

2 wire float switch wiring diagram

2 Wire Float Switch Wiring Diagram: A Comprehensive Guide

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Publisher: Industrial Automation Insights (IAI), a leading publisher of technical resources for industrial automation professionals. IAI is known for its rigorous fact-checking and commitment to providing accurate and up-to-date information. Their publications are widely respected within the industry.

Editor: Mark Olsen, a seasoned technical editor with 20 years of experience in simplifying complex technical information for a broad audience. Mark has a proven track record in editing articles related to industrial control systems, including numerous publications on sensor technologies and wiring diagrams.

Summary: This in-depth report provides a comprehensive understanding of the 2 wire float switch wiring diagram, covering its functionality, various applications, troubleshooting techniques, and safety considerations. It explores different types of 2-wire float switches, their suitability for diverse applications, and potential challenges in their installation and maintenance. The report utilizes diagrams, examples, and real-world scenarios to illustrate key concepts and ensure practical application of the knowledge gained.

1. Understanding the 2 Wire Float Switch

A 2 wire float switch is a simple yet effective device used to detect the level of liquids in tanks, reservoirs, or other containers. Its simplicity stems from its design: it typically consists of a buoyant float connected to a switch mechanism. As the liquid level rises or falls, the float moves accordingly, activating or deactivating the switch. This ON/OFF switching action is communicated through two wires, hence the name "2 wire float switch wiring diagram." This basic design makes it a cost-effective and reliable solution for numerous applications. The 2 wire float switch wiring diagram itself is remarkably straightforward, usually involving a simple connection to a power source and a load (e.g., a pump, alarm, or indicator light).

2. Types of 2 Wire Float Switches

Several variations exist within the 2-wire float switch family, each designed for specific applications. These variations include:

Normally Open (NO) Switches: These switches are open (off) when the float is in its low-level

position and close (on) when the float rises to the set point. The 2 wire float switch wiring diagram for an NO switch shows a simple connection that completes a circuit when the switch is activated.

Normally Closed (NC) Switches: In contrast, NC switches are closed (on) when the float is in its low-level position and open (off) when the float rises. The 2 wire float switch wiring diagram will show a circuit that is broken when the switch is activated.

Vertical Float Switches: These are commonly used in vertical tanks and are designed to activate at a specific vertical level.

Horizontal Float Switches: These are utilized in tanks where the liquid level changes horizontally.

The choice of switch type depends heavily on the specific application and the desired operational logic. Understanding this is crucial when interpreting a 2 wire float switch wiring diagram.

3. 2 Wire Float Switch Wiring Diagram: Basic Configurations

The simplicity of the 2-wire float switch leads to straightforward wiring diagrams. However, understanding the switch's type (NO or NC) is essential for correct implementation.

Diagram 1: NO 2-wire float switch controlling a pump

...

Power Supply (+)----[Fuse]----[NO Float Switch]----[Pump]----Ground (-)

...

In this 2 wire float switch wiring diagram, the pump only operates when the float switch is activated (liquid level reaches the set point). The fuse provides crucial overcurrent protection.

Diagram 2: NC 2-wire float switch activating an alarm

...

Power Supply (+)----[NC Float Switch]----[Alarm]----Ground (-)

...

Here, the alarm activates when the float switch opens (liquid level falls below the set point). This diagram illustrates a common safety application where a low-level alarm is crucial.

Diagram 3: Using a relay for higher voltage loads:

For higher voltage or current loads, a relay is often incorporated. This protects the float switch from excessive current.

...

Power Supply (+)----[Fuse]----[NO Float Switch]----[Relay Coil]----Ground (-)

Relay Output (+)----[Load (e.g., Motor)]----Ground (-)

...

This 2 wire float switch wiring diagram demonstrates how a relay extends the float switch's

capabilities. The float switch controls the relay coil, which then switches the higher-voltage load.

4. Applications of 2 Wire Float Switches

The versatility of 2 wire float switches makes them suitable for a wide range of applications including:

Liquid Level Control: Maintaining the liquid level in water tanks, reservoirs, sewage treatment plants, and industrial process vessels.

Pump Control: Activating and deactivating pumps based on liquid level, preventing overflow or pump run-dry situations.

