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Red Lion SCV114

Red Lion SCV114 1-1/4-Inch and 1-1/2-Inch ABS Vertical Sump Pump Check Valve Instruction Manual

Model: SCV114

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Red Lion SCV114 ABS Vertical Sump Pump Check Valve. This check valve is designed to prevent backflow in sump pump systems, ensuring efficient operation and reducing wear on the pump. It is compatible with both 1-1/4-inch and 1-1/2-inch PVC or ABS pipe systems.



Image: The Red Lion SCV114 check valve, showing its black ABS body and stainless steel clamps.

PRODUCT FEATURES

The Red Lion SCV114 check valve incorporates several design elements for reliable performance:

• Versatile Compatibility: Designed for use with either 1-1/4-inch or 1-1/2-inch PVC or ABS pipe.

- Reversible Adapters: Includes two adapters that can be reversed to accommodate different pipe sizes.
- **Durable Construction:** Made from Acrylonitrile Butadiene Styrene (ABS) with stainless steel clamps for longevity.
- Optimized Flapper Design: The flapper opens 100% to ensure maximum flow and features a seat design that minimizes water hammer and debris accumulation.
- Clear Flow Direction: The flow direction is permanently etched onto the valve body for correct installation.
- Vertical Installation: Specifically designed for vertical installation only.



Image: Diagram highlighting key features of the SCV114 check valve, including flexible rubber coupling, clearly marked flow direction, ABS check valve body, and stainless steel fasteners.

SPECIFICATIONS

| Specification | Detail |
|---------------|---------------------------------------|
| Model Number | SCV114 (14942901) |
| Material | Acrylonitrile Butadiene Styrene (ABS) |

| Pipe Compatibility | 1-1/4-inch or 1-1/2-inch PVC or ABS pipe |
|----------------------------|--|
| Maximum Temperature Rating | 140° F (60 °C) |
| Overall Length | 8.28 inches (210 mm) |
| Maximum Diameter | 2.61 inches (66 mm) |
| Item Weight | 9.6 ounces (272 g) |
| Included Components | Check Valve, 2 Reversible Adapters, 4 Stainless Steel Clamps |



Image: Diagram illustrating the dimensions of the SCV114 check valve, showing a height of 8.28 inches and a diameter of 2.61 inches.

SCV114

1-1/4" or 1-1/2" SUMP PUMP CHECK VALVE

SPECIFICATIONS

- Flapper opens 100%
- Flapper seat design reduces water hammer and debris buildup
- Maximum temperature rating 140 °F (60 °C)
- Rubber boot installation maximum 10' of head/4.3 psi
- Solvent weld installation maximum 58' of head/25 psi
- Must be installed vertically



Image: Visual representation of the SCV114 check valve's specifications, including flapper operation, temperature rating, and installation requirements.

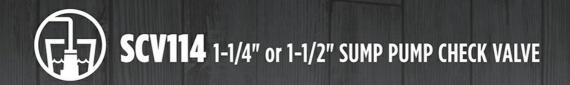
INSTALLATION

The Red Lion SCV114 check valve must be installed vertically. Ensure all connections are secure to prevent leaks.

Pipe Size Configuration

The check valve comes pre-assembled for 1-1/4-inch pipe. To adapt it for 1-1/2-inch pipe, follow these steps:

- 1. Loosen the stainless steel fasteners on both ends of the check valve.
- 2. Carefully pull off both reversible adapters.
- 3. Reinstall the adapters so that the widest opening of each adapter points outward, accommodating the 1-1/2-inch pipe.
- 4. Securely tighten the stainless steel fasteners.



Tips for reducing noise:

- Ensure the pipe is securely fastened to the joists, adding sound-dampening material where the pipe comes into contact with the home's structure.
- Keep discharge pipes as straight as possible avoid 90° angles by using two 45° angles instead.
- If possible, locate the check valve inside the sump pit, adding a foam-insulated lid to the basin for additional noise reduction.

Image: Technical diagram showing the assembly of the SCV114 check valve for both 1-1/4-inch and 1-1/2-inch pipe configurations, illustrating how to reverse the adapters.

Noise Reduction Tips

To minimize operational noise from your sump pump system:

- Ensure the discharge pipe is securely fastened to joists. Consider adding sound-dampening material where the pipe contacts the home's structure.
- Keep discharge pipes as straight as possible. If bends are necessary, use two 45° angles instead of a single 90° angle to reduce turbulence.
- If feasible, locate the check valve inside the sump pit and add a foam-insulated lid to the basin for additional noise reduction.



OPERATION

Once installed, the Red Lion SCV114 check valve operates automatically. The internal flapper opens fully when the sump pump activates, allowing water to flow out. When the pump shuts off, the flapper closes, preventing discharged water from flowing back into the sump pit. The etched flow direction on the valve body ensures correct orientation during installation for proper operation.

