



INSTRUCTION MANUAL

PRESSURE TANK PET- 10

Important

This manual contains IMPORTANT WARNINGS and INSTRUCTIONS.
Equipment in this manual is exclusively for painting purposes.
Do not use for other purposes.
The operator shall be fully conversant with the requirements stated in this instruction manual including important warnings, cautions and operation and correct handling.
Read and understand the instruction manual, before use and retain for reference.










This Anest- iwata pressure tank complies to ATEX regulations 94/9/EC,
Protection level :
2 G T6 X ,Suitable for use in Zones 1 and 2.
X marking :
Any static electricity discharge from the pressure tank is to be diverted to the grounded by connecting stipulated.

Important information

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1.Safety precautions

 WARNING					
<p>Wear protective gear.</p> <p>During painting, be sure to wear protective gear such as glasses, mask or gloves.</p> <p>Paints or solvents might enter your eyes or you might inhale them.</p> <p>If you feel any abnormality during operation, immediately see a medical doctor.</p>					
<p>Be careful about ventilation.</p> <p>Use it in a well-ventilated place.</p> <p>Painting or cleaning in a narrow place with insufficient ventilation can cause organic solvent poisoning by sprayed mist of paint or volatile solvent.</p> <p>If you feel any abnormality during operation, immediately see a medical doctor.</p> <p>Sprayed mist of paints or solvents can catch fire, causing fire or explosion, which is very dangerous.</p>					
<p>Danger caused by wrong operation of equipment</p> <p>Never use in another way than to apply pressure for paint transfer.</p> <p>If done, it can cause insufficient performance or failure.</p> <p>Do not use with corrosive liquids (halogenated hydrogen carbon, oxygen, alkaline)</p> <p>If done, corrosion can cause failure.</p> <p>If you consider use of a special cleaning solvent, we are ready to supply you with a material list of our pressure tank on request.</p> <p>Never point paint (gun) toward a person or animal, or put your finger in front of tip of air cap.</p> <p>If done, paint can enter human body directly through eyes, mouth or skin. It is very dangerous.</p>					
<p>Keep away from origins of explosion or fires.</p> <p>Never use near sparks or open fire. Especially the following will cause fire. It is very dangerous.</p> <ul style="list-style-type: none">Open flames such as cigarettes or pipesElectric goods such as stoves, lamps or heaters					
<p>Contact grounding.</p> <p>Securely ground pump, spray gun, workpieces and containers containing paints or solvent.</p> <p>Be sure to use Anest Iwata's designated urethane air hose (EAHU type) with built-in ground wire to have continuous grounding between pump and spray gun or connect grounding separately. Insufficient grounding will cause explosions or fire if exposed to a spark of static electricity.</p> <p>Insufficient grounding will cause explosions or fire if exposed to a spark of static electricity.</p>					
<p>Be careful about explosion of fluid hose.</p> <p>Never bend hose with a radius of less than 50mm. Never put heavy things on it.</p> <p>If done, hose can explode, causing great danger.</p> <p>Securely connect hose to avoid leak and looseness.</p> <p>If hose is disconnected during operation, hazardous hose movement and paint ejection will cause severe bodily injury.</p> <p>Never use the following hoses. Such a hose can cause great danger during operation.</p> <p>It is very dangerous.</p> <table><tr><td>cracked</td><td>damaged</td></tr><tr><td>bent</td><td>crushed or distorted</td></tr></table>	cracked	damaged	bent	crushed or distorted	
cracked	damaged				
bent	crushed or distorted				

WARNING

Be careful about explosion.

Be sure to use it at less than maximum fluid operating pressure.

If done, it can cause damage to the pressure tank or emission of paint or flying parts, resulting in serious bodily injury.

Never remove safety valve or alter setting figures.

If done, it makes it difficult to deal with emergencies, resulting in explosions or accidents.

Be sure to release pressure in pressure tank before inspecting or cleaning inside of pressure tank.

If not done, it can cause serious bodily injury through eruption of paint or flying parts.

Before maintenance or inspection, be sure to release compressed air in pressure tank and make sure by checking pressure gauge that there is no pressure remaining in the pressure tank. If you do

Maintenance or inspection while pressure remains in tank, parts being disassembled can fly out and cause injury.



Important

Never alter the pressure tank.

Be sure to use our genuine parts when you make repairs or replace parts. If not, it can cause insufficient performance or failure.

