

BACKSTOP®

“Preferred By Professionals”

PRODUCT CATALOG



**Diaphragm-Type
Safety Tanks
& Accessories**



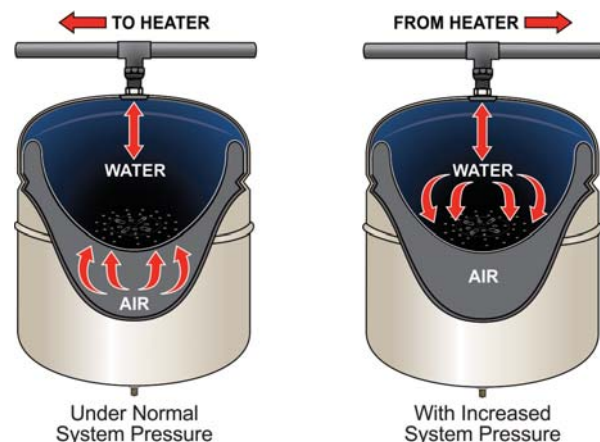
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HOW BACKSTOP WORKS

BackStop® protects safety valves from failing or wearing out quickly, avoids valve stem and ball seal leaks, prevents wasted BTUs, and vastly extends water heater life.

Thermal expansion is the term used to describe the expansion of water volume as it is heated. Installing a properly sized and charged thermal expansion tank in a water heating system is the recommended way to eliminate the problems associated with increased volume and pressure in a closed or restricted plumbing system.



PRE-INSTALLATION WARNINGS

- BackStop® Tanks** must be installed only by a qualified, licensed professional in accordance with local plumbing codes. Maintenance inspections of the complete heating system should be performed by a licensed plumber annually.
- Failure to turn off the electrical and water supply and releasing the water pressure could result in serious injury or death and or property damage.
- Any use of the product for purposes other than what it is intended for is **UNSAFE** and may cause property damage, serious bodily injury or may result in death.
- The tank's pre-charge should be tested and adjusted to the correct pressure as needed.



MATERIALS

Shell: Carbon Steel

System Connection: Stainless Steel

Coating: Triple Coated Epoxy

Diaphragm: Heavy Duty Butyl Rubber

Liner Material: FDA Grade Polypropylene

Factory Pre-set Pressure: 35 PSI

OPERATING LIMITATIONS

Max Design Pressure: 150 PSI (1035 kPa)

Max Design Temperature: 200° F (93°C)

APPLICATION

BackStop® A Series Tanks are fixed-diaphragm type, pre-charged thermal expansion tanks that are designed to absorb the expansion forces and control the pressure in potable water systems. Water is contained using the heavy-duty diaphragm with a FDA grade polypropylene liner preventing tank corrosion and waterlogging problems.

MODELS

A101; A102; A103

A104; A104M; & A106M

CERTIFICATIONS

MODELS

A101

A102

A103

A104



IAPMO
Certified



NSF/ANSI-61
Certified

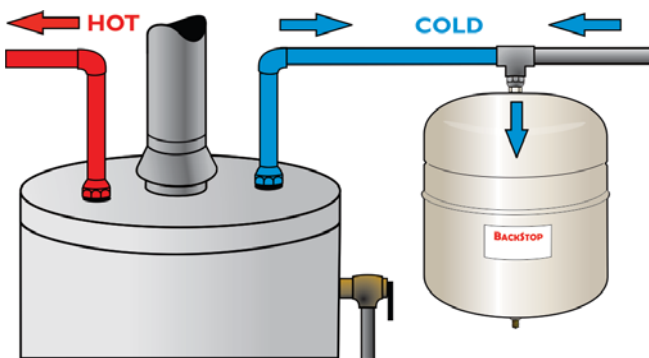


PRODUCT LIST

Model No.	Volume (liter)	Volume (gal.)	Acceptance Vol. (gal.)	Height	Diameter	Sys. Conn.	Wt. (lbs.)
A101	8	2	1.2	12-1/2"	8"	3/4"	5
A102	18	4.5	3.2	15"	11"	3/4"	9
A103	55	14	8.5	19-7/8"	15-1/2"	1"	19
A104	80	20	12.6	27"	15-1/2"	1"	27
A104M	80	20	12.6	27"	15-1/2"	1"	33
A106M	176	44	32.1	35-1/2"	22"	1-1/4"	52

A103 and A104 include a heavy duty plastic base.
A104M and A106M have welded steel base.