MAINTENANCE

Regular inspection of the check valve is recommended to ensure optimal performance. Check for any signs of wear, damage, or debris accumulation that might impede flapper movement. Ensure all clamps remain securely tightened. If any issues are observed, consult the troubleshooting section or contact customer support.

Troubleshooting

If you experience issues with your Red Lion SCV114 check valve, consider the following:

- Water Hammer: Ensure the valve is installed vertically and that the flapper is free of obstructions. Review noise reduction tips in the installation section.
- **Backflow:** Verify the valve is installed with the correct flow direction. Check for any debris preventing the flapper from fully closing.
- Leaks: Inspect all connections and ensure stainless steel clamps are tightened properly. Check for cracks or damage to the valve body or adapters.

For persistent problems or issues not covered here, please contact Red Lion customer support.

WARRANTY

The Red Lion SCV114 check valve is covered by a 1-year manufacturer's warranty. For detailed terms and conditions, please refer to the official warranty document.

Download Warranty (PDF): Red Lion Warranty Information

SUPPORT

For further assistance with installation, troubleshooting, or any product-related inquiries, please contact Red Lion customer support. Our staff is available to provide guidance and support.

You may also visit the official Red Lion store for more information: Red Lion Store on Amazon

Christy's

Christy's Solvent Cements: Set and Cure Time Specifications

Comprehensive guide to Christy's[™] solvent cement set and cure times, including initial set times, joint cure schedules, and coverage rates for various pipe sizes and conditions. Features information on Red Hot Blue Glue® and Low VOC formulations.



Fabarm Over & Under Shotgun Operator's Instructions Manual

Comprehensive operator's manual for Fabarm Over & Under shotguns, covering safety rules, assembly, operation, disassembly, care, cleaning, and parts identification for models like Max Lion, Silver Lion, Light Lion, Ultra Mag Lion, and Black Lion.



Crimson 3.1 User Manual - Red Lion Controls

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Comprehensive user manual for Crimson 3.1 software by Red Lion Controls, covering installation, features, data management, communication protocols, and advanced programming.



Red Lion Pump Troubleshooting Guide

A comprehensive troubleshooting guide for Red Lion pumps, covering common issues with shallow well jet pumps, convertible jet pumps, submersible pumps, utility pumps, and engine-driven transfer pumps. Includes solutions for motor not starting, pump failing to deliver water, loss of prime, reduced capacity, and frequent cycling.



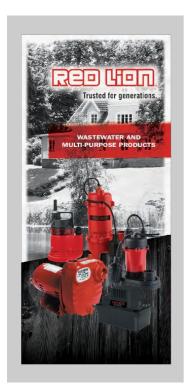
GDEM0154Z90 1.54-inch E-paper Display Technical Specification

Detailed technical specifications for the Good Display GDEM0154Z90, a 1.54-inch E-paper display module. Covers features, mechanical and electrical characteristics, interface protocols (SPI), optical specifications, and handling precautions.



Red Lion RL-SPRK Series Sprinkler Pump Owner's Manual - Installation, Operation, Maintenance Guide

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Sherri Houston parts and accessories list redlionproducts 80 media 43631 PARTS AND ACCESSORY LIST AS OF JUNE 9 2015 Red Lion Parts Accessories List 640001 Air Charge Kit PlumbersStock 617136 Engine for RL 4AG Series 617134 Accessory 617135 Filter Water Pump Manuals How to Access Old red lion 772340 mNBkae 772474 ZjEyBi 772472 JnMy3Y 772473 k2cUvQ waterpumpsdirect manuals xrefs2 plumbersstock product 7 xrefs4 xrefs0 AccessoriesParts ListParts List50 RJC 50 640161 10121 13089 Repair 3 4 1HP Jets RJS 75 33 Injector 600528 12267 HP 1 RJC 0 12014 Plastic Sump Check Valve 14942914 WCV2 12019 8 Heavy Duty 2 x Sewage 640171 12196 6 Float Sw Red PlumbersStockRed PlumbersStockWater Manualsparts lionparts lionxrefs3 ZjEyBipowerequipmentdirect srsltid AfmBOooqY5Zjka6qkH2v2xE0NjTYAE7xzW1IHQdp7HT27IHXTdLSUbuMwaterpumpsdirect lionxrefs2 mNBkaexrefs4 ZjEyBixrefs0 JnMy3Yxrefs4 k2cUvQwaterpumpsdirect lionredlionproducts listxrefs2 ||| PARTS AND ACCESSORY LIST AS OF JUNE 9, 2015 Item # 640207 640106 640116 640208 640221 640108 640109 ... 0175 617200 617201 577155 14941004 640199 640159 640160 640161 640195 640228 600526 600528 Model # SCV114 WCV2 SRVS RFSNB9 RL-SPDK RLSB-03 2 Hose 3 Discharge VSP2800-RS MPFVRIK Replacement Flapper ...

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