

Please read this manual before operating the equipment

The equipment contained in this box should only be used by trained personnel wearing appropriate personal protective equipment for the fluid contained.

2000ML
PT Series Reservoir
Operating Manual



**This manual contains
Important Warnings and Instructions**

Read and retain for future reference

CUSTOMER:
WORKS ORDER:

VESSEL S/N:
DATE:

SR-TEK

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The PT Series Reservoirs fall in the Pressure Equipment Directive 2014/68/EU Article 4, Clause 3 – Sound Engineering Practice and has been certified safe to use by SR-TEK.

**If you have any questions,
please contact us for assistance.**

E-mail technical@sr-tek.com

Safety Warnings

Halogenated Hydrocarbon Fluid Hazard

NEVER USE halogenated hydrocarbon solvents or fluids containing such solvents in this equipment. Examples of halogenated hydrocarbon solvents are: trichloroethane, methylene chloride, fluids with the prefix “fluoro-“, “chloro-“, “bromo-“ or “iodo-“, etc.

These solvents can cause an explosion when used in a pressurised fluid pumping system. The resulting explosion may cause death, serious bodily injury or substantial property damage.

List of fluid recommended

The following is a non-exhaustive list of examples of fluids recommended with our reservoirs.

- Accelerators
- Activators
- Anaerobic
- Conformal coating
- Epoxies
- Fluxes
- Greases
- Silicones
- Lacquers and Optical lacquers
- Paints
- Primers
- Reagents
- UV adhesives and UV inks
- White glue
- Medium to high viscosity single part materials

For all other fluids, please refer to the manufacturer technical data sheet or contact us for compatibility check.

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Pressurized Equipment Hazard

High pressure fluid can cause serious injury. This equipment is for professional use only. Observe all warnings.

Read and understand all applicable instruction manuals before placing equipment into service.

Equipment Misuse Hazard

GENERAL SAFETY – Any use of the reservoir and related accessories not consistent with that described in this manual, such as modifying or removing parts, over pressurising, using incompatible fluids and chemicals, or using worn, damaged or incompatible parts can cause them to rupture resulting in serious bodily injury, including fluid splashed in the eyes or on the skin, or fire, explosion or other property damage.

 **NEVER** alter or modify any part of this equipment, as doing so may cause it to malfunction.

CHECK all reservoir components regularly and replace any worn or damaged parts with only SR-TEK supplied or approved parts. **BE SURE** that all connected equipment and accessories are rated to withstand the maximum operating pressure of the reservoir.

Personal Protective Equipment

Wear all protective eyewear, gloves, clothing and respirator as recommended by the manufacturer of the fluid used.

System Pressure

NEVER exceed the maximum reservoir pressure of 6.9 bar gauge (100 psi). The maximum supply pressure to the reservoir regulator must not exceed 10 bar gauge (150psi).

 **BE SURE** that all connected equipment and accessories are rated to withstand the maximum operating pressure of the reservoir.

If an Air filter regulator is not used, be certain your plant air is properly filtered and dry. Oil or particles in the air supply line can cause erratic performance and can contaminate the fluid contained, if not properly filtered.

i Fluid Compatibility

BE SURE that all fluids, including their vapours, contained in the reservoir are compatible with all materials on the wetted materials list on page 14 of this manual. Read the fluid manufacturer's literature, including the MSDS (Material Safety Data Sheet) and observe all warnings before pouring the fluid into the reservoir.

If in doubt, contact SR-TEK for chemical compatibility to ensure safe installation and use of the product

Serious injuries to people and equipment around may result from improper installation, use of the device, wrong operation, non-observance of the safety instructions, inappropriate removal of reservoir components, including lid, inappropriate repair or modifications to the product.

Fill Level

For Low to Medium viscosities fluids, pour the material directly into the tank. The tank can be filled all the way to the top.

For Medium to High viscosity fluids, transfer the material using a spatula (supplied with the tank). The tank can be filled all the way to the top.

Tipping and Dropping Hazard

BE SURE that the reservoir is placed on a hard, level surface and that all tubing lengths are of sufficient length to allow free motion of all movable components attached to the reservoir.

