

# BACKSTOP<sup>®</sup> SOLAR

## S SERIES (Non-ASME) SUBMITTAL

Lit.# BSSSUB-1010

**TYPE:** PRE-PRESSURIZED EXPANSION TANKS FOR RESIDENTIAL SOLAR SYSTEMS

**MODELS:** S-15; S-30; S-60; S-90; SX-90

Job _____	Arrow 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: EPDM  
 Factory Pre-set Pressure: 35 PSI

### APPLICATION:

BackStop<sup>®</sup> Solar Expansion Tanks are fixed diaphragm type pre-charged expansion tanks. They are designed to absorb the expansion forces and control the pressure in solar water systems. The water/glycol solution is separated using a corrosion resistant EPDM diaphragm.

### OPERATING LIMITATIONS:

Maximum Design Pressure: 150 PSI (1035 kPa)  
 Maximum Design Temperature: 250° F (121° C)

Model No.	Volume (liter)	Volume (gal.)	Height	Diameter	Sys. Conn.	Wt. (lbs.)
S15	8	2.1	12-1/2"	8"	3/4"	4.5
S30	18	4.8	15"	11"	3/4"	8
S60	22	6	16-5/8"	11"	3/4"	9.5
S90	53	14	19-7/8"	15-1/2"	3/4"	19
SX90	53	14	24-7/8"	15-1/2"	3/4"	22

*SX denotes stand models.*



### SCHEDULE:

Model Number	Tank Volume Gallons	Acceptance Volume Gallons	Tagging Information	Quantity
S15	2.1	1.2		
S30	4.8	3.2		
S60	6	4.2		
S90	14	8.5		
SX90	14	8.5		

### SPECIFICATIONS:

Furnish and install as shown on plans a \_\_\_\_\_ gallon \_\_\_\_\_" diameter x \_\_\_\_\_" (high) pre-charged steel expansion tank with a fixed EPDM 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.