

Document Number	Document Revision	Document Revision Date
L2009	C	11/2017

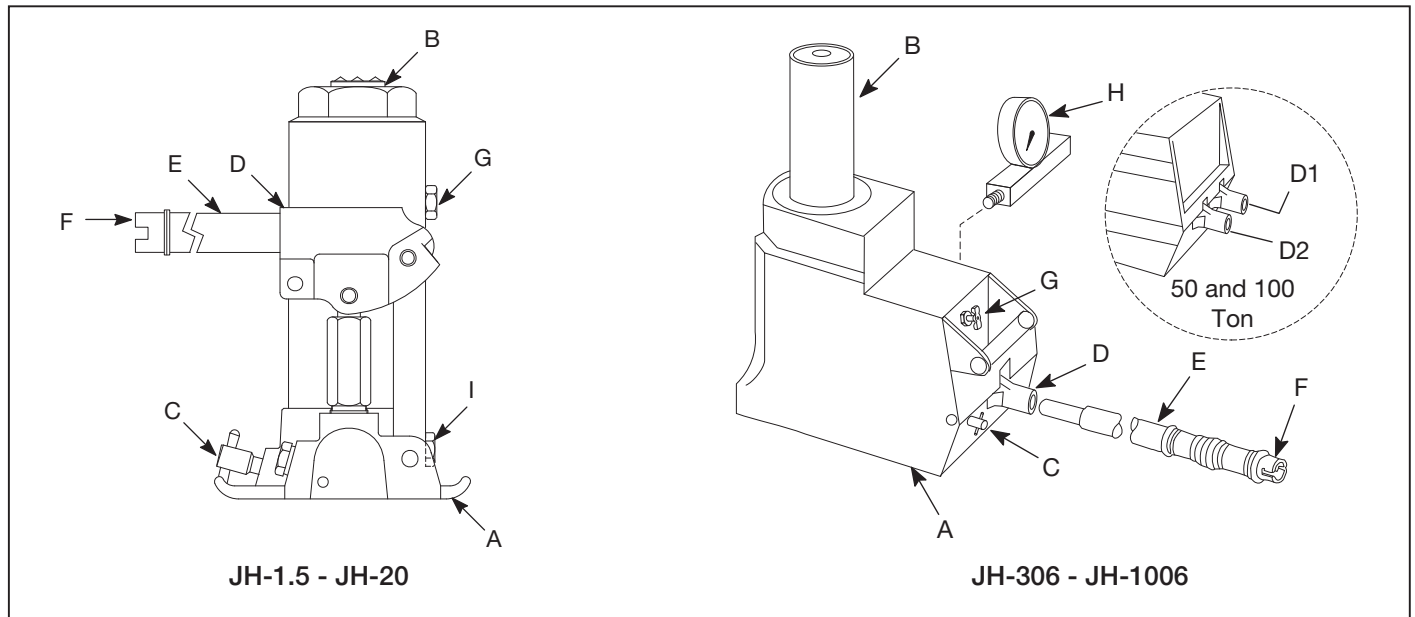
**IMPORTANT RECEIVING INSTRUCTIONS:**

Visually inspect all components for shipping damage. If any shipping damage is found, notify carrier at once. Shipping damage is NOT covered by warranty. The carrier is responsible for all repair or replacement costs resulting from damage in shipment.

**CONTENTS:**

English (EN) .....	1-4
Deutsch (DE) .....	5-10
Français (FR) .....	11-16
Español (ES) .....	17-22
Italian (IT) .....	23-28
Nederlands (NL) .....	29-33

**DESCRIPTION:**

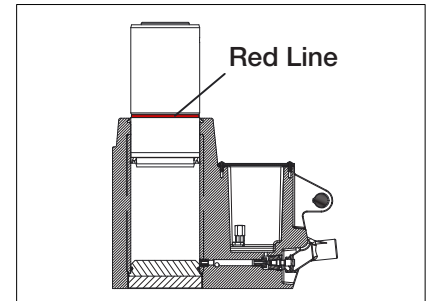


<b>A</b>	Jack Base	<b>D1</b>	Jack Beam (Speed Pump)	<b>G</b>	Air Vent/Fill Plug
<b>B</b>	Plunger	<b>D2</b>	Jack Beam (Load Pump)	<b>H</b>	Load Gauge
<b>C</b>	Release Valve	<b>E</b>	Jack Handle	<b>I</b>	Gauge Port
<b>D</b>	Jack Beam	<b>F</b>	Release Valve Wrench		

## SAFETY INFORMATION

To avoid personal injury or property damage during system operation, read and follow all CAUTIONS, WARNINGS, and INSTRUCTIONS included with or attached to each product. ENERPAC CANNOT BE HELD RESPONSIBLE FOR DAMAGE OR INJURY RESULTING FROM UNSAFE USE OF PRODUCT, LACK OF MAINTENANCE, OR INCORRECT PRODUCT AND SYSTEM APPLICATION. Contact Enerpac when in doubt as to applications and safety precautions.