TYPICAL INSTALLATION



WHERE TO INSTALL

BackStop® A Series Tanks are installed on the cold water line of the water heater to protect the system from the damaging effects of thermal expansion and increased pressure. The tank controls excessive pressure generated inside the water heater using a sealed compressible air cushion space to store and hold the additional expanded water volume.

Choose an installation location where leakage will not cause property damage and water draining is ideal.

APPLICATION

BackStop® AC (ASME) Series Tanks are fixed diaphragm type pre-charged thermal expansion tanks that are used to absorb the expansion forces and control the pressure in potable water systems.

OPERATING LIMITATIONS

Max. Pressure: 150 PSI (1035 kPa)

Max. Temp: 240°F (115°C)

MATERIALS

Shell: Carbon Steel

System Connection: Stainless Steel

Coating: Primer

Diaphragm: Heavy Duty Butyl Rubber

Factory Pre-set Pressure: 30 PSI

ASME EXPANSION

Model No.	Volume (gal.)	Acceptance Vol. (gal.)	Height	Diameter	Sys. Conn.	Wt. (lbs.)
AC5	3.5	2.1	14"	10"	3/4"	22
AC12	5	3.1	14"	12"	3/4"	28
AC20	8	3.1	20"	12"	3/4"	34
AC30	15	10	23"	16"	1"	64
AC42	22	14.7	32"	16"	1"	88
AC60	26	15.5	34"	16"	1"	93
AC80	35	15.5	45"	16"	1"	109
AC100	45	21	38"	20"	1"	148
AC125	60	21	49"	20"	1"	175
AC160	70	46.7	46"	24"	1-1/2"	259
AC180	80	52.5	49"	24"	1-1/2"	268
AC210	90	52.5	52"	24"	1-1/2"	283

ASME HYDRONIC

Model No.	Volume (gal.)	Height	Diameter	Sys. Conn.	Wt. (lbs.)
HC15	8	19"	12"	3/4"	44
HC20	11	26"	12"	3/4"	47
HC40	25	33"	16"	1"	90
HC60	35	45"	16"	1"	111
HC80	45	38"	20"	1"	147
HC100	60	49"	24"	1"	167
HC120	70	46"	24"	1-1/2"	225
HC144	80	49"	24"	1-1/2"	245
HC180	90	52"	24"	1-1/2"	265
HC200	115	66"	24"	1-1/2"	295



APPLICATION

BackStop® HC Series ASME Hydronic Tanks are fixed diaphragm type precharged thermal expansion tanks. BackStop® used heating and cooling systems. ASME Hydronic Tanks reduces required tank size up to 80% and adhere to building codes.

MATERIALS

Shell: Carbon Steel

Connection: Carbon Steel

Coating: Primer

Diaphragm: Heavy Duty Butyl Rubber

Factory Pre-set Pressure: 12 PSI

OPERATING LIMITATIONS

Max. Pressure: 150 PSI (1035 kPa) HC15-HC60

Max. Pressure: 125 PSI (861 kPa) HC80-HC200

Max. Temp: 240°F (115°C)

MATERIALS

Shell: Carbon Steel

System Connection: Carbon Steel

Coating: Metallic Silver Paint

Diaphragm: Heavy Duty Butyl Rubber

Liner Material: No Liner

Factory Preset Pressure: 12 PSI

OPERATING LIMITATION

Max. Pressure: 150 PSI (1035 kPa)

Max. Temperature: 210° F (99° C)

APPLICATION

BackStop® Hydronic Expansion Tanks absorb the expansion pressure in residential or commercial hydronic (forced hot water) heating and cooling systems. Each tank is pressure rated up to 150 PSI and equipped with a carbon steel connection. High-grade, deep drawn steel is used for improved strength to weight ratio. Larger models feature a rugged, stable, base.