2. Check the products

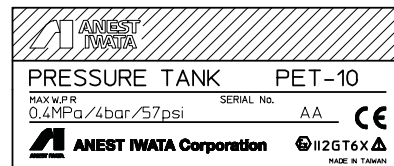
Check to make sure that the products are as ordered and that the products have not been distorted or damaged.



Front



Back



Check the accessories.

Check that accessories have been included.

Pressure regulator assembly

Handle

Instruction manual



Pressure regulator assembly



Nut

Handle



Instruction manual

How to connect

Secure pressure regulator assembly and handle with nut on tank.

⚠ CAUTION

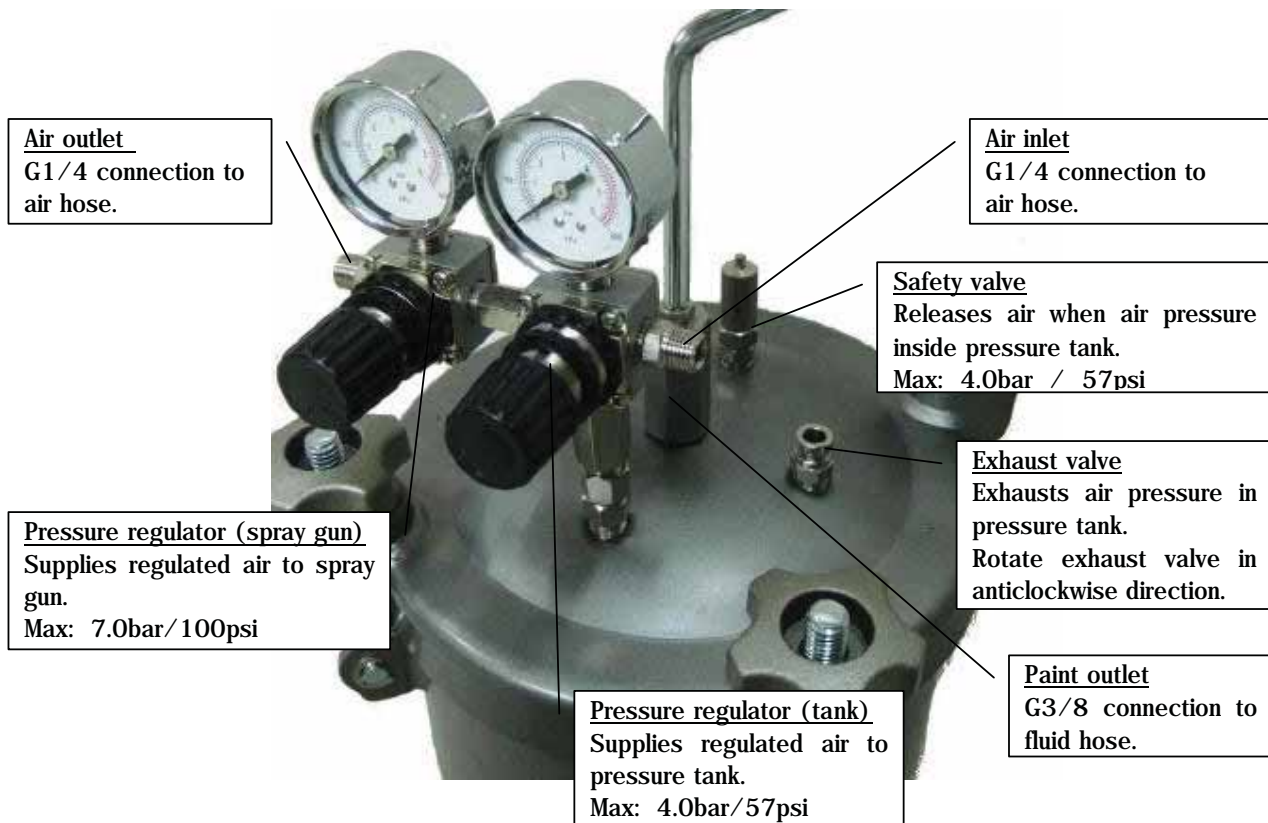
Firmly fix handle or pressure regulator assembly to tank.
If not, drop of tank can cause bodily injury.

3. Specifications

Model		PET- 10
Capacity		10L
Inner tank capacity (SUS304)		8.5L
Max. working pressure		4.0 bar/ 57psi
Ambient temperature		5 ~ 40
Pressure regulator assembly Max. operating air pressure	For tank	4.0 bar/ 57psi
	For spray gun	7.0bar/100psi
	Air inlet/Air outlet	G1/4
Fluid tube (SUS303)		1/2 "
Fluid outlet (SUS303)		G3/8
Fluid passage		Stainless Steel
Dimensions, mass	LxWxH	310x310x565 mm
	Mass	11.6 kg

4. Name of each section and function

Pressure tank feeds paint in pressure tank by pressure which is adjusted by a pressure regulator.





