

Troubleshooting Guide

RESOURCES

Diaphragm Pump Troubleshooting Guide

Fault	Cause	Remedy
Pump does not operate.	Air pressure is not supplied to the unit	Check air compressor and hoses Check emergency valve
	Air operating valve does not operate	Push reset button of air operating valve
	Packing's inside air operating valve are worn or damaged	Replace packing with repair service kit
	Exhaust holes of air operating valve are blocked	Clean
	Pump operating air pressure is too low	Increase supplied air pressure Increase air pressure at air regulator
	Diaphragm set of pump is worn or damaged	Replace
	Pump frozen (supplied air contains too much moisture)	Eliminate air moisture by using a dryer or water trap
	Ball sticks on intake or exhaust valve	Clean
	Packing on rod of pump is worn or damaged or Y packing is installed in the incorrect direction	Replace
Pump operation unstable. Fluid output is low. Fluid does not come out during pump operation.	Pump operating air pressure is too low	Increase supplied air pressure Increase pump operating air pressure at air regulator
	Fluid filter or suction filter are clogged	Clean or replace
	Suction hose set is clogged	Clean or replace
	Exhaust holes of air operating valve are blocked	Clean
	Pump frozen (supplied air contains too much moisture)	Eliminate air moisture by using a dryer or water trap
	Intake valve or exhaust valve are worn or damaged or paint is built up	Clean or replace
	Ball sticks on intake or exhaust valve	Clean
	O Ring or Y shape packing on rod of pump or oil less bearing are worn or damaged	Replace
	Diaphragm set of pump is damaged	Replace
	Fluid or air passage inside pump is clogged	Clean
	Diaphragm of fluid regulator is worn or damaged	Replace
Seat of fluid regulator is worn or damaged or paint is built up	Clean or replace	
Paint contains air	Suction hose set or fluid inlet joint of pump are loose	Tighten
	Lower adaptor is loose	Tighten bolts
	Diaphragm set is damaged	Replace
	Nut is loose	Tighten
	O ring is worn or damaged	Replace
	Fluid contains air by over agitating	Reduce agitation

Diaphragm Pump Troubleshooting Guide

Fault	Cause	Remedy
Pulsation or variance within spray pattern	Fluid pressure is too low	Increase fluid pressure at fluid regulator or air regulator
	Fluid filter or suction filter are clogged	Clean or replace
	Intake valve or exhaust valve is worn, damaged or paint is built up	Clean or replace
	Exhaust hole of air operating valve is blocked	Clean
	Fluid or air is leaking	Find leak and fix
Paint leaks from fluid hose or joint	Fluid hose or joint is loose or damaged	Tighten or replace
	Paint builds up on seat of fluid joint	Clean or replace
Paint leaks from between upper adaptor or lower adaptor and pump body	Adaptor is loose	Tighten bolts
	Seat packing of pump is worn or damaged	Replace
Paint leaks from between cover and pump body	Cover is loose	Tighten bolts
	Diaphragm set of pump is damaged	Replace
Paint leaks from fluid filter set	Cylinder is loose	Tighten
	Packing is worn or damaged	Replace
Paint leaks from fluid regulator	Diaphragm cap is loose	Tighten bolts
	Joint is loose, damaged or paint is built up on seat of joint	Tighten, replace or clean
	Diaphragm is worn or damaged	Replace
	O Ring is worn or damaged	Replace
Air leaks from air hose or joint	Air hose or fitting is loose or damaged	Tighten or replace
Air leaks from air operating valve	Air operating valve is not installed correctly	Tighten bolts
	Packing inside air operating valve is damaged	Replace packing with repair service kit
	Air operating valve itself is damaged	Replace
Air leaks from between cover and pump body	Cover is loose	Tighten bolts
	Diaphragm set of pump is damaged	Replace
Air leaks from air regulator	Air regulator is damaged	Replace
	Air regulator is installed in the incorrect direction	Reinstall