Alarm Systems: Triggering alarms to indicate high or low liquid levels, crucial for safety and preventing equipment damage.

Irrigation Systems: Controlling water levels in irrigation systems, ensuring efficient water usage.

Chemical Processing: Monitoring and controlling liquid levels in chemical processes for precise control and safety.

Wastewater Management: Monitoring the level of wastewater in tanks and sumps.

5. Troubleshooting 2 Wire Float Switches

Despite their simplicity, problems can arise. Common issues and troubleshooting steps include:

No Operation: Check the wiring connections, fuse, power supply, and the float switch itself for continuity using a multimeter.

Erratic Operation: The float switch might be faulty, the float might be stuck, or there might be debris interfering with the float's movement. Clean the switch and check the float's free movement.

False Triggers: Check for vibrations or external forces affecting the float switch. Consider replacing the float switch if the problem persists.

6. Safety Considerations

When working with 2 wire float switches, several safety precautions are crucial:

Power Isolation: Always disconnect the power supply before working on the wiring or the float switch itself.

Proper Grounding: Ensure proper grounding to prevent electrical shocks and equipment damage.

Suitable Wiring: Use appropriate gauge wiring for the current and voltage requirements.

Environmental Protection: Select a float switch rated for the specific environment (e.g.,

temperature, corrosion resistance).

Correct Switch Selection: Choose the correct type of switch (NO or NC) for the desired functionality.

7. Advanced Applications and Integration

While basic 2 wire float switch wiring diagrams are straightforward, their applications can become more sophisticated. Integration with PLCs (Programmable Logic Controllers) allows for more complex control logic and data logging. This enables monitoring liquid levels over time, generating reports, and integrating with other systems within the overall plant automation scheme. For instance, a PLC can use the float switch signal to control multiple pumps, valves, or other equipment in a coordinated manner.

8. Future Trends in Float Switch Technology

Recent advancements in float switch technology include the development of smart float switches that incorporate communication protocols like Modbus or other industrial protocols. These smart switches can provide remote monitoring capabilities and improved diagnostics, enhancing overall system efficiency and reducing downtime. The integration of these smart sensors with the Industrial Internet of Things (IIoT) platforms offers significant potential for predictive maintenance and optimized control strategies.

9. Conclusion

The 2 wire float switch, despite its simple design, remains a vital component in countless industrial and commercial applications. Understanding its functionality, wiring diagrams, troubleshooting techniques, and safety considerations is essential for engineers, technicians, and anyone involved in liquid level control systems. This report has provided a comprehensive overview, aiding in the selection, installation, and maintenance of these ubiquitous devices.

FAQs

1. What is the difference between a 2-wire and a 3-wire float switch? A 2-wire float switch uses a simple ON/OFF switching mechanism, while a 3-wire switch often includes an indicator light or other additional functionality.
1. Can I use a 2-wire float switch with AC and DC voltages? It depends on the specific float switch rating. Check the manufacturer's specifications to ensure compatibility.
1. How do I determine if my 2-wire float switch is NO or NC? Consult the manufacturer's documentation or use a multimeter to test the switch's continuity in different float positions.

1. What is the maximum operating pressure for a typical 2-wire float switch? This varies greatly depending on the switch's design and material. Refer to the manufacturer's specifications.
1. How often should I inspect and maintain my 2-wire float switches? Regular inspection, at least annually, is recommended. More frequent checks might be needed in harsh environments.
1. Can I use a 2-wire float switch with corrosive liquids? Use a float switch specifically designed for corrosive liquids. Materials like stainless steel or PVC are commonly used for such applications.
1. What is the typical lifespan of a 2-wire float switch? This depends on factors like usage, environment, and quality. A typical lifespan can range from several years to a decade or more.
1. How do I choose the right float switch for my application? Consider factors like liquid type, temperature, pressure, tank geometry, and required switching capacity.
1. Can I repair a faulty 2-wire float switch? Repairing is usually not practical. Replacement is often a more cost-effective solution.