MODELS

H15; H30;

H60; & H90;



PRODUCT LIST

Model No.	Volume (liter)	Volume (gal.)	Acceptance Vol. (gal.)	Height	Diameter	Sys. Conn.	Wt. (lbs.)
H15	8	2.1	1.2	12-1/2"	8"	1/2"	4.5
H30	18	4.8	3.5	15"	11"	1/2"	8
H60	22	6	4.2	16-5/8"	11"	1/2"	9.5
H90	53	14	5.6	19-7/8"	15-1/2"	1/2"	19



INSTALLATION PRECAUTIONS

All **BackStop® Tanks** must be installed by a qualified professional. Follow all local and national plumbing and electrical codes. Read and understand fully the instructions included here and those on the manufacturer's website which are updated on a regular basis.



MATERIALS

Shell: Rolled Carbon Steel

System Connection: 304 Stainless Steel

Coating: Appliance Grade Blue Paint

Diaphragm: Heavy Duty Butyl Rubber

Liner Material: Food Grade Polypropylene

Factory Pre-set Pressure: 35 PSI

OPERATING LIMITATION

Max. Pressure: 150 PSI (1035 kPa)

Max. Temperature: 150° F (65° C)

APPLICATION

BackStop® Well Tanks provide optimal control of pump performance by allowing efficient cycling, in turn, extending the life of the pump. Each tank is pressure rated up to 150 PSI and equipped with a solid stainless steel connection. High-grade rolled steel is used for improved strength-to-weight ratio. Larger models feature an attached steel base that is both rugged and stable. Models AW103 and AW104 include a reversible plastic base (see page 7 for image).

MODELS

AW101; AW102;

AW103; AW104;

AW103S; AW104S;

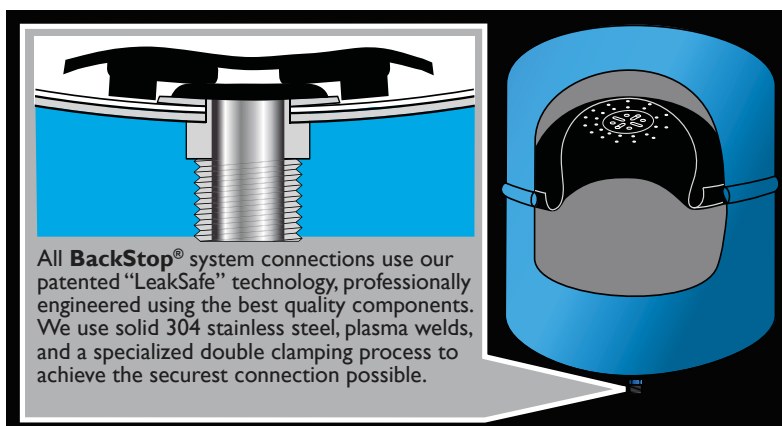
AW105S; & AW106S



PRODUCT LIST

Model No.	Volume (gal.)	Acceptance Vol. (gal.)	Height	Diameter	Sys. Conn.	Wt. (lbs.)
AW100	0.5	0.3	8-3/4"	5-1/2"	3/4"	2.5
AW101	2	1.2	12-1/2"	8"	3/4"	5
AW102	4.5	3.2	15"	11"	3/4"	9
AW103	14	8.4	19-7/8"	15-1/2"	1"	19
AW104	20	12.6	27"	15-1/2"	1"	27
AW103S	14	8.4	19-7/8"	15-1/2"	1"	19
AW104S	20	12.6	27"	15-1/2"	1"	27
AW105S	32	21.8	46-1/2"	15-1/2"	1-1/4"	43
AW106S	44	32.2	35-1/2"	22"	1-1/4"	52

AW103S through AW106S have welded steel base.



MATERIALS

Shell: Carbon Steel
System Connection: Stainless Steel
Coating: Metallic Silver Paint
Diaphragm: Heavy Duty EPDM Rubber
Factory Pre-set Pressure: 35 PSI

MODELS

S15; S30; S60;
 S90; & SX90

OPERATING LIMITATION

Max. Pressure: 150 PSI (1035 kPa)
Max. Intermittent Temp: 250°F (121°C)
Max. Continuous Operating Temp: 225° F (107°C)

APPLICATION

BackStop® Solar Expansion Tanks are an integral safety device for every solar heating project. They feature a specialized EPDM Diaphragm that captures the expansion and condensation of the solar heat transfer fluid during changing climatic conditions, also known as “stagnation”.

