Troubleshooting Hydrostatic Pressure Tester

Description

Pressure Not Increase in the outlet

1- Check main power key is ON
2- Check software has connection to machine and led is green (refer to hydrostatic software guide post)
3- Check sound of electromotor if electric is connected when you start specific line
4- If motor is running when you start a line first of all check water inlet to the pump (Fig1)
5- Check if brass filter is OK, open the cap of brass filter and check if it is clean (Fig1)
6- Check the bypass valve if it is half open (Fig1)
7- Check the pressure relief valve is set (Turn right for pressure increase and left for pressure decrease) (Fig1)
8- Check if water is coming out from pump outlet hose (Fig1)

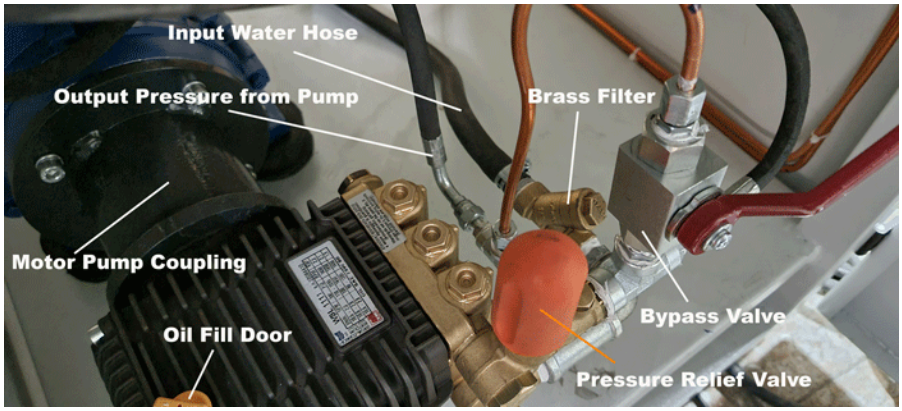

Fig1- Pump assembly

9- After checking main pump function and water connections and water inlet outlet to the pump next is solenoid valves block
10- Check if pressure lines needle valves are open (Fig2)
11- Check if when you run specific line, pressure line solenoid valves need to be electrized. Take a metal piece next to valve solenoid and it will be attracted like a magnet (Fig2)
12- Check if check valves(one way valves) are not blocked (Fig6)
13- Check if drain line needle valves are closed.

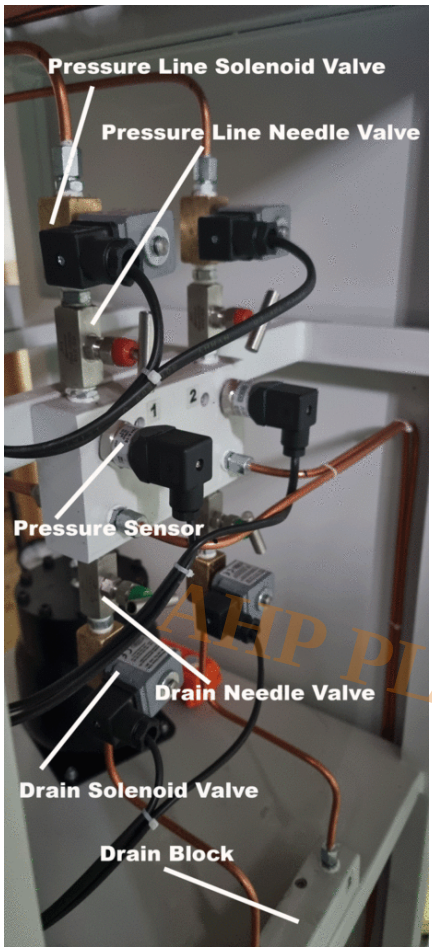

Fig2- Solenoid valves block

14- Check if all accumulators have pressure inside. accumulator pressure need to be less than minimum pressure you defined for a specific line. (Fig3)
15- For charging accumulator, just open the valve cap, open the valve and fill it with pressurized air or N2 gas, then close the valve and close the valve cap. (Fig3)

