

# **USER MANUAL TROUBLESHOOTING**

## **HYDRAULIC HAND PUMP**

**12 TON CAPACITY**

# Specification

<b>G.W.</b>	8.2KG / 18LBS
<b>OIL CAPACITY</b>	12 TON
<b>MAX PRESSURE</b>	9500 PSI
<b>PKG DIM</b>	720 X 240 X 230MM / 6.7" X 9.5" X 9"
<b>PUMP DIM</b>	630 X 155 X 170MM / 24.8" X 6.1" X 6.7"
<b>HOSE</b>	330MM / 13"
<b>COUPLER</b>	NPT 1/4" MALE

## TIPS:

### CAUTION:

- Please bleed away the air in the hydraulic pump by hand operating the valve before to use it.
- The valve located in the direction indicated by the arrow ( Labelled on the equipment ).
- Safe operation temp: 40°F - 105°F ( 4°C - 41°C ).
- Only anti-foaming jack oil is allowed to be added in the pump.

### HEAT PRESS FOR PAIRING:

- 10-ton portable frame
- 10-ton driptech press
- 10-ton mini press
- 12-ton press pro

**WARRANTY: 6 MONTHS**

# User Manual

## CALCULATIONS ON PRESSURE APPLIED

### **10-ton heat press (dp-hr10t35, dp-hr10t35v):**

- $2.25 \times \text{PSI reading on Gauge} = \text{Total Force Delivered} / \text{Puck Surface Area (sq/in)} = \text{PSI on the material}$

### **12-ton heat press (dp-hr12t47):**

- $2.75 \times \text{PSI reading on Gauge} = \text{Total Force Delivered} / \text{Puck Surface Area (sq/in)} = \text{PSI on the material}$

\* If pair it to your own hydraulic cylinder, please contact the cylinder manufacturer to obtain the Cylinder Effective Area to accurately measure your pressure delivered.

## HOW TO PAIR WITH A HYDRAULIC HEAT PRESS MACHINE

1. Please read the owners manual for the hydraulic hand pump before continuing to the next step for instructions on operation and maintenance.
- **Tip:** The included male coupler should be installed if you are building your own pump, OR if you experience issues with pairing OR operation.
2. Move hydraulic hand pump to working area and remove the dust cap from the end of the hose.
- **Tip:** Be sure to protect your working area from scratches during operation.
3. Attach the hydraulic pump's hose onto the fitting at the rear of the cylinder until the couplers are fully finger tightened.
4. Open the release valve on the front of the hydraulic hand pump by rotating it counter-clockwise 1 full turn.
5. Keep release valve open for 2 full minutes.
6. Close the release valve on the front of the hydraulic hand pump by rotating it clockwise until fully tight.
7. Open the bleed valve on the rear of the hydraulic hand pump by rotating it counter-clockwise 2 full turns.
8. Allow the bleed valve to purge any air from the system for 2 full minutes.
9. Close the bleed valve on the rear of the hydraulic hand pump by rotating it clockwise until fully tight.
10. Depress the handle on the hydraulic hand pump several times to begin closing the platens on the heat press machine.
11. Open the release valve on the front of the hydraulic hand pump by rotating it counter-clockwise 1 full turn.
12. Close the release valve until fully tightened.
13. Your hydraulic hand pump is now paired with your heat press machine and ready to begin working.

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## **IMPORTANT NOTICES!**

1. The pressure gauge is only partially filled with glycerine to properly dampen the pointer.
2. Maximum pressure delivered 9400 PSI (63 MPa)
3. Always wear eye protection. Always use the dust cap when disconnected from the hydraulic cylinder to prevent dust and debris from damaging the pump.
4. Only use anti-foaming hydraulic jack oil in the hydraulic hand pump.
5. Follow the hydraulic hand pump owners manual for regular maintenance.

## **QUESTIONS & ANSWERS:**

1. Question: Could I change the pressure gauge installed in the hydraulic hand pump?  
Answer: No, since this is a proprietary gauge only for use on this model hydraulic hand pump. A secondary gauge can be installed in-between the hydraulic hand pump and the hose using our Gauge Kit dp-gk35v.
2. Question: Is it normal that I lose pressure on the gauge during my pressing time? Answer: Yes this is normal for the pressure to drop as the essential oils are flowing. We suggest to slowly apply pressure to regain your desired pressure on the gauge.
3. Question: Is it normal for fluid to leak when I disconnect the hydraulic hand pump from the cylinder? Answer: Yes, usually a few drops will leak out as the couplers detach. We suggest to keep a paper towel underneath the couplers to catch any oil that may fall.
4. Question: How do I add more hydraulic jack oil to my pump? Answer: Since the pump is already filled at the factory, it is only recommended to change out the fluid as per the owners manual recommendation. Please review it before adding oil into the pump.

# Troubleshootings

## **TROUBLESHOOTING:**

THE HYDRAULIC PUMP WILL NOT HOLD PRESSURE?

1. Bleed the hydraulic pump of air through the valve
2. Insure both the release valve and the bleed valve are tightly closed.
3. Insure the quick couplers are fully hand tightened together.
4. You may need to replace the stainless steel ball bearing inside of the release valve. \*  
Please review our video information on how to complete it.