Each tank withstands high temperatures while ensuring that the maximum operating pressure is never reached, safely extending the life of all major system components. The expanded volume of the solar heating system is contained in the **BackStop® Solar Expansion Tank**. The size of the expansion tank depends on the system pressure, collector area, system volume and static height of the system.



PRODUCT LIST

Model No.	Volume (liter)	Volume (gal.)	Acceptance Vol. (gal.)	Height	Diameter	Sys. Conn.	Wt. (lbs.)
S15	8	2.1	1.2	12-1/2"	8"	3/4"	4.5
S30	18	4.8	3.2	15"	11	3/4"	8
S60	22	6	4.2	16-5/8"	11"	3/4"	9.5
S90	53	14	8.5	19-7/8"	15-1/2"	3/4"	19
SX90	53	14	8.5	24-7/8"	15-1/2"	3/4"	22

SX90 has welded steel base.

FEATURES & BENEFITS

Designed to operate with high-efficiency solar systems.

Accepts glycol solutions.

Each tank incorporates a heavy-duty EPDM diaphragm proven to withstand the high fluctuating temperatures found in solar applications.

Every **BackStop® Solar Expansion Tank** is constructed with high quality rolled carbon steel using double-welds and then coated with an appliance grade, electrostatic, epoxy finish.

BackStop® Solar Expansion Tanks have a factory pre-set pressure of 35 PSI and ship with a protective valve cover.



BackStop® SOLAR
Typical Installation



BackStop® Safely Protects
Solar Components

MATERIALS

Shell: Carbon Steel

System Connection: 2x Stainless Steel

Coating: Triple Coated Epoxy Paint

Diaphragm: Heavy Duty Butyl Rubber

Factory Pre-set Pressure: 15 PSI

OPERATING LIMITATION

Max. Pressure: 150 PSI (1035 kPa)

Max. Temperature: 200° F (93° C)



DUAL PORT TANKS

The BackStop® Dual Port Thermal Expansion Tank is a custom device optimized for tankless water heater systems. The Dual Port contains expanded potable hot water while eliminating the “Cold Water” sandwich in tankless water heaters. The patented dual flow design also eliminates standing water, preventing bacteria build-up.

DUAL PORT TANKS

Model No.	Volume (liter)	Volume (gal.)	Acceptance Vol. (gal.)	Height	Dia.	Sys. Conn.	Wt. (lbs.)
A201	8	2	0.8	12-1/2"	8"	3/4"	5
A202	18	4.5	1.9	15"	11	3/4"	9

CERTIFICATIONS



BOOSTER PUMP TANKS

BackStop® Booster Pump Tanks are used in potable water systems to maintain system pressure when the pump is not operating. Pump tanks increase the pump and water system life by reducing system cycling time. The heavy duty diaphragm keeps the water permanently isolated from the pre-charged air cushion.

BOOSTER PUMP TANKS

Model No.	Volume (liter)	Volume (gal.)	Acceptance Vol. (gal.)	Height	Dia.	Sys. Conn.	Wt. (lbs.)
APT18H	18	4.5	3.2	14.8"	12"	3/4"	10
APT24H	22	6	4.2	16.5"	12"	3/4"	11
APT58H	53	14.5	8.5	21"	17"	1"	23
APT80H	78	20	12.6	28"	17"	1"	29