DO NOT pull on tubing to move the reservoir.

Tipping the reservoir or otherwise supporting it on its side can cause fluid to enter both the pressure regulator and pressure relief valve and interfere with their normal function. **A damaged pressure regulator and/or damaged pressure relief valve may lead to an over-pressure condition within the reservoir.** If the reservoir tips or the pressure regulator and/or pressure relief valve otherwise become blocked, they must be replaced with SR-TEK supplied or approved parts.

Dropping the reservoir from any height can damage the pressure regulator, pressure relief valve, and fittings and/or compromise the integrity of the reservoir body and cover. **A damaged pressure regulator and/or damaged pressure relief valve may lead to an over-pressure condition within the reservoir. A damaged reservoir body and/or cover can be an explosion hazard.** If the reservoir falls from any height, it must be thoroughly inspected for cracks or damages to the pressure regulator and pressure relief valve. If damage to a component is suspected, it must be replaced with SR-TEK supplied or approved parts.

Tubing Safety

Pressurised tubing can be very dangerous. Tubing whose integrity is compromised due to any kind of wear, damage or misuse can develop a leak, spraying the contents of the tank at high pressure. This spray can enter the eyes or cover the skin or cause other serious bodily injury, fire or property damage.

Before pressurising the reservoir:

- 1. BE SURE** all fluid connections to the reservoir are properly secured.
- 2.** Examine all tubing for cuts, wear, bulges and leaks. If any of these conditions exist, replace the tubing immediately with SR-TEK supplied or approved tubing. Do not try to repair a damaged tube.
- 3. BE SURE** that the fluid to be pressurised is compatible with the tubing. Contact the fluid manufacturer and confirm that the fluid is compatible with the tubing material specified on page .. (Wetted Materials List) of this manual.
- 4. BE SURE** that the tubing will not be exposed to operating temperatures in excess of 38 °C or below 4 °C in the application.

Operating Data

Design pressure:	100psi (6.9bar)
Permissible operating pressure	100psi (6.9bar)
Test pressure:	150 psi (10bar)
Safety valve set pressure	100psi (6.9bar)
Safety valve inspection number	TÜV SV.10-20557.5D/G
Maximum input pressure	100psi (6.9bar)
Minimum permissible operating temperature	4°C
Maximum permissible operating temperature	38°C
Internal Volume	..L
Usable volume*	..L
Material/Operating medium	Fluid Group II

* The usable volume refers to the stationary use of the pressure tank. This value does not include any reduction in volume due to internal fittings and/or the use of internal containers (e.g. jars or insert liners). Depending on the operating conditions, the usable volume must be reduced by the operator if necessary in order to avoid damage to the fittings and the internal parts (air inlet, safety devices, agitators, etc.) caused by penetration by the operating medium.

Rules and Regulations for the use of pressure tanks

The following information applies only to pressure tanks within the scope of the Pressure Equipment Directive 2014/68/EU. Material pressure tanks that fall below the limit values of Category 1 (“C0”, product of pressure PS and volume V lower than 25 bar L) are not covered by the directive.

The 1L and 5L pressure tanks fall into product group II (article 4 – 3 of PED 2014/68/EU).

Operators must observe and comply with all safety regulations and other rules and regulations relevant for the specific application as well as for the place of use, in particular those regulations imposed by trade and industry law, transport law and water protection law. Before the pressure tank is used for the first time, it is recommended to contact an authorised inspection agency to supervise pressure equipment of the corresponding category in order to determine the rules and regulations covering the specific application and coordinate further procedures.

The pressure tank has been designed, approved and marked by the manufacturer in accordance with the EU Pressure Equipment Directive 2014/68/EU. The category in which the equipment is classified, the scope of the assessment (vessel or assembly) and the applied conformity module can be found in the Certificate of Conformance.

All pressure equipment within the scope of the Pressure Equipment Directive is subject to surveillance in accordance with legislation governing safety of equipment and industrial safety.