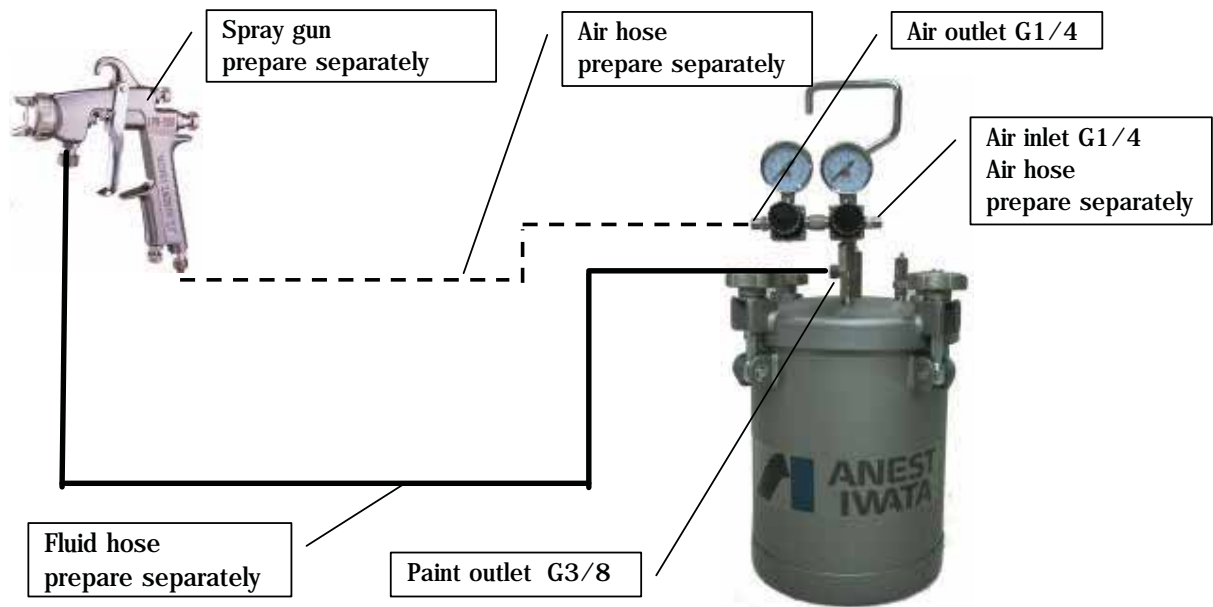
5. Installation

Important

It can cause an unpredictable accident if pressure tank suddenly moves or topples.



Install pressure tank on a horizontal surface so that it does not move.

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



6. Operation

6 - 1 .Preparation

 CAUTION	
	Be sure to release compressed air before you lift lid and inspect the inside. If not done, flying parts can cause serious injury.

Open exhaust valve and release compressed air.

If you loosen thumb nut while compressed air remains in pressure tank, flying parts or paint can cause serious injury or accidents.

Loosen thumb nut, lift lid and inspect the inside of pressure tank.

If the inside has become dirty, clean it and pour paint which is filtered.



Close lid and securely tighten thumb nut.

Tighten it evenly.

Securely connect air hose to air hose connection, and fluid hose to fluid hose connection.

Close exhaust valve.

6 - 2 .Start- up operation and adjustment

 WARNING	
	Never remove safety valve or alter setting figures. If done, safety valve cannot deal with emergencies, resulting in an explosion or accident. If shaft of safety valve becomes dirty clean it. Dirty shaft can cause failure, explosion or accident. If it is damaged or bent, you must ask a specialist to repair it. Safety valve has been adjusted to operate as follows: 4bar {57psi }

Supply compressed air.

Gradually tighten pressure regulator handle to get necessary pressure. If pressure becomes too high, loosen pressure regulator handle. Air release valve fitted to pressure regulator automatically releases air pressure in accordance with loosened value. Readjust and fix it after pressure becomes stable.

Test spray

During spray test, fully adjust both fluid pressuring air pressure and atomizing air pressure.

Relationship between fluid pressurizing pressure and atomizing air pressure

After spray test, start normal coating job.

6 - 3 .End of operation

Stop supply compressed air, open exhaust valve to release compressed air pressure in pressure tank.