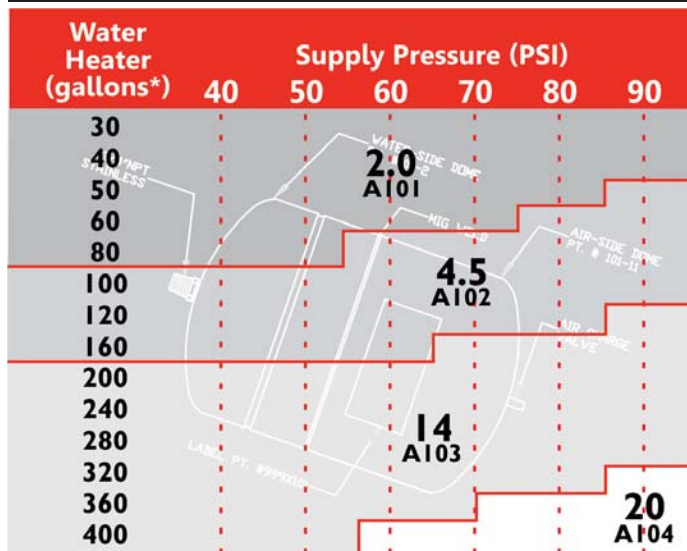
Pump sold separately

TANK ACCESSORIES

Model No.	Description	Size
12-SS1204	Stainless Steel Tank Adapter	3/4" FIP Cap Drilled 1/4" FIP
12-SS16EL	Stainless Steel Close Coupled 1" Elbow	For 14 & 20 Gallon Tanks
12-SS220804	Stainless Steel Bell Reducer	1/2" FIP x 1/4" FIP
12-SS221204	Stainless Steel Bell Reducer	3/4" FIP x 1/4" FIP
12-SV12	Self-Piercing Saddle	For All Size Expansion Tanks
12-STAND	Plastic Tank Base	For 14 & 20 Gallon Tanks



TANK QUICK SIZING GUIDE



*For multiple heaters, use the total volume of the heaters plus any storage tanks.



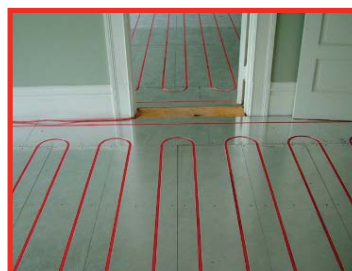
See Page 2 for part information

HYDRONDIC TANK QUICK SIZING GUIDE

Net Output in 1000's of BTU per Hour	Finned Tube Baseboards or Radiant Panels	Convectors or Unit Heaters	Cast Iron Radiators	Cast Iron Baseboards
25	H15	H15	H15	H15
50	H15	H15	H30	H30
75	H30	H30	H30	H60
100	H30	H30	H60	H60
125	H30	H60	H60	H90
150	H30	H60	H90	H90
175	H60	H60	H90	H90
200	H60	H60	H90	H90
250	H60	H90	H90	CALL
300	H90	H90	H90	CALL
350	H90	H90	CALL	CALL
400	H90	CALL	CALL	CALL



See Page 4 for part information



CONTACT INFORMATION

ABOUT BACKSTOP®

BackStop® Products are an integral part of a complete line of gas and water flex, connectors, and specialty plumbing items from **DuraTrac, LLC** headquartered in Brea California.

For ordering details, to locate a dealer, or for product warranty information, please call customer service at **1-866-678-8214** or visit us online at **www.backstop.net**.



THERMAL EXPANSION

See page 2 for product details

A SERIES											
Gal.	BackStop®	Amtrol	AO Smith	B&G	ELBI	Flexcon	State	Sparco	Watts	Wessels	Wilkins
2	A101	ST-5	PSC-2X	PT-5	DXT-8	WH-8	ETC-2X	TX-5	DET-5	TXC-5	XT-8
4.5	A102	ST-12	PSC-5X	PT-12	DXT-18	WH-18	ETC-5X	TX-12	DET-12	TXC-12	XT-18
14	A103	ST-30V	PSC-14	PT-30V	-	WH-50V	ETC-15	TX-30V	DET-30	TXC-30V	WXTP-50V
20	A104	ST-42V	PSC-20	PT-42V	-	WH-75V	ETC-20	TX-42V	-	-	WXTP-75V
20	A104M	ST-60V	PSC-36S	PT-60V	-	WH-120V	ETC-36	TX-60V	-	-	WXTP-120V
44	A106M	ST-80V	PSC-36S	PT-80V	-	WH-165V	-	TX-80V	-	-	WXTP-165V