Any person using equipment within the scope of the Regulations on Industrial Safety is required to perform an assessment of the dangers involved in using the equipment and to determine the measures necessary to ensure safe installation and operation of the equipment. In particular, this includes those dangers relating to the operation of the equipment itself as well as any dangers at the workplace resulting from interaction with other equipment or with materials or with the working environment.

Any person using pressure equipment is required to keep the equipment in an orderly condition, to operate the equipment in accordance with the rules and regulations, to monitor the condition of the equipment, to perform any necessary maintenance work without delay and to ensure that all the relevant safety measures relating to the specific application have been taken. If the equipment is found to have defects that might endanger its safe operation, it must be taken out of operation immediately.

Pressure equipment is subject to prescribed tests before being put into operation, including after any refitting or maintenance work have been carried out.

Inspection before first use

The pressure tank may be used for the first time only after it has been inspected by an approved inspection agency and has been judged to be in an orderly condition with regards to its assembly, installation, mounting conditions and safe operation.

Recurrent inspections

The pressure equipment must be periodically monitored by the inspection agency at specified intervals to ensure that it is in orderly condition. These inspections consist of internal inspections and strength tests.

Unless otherwise stipulated, internal inspections must be carried out by the inspection agency at least every 3 years, and strength tests must be performed at least every 6 years.

Inspection in special cases

If the pressure tank has been modified in any way, it must not be put into operation again until it has been checked by the notified body and its operation found to be fault-free, so far as it is affected by the modification(s).

If the allowable operating parameters (maximum allowable operating pressure, maximum allowable operating temperature) have been exceeded due to the specific application or as a result of external influences, or if the values have fallen below the minimum levels, the pressure tank must not be put in operation again until it has been checked by the notified body and has been found to be in a fault-free condition. This also applies if the tank has been exposed to fire.

Functional Description

In its standard design, an SR-TEK material pressure tank consists of a container with a removable lid, a compressed air inlet fitting assembly comprising of an air pressure regulator with back pressure control, a pressure gauge, a tested safety relief valve, a material outlet fitting consisting of an elbow fitting and ball valve assembly fitted to the material outlet.

The tank operates as a feed system to the user's material dispensing or spraying device. SR-TEK material pressure tanks are suitable for multiple fluid applications such as dosing, spraying and mixing.

The required delivery pressure or fluid flow rate is adjusted by a pressure regulator with a back pressure control in the air input side. Once the operating pressure has been set, the tank ensures an even flow of the fluid to the user's device.

2000ML-PT Replacement Parts

Part number	Description	Quantity
1.2010L-PT	2L Piston Tank Top Plate	1
2.2011B-PT	2L Piston Tank Body	1
3.2012F-PT	2L Piston Tank Base Plate	1
4.2013-PT	Lid	1
5.2014	Piston Rod	1
6.2026-PT	2L Piston	1
7.1020	Piston Pneumatic Seal	1
8.1024	Piston Material Seal	1
9.2018	Assembly Rod	4
10.5017	Rod Pneumatic Seal	1
11.5018	Rod Material Seal	1
12.OR-4-122	O-RING Base Plate, Top Plate, Piston	3
13.OR-4-62	O-RING Lid	1
14.OR-4-25	O-RING ROD	1
15. NM8SS	Nut Stainless Steel M8	4
16. NM8PLSTAR	Star Grip M8	4
17. BM4x4SET	Set Screw M4x0.7x4mm	4
18. BM8x16SSCSK	BOLT M8x16 COUNTERSUNK STAINLESS	2
19. HNIPPLE0.25	Nipple adaptor R1/4 x R1/4	1
20. HADAPTERF.25-M.125	1/8 MALE 1/4 Female BSP Nipple Adapter	1
21. HREGULATORAIR100	Pressure Regulator 0-100psi	1
22. AN-100-G	Pressure Gauge 0-100psi	1
23.HADAPTER0.125-6	Straight Adaptor G1/8 x 6mm	1
24.6PE-CL	Fluid Tubing 6mm Clear (not supplied)	1
25.100-SV	Safety valve 0.25 100psi	1
26. HNIPPLE0.5SS	Nipple NPT 1/2" Stainless steel	1
27. HELBOWF0.5-F0.5	Elbow NPT 1/2"	1
28. HBALLVALVEM0.5-F0.5SS	Ball valve stainless 316 1/2" male female	1
29. HQCONNECTORF0.25SS	HI-Lock stainless 316 Female Quick Connect	1
30. HSIGHTGL0.5SS	Sight Glass 1/2" Stainless steel	1