Fully return pressure regulator handle (Air release device fitted to pressure regulator releases air from lower section of handle but this is not a failure)

Remove lid and take out paint in container.

Securely tighten lid, feed compressed air into pressure tank and exhaust paint in fluid hose.

After exhausting paint, stop supply compressed air at air inlet again and turn it to the left till handle movement of pressure regulator becomes light.

Clean inside of pressure tank which is in contact with paint.

6 - 4 . Precautions during operation

WARNING



•As safety valve has been adjusted during assembly at plant, do not readjust it. If done, it can cause pressure to become higher than necessary and become dangerous.

•Dirty safety valve fails and can also be dangerous. Pay special attention to this point.

Safety valves for have been adjusted to operate at 4bar {57psi }

•Be sure to release air pressure in pressure tank before replenishing paint.

If not done, parts can fly and paints scatter, which is very dangerous.

CAUTION



•Be sure to filter air through air filter and supply clean air without moisture and oil to pressure tank.

If not done, air including moisture and oil can fail paint finish.

Important

•Do not fill pressure tank to more than 80% of its capacity.

If done, paint sticks to lid during transportation, damages rubber valve of pressure regulator or reverses flow of paint.

7. Maintenance

WARNING



•When disassembling, be sure to turn handle of pressure regulator counterclockwise, and slacken it completely.

If not done, pressure can cause parts to fly and paint to scatter, causing serious bodily injury.

Refer to the following table and do the inspection and maintenance.

No.	Period	Contents of inspection and maintenance
1	Daily inspection	<p>Check cleanliness of safety valve.</p> <ul style="list-style-type: none"> • Clean if appearance is dirty. • If safety valve fails, ask a specialist to repair it. <p>Check motion of pressure gauge pointer and any damage to glass. Replace if necessary.</p> <ul style="list-style-type: none"> • Check if pointer returns to 0 position when pressure is not put. • Check if pointer moves up gradually when you put pressure gradually. • Check to make sure that glass is not broken.
2	Periodic inspection	<p>Clean pressure tank fully after use. Clean especially suction tubes and fluid hoses with solvent.</p> <p>Visually check inside and outside of the unit.</p> <ul style="list-style-type: none"> • any deformation and crack of tank • any deformation of tank lid • tightening thumb nut and bolt • air leak from tank lid packing

