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ProTech 61-104025-15

Protech 61-104025-15 Service Valve User Manual

1. Introduction

This manual provides essential instructions for the proper installation, operation, and maintenance of the Protech 61-104025-15 Service Valve. Adhering to these guidelines will ensure safe and efficient performance of the valve. Please read this manual thoroughly before proceeding with any procedures.

2. PRODUCT OVERVIEW

The Protech 61-104025-15 Service Valve is a component designed for various industrial and plumbing applications, particularly within HVAC and refrigeration systems. It facilitates isolation and control of fluid flow, allowing for system servicing without complete depressurization or drainage. This valve is compatible with models such as raka, rakb, ralc, rama, ramb, ramc, ramm, ranc, rand, ranl, rapa, rapb, rapc, rapl, rapm, rara, rarl, rasl, rpka, rpkb, rpla, rplb, rpmb, rpmc, rpmd, rpmm, rpne, rpnk, rpnl, rppb, rppc, rppl, rpql, rprl, saka, sakb, spkb.



Figure 1: The Protech 61-104025-15 Service Valve. This image displays the brass-colored valve body, featuring two 3/4-inch sweat ODF connections on opposing sides and a hexagonal cap at the top for manual operation.

3. SETUP AND INSTALLATION

Installation of the Protech 61-104025-15 Service Valve requires careful attention to connection types and proper sealing techniques. It is recommended that installation be performed by a qualified technician.

3.1 Connection Details

• Upper Connection Size: 3/4 inch

• Upper Connection Type: Sweat ODF (Outer Diameter Flare)

• Lower Connection Size: 3/4 inch

• Lower Connection Type: Sweat ODF (Outer Diameter Flare)

3.2 Installation Procedure

- 1. **Safety First:** Ensure the system is depressurized and drained before beginning installation. Wear appropriate personal protective equipment (PPE).
- 2. **Prepare Connections:** Clean the ends of the pipes and the valve's sweat connections thoroughly to remove any dirt, grease, or oxidation. Apply appropriate flux to both surfaces.
- 3. **Position the Valve:** Place the valve in the desired position, ensuring proper alignment with the piping.

- 4. **Solder Connections:** Using a suitable heat source and solder, create strong, leak-free sweat joints. Allow the joints to cool naturally.
- 5. **Leak Test:** After installation, pressurize the system and carefully check all connections for leaks using an approved leak detection method.

4. OPERATION

The Protech 61-104025-15 Service Valve is designed for straightforward manual operation to control or isolate fluid flow within a system.

4.1 Opening and Closing the Valve

- To **open** the valve, turn the hexagonal cap counter-clockwise until the desired flow is achieved or the valve is fully open.
- To **close** the valve, turn the hexagonal cap clockwise until the valve is fully closed and flow is stopped. Do not overtighten.

Always operate the valve smoothly and avoid sudden, forceful movements to prevent damage to the valve or system components.

5. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your Protech 61-104025-15 Service Valve.

- **Periodic Inspection:** Visually inspect the valve and its connections regularly for any signs of wear, corrosion, or leaks.
- Cleaning: Keep the exterior of the valve clean. Avoid using harsh chemicals that could damage the valve
- Leak Detection: Periodically check for leaks around the valve body and connections, especially after any system pressure changes.
- Operational Check: Cycle the valve (open and close) periodically to ensure smooth operation and prevent seizing, particularly in systems where the valve remains in one position for extended periods.

6. TROUBLESHOOTING

This section addresses common issues that may arise with the service valve.

6.1 Common Issues and Solutions

Problem	Possible Cause	Solution
Leakage at connections	Improper soldering; damaged pipe or valve connection	Depressurize system, repair or re-solder connection. Replace valve or pipe if damaged.
Valve difficult to turn	Internal corrosion or debris; lack of lubrication	Do not force. Depressurize system and inspect. If internal, valve replacement may be necessary.
No flow or restricted flow when open	Valve not fully open; internal obstruction	Ensure valve is fully open. Depressurize system and inspect for internal debris.