Accessories

Part number	Description
14NPTVAVLE-VAC	Vacuum Kit
14NPTPRESS-KIT	Pressure Kit

Conditions of use

Material pressure piston tanks are designed to be used for delivering medium to high viscosity fluids. The tank must be used only within the operating parameters specified in the Operating data (page .. of this manual).

SR-TEK undertakes the responsibility for the device subject of delivery, i.e. for the pressure device and other components of the equipment supplied. Operators are obliged to observe the applicable regulations, instructions and be personally responsible for the equipment.

This implies that operators have read, understood and observed all instructions set out in this manual. SR-TEK Ltd cannot be held responsible for property damages, injuries or any other form of losses if operating and safety instructions described in this manual have not been followed.

Before filling the tank, make sure the fluid is compatible with all wetted parts of the equipment. Information about fluid compatibility can be found on page 3 of this manual and technical data sheet of the fluid manufacturer. In doubt, please contact SR-TEK for compatibility check. Follow the safety instructions provided by the fluid manufacturer during filling operation.

 The pressure tank must not be pressurised using toxic, flammable or aggressive gases. Pressurising the tank with pure oxygen is strictly prohibited: **RISK OF EXPLOSION!**

The pressure tank must not be operated with nitrogen unless additional safety devices have been fitted. The PT Series pressure tanks are designed **to isolate materials from any form of compressed gases**. Therefore in the majority of the cases, **compressed air should be the first solution to operate the tank**.

The pressure tanks must not be used for transporting materials. Exceptions are permissible only if suitable measures have been taken by the customer to allow the tank being used at various locations within the same plant.

The pressure tank must not be used for long-term storage of materials.

The pressure tank must not be used for materials that are incompatible with the tank and all other wetted parts in the tank.

No changes or modifications should be made to the pressure tank and its components prior consulting SR-TEK.

The components and accessories fitted to the tank (safety valve, regulator, gauge, etc...) must not be changed or tempered with. The tank should be protected against dirt and contamination.

Instructions



Read carefully this operation manual before handling the device and before putting it into operation.

This operation manual is part of the product and should be kept close to it. The product should always be used by trained operators.

Observe all the safety instructions from this manual to avoid damage to the equipment and risk to the operators and staff working in close proximity of the pressure tank.

If the tank is placed in an area with risk of electrostatic charges, the pressure tank, the air line, fluid line and all electric conductive surfaces within the working area of the tank must be earthed.

Air quality and connection conditions

We strongly recommend the use of 5µm coalescing filter to achieve clean and dry compressed air supply to the tank.

Prescribed air quality as per DIN ISO 8573-1, Quality Class 4.

We recommend using the following:

- Residual maximum dust particle size: 5µm
- Residual maximum dust concentration: 8mg/m³
- Residual maximum humidity concentration: 6g/m³

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E-mail technical@sr-tek.com

Setup

1. Remove the tank lid by unscrewing all 4 plastic star grips. Temporarily store the lid by re-attaching one of the star grip or placing it on the side of the tank.
2. Ensure the piston is pushed all the way down the bottom of the tank before loading the material. If the piston is in the top position, see procedure on page to push piston in down position.
3. Fill the tank either by pouring or pumping the material directly into the tank or use a spatula (included) for the transfer.
Any air trapped can be removed by placing the tank inside a vacuum chamber or by attaching the vacuum kit supplied with the tank. See procedure on page 17 connect and use the vacuum kit.
4. Place the lid back on and secure it in place by tightening all 4 star grips.
5. If the material is self-degassing, please go to sept 6. If the material placed inside the tank requires vacuuming, please follow the steps on page 17.
6. Install the air tubing into the reservoir regulator already installed on the reservoir lid. Maximum pressure is 100 psi (6.9 bar). If no air filter regulator is available, install one.
7. Ensure the output ball valve and the pressure relief valve are both closed.
8. Slowly adjust the tank air regulator to a pressure sufficient to pressurise the material. Typical settings are 7 to 15 psi (0.5 to 1bar) for medium viscosity materials and 30psi (2 bars) or more for high viscosity materials.
9. Place a cup in front of the fluid output and slowly open the ball valve to a 1/8 of a turn to let material flow out. Once the material starts coming out of the outlet valve, close the valve.
10. Connect your fluid tubing to the outlet valve and make sure connection is tight.
11. Open the ball valve to allow the material flow into your process.

