



Trouble Shooting

for UDOR Diaphragm Pumps

UDOR diaphragm and plunger pumps “pump volume”, not pressure. The pressure is determined by adjusting the relief valve and selecting proper orifice size of spray nozzle or nozzles.

PROBLEM	CAUSE	REMEDY
<ul style="list-style-type: none"> • NO PRESSURE • VERY LITTLE PRESSURE • PRESSURE DROPS BELOW WORKING RANGE WHEN RELIEF VALVE IS OPEN TO BOOM OR GUN 	<ol style="list-style-type: none"> 1) Plugged strainer* restricting flow 2) Suction hose obstruction 3) Collapsed suction hose inside or outside tank restricting flow 4) Pump drawing air through suction line hoses or fittings 5) Pressure relief valve stuck or worn 6) Excessive tank foam due to low tank volume 7) Nozzle volume is greater than pump capacity 8) One or more check valves seating improperly 	<ul style="list-style-type: none"> • Clean Screen • Clear obstruction • Replace collapsed hose • Examine hoses and fittings, ensure air tight fit and no leaks • Repair or replace relief valve • Refill tank • Reduce nozzle orifice size or number of nozzles used • Clean or replace check valves
<ul style="list-style-type: none"> • PRESSURE GAUGE FLUCTUATES WILDLY • EXCESSIVE PULSATION 	<ol style="list-style-type: none"> 1) Pulsation dampener pressure too low or too high 2) Pump drawing air through suction line hoses or fittings 3) Plugged strainer* restricting flow 4) Air not entirely evacuated from pump cavity 	<ul style="list-style-type: none"> • Adjust pulsation dampener pressure (Refer to pulsation dampener setting on Pump Operation Sheet) • Examine hoses and fittings, ensure air tight fit and no leaks • Clean screen • Run pump with an open discharge to totally evacuate air
<ul style="list-style-type: none"> • PUMP DOES NOT DRAW WATER 	<ol style="list-style-type: none"> 1) Pump drawing air through suction line hoses or fittings 2) Plugged strainer* restricting flow 3) One or more check valves seating improperly 	<ul style="list-style-type: none"> • Examine hoses and fittings, ensure air tight fit and no leaks • Clean screen • Clean or replace check valves
<ul style="list-style-type: none"> • PUMP OIL HAS MILKY COLOR OR OIL PLUG POPS OUT 	<ol style="list-style-type: none"> 1) One or more diaphragms have ruptured 	<ul style="list-style-type: none"> • Replace diaphragms

* NOTE - Only use filter screens that are between 10 & 20 mesh. Never use a fine filter screen with a diaphragm pump.

NOTE
TO PROTECT AGAINST SERIOUS INJURY, NEVER SPRAY FLAMMABLE LIQUIDS, OR FLUSH PUMP WITH FLAMMABLE LIQUIDS! THIS WILL VOID ANY AND ALL WARRANTIES.