

Star®

2 1/2 GALLON PRESSURE TANK

Operating & Maintenance Instructions

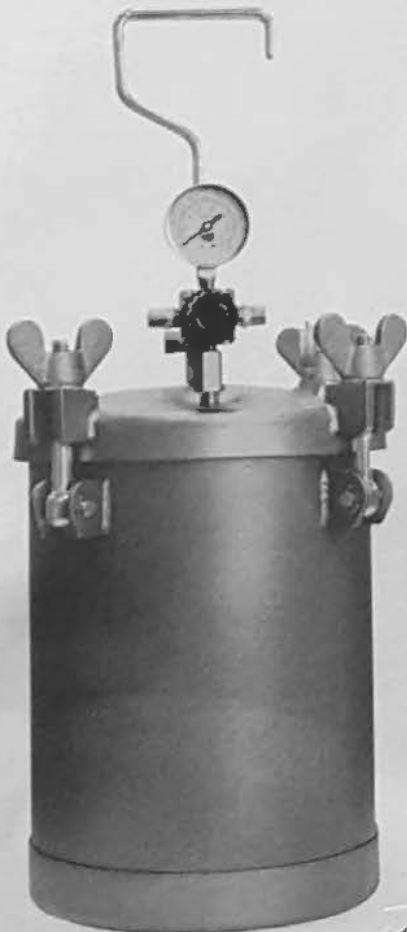
**** New Version ****

**Regulator is fixed directly
to the lid without swivel
adapter.**

ST-10HT ☒

ST-10D ☐

**For model with swivel
adapter, please see last
page.**



ST-10HT



ST-10D

SAFETY

DANGER

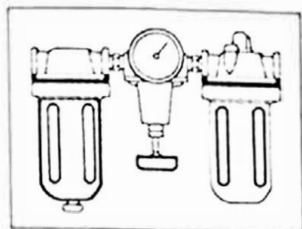


Do not attempt to operate the tool until you read and understand all safety precautions and manual instructions.

Never allow using oxygen or combustible gas as a power source for the tool. Use filtered, lubricated, and regulated compressed air only.

Never use gasoline or other flammable liquids to clean the tool. Vapors in the tool will ignite by a spark and cause the tool to explode.

While using this pressure air tank do not exceed maximum permissible operating pressure 5 bar.



- Many air tool users find it convenient to use oiler to help provide oil circulation through tool and increase the efficiency and useful life of the tool. Check oil level in the oiler daily. Many air tool users find it convenient to use a filter to remove liquid and impurities, which can rust or wear internal parts of the tool. A filter also increase the efficiency and useful of the tool. The filter must be checked on a daily basis and if necessary drained.

WARNING



- Wear hearing protection Employers and users are responsible for Ensuring the user or anyone near the tool wears this safety protection.
- Never point any operational pneumatic tools at yourself or at any other person.
- End users are responsible for the CE compliance safety valve.
- Anti electro static discharge shall be taken cant at some AEA.

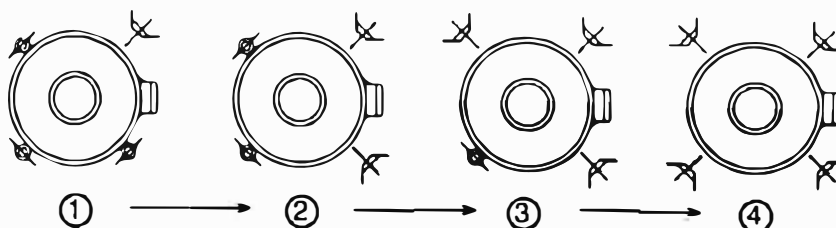


Installation of Pressure Tank

Before use, the nozzle shall be checked for well connection for inlet (compressed air) and outlet (paint hose).

Fill of contain shall not be over its 80% of shell height and follow the instruction as below,