Compatibility between the equipment described in this manual, the fluid, the usage and the application remain the responsibility of the operator. Special attention must be paid to potential risks of corrosion and abrasion forming inside the tank. If signs of corrosion or abrasion are detected, safely disconnect the equipment and remove the tank away from the working area.

If, while operating with the equipment, something unusual is noticed, immediately stop all operations involving the pressure tank and contact SR-TEK.

If the tank is not installed and connected correctly, not maintained regularly, used in a different way than its intended purpose, modified in any ways or safety instructions not followed, serious injuries to operators and staff working in clause

proximity can result out of it. SR-TEK cannot be held responsible for misuse of the equipment.

Pressure Relief Procedure

 **PLEASE READ CAREFULLY** 

To reduce the risk of bodily injury, including material splashing into the eyes, **NEVER** attempt to open the reservoir without first performing this procedure.

1. Turn pressure to **0** on the reservoir air pressure regulator.
2. Actuate the air relief valve. **Hold the relief valve open until any hissing sounds end. This might take a minute.**
3. Confirm that the indicated gauge pressure is zero.
If the gauge reads zero, open the outlet valve and slowly release the four-star grips. **If any hissing sounds can be heard or material can be seen coming out, go back to step 2 wait until all pressure has escaped**, then remove the lid.
4. **If the pressure gauge does not read zero after performing Steps 1 and 2**, remove the air input hose from the air regulator and set the regulator pressure to zero. A hissing sound should be heard from the regulator during this step. **Once the gauge reads zero, return to Step 3.** If during the process, it is found that the air relief valve does not fully exhaust the pressure, contact SR-TEK to replace the valve.
Do not use the reservoir until the air relief valve is replaced.

Refilling

To open the tank, follow the Pressure Relief Procedure above.

1. Remove the tank lid by unscrewing all 4 plastic star grips. Temporarily store the lid by re-attaching one of the star grip or placing it on the side of the tank.
2. Ensure the piston is pushed all the way down the bottom of the tank before loading the material. If the piston is in the top position, replace the lid, tighten all 4 star grips and move to step 3.
3. Plug in the male quick connect pressure kit to the female quick connect mounted on the lid of the tank (See image a.)
4. Connect factory compressed air line to the male quick connect pressure kit. Ensure the outlet valve is closed.
5. Switch on factory air pressure to 3 or 4 bars and wait until the piston is pushed back all the way down. A metal noise can be heard.
6. Switch off factory air pressure and disconnect it from the pressure kit.
6. Disconnect the pressure kit from the female quick connect.
7. Remove the tank lid by unscrewing all 4 plastic star grips. Temporarily store the lid by re-attaching one of the star grip or placing it on the side of the tank. The piston should now be in the down position.

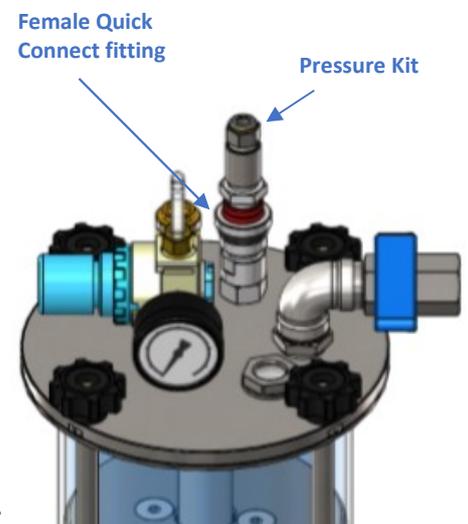


Image a.

