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DCI International DCI0010

DCI International DCI0010 3/8" Poly Q.D. Panel Mount with Shut-off, Female - Instruction Manual

Comprehensive guide for installation, operation, and maintenance.

1. Product Overview

The DCI International DCI0010 is a 3/8" Poly Quick Disconnect (Q.D.) Panel Mount with an integrated shut-off valve, designed for female connections. This component facilitates quick and secure connections in various fluid or air systems, allowing for easy panel integration and flow control.



Image 1.1: The DCI International DCI0010 3/8" Poly Q.D. Panel Mount with Shut-off, Female. This image displays the chrome-plated quick disconnect fitting, featuring a threaded body for panel mounting and a female quick-disconnect end with an integrated shut-off mechanism.

2. Setup and Installation

1. **Preparation:** Ensure the panel where the mount will be installed has an appropriately sized hole for the threaded body of the DCI0010. The panel material should be robust enough to support the fitting and any connected lines.
2. **Mounting:** Insert the threaded body of the panel mount through the prepared hole in the panel. Secure it in place using the provided nut (if applicable) on the opposite side of the panel. Tighten securely but do not overtighten to avoid damaging the fitting or panel.
3. **Connection:** Connect the appropriate line or hose to the rear (non-Q.D.) end of the fitting. Ensure all connections are leak-free and properly sealed according to standard practices for your specific application (e.g., using thread sealant if required).
4. **System Integration:** Once installed, the female quick-disconnect end is ready to receive a compatible male quick-disconnect fitting.

3. Operating Instructions

- **Connecting:** To connect a male quick-disconnect fitting, align it with the female end of the DCI0010 and push firmly until it clicks into place. A secure connection prevents accidental disconnection.
- **Shut-off Function:** The DCI0010 features an integrated shut-off mechanism. When a male fitting is disconnected, the internal valve automatically closes, preventing fluid or air flow from the panel mount side. This feature minimizes spills and pressure loss during disconnections.
- **Disconnecting:** To disconnect, pull back the collar on the female quick-disconnect fitting while simultaneously pulling the male fitting away. The shut-off valve will engage upon disconnection.
- **Flow Control:** Ensure the system pressure and flow rates are within the operational limits of the DCI0010.

4. Maintenance

- **Regular Inspection:** Periodically inspect the fitting for any signs of wear, damage, or leaks. Pay close attention to the quick-disconnect mechanism and the shut-off valve's integrity.
- **Cleaning:** Keep the fitting clean and free from debris, which can interfere with the quick-disconnect mechanism or the shut-off valve. Use a soft cloth and mild cleaning agents if necessary. Avoid abrasive cleaners.
- **Seal Replacement:** If leaks occur or the shut-off function degrades, inspect the internal seals. Replacement of worn seals may be necessary to restore optimal performance. Consult DCI International for compatible replacement parts.
- **Storage:** If the fitting is removed from service, store it in a clean, dry environment away from extreme temperatures and direct sunlight.

5. Troubleshooting

- **Leakage at Connection:**
  - Ensure the male fitting is fully inserted and locked into the female Q.D.
  - Check for damaged or worn O-rings/seals on both the male and female fittings. Replace if necessary.
  - Verify that the system pressure does not exceed the fitting's maximum rated pressure.
- **Difficulty Connecting/Disconnecting:**
  - Inspect for debris or damage within the quick-disconnect mechanism. Clean or replace if obstructed.
  - Ensure proper alignment during connection.
  - Lubricate O-rings with a compatible lubricant if they are dry or stiff.
- **Shut-off Valve Not Functioning:**
  - Check for internal debris obstructing the valve mechanism.
  - Inspect for damage to the internal valve components or springs.
  - If the valve is permanently stuck open or closed, the fitting may require replacement.

6. Specifications

Feature	Detail
Model Number	DCI0010

Feature	Detail
Type	Quick Disconnect Panel Mount
Connection Size	3/8 inch
Material	Poly (Polymer)
Gender	Female
Feature	Integrated Shut-off Valve
Manufacturer	DCI International
Package Dimensions	5 x 3 x 1 inches
Item Weight	3.2 ounces
First Available Date	October 6, 2012

7. Warranty Information

Specific warranty details for the DCI International DCI0010 are not provided in the product information. For warranty inquiries, please contact DCI International directly or refer to the documentation included with your purchase.

8. Support

For technical assistance, replacement parts, or further information regarding the DCI International DCI0010, please contact DCI International customer support. Contact details are typically available on the manufacturer's official website or product packaging.

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