16- It is easy to change of elastomer membrane of accumulator. drain the pressure line, open the cap of accumulator and change the membrane. (Fig3)

Fig3- Accumulator assembly

17- Check pump oil level and fill in case of need (Fig4)

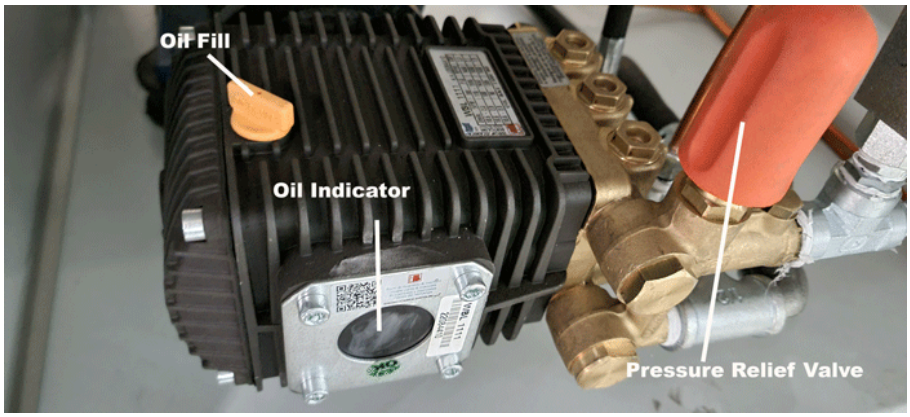

Fig4- Pump oil fill

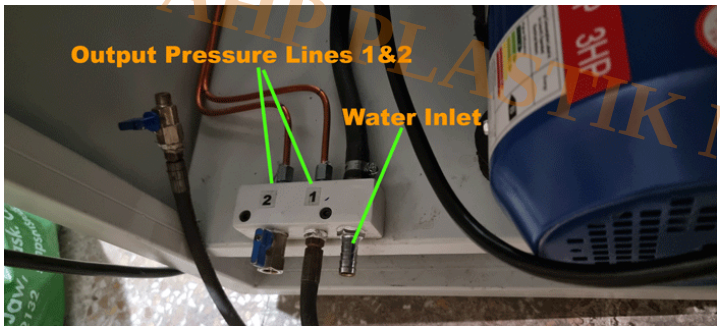

Fig5- Outlet block

18- If pressure in one line going up then getting back down it has 3 main reason: one way valve on the pressure line block(Fig6), drain needle valves are open or you have leakage in the sample piece assembly.

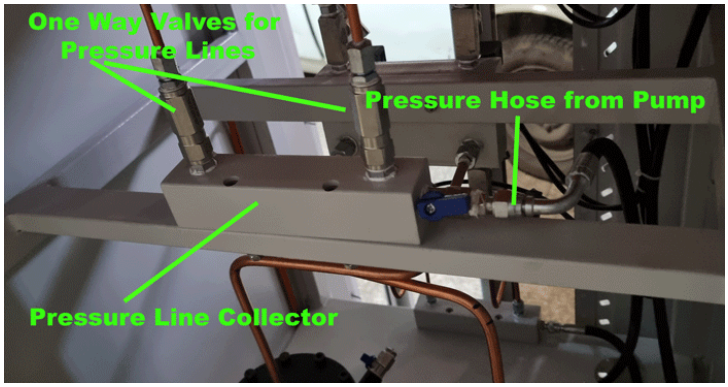

Fig6- Pressure line block

19- If you donâ€™t have connection between software and machine, first of all check the USB virtual com port (refer to com port installation guide post in info center), check DTC1000 controller RS485 and power port is tight. Check if DTC controllers has Run key in on side. Check if DTC1000 controllers have poser and leds on them are green without error. (Fig7 & Fig8)