If the piston is not in the down position, restart operation described in the steps 3 to 6, increasing the air pressure to 5 or 6.9bars.

If the piston is still not going down, contact SR-TEK.

To refill, follow the steps 1 to 11 described in the setup section.

Note: When pressurised, it is normal to hear a hissing sound coming from the regulator. This is due to the constant-bleed regulator feature.

Preparing the tank and material for feeding

Depending on the nature of your material, air bubbles might require degassing prior feeding it into your process.

There are 3 options to degas a material. The first option is to use the vacuum kit supplied with the piston tank (see image b.).

The second option is to connect a vacuum pump (not supplied) to the female Hi-Lock quick connect.

The third option is to place the tank without the lid on, into a vacuum chamber (not supplied).

Setting up the vacuum kit

The steps below describe the procedure to follow when using the vacuum kit.

1. Connect the vacuum kit to the female Hi-Lock quick connect fitting installed on the tank
2. Connect the factory air to the vacuum kit, using a 6mm OD air tubing (not supplied).
3. Turn on the factory air pressure to start degassing the Material (a hissing sound can be heard from the silencer). The duration of the vacuum is related to your process, the viscosity and volume of material poured inside the vessel.

On average, we recommend keeping the vacuum on for a period of 5 minutes for low to medium viscosity materials (e.g varnshies, oils, low viscosity epoxies, etc...) and 5 to 10 minutes for thick materials (gel, paste, grease, etc...).

6. When all the air has been drawn out, the material should reach The sight glass.
7. Switch of the factory compress air and disconnect the air line from the vacuum kit.
8. Disconnect the vacuum kit from the tank.
9. Refer to step 6 of the Setup page 14 to get the tank ready to feed your process.

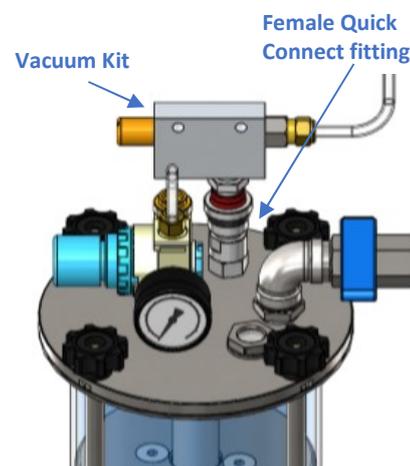


Image b.

Wetted Parts List

The following materials come in contact with the fluid during normal use:

1. Polyethylene (Air input tubing)
2. Stainless Steel 303 (reservoir body, base plate, top plate, piston, lid and outlet valve)
3. Viton seals and O-rings

**If you have any questions,
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E-mail technical@sr-tek.com

Troubleshooting

Maintenance and repair work may be carried out only on a tank which has been completely depressurised and fully disconnected from both fluid and air lines.

Trouble: Cannot set or maintain reservoir pressure		
	Possible Cause	Solution
➤	Star grips not tightened	Make sure all star grips are hand-tight
➤	Leaking feed tube	Make sure the feed tube is free from cuts
➤	Leaking fitting	Make sure the fitting connecting the tank and your system tubing is tightened. If leak continues after proper installation, replace with a new fitting.
➤	Damaged lid O-ring seal	Replace damaged O-ring seal.
➤	Damaged/malfunctioning air relief valve	Replace with new air relief valve.
➤	Kinked air supply line	Make sure air supply line is straight and protected from other equipment.
➤	Lid seal surface dirty or damaged	Clean both the tank's flange and the lid Do not use sharp or pointy tools. Make sure cover sealing surface is free from residue or other contamination. The reservoir or the lid should be replaced if there is a cut or gouge in the sealing surface deep enough to prevent the tank from achieving its set pressure.
➤	Damaged/malfunctioning air regulator	Replace with new air regulator.
➤	Damaged/malfunctioning Pressure gauge	Replace with new pressure gauge.
➤	Air supply is fluctuating	Supply system regulator is required. Set the regulator to the lowest plant air fluctuation.
Trouble: Cannot set or maintain fluid flow		

