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## Goulds J15S

# Goulds J15S Shallow Well Jet Pump User Manual

Model: J15S | Brand: Goulds

## INTRODUCTION

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This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Goulds J15S Shallow Well Jet Pump. Please read all instructions carefully before attempting to install or operate the pump. Retain this manual for future reference.



Image: Goulds J15S Shallow Well Jet Pump. This image displays the overall appearance of the pump unit, typically blue in color with a cast iron and stainless steel construction.

## SAFETY INFORMATION

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Always observe the following safety precautions to reduce the risk of injury, electric shock, or property damage:

- **Electrical Safety:** Ensure the pump is properly grounded. Disconnect power before servicing. All electrical wiring must comply with local codes and be performed by a qualified electrician. The pump operates on 115/230V, single phase.
- **Water Safety:** Do not pump flammable or corrosive liquids. Ensure the pump is installed in a dry, well-ventilated area, protected from freezing temperatures.
- **Pressure Safety:** Do not exceed the maximum operating pressure of the pump. Use appropriate pressure relief valves if necessary.
- **Personal Protective Equipment:** Wear safety glasses and gloves when installing or servicing the pump.

## SETUP AND INSTALLATION

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### 1. Pre-Installation Checks

- Verify that the pump model (J15S) matches your requirements.
- Inspect the pump for any shipping damage.
- Ensure the power supply (115V or 230V, single phase) matches the pump's requirements.
- Confirm the well depth is suitable for a shallow well jet pump.

### 2. Mounting the Pump

Mount the pump on a firm, level foundation to minimize vibration. Use bolts to secure the pump base to the foundation. Ensure adequate space around the pump for ventilation and service access.

### 3. Plumbing Connections

- Connect the suction line from the well to the pump's suction port. Ensure all connections are airtight to prevent air leaks.
- Connect the discharge line from the pump to your plumbing system.
- Install a check valve in the suction line to maintain prime.
- Install a pressure gauge on the discharge side for monitoring.

### 4. Electrical Connections

All electrical work must be performed by a qualified electrician in accordance with national and local electrical codes.

- Ensure the power supply is disconnected at the circuit breaker before wiring.
- Wire the pump motor to the appropriate voltage (115V or 230V) as indicated on the motor nameplate.
- Properly ground the pump motor and control box.

### 5. Priming the Pump

Before initial operation, the pump must be primed:

1. Remove the priming plug located on the top of the pump casing.
2. Fill the pump casing completely with clean water until it overflows.
3. Replace the priming plug securely.
4. Open a faucet in the discharge line to allow air to escape during startup.

## OPERATING INSTRUCTIONS

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### 1. Starting the Pump

1. Ensure the pump is properly primed.
2. Turn on the electrical power to the pump.
3. The pump should start and begin to build pressure. Water should flow from the open faucet.
4. Once a steady stream of water flows and all air is expelled, close the faucet.

### 2. Monitoring Operation

- Regularly check the pressure gauge to ensure the pump is operating within its normal pressure range.
- Listen for unusual noises or vibrations, which may indicate a problem.
- Ensure there are no visible leaks from the pump or plumbing connections.

### 3. Shutting Down

To shut down the pump, simply turn off the electrical power at the circuit breaker or switch.

## MAINTENANCE

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### 1. Regular Checks

- **Monthly:** Inspect all plumbing connections for leaks. Check electrical connections for corrosion or looseness.
- **Annually:** Inspect the pump for wear and tear. Check the pressure tank air charge if applicable.

### 2. Winterization

If the pump is installed in an area subject to freezing temperatures, it must be winterized to prevent damage:

1. Disconnect power to the pump.
2. Drain all water from the pump casing and plumbing lines by opening drain plugs and faucets.
3. Store the pump in a warm, dry location if possible, or ensure all water is completely removed.

### 3. Cleaning

Keep the exterior of the pump clean and free of debris to ensure proper ventilation.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Pump runs but delivers no water	Loss of prime, air leak in suction line, clogged suction line, low well water level	Re-prime pump, check all suction connections for leaks, clear obstruction, check well level
Pump cycles too frequently	Leaking plumbing, waterlogged pressure tank, faulty pressure switch	Check for leaks, recharge pressure tank, replace pressure switch
Pump does not start	No power, tripped circuit breaker, faulty motor, faulty pressure switch	Check power supply, reset breaker, consult qualified technician, replace pressure switch
Low water pressure	Partially clogged impeller, air leak, worn pump components, low well yield	Inspect and clean impeller, check for air leaks, consult technician, check well capacity

## SPECIFICATIONS

Feature	Specification
Model Number	J15S
Brand	Goulds
Horsepower	1.50 HP
Phase	Single Phase
Voltage	115/230 V
Material	Cast Iron, Stainless Steel
Item Weight	65 Pounds
Power Source	AC
UPC	737946889993

## WARRANTY AND SUPPORT

Goulds pumps are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or visit the official Goulds website. For technical support or service, please contact an authorized Goulds service center or your product dealer.