- ⚠ WARNING**  
JH jacks are NOT equipped with a stop ring to retain the plunger. To prevent plunger over-extension, a port is provided to vent the oil out of the cylinder as the plunger reaches the maximum stroke. When the RED LINE around the plunger becomes visible, the plunger is at maximum extension. Further extension could result in the plunger being forced out of the cylinder.

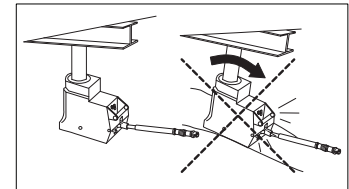


- ⚠ WARNING**  
To avoid personal injury, always wear proper personal protective gear when operating hydraulic equipment, i.e. safety glasses, gloves, etc.

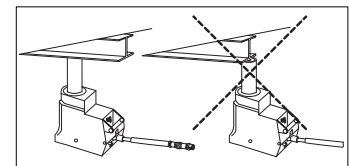
- ⚠ WARNING**  
Make sure that jacks are protected from external sources of damage, such as explosive heat, flame, moving machine parts, sharp objects, and corrosive chemicals. DO NOT expose equipment to temperatures above 150°F (65°C).

- ⚠ CAUTION**  
Use only Enerpac hydraulic fluid. DO NOT use brake or synthetic fire resistant fluids because they will damage the jack seals.

- ⚠ WARNING**  
Provide a solid and level foundation adequate to support the load being lifted.



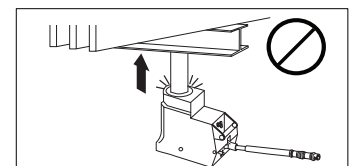
- ⚠ WARNING**  
Position the jack to distribute the load over the entire base of the jack. The jack plunger must be centered in the line of force of the load as it is being lifted.



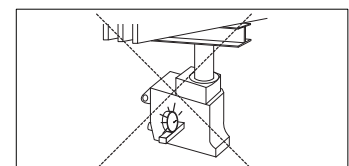
- ⚠ WARNING**  
Stay clear of loads supported by hydraulics. Jacks are lifting devices ONLY. After the load has been raised, it should be blocked, using material capable of supporting the load.



- ⚠ WARNING**  
DO NOT exceed rated stroke. If you need to lift a load further, support the load, raise the level of the jack with a sturdy support and then continue the lift.



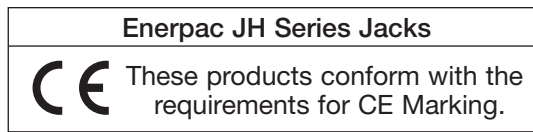
- ⚠ WARNING**  
DO NOT lift a load which exceeds the capacity of the jack. The load rating is marked on the jack nameplate.



- ⚠ WARNING**  
If the jack is subjected to abnormal or shock loads, it should be inspected immediately by a qualified hydraulic technician.

## SPECIFICATIONS

Model No.	Capacity Tons	Stroke in (cm)	Effective Area in <sup>2</sup> (cm <sup>2</sup> )	Collapsed Height in (cm)
JH-1.5	1.5	5.19 (13.2)	0.69 (4.45)	7.50 (19.1)
JHL-1.5	1.5	18.00 (45.72)	0.69 (4.45)	21.72 (55.17)
JH-3	3	5.88 (14.9)	1.23 (7.94)	8.75 (22.2)
JHL-3	3	20.00 (50.80)	1.23 (7.94)	26.31 (66.83)
JH-5	5	6.25 (15.9)	1.87 (12.1)	9.50 (24.1)
JH-8	8	6.25 (15.9)	1.87 (12.1)	9.50 (24.1)
JH-12	12	5.13 (13.0)	3.28 (21.2)	8.88 (22.6)
JH-20	20	6.50 (16.5)	5.16 (33.3)	11.00 (27.94)
JH-306	30	6.13 (16.0)	5.94 (38.3)	10.00 (25.40)
JH-506	50	6.09 (15.5)	9.62 (62.1)	10.25 (26.04)
JH-1006	100	6.06 (15.4)	20.63 (133.1)	11.31 (28.73)