ASME EXPANSION

See page 3 for product details

AC SERIES						
Gal.	BackStop®	Amtrol	Flexcon	Watts	Wessels	Wilkins
3.5	AC5	ST-5-C	FTTA-5	DETA-5	TTA-5	WTTA-5
5	AC12	ST-12-C	FTTA-12	DETA-12	TTA-12	WTTA-12
8	AC20	ST-20V-C	FTTA-20	DETA-20	TTA-20	WTTA-20
15	AC30	ST-30V-C	FTTA-30	DETA-30	TTA-30	WTTA-30
22	AC42	ST-42V-C	FTTA-42	DETA-42	TTA-42	WTTA-42
25	AC60	ST-60V-C	FTTA-60	DETA-60	TTA-60	WTTA-60
35	AC80	-	FTTA-80	DETA-80	TTA-80	WTTA-80
45	AC100	-	FTTA-100	DETA-100	TTA-100	WTTA-100
60	AC125	ST-80V-C	FTTA-125	DETA-125	TTA-125	WTTA-125
70	AC160	ST-120V-C	FTTA-160	DETA-160	TTA-160	WTTA-160
80	AC180	ST-180V-C	FTTA-180	DETA-180	TTA-180	WTTA-180
90	AC210	ST-180V-C	FTTA-180	DETA-180	TTA-180	WTTA-180

ASME HYDRONIC

HC SERIES			
Gal.	BackStop®	Amtrol	Elbi
8	HC15	AX-15	HTS-30
11	HC20	AX-20	HTS-45
25	HC40	AX-40	HTS-100
35	HC60	AX-60	HTS-140
45	HC80	AX-80	HTL-170
60	HC100	AX-100	HTL-200
70	HC120	AX-120	HTL-200
80	HC144	AX-144	HTL-300
90	HC180	AX-180	HTL-400
115	HC200	AX-200	HTL-450

HYDRONIC TANKS

See page 4 for product details

H SERIES										
Gal.	BackStop®	Amtrol	B&G	ELBI	Flexcon	Sparco	State	Watts	Wessels	Wilkins
2.1	H15	15	HFT-15	XT-15	VR15F	TK-300-15	ET-2	ET-15	N-15	HXT-15
4.8	H30	30	HFT-30	XT-30	VR30F	TK-300-30	ET-5	ET-30	N-30	HXT-30
6	H60	60	HFT-60	XT-60	VR60F	TK-300-60	ET-7	ET-60	N-60	HXT-60
14	H90	90	HFT-90	XT-90	VR90F	TK-300-90	ET-12	ET-90	N-90	HXT-90

WELL TANKS

See page 5 for product details

W SERIES					
Gal.	BackStop®	Amtrol	Flexcon	Goulds	State
0.5	AW100	-	-	V-6P	PIL-2
2	AW101	WX-101	-	V-6P	PIL-2
4.5	AW102	WX-102	-	V-15P	PIL-5
14	AW103	WX-200	VR-45	V-45	PAD-14
20	AW104	WX-401	VR-60	V-60	PAD-20
14	AW103S	WX-402	VR-100	V-100	PAD-52
20	AW104S	WX-404	VR-140	V-140	PAD-52
32	AW105S	WX-402	VR-100	V-100	PAD-52
44	AW106S	WX-404	VR-140	V-140	PAD-52

SOLAR

See page 6 for product details

S SERIES				
Volume	BackStop®	Amtrol	Caleffi	Flexcon
2.1	S15	SE-15	250012	SW-8
4.8	S30	SE-30	250018	SW-18
6	S60	SE-60	250025	SW-35
14	S90	-	259050	-
14	SX90	-	-	-

SPECIAL NOTE

Some model capacities shown could vary slightly.



PRODUCT WARRANTY COVERAGE DETAILS

OUR GUARANTEE

Products Covered: Expansion Tanks manufactured by BACKSTOP®

This warranty cannot be transferred - it is extended only to the original Purchaser or First User of the Product. By accepting and keeping this Product you agree to all of the warranty terms and limitations of liability described below.

IMPORTANT WARNING - READ CAREFULLY THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS MANUAL to avoid serious personal injury and/or property damage and to ensure safe use and proper care of this product

Who Receives BACKSTOP's Product Warranty

All purchasers or first users of the BACKSTOP® Expansion Tanks. The Warranty is non-transferable.