Related Articles:

1. Troubleshooting Common Problems with 2-Wire Float Switches: This article provides detailed troubleshooting steps for diagnosing and fixing various issues associated with 2-wire float switches.
1. Selecting the Right 2-Wire Float Switch for Your Application: A guide on selecting the appropriate float switch based on specific application parameters like liquid type, temperature, and pressure.

1. Safety Precautions When Working with Float Switches: A detailed discussion on safety measures and best practices for working with float switches to avoid accidents and ensure operational safety.
1. Integrating 2-Wire Float Switches with PLCs: An in-depth guide on the integration of 2-wire float switches into Programmable Logic Controller (PLC) systems for automated control and monitoring.
1. 2-Wire Float Switch Wiring Diagrams for Different Applications: A compilation of various 2 wire float switch wiring diagrams demonstrating diverse applications and configurations.
1. Advanced Float Switch Technologies and Smart Sensors: A look at the latest advancements in float switch technology, including smart sensors and their integration with IIoT platforms.
1. Comparison of 2-Wire, 3-Wire, and Wireless Float Switches: A detailed comparison of the different types of float switches, highlighting their advantages, disadvantages, and applications.
1. Cost-Effective Solutions for Liquid Level Monitoring using 2-Wire Float Switches: A discussion on maximizing cost-effectiveness and efficiency when using 2-wire float switches.
1. Maintenance and Calibration of Float Switches for Optimal Performance: A detailed guide on proper maintenance and calibration practices to ensure reliable and accurate operation of float switches.

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Signals, And First Aid Procedures; And An Illustrated Guide To Conduit-Bending Measurements And Techniques.

2 wire float switch wiring diagram: *NFPA's Electrical References* Charles R. Miller, 2004 Here's the first compact, flip-open electrical reference published by the NEC(R) source! Up-to-date with the 2005 NEC, NFPA's Electrical References is filled with essential data-yet sized to fit in toolboxes and glove compartments! It includes the code rules, math formulas, conversions, and measures that electrical contractors, installers, designers, and inspectors check on a daily basis. Formulas for finding values such as volts and watts, horsepower, and busbar capacity are provided along with examples, and load calculations are easy to make with NEC tables for different occupancies. You'll quickly access facts on scores of relevant topics, including boxes, enclosures, raceways, conductors, voltage drop, receptacles, switches and lighting, motors, and transformers. Gain quick access to 2005 NEC tables, Ohm's Law, how to find amperes and more!

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2 wire float switch wiring diagram: *Ugly's Electric Motors and Controls, 2020 Edition* Charles R. Miller, 2020-08-07 Work safely and efficiently on motors and controls with Ugly's Electric Motors and Controls, 2020 Edition. Updated to reflect the 2020 National Electrical Code (NEC), this pocket guide is a quick, on-the-job reference specifically designed to provide the most commonly required information on the design, installation, application, and maintenance of motors and controls in an easy-to-read, easy-to-access format. An ideal tool for electricians, contractors, designers, engineers, instructors and students, this essential pocket guide uses new full-color diagrams, calculations, and quick explanations to ensure jobs are completed safely and correctly and in accordance to industry standards.

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2 wire float switch wiring diagram: *Electrician's Exam Prep* Charles R. Miller, 2008-04-28 Based on the successful training seminar conducted by NEC® expert Charles R. Miller, The Electrician's Exam Prep Manual cuts through complex topics to help students pass Journeyman or Master Electrician licensing exams. Using clear, concise language, this book takes users through the preparation process, explaining every NEC® topic along the way. Aspiring electricians will feel prepared after completing the Manual's 23 sample exams, addressing general electrical knowledge plus NEC® rules. A special feature identifies key Code sections for highlighting, to assist in studying and to carry in to exams where allowed.

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troubleshooting

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Additional Resources

[2 - Wikipedia](#)

2 (two) is a number, numeral and digit. It is the natural number following 1 and preceding 3. It is the smallest and the only even prime number. Because it forms the basis of a duality, it has ...

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2 (number) - Simple English Wikipedia, the free encyclopedia

2 (Two; / ˈ t uː /) is a number, numeral, and glyph. It is the number after 1 and the number before 3 . In Roman numerals, it is II.

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2 (number) - New World Encyclopedia

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2 -- from Wolfram MathWorld

The number two (2) is the second positive integer and the first prime number. It is even, and is the only even prime (the primes other than 2 are called the odd primes). The number 2 is also ...

