

PILOT

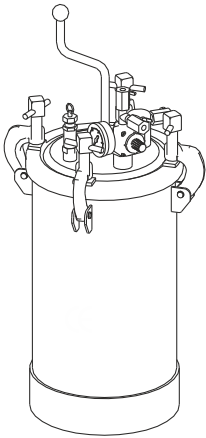


**Pressure
Feed Tank**

Service Sheet & List of Spare Parts

5, 10, 20 and 40 Litre Pressure Tanks

Maximum Air Inlet Pressure: 60psi (4 bar)
Maximum Working fluid Pressure
(For HVLP or low-pressure, fine-adjustment applications)
High-Pressure Regulated Tank: 60psi (4 bar)



Symbols

Warning symbol



This symbol alerts you to the possibility of serious injury or death if you do not the instruction.

Caution symbol



This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the follow Instructions.



EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture or malfunction and result in serious injury.

- This equipment is for professional use only.
- Read all instruction manuals, tags and labels before operating the equipment.
- Use the equipment only for its intended purpose. If you are not sure, call your pilot distributor.
- Do not alter or modify this equipment. Use only genuine pilot parts.
- Check equipment daily, repair or replace worn or damaged parts immediately.
- Do not exceeds the maximum working pressure of the lowest rated component in your system. The maximum working fluid pressure of the high-pressure regulated tanks is 60 PSI (4 bar)
- Use fluids and solvents which are compatible with the equipment wetted parts. Refer to the Technical Data section of all equipment manuals. Read the fluids and solvent manufacturer's warnings.
- Always wear protective eyewear, gloves, clothing and respirator as recommended by the fluid and solvent manufacture.
- Comply with all applicable local, state and national fire, electrical and safety regulation.

WARNING



FIRE AND EXPLOSION HAZARD

Improper grounding, poor ventilation, open flames, or sparks can cause a hazardous condition and result in a fire or explosion and serious injury.

- Ground the equipment and the object being sprayed.
- If there is any static sparking or you feel an electric shock while using this equipment. Stop spraying immediately. Do not use the equipment until you identify and correct the problem.
- Do not use 1, 1, 1-trichloroethane, ethylene chloride, other halogenated hydrocarbon solvents, or fluids containing such solvents in aluminum pumps. Such use could result in a serious chemical reaction, with the possibility of explosion.
- Provide fresh air ventilation to avoid buildup of flammable fumes from solvents or the fluid being sprayed.
- Keep the spray area free of debris, including solvent, rags and gasoline.
- Before operating this equipment, electrically disconnect all equipment in the spray area.
- Do not smoke in the spray area.
- Do not turn on or off any light switch in the spray area while spraying or while there are any fumes in the air.
- Do not operate a gasoline engine in the spray area.



MOVING PARTS HAZARD

Moving clear of all moving parts when starting or operating the agitator, can pinch or amputate your fingers or other body parts and can cause splashing in the eyes or on the skin.

- Keep clear of all moving parts when starting or operating agitator.
- Always shut off the agitator and disconnect the air line air before adjusting the angle of the agitator, removing the agitator from the drum, or checking or repairing any parts of the agitator.

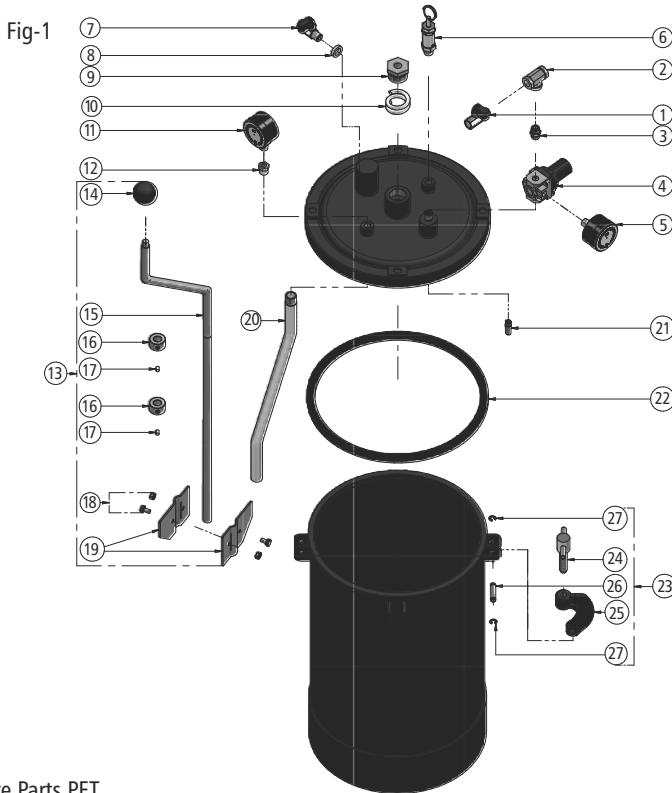


HAZARDOUS VAPORS

Hazardous fluids or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, swallowed, or inhaled. When flushing the air motor, keep your face away from the exhaust port.

