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3M 26839

3M Performance Spray Gun Ball Valve 26839 Instruction Manual

Model: 26839 | Brand: 3M

INTRODUCTION

This manual provides comprehensive instructions for the proper setup, operation, and maintenance of the 3M Performance Spray Gun Ball Valve 26839. Designed for industrial and occupational use, this ball valve is a critical component for efficient fluid control in pressure-feed spray gun systems. Adherence to these instructions will ensure optimal performance and longevity of the product.

IMPORTANT SAFETY INFORMATION

WARNING: For industrial/occupational use only. Not for consumer sale or use.

3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. These products must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and limitations. Misuse of 3M industrial and occupational products may result in injury, sickness, or death. For assistance with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert.

- Always wear appropriate personal protective equipment (PPE) when handling and operating the spray gun and its accessories.
- Ensure proper ventilation in the work area.
- Do not modify the product in any way not specified by 3M.
- Always depressurize the system before performing any maintenance or component replacement, unless using the optional shut-off valve as described.

KIT COMPONENTS

The 3M Performance Spray Gun Ball Valve 26839 kit typically includes the following components:

- **3M Performance Spray Gun Body:** A durable, lightweight composite gun body.
- **Whip Hose Assembly:** For bulk feed applications.

- **Regulator and Pressure Gauge:** For precise air pressure control.
- **Replacement Locking Ring:** A spare component for securing nozzles.
- **Assorted Nozzles:** Includes various tip sizes for both gravity feed and pressure feed applications.
- **3M PPS Series 2.0 Components:**
 - Hard Cup Assembly (Standard 22 oz size).
 - Replacement Lids and Liners (200 micron clear and 125 micron blue filter mesh sizes).
- **Sealing Plugs:** For sealing PPS cups.
- **Optional Shut-off Valve Accessory:** (Sold separately) Allows for quick fluid shut-off without depressurizing the bulk system.





Figure 1: The 3M Performance Spray Gun Ball Valve 26839.





Figure 2: Detailed view of the 3M Performance Spray Gun Ball Valve.

SETUP

Pressure-Feed Setup

- 1. Prepare the Gun Body:** Remove any protective foam from the needle of the spray gun.
- 2. Attach Whip Hose Assembly:** Remove the retention pin from the whip hose assembly. Slide the whip hose assembly bracket onto the air inlet of the gun. Replace the retention pin to secure it.
- 3. Install Nozzle:** Select the appropriate nozzle tip size for your application. While holding the trigger pulled, slide the nozzle firmly over the needle. Rotate the locking collar all the way around until it hits a stop. When correctly installed, the indicator will show an 'X' instead of a '+' sign.
- 4. Connect Fluid Line:** To attach your fluid connection, slide up on the connection and give it a quarter-turn rotation to lock it in place.
- 5. Attach Air Gauge:** Connect the air gauge to the appropriate port on the gun. Use a single wrench to tighten the top swivel, ensuring it is secure.
- 6. Connect Hoses:** Attach your fluid supply hose to the bottom of the whip hose. Connect your air line to the bottom of the air regulator gauge.

7. **Optional Shut-off Valve:** If using the optional shut-off valve accessory, thread it onto the inlet of the hose whip, between your fluid supply and the bottom threads of the hose whip. This allows for quick shut-off to replace nozzles without depressurizing the entire bulk system.

Gravity-Feed Setup

The 3M Performance Spray Gun can also be configured for gravity-feed applications, ideal for quick touch-ups or smaller jobs.

1. **Remove Pressure Assembly:** Detach the pressure assembly (whip hose, regulator, and pressure nozzle) from the gun body. If the pressure nozzle was just used, ensure you wipe the needle clean.
2. **Install Gravity Nozzle:** Select a gravity feed nozzle and assemble it onto the gun body in the same manner as the pressure nozzle (sliding over the needle and locking the collar).
3. **Connect PPS Cup:** Connect the 3M PPS Series 2.0 hard cup assembly (with appropriate lid and liner) to the top of the gun.
4. The gun is now ready for gravity-feed applications, utilizing the same durable gun body.

OPERATING INSTRUCTIONS

The 3M Performance Spray Gun, when equipped with the Ball Valve 26839, offers enhanced control and versatility:

- **Fluid Flow Control:** The ball valve allows the painter to instantly stop or start fluid flow to the spray gun, providing precise control during application.
- **Nozzle Replacement:** The ball valve enables convenient spray gun removal or nozzle replacement without the need to shut down or depressurize the entire fluid supply system.
- **Coating Compatibility:** The seals within the ball valve are compatible with a wide range of coatings, including both solvent-based and waterborne materials.
- **Versatile Applications:** The spray gun system is designed to handle various coatings such as stains, primers, basecoats, topcoats, and adhesives.
- **Ergonomic Design:** The lightweight and durable composite gun body is designed for comfort, reducing painter fatigue during extended use.
- **Intuitive Use:** The simple and intuitive design of the system facilitates ease of use and quick setup changes.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your 3M Performance Spray Gun Ball Valve 26839:

- **Cleaning:** The system is designed for smarter clean-up. After each use, especially when changing materials or finishing a job, thoroughly clean the spray gun and all fluid-contacting components. Follow recommended cleaning procedures for the specific coatings used.
- **Nozzle Replacement:** The replaceable atomizing heads (nozzles) allow for like-new performance with every new nozzle. Replace nozzles as needed to maintain spray quality and efficiency.
- **Inspection:** Periodically inspect the ball valve, whip hose, regulator, and all connections for any signs of wear, damage, or leaks. Replace worn or damaged parts immediately.

- Storage:** Store the spray gun and its accessories in a clean, dry environment, protected from extreme temperatures and direct sunlight.

TROUBLESHOOTING

Specific troubleshooting steps are not detailed in the provided product information. However, common issues with spray gun systems often relate to:

- Poor Spray Pattern:** Check for clogged nozzles, incorrect air pressure settings, or improper fluid viscosity.
- Leaks:** Inspect all connections, seals, and O-rings for proper seating and damage.
- No Fluid Flow:** Verify fluid supply, ensure the ball valve is open, check for clogs in the fluid line or nozzle, and confirm adequate pressure.

For persistent issues, refer to the general 3M Performance Spray Gun troubleshooting guides or contact 3M technical support.

SPECIFICATIONS

Feature	Detail
Brand	3M
Model Number	26839
Valve Type	Ball Valve
Item Dimensions (L x W x H)	9.3 x 5.7 x 1.3 inches
Item Weight	1.69 ounces
Exterior Finish	Painted
Inlet Connection Type	Solvent
Outlet Connection Type	Solvent
Number of Ports	2
Outlet Connection Size	5.7 Inches
UPC	051131268395
Is Discontinued By Manufacturer	No

WARRANTY AND SUPPORT

Specific warranty information for the 3M Performance Spray Gun Ball Valve 26839 is not provided in the available product data. For detailed warranty terms, technical support, or service inquiries, please contact 3M directly through their official website or customer service channels.

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