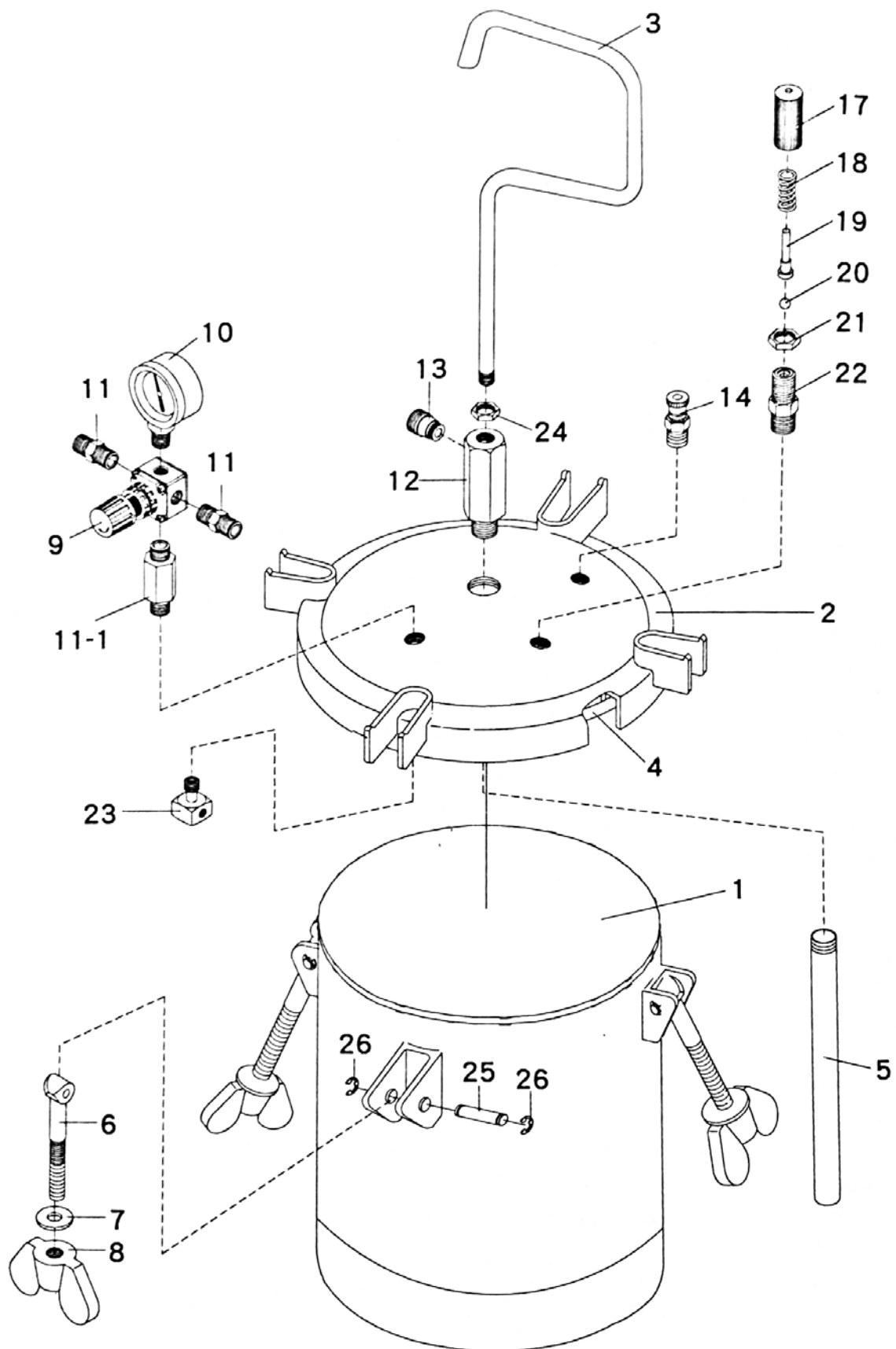
- Do not open the lid at any time before the pressure gauge returns to zero. To ensure safety, persons who operate this device shall be well trained.
- When processing the loading and unloading lids make sure that the temperature is below 40°C and the tank pressure is at 0kg/sm² G before opening the lids.
- When processing the contain loading and unloading, first loosen the wing nuts and open the lid slightly to make sure that there is not residual pressure left in the tank. After checking, remove wing nuts and fully open the lid. Loosen the wing nuts in the order as shown in following diagram.



OPEN SEQUENCE

ST-1 OHT

SCHEMATIC DRAWING



	ST-10HT DESCRIPTION	
※ 1	MATERIAL TANK	1
2	LID ASSEMBLY	1
3	HANDLE	1
4	GASKET	1
※ 5	FLUID TUBE	1
6	SWING BOLT	4
※ 7	WASHER	4
8	THUMB NUT	4
9	PRESSURE REGULATOR	1
10	PRESSURE GUAGE	1
11	ADAPTER (AIR INLET)	2
11-1	ADAPTER	1
※ 12	MATERIAL OUTLET ADAPTER	1
13	ADAPTER (FLUID OUTLET)	1
14	RELEASE VALVE	1
17	SAFETY VALVE SHELL	1
18	SPRING	1
19	NEEDLE ROD	1
20	STEEL BALL	1
21	NUT	1
22	ADAPTER	1
23	AIR FLOW GUIDER	1
24	NUT	1
25	COTTER PIN	4
※ 26	C-SNAP RING	8

NOTE : ※ Stainless steel made parts availble for stainless pressure tanks.

