitted By _____ Date _____
Contractor _____	Approved By _____ Date _____

**MATERIALS:**

Shell: Carbon Steel  
 System Connection: Stainless Steel  
 Coating: Epoxy  
 Diaphragm: Heavy Duty Butyl Rubber  
 Liner Material: Food Grade Polypropylene  
 Factory Pre-set Pressure: 40 PSI

**APPLICATION:**

BackStop<sup>®</sup> Well Tanks are fixed diaphragm type pre-pressurized tanks that provide optimal control of system pressures for the most efficient operating performance. The water is separated using the heavy duty diaphragm preventing tank corrosion and waterlogging problems.

**OPERATING LIMITATIONS:**

Maximum Design Pressure: 150 PSI (1035 kPa)  
 Maximum Design Temperature: 200° F (93° C)



Model Number	Volume (liter)	Volume (gal)	Height (inch)	Diameter (inch)	System Conn.	Weight (lbs)
12-AW101	8	2	12-1/2	8	3/4"	5.07
12-AW102	18	4.5	14.3	11	3/4"	9
12-AW110	38	10	22.2	11.4	3/4"	15
12-AW103S	53	14	23.4	15.3	1"	24.3
12-AW104S	76	20	27.3	17	1"	30.9
12-AW105ST-2	106	28	30.1	16.9	1"	33
12-AW132ST	122	32	45.2	15.3	1"	50.1
12-AW105S	129	34	30.9	21.7	1-1/4"	54.1
12-AW106S	167	44	36.7	21.7	1-1/4"	61.3
12-AW107S	235	62	47.1	21.7	1-1/4"	83.2
12-AW108S	307	81	57.6	21.7	1-1/4"	103.9
12-AW186S	325	86	45.5	25.6	1-1/4"	106.9
12-AW109S	450	119	55.5	25.6	1-1/4"	135.6

*"S" denotes stand models*

BackStop<sup>®</sup> pre-pressurized well tanks are approved for well applications only. Not recommended for use as a water heater thermal expansion device.

**SCHEDULE**

Model Number	Tank Volume Gallons	Acceptance Volume Gallons	Tagging Information	Quantity
12-AW101	2	.9		
12-AW102	4.5	2.5		
12-AW110	10	5.2		
12-AW103S	14	11.3		
12-AW104S	20	16.2		
12-AW105ST-2	28	18		
12-AW132ST	32	15		
12-AW105S	34	22.5		
12-AW106S	44	30		
12-AW107S	62	35.2		
12-AW108S	81	44		
12-AW186S	86	60.2		
12-AW109S	119	95.1		

**SPECIFICATIONS:**

Furnish and install as shown on plans a \_\_\_\_\_ gallon "diameter x \_\_\_\_\_" (high) pre-charged steel well tank with a fixed butyl diaphragm. The tank shall have a top NPT system connection and a .301" - 32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements.

Each tank shall be BackStop<sup>®</sup> model number \_\_\_\_\_ or approved equal.