8.Problems and remedies

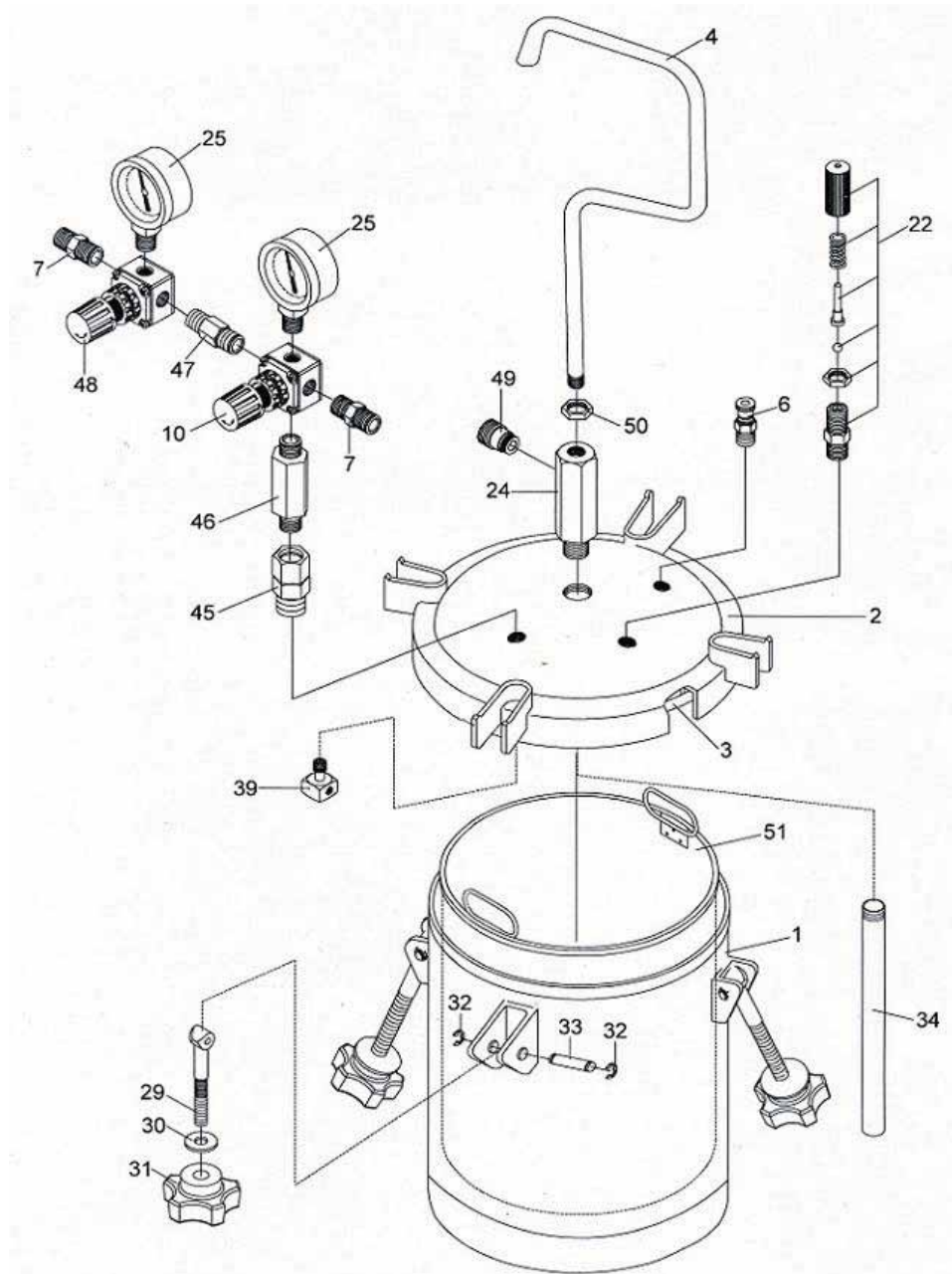
Important

Ask the distributor or the shop who sold it to you about marked items.
If they are not done properly, it can cause poor performance.

Problems	Causes	Research	Remedies
Pressure does not increase (in tank)	Forget supply compressed air.	Open exhaust valve and check exhaust of air.	Supply compressed air fully.
	Exhaust valve and thumb nut are not tightened.	Air exhausting sound is heard (not heard when normal)	Close fully.
	Pressure gauge is damaged.	Air exhausting sound is heard	Replace with new one
Paint does not come out.	Compressed air is not supplied.	Open exhaust valve and check exhaust of air.	•Supply compressed air fully. • Tighten pressure regulator.
	Forget supply compressed air.	- ditto-	- ditto-
	Paint runs out.	Remove lid and inspect inside.	Replenish paint.

9. Parts list

Pressure tank PET- 10



	Description	Q 'ty
1	Main body	1
2	Lid assembly	1
3	Gasket	1
4	Handle	1
6	Release valve	1
7	Adapter (G1/4)	2
10	Pressure regulator	1
22	Safety valve	1
24	Fluid outlet (SUS)	1
25	Pressure gauge	2
29	Screw bolt	4
30	Washer	4

	Description	Q 'ty
31	Thumb nut	4
32	C- snap ring	8
33	Cotter pin	4
34	Fluid tube (SUS 1/2 ")	1
39	Air flow guider	1
45	Adapter	1
46	Adapter	1
47	Adapter	1
48	Pressure regulator	1
49	Fluid outlet adapter(SUS G3/8)	1
50	Nut	1
51	Inner tank (SUS)	1



Important information- Safety precautions

- This product is exclusively used for coating. Do not use for other purposes than coating.
- Be sure to read and understand this instruction manual for correct operation. The operator shall be fully conversant with the requirements stated within this instruction manual including important warnings, cautions and operations.
- Wrong operation (mishandling) can cause serious bodily injury, death, fire or explosions.




Safety factor

- Safety precautions in this instruction manual are minimum requirements. Observe other regulations about electricity, safety and fire fighting designated by your country, local government and company.
- Pay special attention to items which are shown by the below marks and symbols.
- Marks and symbols mean as follows:

Marks of warnings and cautions

 WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.

Examples of symbols

	Indicates [you must be careful]. We will explain briefly in or near the symbol. (The example on the left is [be careful about ventilation].)
	Indicates [you must not do]. We will explain briefly in or near the symbol. (The example on the left is [Do not touch].)
	Indicates [you must do]. We will explain briefly in or near the symbol. (The example on the left is [be sure to wear protective mask].)

We shall not be responsible for any injury or damage caused by disregard of warnings, cautions or instructions.

Supplementary notes

Important	Indicates notes which we ask you to observe. They are helpful to achieve full performance and function of the equipment.
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