GENERAL INTRODUCTION

This pressure air tank is durability, all the component parts are made with the finest materials and were strictly inspected before assembly.

The surface of the whole tank were also treated with special paint to carry out a durable and cheerful appearance.

Stainless steel pressure tank is recommended for the application of waterbased material or acid material, alkaline material, Corrosive material or high viscosity material.

CAUTION

For the sake of performing perfectly all the time. Thoroughly cleaning is advised to execute right after every spraying. That ensures not only to reduce the necessity for spare parts and also to prolong the life-span of the tank.

WARNING

1 This pressure tank is only allowed to provide material pressurized up to maximum load of 80 PSI. Exceed this allowable load will result in explosion!

S.T-10D: Make sure not to adjust it over 50 psi (Low-pressure)

S.T-10HT: Make sure not to adjust it over 80 psi

2 The safety valve is designed to protect the tank from over pressurized.

The original valve of it is set as **60 PSI**.

Make sure not to adjust it if not necessary indeed.

3 Do not make drilling, welding or other form of machining to any part of the tank. Because the tampering caused by those in - proper preforming will weaken the structure.

OPERATING

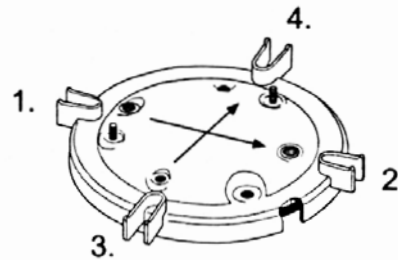
Check and make sure there is no pressurized air remained in the tank before using. If there is, release it by turning release cock clock - wise - until pressure bleeds down to Zero.

After install the cover to shell, it is necessary to check if any leakage from the interface.

It is necessary to check the tightness of nut during the usage.

- 1** Loosen all thumb nuts and swing bolts, then remove the lid assembly away from the main tank.
- 2** Pour the material being sprayed into the materials tank.
- 3** Replace the lid assembly and tighten it with main tank securely.

Tighten sequence : 1. → 2. → 3. → 4.



- 4** Connect the air supply hose to the air inlet.

Suggestion: It's better to add an air filter between this hose and the air inlet. For it can purify the air from dirt and entrained water or oil, which are not good to the material being sprayed.

- 5** Connect the atomizing air hose to the air outlet adapter.
- 6** Turn on the air valve cock-wise to gain a proper speed for the air motor to agitate the material.
- 7** Connect the material hose to the material outlet adapter.

- 8** Turn on the air supply, then turn air pressure regulator clock - wise to gain proper working pressure. (See maximum pressure on nameplate)

S T-10D: Make sure not to adjust it over 60 psi.

S T-10HT: Make sure not to adjust it over 80 psi.

- 9** Turn on air outlet adapter.

- 10** Turn on fluid outlet adapter.

- 11** Atomizing air for the spray gun can be adjust at the gun by means of turning an adjust valve on it.

