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› Goulds 5GS15 5 GPM 4-inch Submersible Water Well Pump End Instruction Manual

## Goulds 5GS15

# Goulds 5GS15 5 GPM 4-inch Submersible Water Well Pump End Instruction Manual

For models requiring a 1.5 HP motor

## INTRODUCTION

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This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Goulds 5GS15 5 GPM 4-inch Submersible Water Well Pump End. This product is a pump end only and requires a separate 1.5 HP motor for complete functionality. Please read these instructions thoroughly before attempting any installation or operation.

## SAFETY INFORMATION

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**WARNING:** Failure to follow these safety instructions could result in serious injury, death, or property damage.

- Always disconnect power before servicing the pump or motor.
- Installation and electrical connections must be performed by qualified personnel in accordance with all local and national electrical and plumbing codes.
- Ensure the well casing is properly grounded.
- Do not operate the pump in a dry well. Dry running will cause severe damage to the pump.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.

## PRODUCT OVERVIEW

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The Goulds 5GS15 pump end is designed for use in 4-inch or larger diameter water wells. It is constructed from durable stainless steel and is engineered to deliver a flow rate of 5 gallons per minute (GPM). This unit is specifically the pumping section and must be coupled with a compatible 1.5 HP submersible motor (not included) to form a complete submersible well pump system.



Image: The Goulds 5GS15 5 GPM 4-inch Submersible Water Well Pump End. This image displays the stainless steel pump end, which is the water-moving component of a submersible well pump system.

## SPECIFICATIONS

Specification	Value
Brand	Goulds
Model Number	5GS15
Product Style	Submersible Pump End
Material	Stainless Steel
Maximum Flow Rate	7.5 Gallons Per Minute (GPM)
Nominal Flow Rate	5 Gallons Per Minute (GPM)
Required Motor Horsepower	1.5 HP
Item Weight	15 Pounds
UPC	697666004628

## SETUP AND INSTALLATION

Installation of a submersible well pump system is a complex task that requires specialized knowledge and tools. It is strongly recommended that installation be performed by a certified well drilling contractor or a qualified pump installer.

### Pre-Installation Checks:

- Verify that the well diameter is at least 4 inches.
- Ensure you have a compatible 1.5 HP submersible motor.
- Inspect the pump end for any shipping damage.
- Confirm all necessary plumbing and electrical components are available and meet local codes.

### Installation Steps (Overview):

1. **Motor Coupling:** Carefully align and attach the pump end to the 1.5 HP submersible motor according to the motor manufacturer's instructions. Ensure a secure and watertight connection.
2. **Pipe and Wire Connection:** Connect the discharge piping and electrical wiring to the pump/motor assembly. Use appropriate waterproof splices for electrical connections.
3. **Lowering into Well:** Slowly lower the pump assembly into the well using a safety rope or cable attached to the pump. Ensure the pump is suspended at the correct depth, typically above the well bottom and below the dynamic water level.
4. **Surface Connections:** Connect the discharge pipe to the wellhead and the electrical wiring to the control box and power supply.
5. **System Priming:** Once installed, the system will self-prime as water enters the pump.

## OPERATING INSTRUCTIONS

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Once the pump system is fully installed and all connections are secure, follow these general operating guidelines:

- **Initial Start-up:** Turn on the power supply to the pump. The pump should start and begin delivering water. Monitor the pressure gauge and flow rate.
- **Monitoring:** Periodically check the system for unusual noises, vibrations, or changes in water pressure or flow.
- **Dry Run Protection:** Ensure your system has adequate dry run protection to prevent damage if the well water level drops too low.
- **Shut Down:** To stop the pump, turn off the power supply at the control box or main breaker.

## MAINTENANCE

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Regular maintenance helps ensure the longevity and efficient operation of your Goulds pump end. Always disconnect power before performing any maintenance.

- **Annual Inspection:** Have a qualified technician inspect the entire well system annually. This includes checking electrical connections, pressure tank, and overall pump performance.
- **Water Quality:** Monitor your water quality. Excessive sediment or corrosive water can reduce pump life.
- **Well Maintenance:** Ensure the well itself is properly maintained, including periodic cleaning if necessary, to prevent sediment from entering the pump.
- **Winterization (if applicable):** In regions subject to freezing temperatures, ensure all exposed piping and components are properly insulated or drained to prevent freeze damage. The submersible pump itself is protected by being below the frost line.

## TROUBLESHOOTING

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Before attempting any troubleshooting, ensure the power supply is disconnected. If you are unsure about any step, contact a qualified professional.

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
Pump does not start	No power; tripped breaker; faulty control box; motor issue.	Check power supply, reset breaker. Inspect control box. Consult a technician for motor diagnosis.
No water delivered	Low well water level; clogged intake; faulty check valve; pipe leak.	Check well level. Inspect intake for blockages. Check and replace check valve if needed. Inspect piping.
Low water pressure/flow	Partially clogged intake; worn pump components; low well yield; pressure tank issue.	Inspect intake. A qualified technician can assess pump wear. Check well recovery rate. Inspect pressure tank.
Pump runs continuously	Leak in system; faulty pressure switch; low well yield.	Check for leaks in plumbing. Inspect or replace pressure switch. Assess well yield.

## **WARRANTY AND SUPPORT**

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For warranty information and technical support, please refer to the documentation provided with your Goulds pump end or visit the official Goulds Pumps website. Keep your purchase receipt as proof of purchase for warranty claims.

For assistance with installation, maintenance, or troubleshooting beyond the scope of this manual, it is recommended to contact a qualified pump professional or authorized Goulds service center.