

The SHURflo Accumulator tank is a bladder type pressure storage vessel and/or pulsation-dampening device designed to hold water under pressure. The accumulator tank provides additional water storage to assist the pump in meeting the total demands of the system. It extends pressure switch-controlled pump life by reducing pump on-off pulsation.

NOTE: This product is not recommended for use with a 4900 or 5900 Series Smart Sensor Pump.

- See Product label and Specifications section on page 2 for factory pre-charge pressure. Do not exceed 40 psi [2.7 bar] pressure for long-term storage, shipping, or during system non-use.
- It is recommended the pre-charge be checked seasonally, or any time the accumulator does not appear to be functioning properly. Temperature extremes and changes in altitude can affect accumulator pressure and performance. Use a standard tire pressure gauge to check the pressure. The valve stem cap **MUST** be tight to prevent air leakage.
- The accumulator may be placed anywhere in the pressurized side of the plumbing. It should be installed after the pump and before any filters or check valves that can add backpressure to the pump or system. The ports are non-directional in flow and do not have to be plumbed in line (one side can be capped).
- The accumulator can be mounted in any position. However, for complete sanitizing/winterizing, the recommended mounting position is with pre-charge valve stem up. **Do not** freeze or mount near a high heat source.
- Threaded fittings (plastic/nylon only) should be torqued approximately 1/2 to 1 turn after **hand-tightened**. **Never** exceed 6 ft/lbs [88 Nm] of torque on the ports. Plumb the system using high pressure (2x pump rating), braided, flexible tubing to minimize vibration/noise.