Typical Systems

Accessories that are available from **PILOT**. Be sure that all accessories are properly sized to withstand the pressures in the system.



List of Spare Parts PFT

Sr. No.	Description	Code No.	Sr. No.	Description	Code No.
	PFT Tank 10Ltrs	PFT1000	14	Plastic Ball	PFT015
1	Air Intake Ball Valve	PFT001	15	Agitator Rod	PFT016
2	Tee	PFT002	16	Agitator Collar	PFT017
3	Tee Connector	PFT003	17	Grub Screw	PFT018
4	Air Regulator	PFT004	18	Bolt & Nut Set	PFT019
5	Pressure Gauge Back Thread	PFT005	19	Blade Set	PFT020
6	Safety Valve	PFT006	20	Paint Outlet Pipe	PFT021
7	Paint Outlet Ball Valve	PFT007	21	Filter	PFT022
8	Nylon Washer	PFT008	22	Rubber Gasket	PFT023
9	Agitator Guide	PFT009	23	Clamp Assembly	PFT025
10	Teflon Rope	PFT010	24	Locking Screw With Rod	PFT025A
11	Pressure Gauge Bottom Thread	PFT011	25	Clamp	PFT025B
12	Pressure Gauge Nipple	PFT012	26	M.S. Pin	PFT025C
13	Agitator Rod Assembly	PFT014	27	Circlip	PFT025D

Installation

⚠ WARNING



FIRE AND EXPLOSION HAZARD

Always maintain a minimum of 1" (25mm) clearance between rotating agitator parts and container to prevent sparks from contact.

Pressure Relief Procedure

⚠ WARNING



PRESSURIZED EQUIPMENT HAZARD

The pressure tanks remain pressurized until pressure is manually relieved. To reduce the risk of serious injury from pressurized fluids or accidental spray from the gun, always follow this procedure to relieve pressure in the tank at the following times:

- Before you check or service any part of the spray system
- Before you loosen or remove the pressure tank cover
- Whenever you stop spraying

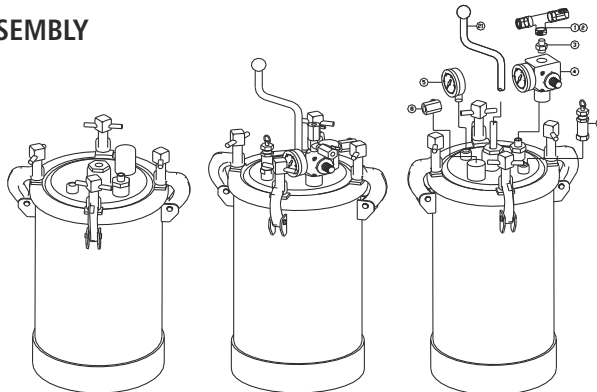
1. Shut off the air supply to the tank by closing the air inlet valve (1).
2. Open the safety valve to release the air.
3. Wait until there is no air escaping through the safety valve before removing the cover.

Recommended Hose Sizes (general purpose)

Fluid		Air	
For runs of:	Use:	For runs of:	Use:
0 to 35 ft (0 to 11 m)	3/8" ID	0 to 50 ft (0 to 15 m)	5/16" ID
35 to 100 ft (11 to 30 m)	1/2" ID	50 to 100 ft (15 to 30 m)	3/8" ID
100 to 200 ft (30 to 61 m)	3/4" ID	100 ft+ (30 m+)	1/2" ID

TOP COVER ASSEMBLY

Fig-2



Installation of part

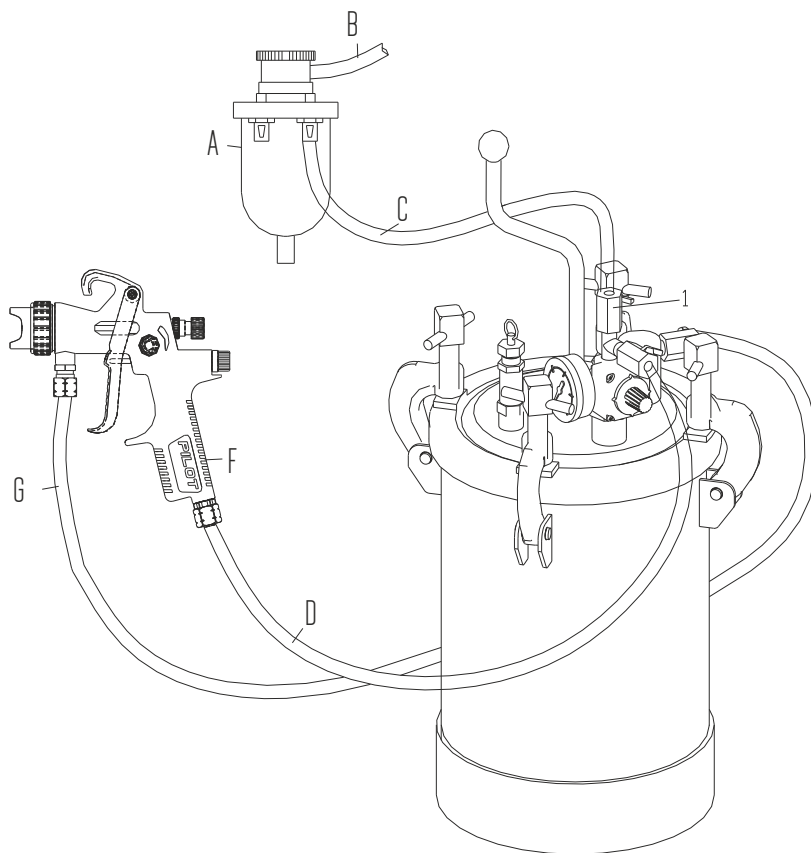
Take a part no 18, put Teflon tape on the thread and assemble on tank as shown in the fig.2