What is covered by this Warranty

BACKSTOP® warrants to the purchaser or first user of the new Product that at the time of manufacture, the Product is free from defects in material and workmanship. Any warranty claim must be made within the warranty period unless another time period is set forth in the Manual, measured from the time the Product was purchased.

What BACKSTOP® Will Do If You Have a Covered Warranty Claim

In the event of a breach of the foregoing warranty, BACKSTOP® will at its option replace or make repairs to correct any defect in material or workmanship or supply and ship either new or used replacement parts or products. BACKSTOP® will not accept any claims for labor or other costs.

What This Warranty Does Not Cover - Exclusions and Limitations

This Warranty does not cover any failure or problem unless it was caused by a defect in material or workmanship.

In addition this Warranty shall not apply:

- if the Product is not correctly installed, operated, repaired or maintained as described in the Manual provided with the Product; " to any failure or malfunction resulting from abuse (including freezing); improper or negligent: handling, shipping (by anyone other than BACKSTOP®).
- Storage, use, operation, accident or alteration, lightning, flood or any other environmental condition;
- to any failure or problem resulting from the use of the Product for any purpose other than those specified in the accompanying Manual or alteration of any part of the product;
- if the Product is used anywhere except the United States, its territories or possessions, or Canada;
- this Warranty does not cover labor costs, shipping charges, service charges, delivery expenses. Administrative fees or any costs incurred in removing or reinstalling the Product;
- this Warranty does not cover any claims submitted to BACKSTOP® or an BACKSTOP-authorized distributor or retailer more than 30 days after expiration of the applicable warranty time period described in this Warranty;
- this Warranty also does not cover repair or replacement costs not authorized in advance by BACKSTOP®.

Additional Warranty Limitations

ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY DISCLAIMED.

Limitations of Remedies

THE REMEDIES CONTAINED IN THIS WARRANTY ARE THE PURCHASER'S OR FIRST USER'S EXCLUSIVE REMEDIES. IN NO CIRCUMSTANCES WILL BACKSTOP® BE LIABLE FOR MORE THAN, AND PURCHASER-FIRST USER'S REMEDIES SHALL NOT EXCEED, THE PRICE PAID FOR THE PRODUCT. IN NO CASE SHALL BACKSTOP BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM NON-DELIVERY OR FROM THE USE, MISUSE, OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT OR FROM BACKSTOP'S OWN NEGLIGENCE OR OTHER TORT.

This exclusion applies regardless of whether such damages are sought for breach of warranty, breach of contract, negligence, strict liability, in tort or under any other legal theory. Such damages include, but are not limited to inconvenience, loss or damage to property, mold, loss of profits, loss of savings or revenue, loss of use of the Products or any associated equipment facilities, buildings or services, downtime, and the claims of third parties including customers.

What To Do If You Have a Problem Covered By This Warranty

Any covered Warranty service must be authorized by BACKSTOP®. Contact the person from whom you purchased the Product who must receive authorization from a BACKSTOP® distributor or BACKSTOP®. If you do not receive a prompt response, call BACKSTOP® directly at (714) 674-0590. Notice of a Warranty claim should be submitted by the authorized distributor to BACKSTOP® at the following address:

**BACKSTOP® Warranty Claim Dept.
465 N. Berry St., Brea, CA**

Before BACKSTOP® determines to provide any replacement part or Product, it may as a pre-condition to making such a determination require that the warranty claimant ship the Product postage prepaid to an authorized BACKSTOP® distributor, or to BACKSTOP® and provide proof of purchase evidenced by the original sales receipt.

BACKSTOP®

“Preferred By Professionals”

1-866-678-8214



Quality is what the pros expect and that is what you get with **BackStop®**. This is why we build each tank to meet or exceed exacting **IAPMO** and **NSF** standards. Our complete line of **ASME** diaphragm type expansion tanks are the best choice for all your plumbing, heating, solar and hydro-pneumatic residential and commercial applications.

www.backstop.net

**Please contact your nearest authorized
BackStop® Representative for more details.**



BackStop® is an integral part of the Duratrak, LLC family of products.