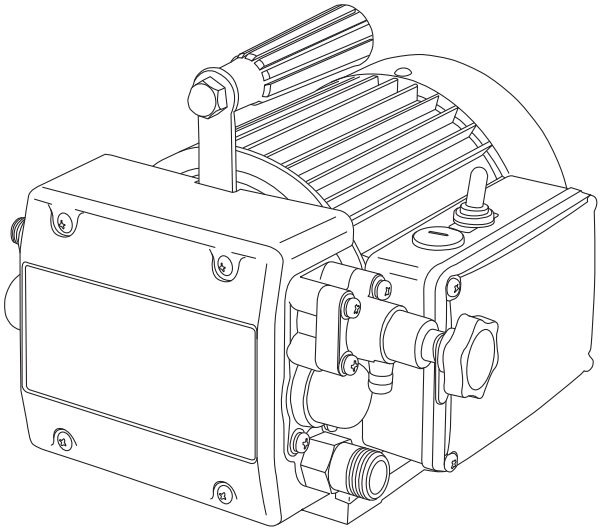
WALRUS PUMP

TH Series

Instruction Manual

Atomize Pump



Model : TH250P / TH400P

To ensure safe and proper use, please read this instruction before operation.

ISO 9001 Certified **WALRUS PUMP CO., LTD.**

INSTALLATION

1. For stable operation, pump must be placed in a horizontal site securely.
2. Check that all the hose joint gaskets, Fig 1, are equipped, tightened securely to avoid leakage.
3. Put the suction hose filter and circulation hose end merged into the water tank, and avoid the air lock within the suction hose.
4. Verify the motor voltage, and connect the electrical cable plug with power source, and then turn the motor switch on.

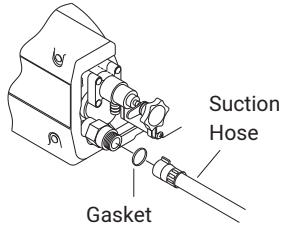


Fig. 1

OPERATION

1. Open the valve A in the output high pressure hose.
2. Check the discharge of overflow hose, and move the suction hose properly to eliminate air bulb within the overflow water.
3. Examine the motor running condition and noise.
4. Adjust the discharge pressure by the setting handle as shown in Fig. 2, and lock the setting by lock handle.
5. Be careful that the discharge pressure can not exceed designed allowable maximum output pressure, 30 kg/cm² for TH400P, and 20 kg/cm² for TH250P.

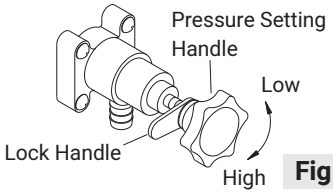


Fig. 2

MAINTENANCE

1. For long-term shutdown, do not deposit the suction hose in the water to avoid the attachment of mud or sand with filter, or it will affect suction capacity.
2. For liquid chemicals-insecticides, fungicides or herbicides agricultural spraying applications, pump and accessories must be cleaned completely by operating the pump in the clean water at least 2~3 minutes to avoid parts corrosion.
3. The pump and accessories must be kept in a dry and good ventilation environment.

IMPORTANT NOTES

1. The operating voltage and frequency are marked on the motor nameplate. Please make sure it matches the power source before power on.
2. The electrical connections should be carried out in accordance with local regulations. Earth-leakage circuit breaker and grounded must be used to avoid electrical shock.
3. The pump should be placed as close as to the reservoir to reduce the suction head.
4. Be careful not to allow the foreign objects (adhesive gum, dirt, sand, etc.)into the pump, or the pump will be damaged and shorten the life.
5. Do not start the pump without water/liquid, and water temperature can not exceed 40°C.
6. The pump is suitable for agricultural liquid chemicals spraying only; powder chemicals spraying is not allowed. Cleaning process is required after liquid chemicals spraying.