For issues not listed or if solutions do not resolve the problem, contact a qualified service technician.

7. SPECIFICATIONS

Specification	Detail
Brand	ProTech
Model Number	61-104025-15
Upper Connection Size	3/4 inch
Upper Connection Type	Sweat ODF
Lower Connection Size	3/4 inch
Lower Connection Type	Sweat ODF
Exterior Finish	Stainless Steel
Number of Ports	2
Specification Met	ASME B16.34
Item Weight	11.2 ounces
Product Dimensions (L x W x H)	3.8 x 3.2 x 4.3 inches
UPC	662766520378

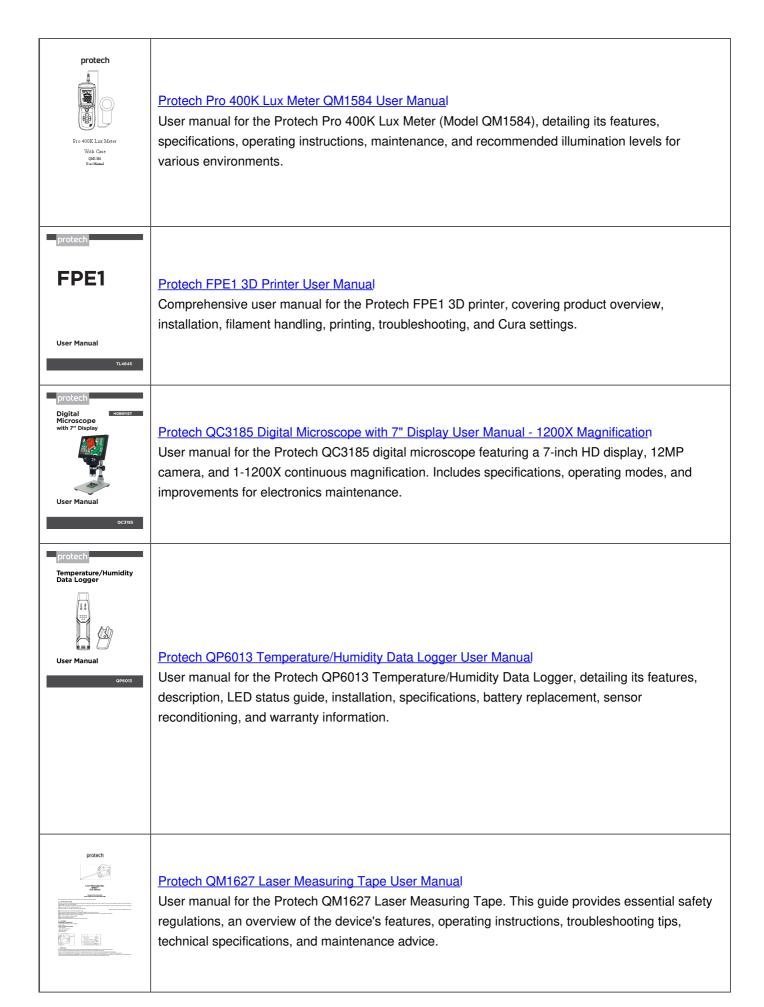
8. WARRANTY INFORMATION

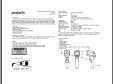
Unless otherwise noted, all Protech items carry a one-year limited warranty from the date of purchase. Please retain your proof of purchase for warranty claims.

9. SUPPORT

For technical assistance, replacement parts, or further inquiries regarding the Protech 61-104025-15 Service Valve, please contact a qualified HVAC or plumbing professional. For general product information, you may visit the ProTech Store on Amazon.

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Protech QM7410 Compact Non-Contact Infrared Thermometer User Manual

User manual for the Protech QM7410 compact non-contact infrared thermometer. Features rapid detection, laser sighting, and a wide temperature range. Includes specifications, operation instructions, and safety guidelines.