## INSTALLATION

### Adding Fluid



#### **WARNING**

**Before adding fluid, make sure the plunger is fully retracted, or the system will contain more fluid than the reservoir can hold.**

1. Use wrench end of jack handle to open release valve by turning counter-clockwise.
2. Place jack on its side with fill plug facing up. Remove fill plug.
3. Slowly add Enerpac hydraulic fluid. Do not fill reservoir completely. Fluid level should be below fill plug when jack is upright.
4. Stand jack upright, allowing excess fluid to run out of fill plug hole. Replace fill plug. Clean off excess fluid.

### Removing Air

1. On 30 - 100 Ton models, open air vent.
2. Use wrench end of jack handle to open release valve by turning counter-clockwise.
3. Insert jack handle into jack pump beam and rapidly pump the handle.
4. Use wrench end of jack handle to close release valve by turning clockwise.
5. If jack operation is not smooth, repeat the air removal procedure.

## OPERATION

Check load rating on jack nameplate to make certain the jack is capable of lifting the load. Use a gauge to monitor the load. Gauge adaptor kits are available for 20,30, 50 and 100 ton jacks. Use gauge kit GF20L for JH-20 models, and gauge kit GF325 for JH-306, JH-506, and JH-1006 models.

### Raising the Load

1. On 30 - 100 ton models, open air vent.
2. Use wrench end of handle to close the release valve by turning clockwise hand tight.

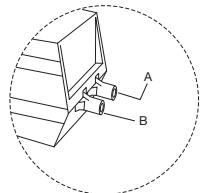


#### **CAUTION**

**Excessive tightening is unnecessary and will cause wear.**

3. Insert handle into jack pump beam and pump until desired height is reached.

**NOTE:** For 50 to 100 Ton jacks, use speed (A) pump beam until plunger reaches load. Then move the handle to load (B) pump beam to lift the load.





### CAUTION

In certain situations, the pump handle can kick back. Always keep body away from the line of force of the handle.

4. Remove jack handle when not in use.



### WARNING

Stay clear of loads supported by hydraulics. After the load has been raised, it should be blocked, using material capable of supporting the load.

#### Lowering the Load

1. Use wrench end of jack handle to open the valve a very small amount to avoid sudden dropping of the load. Turn release valve counter-clockwise very slowly to control the speed of descent.



### WARNING

NEVER turn release valve quickly to full open when there is a load on the jack. The load will fall uncontrolled, leading to personal injury and/or property damage.

2. All jacks are load return. Without a load, the plunger may not retract. Adding weight to the plunger will make it retract.



### CAUTION

If you decide to stand on the jack, be sure the jack is stable and hold on to a sturdy object to avoid injury.

## MAINTENANCE

1. Before storing, inspect and clean the jack.
2. Close the air vent on 30 - 100 Ton models.
3. Store jack upright to protect the seals.
4. Periodically lubricate the jack pump beam.

## TROUBLESHOOTING

The following is intended as an aid in determining if a problem exists. DO NOT disassemble the jack. For repair service, contact the Authorized Enerpac Service Center in your area.

Problem	Possible Cause	Solution
Jack will not rise, rises part way, or rises in spurts.	Load is too heavy.	Do not attempt to lift more than rated capacity.
	Release valve open.	Close release valve.
	Low fluid level.	Add fluid. See page 3.
	Air in system.	Remove air as directed on page 3.
	Plunger binding.	Have jack serviced by a qualified hydraulic technician.
Jack rises, but loses pressure.	Load is too heavy.	Do not attempt to lift more than rated capacity.
	Plunger seal leaking.	Have jack serviced by a qualified hydraulic technician.
Plunger will not retract.	No load on the plunger.	Put weight on the plunger to help it retract.
	Release valve closed.	Open the release valve slowly. See "Lowering the Load".
	Air vent closed. (on 30 - 100 Ton models)	Open air vent valve.
	Reservoir is over-filled.	With jack in the upright position and no load, remove fill plug and allow oil to drain out of fill hole.
	Worn or damaged seals.	Have jack serviced by a qualified hydraulic technician.
	Plunger damage.	Have jack serviced by a qualified hydraulic technician.