SPRAYER COMPONENTS (Fig .3)

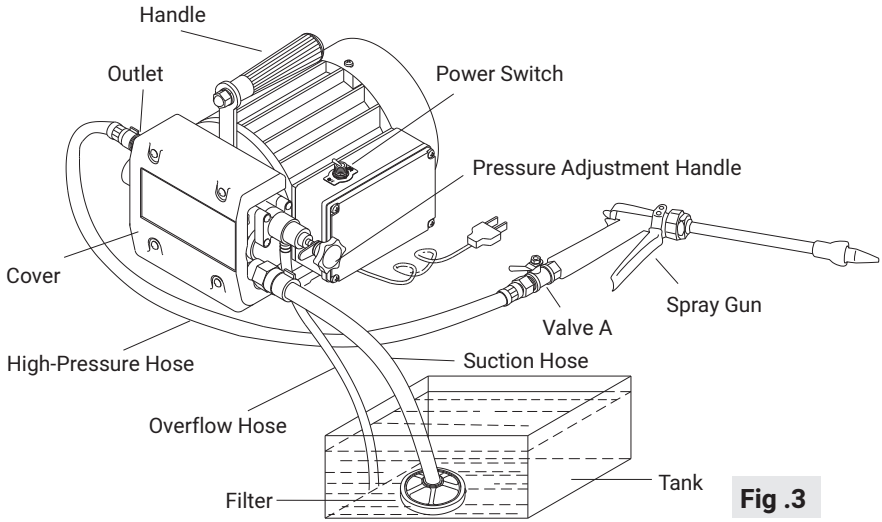


Fig .3

APPLICATIONS

1. Household and industrial washing and cleaning.
2. High pressure water supplying.
3. Garden and agricultural chemicals spraying.
4. Hydraulic piping leakage testing.

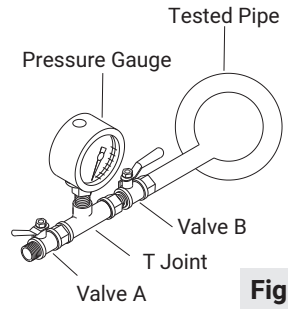


Fig .4

STANDARDARD ACCESSORIES

1. Suction hose pipe with inlet filter.
2. High pressure hose (30 ft.)
3. Overflow hose.
4. Spray gun.

OPTIONAL ACCESSORIES(Fig .4)

Hydraulic testing kit including pressure gauge, valve and high pressure hose pipe.

SPECIFICATIONS

Model	Output W	Cycle Hz	Pole P	Voltage (Single Phase) V	Pressure kg/cm²	Max. Capacity L/min	Package Size L x W x M mm
TH250P	250	50	4	200 - 240	20	7.5	358 x 288 x 261
		60		110 / 220		8.5	
TH400P	370	50	4	200 - 240	30	7.5	358 x 288 x 261
		60		110 / 220		8.5	

TROUBLE SHOOTING

(Make sure power has been turn off before trouble shooting)

Fault	Cause	Remedy
1. Motor fails to star	a) No electricity supply. b) Incorrect supply voltage. c) Defective fuses or switches. d) Motor overloading and burnt out. e) Bound pump.	Check power source. Contact power company. Replace with proper fuses or switch. Repair or replace Repair or replace.
2. Motor running but no water is discharged	a) Leakage in suction hose or air lock. b) Suction filter or hose blocked. c) Incorrect discharge pressure setting. d) Worn or broken parts (cam shaft, piston, bushes, seal etc.)	Check the hose and joint gaskets. Clean suction filter or hose. Examine the pressure setting. Repair or replace.
3. Insufficient discharge pressure	a) Leakage in discharge check valve.(caused by rust or foreign objects) b) Incorrect discharge pressure setting. c) Worn parts (cam shaft, piston, bushes, seal etc.)	Clean or repair the check valve. Re-setting the discharge pressure. Repair or replace.
4. Variant discharge pressure	a) Leakage in suction hose or air in the water. b) Worn parts (cam shaft, piston, bushes, seal, pressure setting spring, check valve, et.) c) Defective or blocked spray gun.	Check the leakage or re-place the suction hose. Repair or replace Replace or clean the gun.
5. Rapid discharge pressure drop and vibration.	a) Insufficient water supply.	Check the water supply.

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