Take a part no 5, put Teflon tape on the thread and assemble on tank as shown in the fig.2

Take a part no 21, and assemble on agitator rod as shown in the assembly fig.2

Take a part no.1 put Teflon tape on the external thread assemble on the part no.4 and see the position of part no1 part no3 should not interfere with the locking screw.

Fig-3



CONNECTING HOSES

Refer to fig. 1 Install an air regulator and filter (A) upstream from the air inlet ball valve (1) to remove dirt and moisture from the compressed air supply (B). Connect an air supply hose (C) between the air inlet ball valve (1) and an air outlet of the air regulator and filter (A).

Connect the atomizing air hose (D) to the air spray gun (F) from an air outlet (3).

Connect a fluid hose (G) between the 3/8 npt (m) fluid outlet ball valve (8) and the fluid inlet of air spray gun (F).

Operation

WARNING



PRESSURIZED EQUIPMENT HAZARD

This is a pressurized tank. Always follow the Pressure Relief Procedure before opening the tank cover. This reduces the risk of serious injury, including splashing in the eyes or on the skin, or injury from moving parts. These injuries can result if the tank pressure is not fully relieved.

Preparing the fluid

Prepare fluid to be used according to manufacture instructions. Strain fluid through a fine mesh screen to remove all lumps, skin and foreign particles which could clog fluid passages or spray equipment.

1. Before filling the tank, follow the Pressure Relief Procedure.
2. Place fluid into the tank by Lifting the top cover assembly off tank and pouring directly into the tank. Do not exceed the suggested capacity of your tank.
3. Replace the cover and tighten the c-clamp handles securely.
4. Connect material hose to the fluid outlet valve.

Operating the Pressure Tank

1. Close the tank air regulator (4) by turning the knob counterclockwise and turn on the air supply.
2. Open the air inlet ball valve (1).
Adjust the tank air regulator (4) to the approximate pressure desired.
3. Open fluid outlet ball valve (8).
4. Turn on the atomizing air to the air spray gun, Test spray a small area and adjust the pressure as necessary. Always use the lowest possible air pressure to obtain the desired results.

Safety Relief Valve

Refer fig-1. A safety relief valve (18) will automatically relieve the tank pressure when the air pressure exceeds 95 to 100psi (6.5 to 7 bar). Each week, check the working order of the safety relief valve. Only as a test, raise the air pressure to 95 to 105 PSI (6.5 to 7.1 bar). If the safety relief does not relieve the pressure, replace it immediately. Do not attempt to repair it. The safety relief valve will reset automatically when the pressure is relieved.

Maintenance

Cleaning the Tank

1. First follow the Pressure Relief Procedure.
2. Follow the procedure below to force the fluid back through the hose and into the tank:
 - a. Loosen the spray gun air cap retaining ring about two turns.
 - b. Hold a rag over the air cap and trigger the gun for a few seconds, until the fluid is forced back into the tank.
3. Remove the top cover.
4. Empty the fluid from the tank and pour a suitable amount of solvent into it.
5. Replace the top cover and tighten the c-clamps.
6. Ensure that safety valve and filter are kept clean and free of material at all times.
7. Turn on the air supply.
8. Hold a metal part of the gun against a grounded metal waste container and trigger the gun into the waste container until clean solvent comes from the gun.
9. Remove the solvent from the system and wipe the inside of the tank and the rest of the equipment clean with a solvent-dampened rag.

CAUTION

Be sure that the solvent you use is compatible with the fluid being sprayed.

Manufactured by :

PBM Automation Private Limited

7, Sainath Co-operative Society Ltd., 20, Mahakali Caves Road,
Andheri (East) Mumbai - 400 093 INDIA

Tel: 91 22 660 47 000 Fax: 91 22 660 47 010

E-mail: info@pilotindia.com

www.pilotindia.com