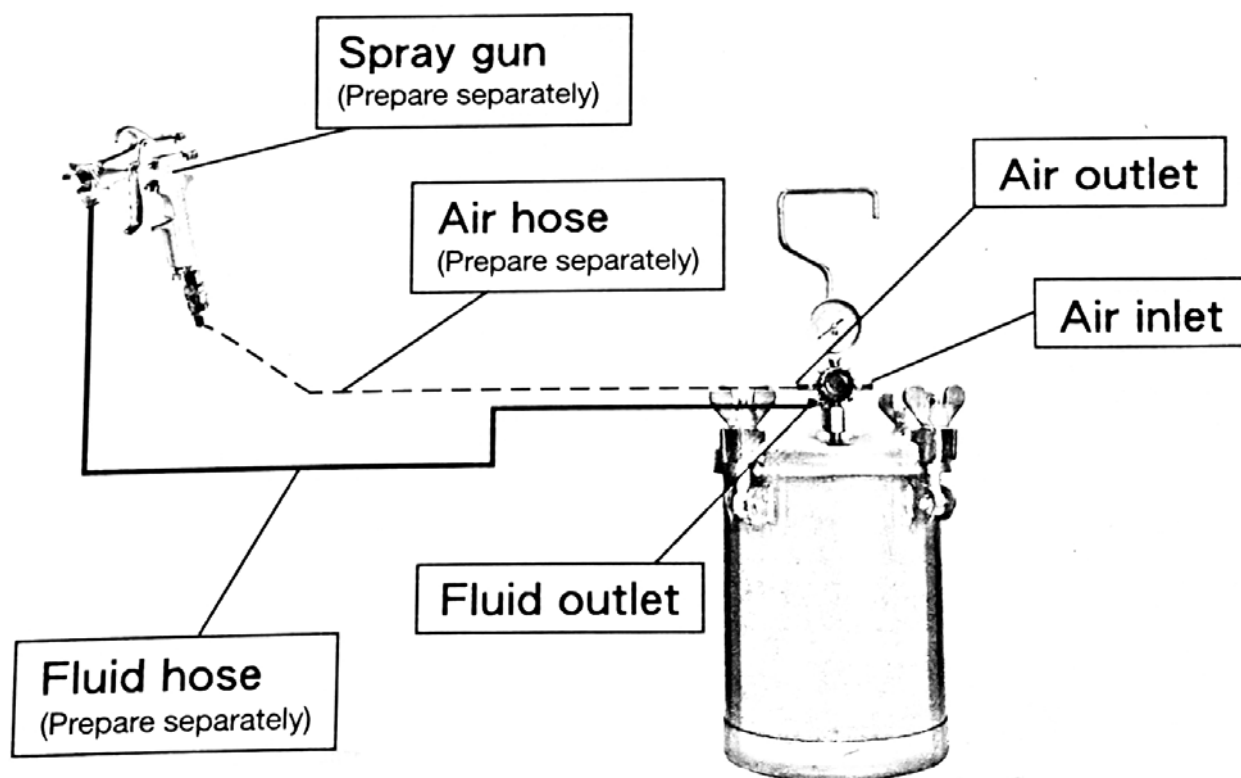
Or, adding an air regulator kit to the tank can be the same.

- 12** Operate your spray gun according to the instructions attached with it.

- 13** Refer to the figure shown for a typical assembly.



Securely connect air hoses to inlet and outlet sides and fluid hose.



CLEANING AND MAINTFNANCE

Thorough cleaning performed right after operating is always necessary.

That reduce the necessity for spare parts and also prolong the durability of the tank.

Cleaning procedure:

- 1** Turn air inlet cock off.
- 2** Turn on material cock.
- 3** Release all pressure air remains in the tank.
- 4** Loosen all thumb nuts and swing bolts, then move the lid assembly to one side of the tank.
- 5** Loosen air cap retaining ring on spray gun about 3 turns.
- 6** Cup cloth over air cap on the gun, then pull trigger. This will force material back into the tank.
- 7** Empty the material tank. Then take some proper solvent to clean all the tank and the other parts which contact with material.
- 8** Pour clean solvent into the tank.
- 9** Replace the lid assembly back and tighten all the thumb nuts.
- 10** Turn air inlet cock on.
- 11** Operate the spray gun until clean solvent appears.
- 12** Repeat steps 1 - 6 in order to force solvent back to the tank.

TROUBLE SHOOTING

PROBLEM	CAUSE	REMEDY
Indicator on air pressure gauge is out of function	Broken or damaged	Replace it
Material or air leak from lid gasket	Lid gasket is worn or thumb nuts not tightened	Replace it or tighten it
Air leak from release cock after being screwed	The O-ring in it is damaged	Replace it
Material does not come out smoothly	Fluid tube is clogged	Check and clean it
Note: Check pressure gauge occasionally. The indicator should indicate to zero when there is no pressure in the tank.		

STAR 10QP POT PARTS BREAKDOWN

S770-10QP POT PARTS

S770-10QP-2	ITEM 2 - POT GASKET TO SUIT 10 LITRE SPRAY OUTFIT
S770-10QP-4	ITEM 4 - ADAPTOR T/S 10 LITRE SPRAY
S770-10QP-5	ITEM 5 - GUAGE T/S 2 & 10 LITRE SPRAY GUN
S770-10QP-7/8/9	ITEM 7/8/9 - SWIVEL ADAPTOR C/W SAFETY VALVE T/S 10 LITRE OUTFIT
S770-10QP-11	ITEM 11 - HEX NUT T/S 10 LITRE SPRAY
S770-10QP-20	ITEM 20 - DIAPHRAGM TO SUIT 10 LITRE SPRAY OUTFIT
S770-10QP-22	ITEM 22 - DIAPHRAGM T/S 10 LITRE SPRAY - OLD TYPE
S770-10QP-2318NUT	NUT & SCREW ON 2318 REG T/S 10 LITRE
S770-10QP-HOSE	HOSE SET T/S 10 LITRE SPRAY

**** OLD Version ****

Regulator is fixed to the lid with swivel adapter.

For model without swivel adapter, please see first page.