Possible Cause**Solution**

- | | |
|--|--|
| <p>➤ Material not flowing to the process</p> | <p>Ensure air has been bled from the tank.
Ensure safety valve is closed and feed valve is opened.
Ensure piston is not stock inside the tank</p> |
| <p>➤ Piston not wiping walls</p> | <p>Check the seals on the pistons. Seals might need replacing.
Ensure material compatibility and abrasiveness with the tank and the piston seals.
Make sure the piston, its seals and internal walls are free from debris, residue or other contamination.
The piston and/or its seals should be replaced if there is a cut or gouge in the sealing surface deep enough to allow the material to leak past the piston.</p> |
| <p>➤ Piston not moving</p> | <p>Check if harden material is preventing the piston from sliding up and down. Check the seals. Piston and/or seals need clean up. If problem persist, change piston and/or seals or contact SR-TEK.</p> |
| <p>➤ Ball valve blocked</p> | <p>Check if harden material is preventing the valve from opening or is blocking the flow path inside the valve.</p> |
| <p>➤ Air bubble in the material</p> | <p>Ensure air has been vacuumed out of the material. If in doubt, connect the vacuum kit and apply vacuum for a longer cycle.</p> |
| <p>➤ Insufficient Air pressure</p> | <p>Check the air pressure on the tank regulator and gauge and increase it by 0.5bar to 1bar if possible.
Check factory air pressure for pressure drop.</p> |

Trouble: Material oozing out of the tank

Possible Cause	Solution
➤ Star grips not	Make sure all star grips are hand-tight Tightened.
➤ Damaged flange or lid	Check the flange and lid for a cut or gouge in the sealing surface deep enough to allow the material to ooze past the seal. Contact SR-TEK if you find damages on the parts.
➤ Damaged body or base	Check the seal and tightness between the tube and the base. Check these parts for a cut or a gouge deep enough to allow the material to ooze past the seal. Contact SR-TEK if you find damages on the parts.

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Maintenance and Cleaning

The PT series reservoirs are very simple and reliable reservoirs that require little routine maintenance. However, the following items should be checked monthly to assure continued trouble-free operation:

1. The air relief valve must be cycled with the reservoir pressurised at least once per month. The valve should operate smoothly with normal finger pressure. If the valve requires excessive force to operate or is visibly contaminated, it must be replaced.
2. The condition of the seals and O-rings on the lid and the pistons should be checked for cuts, tears, etc. Any spills on the sealing surface of the reservoir should be wiped clean immediately with a soft, damp cloth and mild soapy water. Any cuts, tears, etc. on the piston seals mean the seal require replacing.
3. The pressure regulator should be checked at regular intervals to ensure that it is fully functional.
4. If using an abrasive material, an epoxy or an adhesive material, the inside of the tank along with all its internal components (ensure to remove piston) should be regularly check for residues, debris soft or hard, scratches, etc...
5. Actuate the outlet valve to ensure it moves freely. If the valve is hard to open/close or cannot be opened/closed, it must be replaced.
6. Check the condition of both the vacuum and pressure kit. The quick connect should actuate freely. If the quick release requires excessive force to operate or is visibly contaminated, the kits must be replaced.

If further cleaning is required, please follow the additional and safety instructions below.

Make sure the tank has been completely depressurised and discounted from both air line and fluid line.

If cleaning agents are being used on the tank, observe the manufacturer's safety instruction, especially for aggressive and corrosive cleaning agents.

Always wear proper protective clothing and breathing protection when carrying out cleaning work with chemicals.

During cleaning, ensure that material residues do not react and are not ignited by the tools and cleaning agents used.

The use of highly flammable materials means that there is an increased risk of explosion and fire in the working area.

For cleaning the tank, use only cleaning agents which **DO NOT** contain the following components: halogenated hydrocarbons (such as trichloroethane, methylene chloride, etc..) acids, and acidic cleaning agents, regenerated solvents

(so-called cleaning solvents) or paint removers. These components cause chemical reactions and can result in corrosion damage.