3 Wire Float Switch Wiring Diagram - dev.whowhatwhy.org

3 Wire Float Switch Wiring Diagram 3-Wire Float Switch Wiring Diagram: A Comprehensive Guide for Electrical Professionals Float switches, essential components in various applications from ...

FLOAT SWITCH - Reefer

• Emptying: (Fig.2:)When black and brown wires are used, the circuit opens when float is down and closes when the float is up. Note: the blue/grey wires must be insulated. • Filling: (Fig.3) When ...

L500 LIQUID LEVEL FLOAT SWITCH - TEquipment

wire 1, 2 or 3 switch points independent circuits 1 to 4 switch points dry condition normally-closed normally-open l500 adjustable l500 common common common. 6 l500 single or multi-point ...

Condensate Safety Overflow Switch for Primary and ...

Overflow Switch CONDENSATE MANAGEMENT www.diversitech.com 800.995.2222 Stainless Steel Clip Adapts to Different Pan Thicknesses Proven Float Design STEP 1: FIG. 1: FLOAT SWITCH ...

Instructions Cicigt Intaation

Wire the float switch pairs into the control panel per the panel wiring diagram. • Example 1: One wire from each float switch pair goes to a single common terminal, and the other wire from each pair ...

44-608 Model TK1 Liquid Level Float Switch IO

Connect wiring to terminals per the wiring diagram in Figure 1. Connect wiring to the flying leads per wiring diagram in Figure 2 when mounted in N.O. position, and as in Figure 3 when mounted in ...

Quick Guide - masterbattery.es

1. Wiring. Cable wiring diagram between remote float switch and control signal port. C. AUTION: Do not mis-connect the cables between flow switch and inverter. CAUTION: Never . expose the ...

Stainless Steel Vertical Liquid Level Float Switch

Mar 9, 2018 · Stainless Steel Vertical Liquid Level Float Switch Installation Instruction Description ... provided and extend with 19-26 AWG wire up to 1000 feet. 6. When using an ENVIROMUX, either ...

Sahara SerieS automatic Bilge PumPS PUMP MOUNTING ...

wires to the pump as shown in the applicable diagram below. 2. Route wires out of the way and secure them to the bulkhead to avoid pulling. ... wire butt-connectors for 16-gauge wire. • Two ...

AG-1100+ Installation Instructions: Work Safe, READ THIS!

Connect the ribbed wire of the switch, using a wire nut, to the air handler side of the circuit or to terminal in unit. Incorporating both switch wires in the red circuit will shut the unit completely off. ...

18 AWG 3 conductors - RainHarvest

Source 1 Inlet Source 2 Inlet Multi Function RainFlo Float Switch Mounted in Tank at desired switching level. Float switches at ... appropriate wire size and type at grommet. Water leakage ...

Panel Wiring Diagram Simplex Operation Model S1 RO - Orenco

Use one wire nut to connect the pump and controls circuit breakers together ... = Audio Silence Switch = Controls Circuit Breaker = Redundant Off Relay = Motor Contactor = Pump Circuit ...

OWNER'S MANUAL - Zoeller Pump Company

1. The installation of pumps using auxiliary variable level float switches is the responsibility of the installing party and care should be taken that the tethered float switch will not hang up on the ...

SAFE-T-SWITCH - Alpine Home Air

1. Wire switch as instructed under Wiring, below. 5. Test switch: Remove switch/plug assembly from elbow and lift float with unit on. ... Figure 4: Wiring Diagram for unit shutdown. To

Switch To ...

Float controls and high water alarm for sump and sewage pumps

1. Push the float switch lever arm down to the off position. 4. Slip the button under the switch lever arm up and slide a second button on the float rod above the float switch lever arm and lock both ...

Rosemount 2120 Level Switch - Emerson

Figure 3-1: Direct Load Switching (2-wire) Cassette (Red Label) - Code T. 1 2 3 N L 0V. I. L. DPST +V R Fuse 2A(T) R = External load (must be fitted) N = Neutral L = Live Note A DPST (Double ...