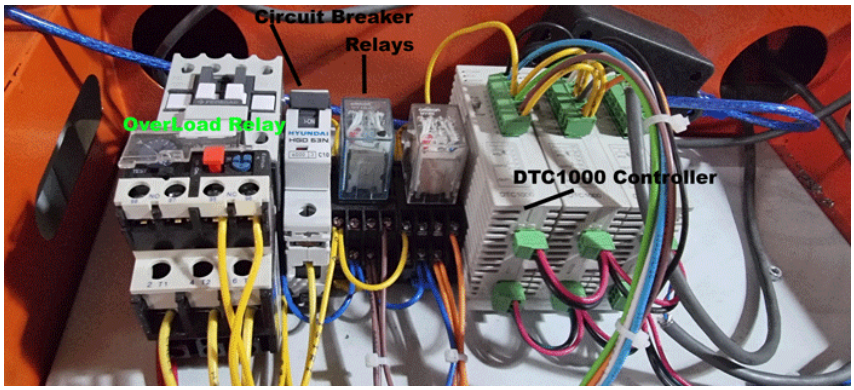

Fig7- Electric panel

20- If DTC1000 controllers are OK, then go to the overload relay if it not acted. if overload relay is acted just reset it. When DTC1000 controller has connection to PC anf you are running a line, DTC is working and motor has not acting, it is probably because of over load relay of motor acted. (Fig7)

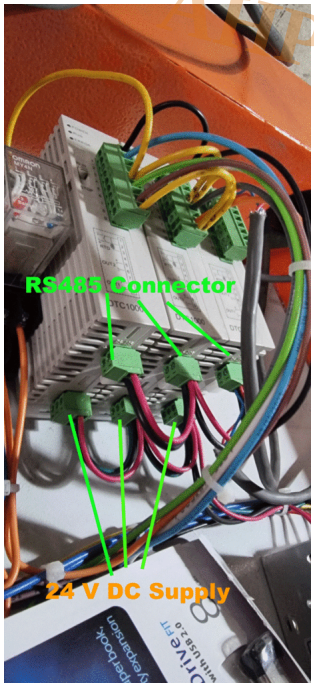

Fig8- DTC1000 controllers

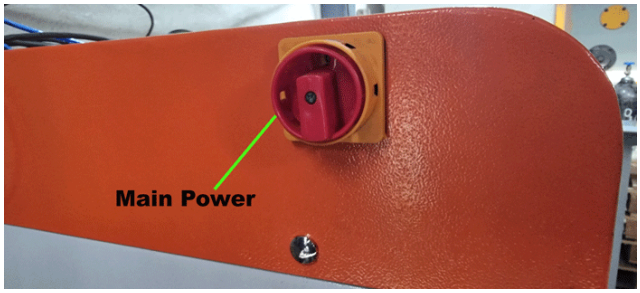

Fig9- Main power

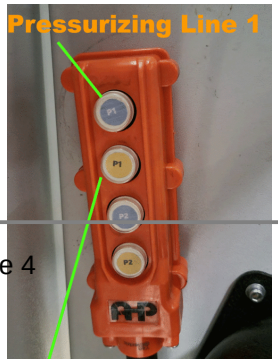

Fig10- Hand key

Fig11- RS485-USB converter

21- Always check connection between software and machine. When everything in this regard is OK, two led on RS485 converter blinking when machine is working. Detailed comments about RS485 installation and checking is on specific post in info center.

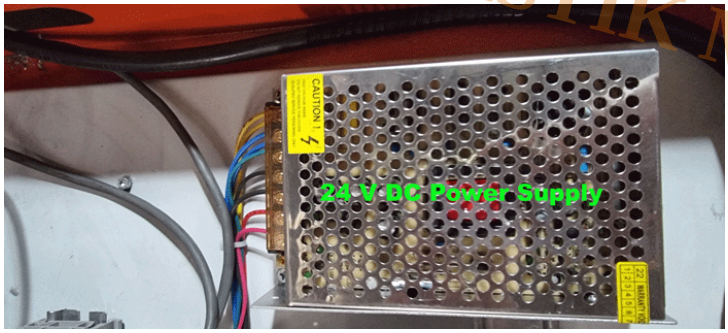

Fig12- Main DC 24V power supply

22- When you donâ€™t have leds on the DTC controllers ON, probability you have failed power 24V DC supply. check if led on power supply is on. Check input power and DC output power of DC supply.

Category

1. How to Use