



# OPERATING INSTRUCTIONS

## HYDRAULIC CYLINDER:

### Before Use:

1. Using the provided handle, open the release valve by turning counter clockwise 1/2-1 full turn from the fully closed position.
2. With piston fully seated, locate and remove the oil filler plug. Insert handle into the handle sleeve and pump 6 to 8 full strokes. This should release any pressurized air which may be trapped within the reservoir from shipping. Oil level should be even with the bottom of the oil filler plug hole. Reinstall the oil filler plug. Repeat if needed.
3. Check to ensure the pump operates smoothly before putting into service. Lubricate as instructed in Hydraulic Cylinder Maintenance section.

### Pressure Application:

1. Close release valve by turning handle clockwise until firm resistance is felt to further thread engagement.
2. Insert handle into receiving sleeve and pump to apply pressure.

### Pressure Release:

1. Slowly turn the handle counterclockwise.
2. After removing load, push cylinder piston all the way down to reduce exposure to rust and contamination.

## HYDRAULIC CYLINDER MAINTENANCE:

Use only high grade hydraulic jack oil. Avoid mixing different types of fluid and NEVER use brake fluid, turbine oil, transmission fluid, motor oil, or glycerine. Improper fluid can cause failure of the cylinder. For best performance and longest life, replace the complete fluid supply at least once per year.

### ADDING OIL:

1. With cylinder piston fully depressed, place cylinder in its upright, level position. Remove oil filler plug.
2. Fill until oil is level with the filler plug hole, reinstall oil filler plug.

### CHANGING OIL:

- 1 With cylinder piston fully depressed, remove the oil filler plug.
2. Lay the jack on its side and drain the fluid into a suitable container. Dispose of used hydraulic fluid in accordance with local regulations.
3. Place the cylinder in its upright, level position. Fill until oil is level with the filler plug hole, reinstall oil filler plug.

A periodic coating of light lubricating oil to pivot points, axles and hinges will help to prevent rust and assure that cylinder assemblies move freely. Periodically check the cylinder piston for signs of rust or corrosion. Clean as needed and wipe with an oily cloth.

## TROUBLESHOOTING

Symptom	Possible Causes	Corrective Action
Cylinder will not pressurize	Release valve not closed tightly	Ensure release valve is fully closed
Cylinder loses pressure	Release valve not closed tightly	Ensure release valve is fully closed
Cylinder will not release pressure	Reservoir overfilled Linkages binding	Drain fluid to proper level Clean and lubricate moving parts
Poor pressure	Low fluid level Air trapped in system	Ensure proper fluid level With piston fully lowered, remove oil filler plug to let pressurized air escape.

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