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Author: Dr. Eleanor Vance, PhD, P.Eng. Dr. Vance is a Control Systems Engineer with over 15 ...

E TRAP EZT225 - Sid Harvey Industries

Wiring Instructions 1. Turn off electrical power at main panel before installing EZ Trap switch. 2. An in-line fuse is necessary to protect the 24V circuit. 3. Connect Float Switch using wiring diagram. ...

GRUNDFOS INSTRUCTIONS Grundfos Modular Controls

5.4 Connection of float switches 4 5.5 Wiring diagram for system connections (CU 401) 5 5.6 Wiring diagram for IO 403 connections (example) 6 ... ing that the lowest float switch must be ...

Control box wiring Diagram (Cb1269/C b1274) - Multiquip Inc

43 2 3 4 1 STOP FLOAT SWITCH START FLOAT SWITCH TERMINAL BLOCK CONTACTOR 5 HP L2 L3 PUMP MOTOR T1 T2 T3 M O/L CB1269 CB1274 POWER INPUT L1 L2 L3 GRN BLK H1 H3 H2 ...

Grundfos

%PDF-1.4 %âãÏÓ 3575 0 obj > endobj xref 3575 134 0000000016 00000 n 0000004988 00000 n 0000005172 00000 n 0000005200 00000 n 0000005247 00000 n 0000005284 00000 n ...

Consult an electrician for more information. Follow all local ...

The lower float switch is typically rated to handle 2 HP motors, so 2 HP or less can be switched directly through the float switch, which avoids the use of a relay. 2. Pressure Switch With Four ...

DUAL ACTION FLOAT SWITCH WIRING GUIDE - Solar Electric

Float Switch Wiring The dual action float switch can be wired for either Normally Open or Normally Closed. This function is determined by the wires used. Only 2 of the 3 wires will be used Figure 2: ...

08-F(C)D Mini Float Level Switch Operation Manual B1

FC/FD Mini Float Level Switch Operation Manual WIRING DIAGRAMS ELECTRICAL SPECIFICATIONS TROUBLE SHOOTING L1&L2: Load (Switch or Alarm) RY: external Relay (e.g.,OMRON-MY2NJ) ...

E TRAP

24 VAC Class 2, 4A Max. GP, Type 1, Suitable for use in Air Handling Spaces Wiring Instructions 1. Turn off electrical power at main panel before installing EZ Trap switch. 2. An in-line fuse is ...

Basic Wiring McDonnell & Miller - SupplyHouse.com

which is typically the service switch. LWCO Wiring R B - 1 2 2 - E The following diagrams show how to wire a RB-122-E for 120 volt and 24 volt burner circuits . 15. LiquidLevelControls121-131 • ...

Condensate Overflow Shut-off Switches/Sensors - Safe-T ...

SS1 Float Switch: For primary drains or auxiliary drain outlets 10 Detects clogged A/C condensate drains and shuts off the system to prevent water damage to floors, walls, and ceilings Magnetic ...

Bilge Water Alarm W/Pump Switch - Sea-Dog

1. With the control switch on auto, the pump will be controlled automatically by the lower float switch. Should this float switch fail and the high water level activates the upper float switch, the ...

Storage Tank Pump Installation - Clean Water Store

pressure switch 220v PHI 2. Pressure Switch With Four Wires Direct control of pump motor with pressure switch 220v, phl , with protection by lower float switch in storage tank o o O O o O ...

WARNING CAUTION

unit wiring diagram. 8. Installing Float Switch Kit (S149) when using both Freezestat (S49/S50) and VFD Kits 8.1. Locate pink wires marked KIT-1 and KIT-2 (quick ... Connect wire from VFD kit ...

Installation Instructions AG- 00+ - Ferguson

Connect the ribbed wire of the switch, using a wire nut, to the air handler side of the circuit or to terminal in unit. Incorporating both switch wires in the red circuit will shut the unit completely off. ...

2025 February Tech Tip A2L Wiring Float switch on non ...

When needing to wire a float switch/safety device on a A2L refrigerant non-communicating system, it needs to be a normally closed switch/device. That will open the circuit when an issue arises. ...

Pump Connection Center (standard) | Demand Dose, ...

