

# Instruction Manual

## Hydraulic Bottle Jack



**Note:** Owner/Operator must read and understand this instruction manual before using the hydraulic bottle jack

## **Contents**

- 1. Application**
- 2. Safety Instructions**
- 3. Operation Instructions**
- 4. Maintenance Procedures**

THANK YOU FOR CHOOSING OUR HYDRAULIC BOTTLE JACK. FOR YOUR SAFETY AND CORRECT OPERATION, PLEASE CAREFULLY READ THE MANUAL BEFORE USE.

NOTE: All of the information reported herein is based on data available at the time of printing. The factory reserves the right to modify its own products at any time without notice or incurring in any sanction. Please verify with the factory for possible updates.

## **1. Application**

The jack works in accordance with the hydraulic principle. The feature is compact, small, light and portable. They are widely used in automobiles and tractors.

The jacks are suitable only for vertical lifting jobs. The range of ambient temperature at which the jacks can be used is from +55°C to - 20°C. They should not be used in places where acid, alkali or other corrosive gases exist. The jack can be used in explosive atmosphere.

## **2. Safety Instructions**

- Never overload the jack's capacity.
- Base of jack should always rest on a firm and level surface.
- Never work under the lifted load without additional support means.
- Never operate jack in angular or horizontal position.
- The contact between the top and the lifted body must be perfect.
- When several jacks are used together. The raising speed should be coincident with each other and the dory of each should be balanced otherwise the danger of toppling over will happen.
- Apply the jack at the points indicated by the vehicle manufacturer.

- Apply the jack in such a way that it is not necessary to reach under the vehicle in order to operate the jack.
- The adjustment of the pressure relief valve is set by factory. So the user should not adjust it.

### **3. Operation Instructions**

#### **To Raise**

- Turn the delivery valve clockwise until it is firmly closed before pumping.
- Position the jack under the load and turn the extension saddle until solid contact with the load to be lifted.
- Operate the jack handle until the saddle contacts the load. Once again check to see that the saddle is correctly positioned.
- Raise the load to the desired height and then transfer the load to the vehicle support stands.

#### **To Lower**

- Raise the jack to remove vehicle support stands.
- Turn the delivery valve slowly counter-clockwise approximately 1/2 to 1 circle. If the piston is still extended, push the piston down manually so that the piston is not left exposed to the air thereby reducing exposure to rusting.

### **4. Maintenance Procedures**

#### **Important**

- The oil type is N15 for -5°C~+55°C or 7# for -20°C~ -5°C.
- Do not use any fluid other than good grade Hydraulic oil.
- Improper fluid can cause serious internal damage to the jack.

### **To Add Oil**

- Push ram down fully. Remove rubber plug from reservoir and fill oil to plug hole.

### **To Replace Oil**

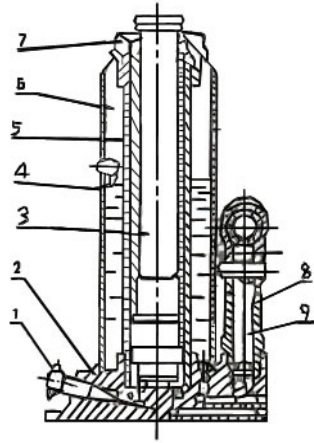
- It is recommended that the oil be replaced at least once per year for maximum life. To drain the oil, remove the filler plug. Then lay the jack on its side and let the oil run out.
- Do not allow any dirt or outside things to enter the hydraulic system.

### **Lubrication**

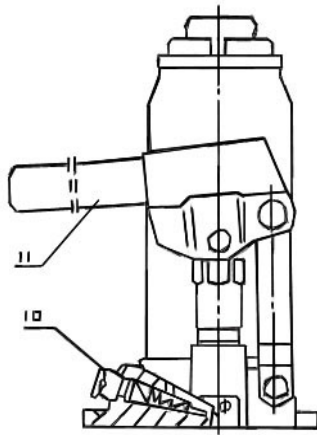
- Add correct lubrication oil to all pivoting sections every 3 months.

### **Preventing Rust**

- Check ram every 3 months for any sign of rust or corrosion. Clean and wipe the ram if it is needed. When not in use, always leave the saddle and ram all the way down.



1. Release Valve
2. Base
3. Adjusting Screw
4. Ram
5. Cylinder
6. Oil Tank
7. Top Cap
8. Pump Body
9. Pump Plunger
10. Safety Valve
11. Handle



<b>Rated Capacity (kg)</b>	<b>Minimum Height (mm) ≤</b>	<b>Lifting Height (mm) ≤</b>	<b>Saddle Rise (mm) ≤</b>	<b>Operating Force of handle (N) ≤</b>	<b>Net weight (kg) ≈</b>
2000	158	90	50	400	2.3
4000	180	110	60	400	3.3
6000	200	125	70	400	4.6
8000	200	125	80	400	5.5
10000	200	125	80	400	6.0
12000	205	120	80	400	7.2
16000	220	140	80	400	9
20000	233	143		400	11.5
32000	280	180		400	18
60000	300	180		480	33