Additional Cleaning Instructions

If you wish to clean the PT tank thoroughly, please follow the steps below. Ensure the piston is pushed to the top of the tank prior starting this procedure.

1. Remove the tank lid by unscrewing all 4 plastic star grips.
2. Wipe the underside of the lid using a damp cloth.
3. Remove the O-ring from the lid. O-ring can be cleaned separately or replaced if necessary.
4. Unscrew the female quick connect Hi-Lock fitting using a no. 17 wrench. Fitting can be cleaned separately or replaced if necessary.
5. Unscrew the stainless fitting, elbow and ball valve assembly using a no. 22 wrench. All 3 components can then be disassembled and can be cleaned separately or replaced if necessary.
6. Unscrew the side glass using a wrench. Check the side glass and side glass seal for cracks. Both side glass and seal can be cleaned separately or replaced if necessary.
7. Remove of all 4 half nuts using no.10 wrench.
8. Remove the 2 grub screws at the top using a hex key.
9. Lift the top plate and wipe it using a damp cloth.
10. Remove the 2 counter sink screws from the piston using a hex key. Counter sink screws can be cleaned separately or replaced if necessary.
11. Insert the 2 M8 threaded rods into each screw hole and attach the handle on the rods.
12. Once securely attached, pull the piston up. Once freed, the piston can be cleaned separately or replaced if necessary.
All seals and O-rings can be removed from the piston to be cleaned separately or replaced if necessary.
13. Check the inside and bottom of the tank and wipe it with a soft damp cloth.

Once all the components have been cleaned or replaced, re-assemble the tank by following the above steps, starting from step 11 back to 1.

Safety Cleaning Instructions

Do not use hard or sharp objects to clean the tank to avoid scratching the surface.

Never immerse the complete tank in solvent or any other cleaning agent as the chemicals will damage the components mounted on the lid and temper their safety function. The tank will no longer be guaranteed.

Do not use cleaning methods which could cause corrosion or which reduce the thickness of the walls (e.g mechanical sanding or sand blasting).

Waste materials produced as a result of cleaning and maintenance work must be properly disposed of in accordance with the existing laws and regulations.

Maintenance and repair work may be carried out only on a tank which has been completely depressurised and fully disconnected from both fluid and air lines.

The use of compressed air and regular maintenance will ensure that serious faults will hardly ever occur.

All regulating and safety components must, if they have been supplied by SR-TEK, be replaced only by original SR-TEK parts. List of replacement parts can be found on page i. Wearing parts are marked in Bold.

Please contact us if you require replacement parts.

Disposal

Materials that remain after cleaning and maintenance must be disposed in compliance with the laws and regulations in place in the country where the equipment is being used. Materials, fluids, cleaning agent improperly disposed endangers the environment and health of beings.

**If you have any questions,
please contact us for assistance.**

E-mail technical@sr-tek.com

Warranty

It is the customer's duty to inspect the goods immediately after delivery. In the event of damage or defect, to raise any complaints in writing to SR-TEK. Complaints must be made within a period of 2 working days after receipt of goods.

The above also applies to excess or shortage of delivery.

SR-TEK does not accept any liability for damages or loss resulting of misuse, improper installation or operation by the customer or by third parties, normal wear and tear, incorrect or careless usage, the use of unsuitable fluids, substitute materials, defective construction work and unsuitable construction locations or from chemical, electrochemical or electrical influences, unless they are the result of our negligence.

In the event of a warranty claim, we are entitled to choose whether to repair the defect at our own expense or to provide a replacement within a reasonable period of time. If we are not prepared or able to replace or repair, or if a delay occurs for any reasons, the customer is entitled to request a partial or full refund.

The warranty period is six months.

We do not accept liability for any damage other than the delivery item itself.

In the event that liability has not been excluded, our liability to provide compensation is limited to the foreseeable damage; this does not apply if the cause of the damage is the result of wilful action.

In the case of second hand goods, we will accept liability only if these have been overhauled by us and brought to a technical state which approaches the technical state of new goods in accordance with the justified expectation of the customer.

The warranty period on second hand goods is three months.