

# Hi-Force®

HYDRAULIC TOOLS

## INSTRUCTION MANUAL:

Model Series: JSS – Steel Bottle Jacks 3 – 100 tonne

### Steel Bottle Jack Series: JSS35 – JSS1007



All Hi-Force JSS series jacks are supplied from the factory pre-filled with oil, and are ready for use.

#### 1.0 Inspection of the product upon receipt:

On receipt of the product, visually inspect the item for any evidence of shipping damage. Please note shipping damage is not covered by warranty. If shipping damage is found notify the carrier immediately and refrain from putting the product into service. The carrier is responsible for repair and replacement costs resulting from damage in transit shipment.

#### 2.0 Safety Precautions:



Read and follow all the instructions and safety warnings carefully prior to use of the equipment. Failure to do so could result in equipment damage or failure of the equipment or personal injury. Hi-Force will not be held responsible for any damage to the equipment or personal injury resulting from unsafe use of the product, lack of maintenance or incorrect operation. If in doubt on the correct usage of any Hi-Force equipment, contact your nearest Hi-Force office or distributor. If the operator has not been trained on high pressure hydraulic equipment and its safe use consult your local Hi-Force sales office who can offer you training courses for operators.



All operators should ensure that all necessary personal protective equipment as specified by their employer is worn when operating any


hydraulic equipment. Safety shoes, safety glasses/visor and protective gloves should be worn at all times. All relevant risk assessments should be completed prior to use of the equipment.

#### Description:

This equipment is provided for the purpose of lifting or lowering loads, or exerting a force, under the control of a trained operator.

The equipment is supplied completely assembled and ready for use. No service adjustments are necessary or possible during operation.

An internal safety relief valve (factory set) is fitted which limits the load that may be lifted to the equipment rated load + 10% maximum.

 Keep hydraulic Jacks away from flames and direct heat.

Hydraulic Jacks must only be serviced by a qualified technician.

To protect your warranty, only use Hi-Force's hydraulic oil.

Immediately replace any worn or damaged parts using genuine Hi-Force parts only.

#### SAFETY.

**READ THIS MANUAL BEFORE OPERATING THE JACK. FAILURE TO OBSERVE THE FOLLOWING WARNINGS COULD RESULT IN SERIOUS BODILY INJURY.**

#### Safety Features

There are two safety devices fitted as follows:

- Pressure Relief Valve to prevent overloading.
- Safety by-pass valve to limit maximum stroke.

#### 3.0 Operation

##### TO LIFT OR PUSH LOAD

Using the Operating Lever Assembly turn Release Valve Screw clockwise to close.

Put the Operating Lever into the Handle Socket and operate pump. The piston will rise and lift the load. When the piston reaches full stroke the safety by-pass valve prevents the piston from rising further.

##### TO LOWER LOAD

Using the Operating Lever turn the Release Valve Screw anti-clockwise to open. Opening the Release Valve SLOWLY will control rate of lowering. Do not overload the jack during the lowering process.

**Note:** The piston does retract under its own weight, a small load is required to return the piston.

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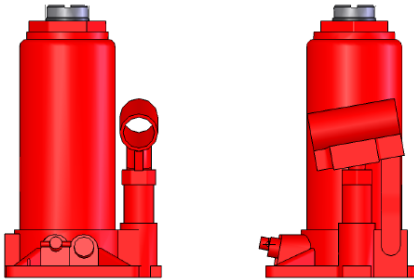


### CARE AND STORAGE

Wipe the piston clean before lowering. When the Hydraulic Jack is not in use store upright with the piston retracted in a clean environment.

### SAFETY WARNINGS!

- Always use the jack in its upright position as shown below:



- ALWAYS raise the piston to the load.
- DO NOT drop loads onto the Jack.
- ALWAYS support the base of the Jack when in use.
- NEVER go under load when only the Jack supports it.
- DO NOT attempt to lift a load greater than the capacity of the Jack.
- Provide solid and flat foundation for the jack to operate from.
- Make sure that there is sufficient spare lifting capacity and stroke when selecting Jack/s for any application.
- Check the Jack load rating before use.
- Avoid off-centre loading.

Before using any hydraulic equipment, read the operating instructions carefully and check that they are fully understood.

### CHECKING THE OIL LEVEL.

The jacks are normally supplied filled and ready for use. However before using the jack for the first time, the oil level should be checked. The oil used should be a high quality hydraulic oil of HVI ISO46 viscosity, e.g. Hi-force HFO32.



### OPERATING ENVIRONMENT

The jack is intended for use in industrial environments, in or outdoors between temperatures of -20 to +50°C. Outside these parameters, consult Hi-Force Ltd, before use.

### **Service & Maintenance:**

Only genuine Hi-Force spare parts should be used in the repair or servicing of these units.

We recommend that any servicing or repair of this equipment is only carried out by an authorised Hi-Force repair centre.

See [www.hi-force.com](http://www.hi-force.com) for more information

For full and comprehensive details on this piece of equipment and all of the Hi-Force range of lifting and jacking equipment please go to:

[www.hi-force.com](http://www.hi-force.com)

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