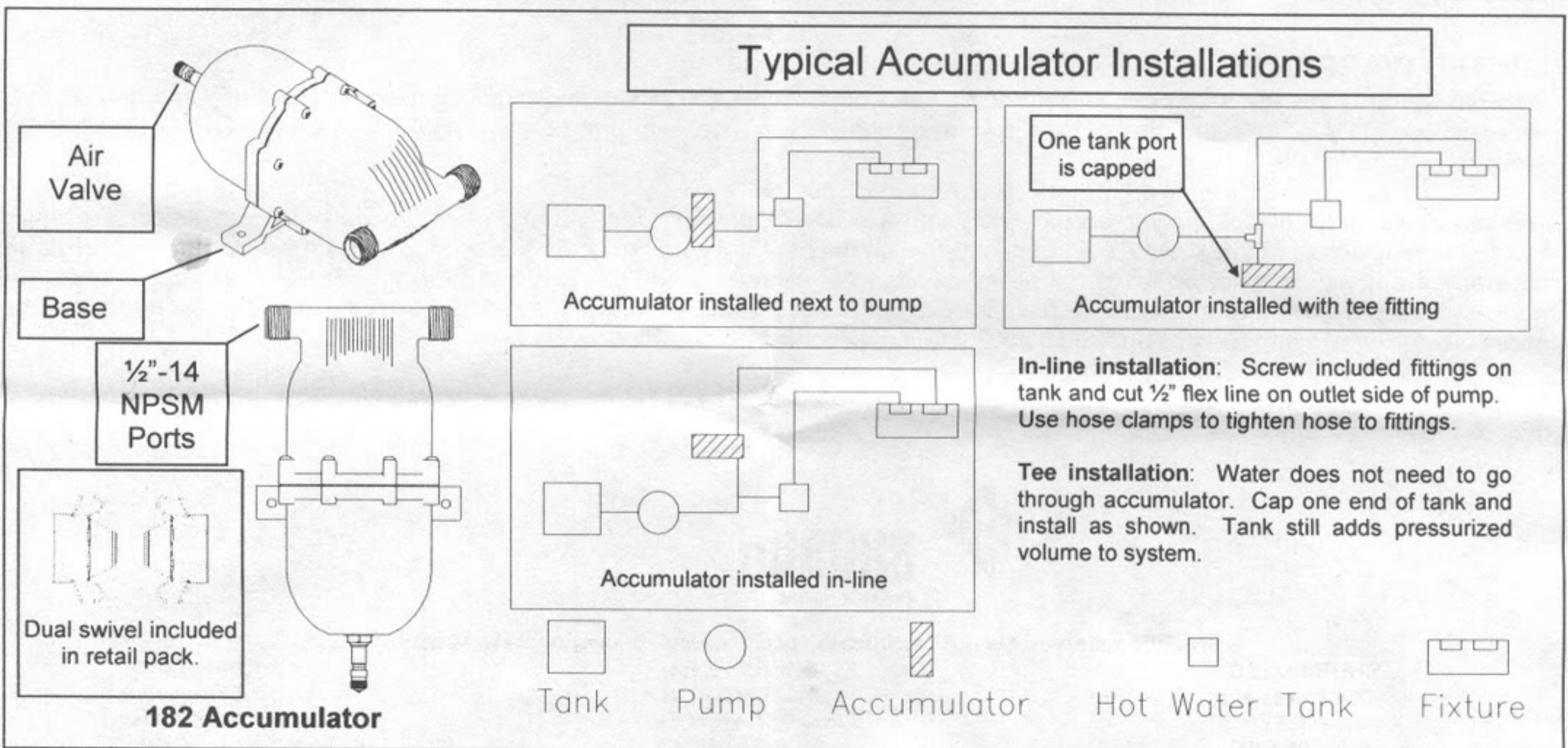
RV/MARINE APPLICATIONS WITH PRESSURE SWITCH-CONTROLLED PUMPS

The accumulator contributes to longer pump life, less noise, less amperage draw, and reduced water pulsation. The most efficient use of the accumulator occurs with the pre-charge set at the **SAME** pressure as the pump's pressure switch "turn on" setting. Typically, a 45 psi [3 bar] pump will turn on around 30 psi [2.07 bar]. Therefore, the pre-charge should also be 30 psi [2.07 bar]. The pre-charge **MUST** be set in a "static" condition (pump off and at least one water fixture opened).

Depending on pre-charge pressure to the accumulator, in relation to the pump turn on/off pressures, stored liquid is about 2 to 4 oz. [60-120 ml]. If accumulator tank pre-charge exceeds pump turn on pressure, the liquid volume is reduced.

WATER HAMMER APPLICATIONS

When used as a dampening device/water hammer or noise suppressor, the pre-charge should be set at the operating (dynamic) pressure. Place a gauge in the offending plumbing where the accumulator can be mounted. Adjust the valve so the noise is generated and read the pressure. Set the pre-charge to the observed pressure, remove the gauge, and install the accumulator. Refer to SHURflo Service Bulletin #1024 for more application information.



TROUBLESHOOTING

SYMPTOMS

Does not function; pump cycles rapidly
Water leaks from valve
Does not hold air pressure
Leaks from fittings or ports

POSSIBLE SOLUTIONS

Check air pressure. Add or remove air as necessary.
Diaphragm is torn or has a hole. Replace accumulator.
Screws loose, air valve, torn/hole in diaphragm. Replace accumulator.
Check fitting connection. Ports must seal on internal port taper, Ports should not be sealed on threads with NPT fittings

TESTING AIR PRESSURE

Check air pressure with pump off and one or more faucets open [no water pressure in the system]. Adjust pressure as needed. If unit leaks water from air valve or does not hold pressure, unit must be replaced.

NOTE: There are no replacement parts or kits for this accumulator. If it is not working, it must be removed or replaced.

WINTERIZING

To winterize, drain all water from the system. Blow system out with low-pressure air, or add potable water anti-freeze. **Never** use automotive anti-freeze. Death or severe injury can occur.

SPECIFICATIONS

Maximum Working Pressure:	125 psi [25 bar]
Pre-Charge Pressure:	Models 182-100 & 182-200: 30 psi [2.07 bar] Models 182-102 & 182-202: 20 psi [1.4 bar]
Total Volume: (gas/liquid):	24 oz. [709 ml]
Temperature Range:	34-120° F [1-49°C]
Diameter:	3 3/4" [95 mm]
Length:	8 3/4" [22 cm]
Listings:	CSA & NSF listed
Housing Material:	Nylon
Bladder Material:	Butyl
Ports:	1/2-14NPSM-Male
Mounting Bracket:	Two 7/32" [5.3 mm] ϕ holes at 4-1/16" [103 mm] centerline apart

LIMITED WARRANTY

SHURflo warrants the 182 series accumulator to be free from material and workmanship defects (under normal use and service) for a period of one (1) year from the date of manufacture or one (1) year use, with proof of purchase, not to exceed two (2) years in any event.

The limited warranty will not apply to accumulators that were improperly installed, misapplied, or are incompatible with components or liquid not manufactured by SHURflo. Failure due to foreign debris is not covered under the terms of this limited warranty. SHURflo will not warrant any accumulator, which is physically damaged or altered outside the SHURflo factory. SHURflo's obligation under this warranty policy is limited to the repair or replacement of the accumulator. SHURflo is not responsible nor will it reimburse for labor necessary to remove and reinstall an accumulator if found defective.

This limited warranty covers products distributed within the United States of America. Other world market areas should consult with their distributors for any deviation from this document.



SHURflo reserves the right to update specifications, prices, or make substitutions.

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