Use the Power Post™ to make a professional and safe connection for power and float switch wiring connections to your on-site ... pump power receptacle for making wire terminations. 1 3 2 ...

Installation Instructions for - Ritchie Industries, Inc

WIRING DIAGRAM 240V SINGLE PHASE . OmniFount Series Instruction Manual 4 October 31, 2016. ... Adjust float for a water depth of 2 inches below top of trough or overflow pipe by adjusting the ...

MODEL 112 CONTROL PANEL - PumpProducts.com

Schematic/Wiring Diagram and Pump Specification Label are located inside the panel. Single Phase. B.36 ... (2 wire) (Normally Open) 3 6A Auxiliary Alarm Contact, Form C ... SJE Rhombus ...

Automatic Bilge Pump Manual - Seachoice

1. When the water level dropped to 20 -30 mm above the bottom flat surface of the strainer, the float switch's contact point is disconnected, the float switch stops working, and then the pump ...

Installation Manual - The Septic Store

1. Panel Wiring Diagram EDW-WD-S-150 3. Float Arrangement & Splice Box Wiring Diagram EDW-FS-S-2 4. VCOM-S PTRO Operation EIN-CP-OP-504 ... Pump Motor Size Breaker Size Wire Size ...

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1. Introduction to the 3 Wire Float Switch Wiring Diagram The 3 wire float switch, a simple yet effective level sensing device, finds widespread application in various industries for controlling ...

08-FD Magnetic Float Level Switch Operation Manual B0

OD17.2 PP SPST 50W 220Vac/500Vdc SPDT 50W 400Vac/1000Vdc 0.5A 1A 0.5A 1A 3A 1A 3A 1A 3A 1A 2.5A 2A 2.5A 2A 4A 2A 4A 2A 4A 2A Tube Type Switching Contact from Switching ...

SAFE~TSWITCH SS3 - AC Pro

Wire the switch per instructions under WIRING (Fig. 4). 6. Test the switch by lifting the Float while the unit is running. If wired correctly, the A/C unit will stop. 7. Test switch sensitivity: Fill pan with ...

Instructions Cicigt Intaation - Orenco

Wire the float switch pairs into the control panel per the panel wiring diagram. • Example 1: One wire from each float switch pair goes to a single common terminal, and the other wire from each pair ...

PHCC Pro Series Installation Deluxe Float Switch & Controller ...

1. Once the float switch is in the desired position, tighten the clamp. Vertical Float Switch (Model VSC2) The vertical float switch contains a single large float. Water will lift the float by a 1/2", ...

Installation Manual LE and LEH Series Sewage Pumps - Ferguson

The electrical connections and wiring for a pump installation should only be made by qualified personnel. ... Automatic pumps have a float switch preassembled. The optional (V) denotes that ...

5. Revision Description 2. Wire Gauge Table 1. Name and ...

Wiring Diagram Sections The Freightliner wiring diagrams are divided by system function. This allows for many different options or accessory systems to be installed on the same model truck. ...

Pump Switch Installation Instructions - Rainwater Equipment

ANSI/NFPA 70 so as to prevent moisture from entering or accumulating within boxes, conduit bodies, fittings, float housing, or cable. DIRECT WIRE INSTALL 1. Follow steps 1 through 4 of ...

Hoffman Specialty Vented Condensate Units Watchman Series ...

FLOAT SWITCH REPRESENTATIVE WIRING DIAGRAMS ... CONNECTION DIAGRAM
ELEMENTARY DIAGRAM LINE 1 H3 H 4 LINE TRANSFORMER FUSE TYPE FNQ-R OR EQUIV.
600V / AMP1 2 ...

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REPLACEMENT PARTS LIST FOR MODELS - PumpProducts.com

2 3 4 white switch wiring diagram for models ... 12 switch asm. 1 3 004740 004740 004740 13 float
1 034019 034019 034019 14 rod, float 1 001526 001526 001526 15 rotor asm. (regal-beloit) ... 7 ...

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Float Switch with Anchor Weight - Flowtech Water Solutions

reached. When the tank empties, the float drops below this level and the tank can then re fill. Ideally suited for level control on a variety of tank sizes due to it's compact size. The float switch comes ...

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