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Walfront Walfronts14mv6ia8x

User Manual

WALFRONT 10PCS STAINLESS STEEL SPRING BALL PLUNGER

Model: Walfronts14mv6ia8x

1. Introduction

This manual provides essential information for the proper use, installation, and maintenance of the Walfront 10Pcs Stainless Steel Spring Ball Plungers. These components are designed for various mechanical applications requiring precise positioning and consistent pressure.

The package includes 10 individual spring ball plungers, each constructed from durable stainless steel, ensuring reliability and resistance to corrosion in diverse environments.



Image 1.1: A set of ten Walfront stainless steel spring ball plungers, showcasing their compact design and metallic finish.

2. Product Features

The Walfront Stainless Steel Spring Ball Plungers offer several key features:

- **High Quality Material:** Manufactured from stainless steel, providing excellent strength and good performance in various operational conditions.
- **Effective Functionality:** Designed to deliver consistent pressure and accurate positioning in

mechanical assemblies.

- **Ease of Installation:** Simple push-fit design allows for straightforward installation and secure fastening.
- **Value Pack:** Each package contains 10 spring plungers, offering convenience for replacement or multiple applications.
- **Broad Application:** Suitable for a wide range of uses in mechanical devices, clamps, jigs, and automated machinery.



Image 2.1: Detailed view of two spring ball plungers, highlighting their construction and the text indicating ease of installation.

3. Specifications

Refer to the table below for detailed product specifications:

Attribute	Detail
Material	Stainless Steel
Brand	Walfront
Item Dimensions (L x W x H)	2.36 x 2.36 x 0.79 inches (package dimensions; individual plunger approx. 7x6mm)
Color	Silver
Style	Modern
UPC	654936344143
Manufacturer	Walfront

Attribute	Detail
Part Number / Model Number	Walfronts14mv6ia8x
Item Weight	0.176 ounces (per plunger, approximate)
Item Package Quantity	1 (containing 10 plungers)
Measurement System	Metric

4. Installation and Setup

The Walfront Spring Ball Plungers are designed for straightforward installation into pre-drilled holes or fixtures. Their push-fit mechanism simplifies the setup process.

- 1. Prepare the Mounting Hole:** Ensure the receiving hole in your mechanical device or fixture is accurately sized to accommodate the plunger's body. The hole should provide a snug fit to secure the plunger.
- 2. Insert the Plunger:** Align the plunger with the prepared hole.
- 3. Fasten Securely:** Apply firm, even pressure to push the plunger into the hole until it is fully seated. The design allows for a secure, press-fit installation without the need for additional fasteners in most applications.
- 4. Verify Functionality:** After installation, test the spring action of the ball plunger to ensure it moves freely and provides the intended pressure and positioning.



Image 4.1: A detailed view of the rear of a spring ball plunger, illustrating its internal structure for proper installation.

5. Operating and Application

These spring ball plungers are passive components that provide a spring-loaded ball for various mechanical functions. Their operation is inherent to their design: the internal spring exerts force on the ball, which then applies pressure against a mating surface.

Common applications include:

- **Positioning:** Used to accurately locate and hold components in place, such as in jigs, fixtures, or indexing mechanisms.
- **Detents:** Creating a positive stop or feel for rotational or linear movement, providing tactile feedback for adjustments or selections.

- **Clamping:** Applying light, consistent pressure to hold workpieces or parts during assembly or machining operations.
- **Ejectors:** Gently pushing components out of molds or fixtures.
- **Automated Machinery:** Integrated into automated systems for precise part handling and alignment.



Image 5.1: A close-up of the ball end of a plunger, illustrating the smooth surface designed for consistent contact and pressure.

6. Maintenance

Due to their robust stainless steel construction and simple design, Walfront Spring Ball Plungers require minimal maintenance. However, periodic inspection and cleaning can extend their lifespan and ensure optimal performance.

- **Cleaning:** If plungers are exposed to dust, debris, or corrosive substances, clean them with a soft cloth and a mild, non-abrasive cleaner. Ensure no residue is left that could impede spring action.
- **Inspection:** Regularly check the plungers for any signs of wear, corrosion, or damage to the ball or body. Ensure the spring action remains smooth and consistent.
- **Lubrication (Optional):** In certain high-friction or harsh environments, a light application of a suitable lubricant (e.g., silicone-based grease) may be beneficial, but generally, it is not required for standard operation. Avoid excessive lubrication that could attract debris.
- **Replacement:** If a plunger shows significant wear, damage, or inconsistent spring action, replace it promptly to maintain the integrity and functionality of your assembly.

7. Troubleshooting

Most issues with spring ball plungers are related to improper installation or extreme wear. Here are some common scenarios and solutions:

- **Plunger does not seat correctly:**
 - *Cause:* Mounting hole is too small or contains debris.
 - *Solution:* Verify the hole dimensions and clear any obstructions. Ensure the hole is clean and free of burrs.
- **Ball does not retract or extend smoothly:**
 - *Cause:* Internal debris, corrosion, or spring damage.
 - *Solution:* Remove the plunger and inspect for foreign material. Clean thoroughly. If the spring is damaged or corroded, replace the plunger.

- **Insufficient holding force:**

- *Cause:* Worn spring, incorrect plunger size for application, or excessive clearance in the mating part.
- *Solution:* Replace the plunger if the spring is weak. Ensure the plunger size and spring force are appropriate for the application's requirements. Adjust mating part tolerances if possible.

8. Support Information

For further assistance, technical inquiries, or to report any issues with your Walfront Spring Ball Plungers, please contact Walfront customer support through their official channels. You can often find contact information on the product packaging or the Walfront brand store on Amazon.

Visit the Walfront Store: [Walfront Official Store](#)