

ProLine 116-502

ProLine 116-502 Gas Ball Valve

INSTRUCTION MANUAL

1. Product Overview

The ProLine 116-502 Gas Ball Valve is a forged brass valve designed for reliable shut-off in natural gas or LP gas applications. It features a durable 1-piece body construction and convenient 3/8-inch flare x flare connections. The valve is equipped with a chrome-plated ball and a quarter-turn lever handle for easy operation. This product is CSA 3-88 certified, ensuring compliance with safety and performance standards for gas appliances.



This image displays the ProLine 116-502 Gas Ball Valve, featuring a brass body, a yellow quarter-turn lever handle, and 3/8-inch flare connections on both ends. The valve is designed for gas applications.

2. Safety Information

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Always ensure gas supply is turned off before installation or maintenance.
- Installation must be performed by a qualified professional in accordance with all local codes and regulations.
- Use appropriate tools and personal protective equipment.
- Check for leaks after installation using a non-corrosive leak detection solution.
- Do not use open flames to check for gas leaks.
- This valve is intended for natural gas or LP gas applications only. Do not use for other media.

3. Setup and Installation

This section provides general guidelines for the installation of the ProLine 116-502 Gas Ball Valve. Always refer to local plumbing and gas codes for specific requirements.

3.1 Pre-Installation Checks

1. Verify that the valve model 116-502 is suitable for your specific gas application (natural gas or LP gas).
2. Ensure the connection sizes (3/8-inch flare) match your existing piping.
3. Inspect the valve for any visible damage before installation. Do not install a damaged valve.
4. Gather all necessary tools, including wrenches, pipe thread sealant (if applicable for other connections in the system), and leak detection solution.

3.2 Installation Steps

1. **Turn off Gas Supply:** Locate the main gas shut-off valve and turn off the gas supply to the area where the valve will be installed.
2. **Prepare Connections:** Ensure the flare connections on your gas lines are clean and free of debris.
3. **Connect Valve:** Align the valve with the gas lines. Hand-tighten the flare nuts onto the valve's flare connections.
4. **Tighten Connections:** Using appropriate wrenches, carefully tighten the flare nuts. Do not overtighten, as this can damage the flare connections. Refer to manufacturer's recommendations for torque specifications if available, or tighten until snug and then an additional quarter to half turn.
5. **Restore Gas Supply:** Slowly turn the main gas supply back on.
6. **Check for Leaks:** Apply a non-corrosive leak detection solution to all new connections. Bubbles indicate a leak. If a leak is detected, turn off the gas supply immediately, re-tighten the connection, and re-test. Repeat until no leaks are present.

4. Operating Instructions

The ProLine 116-502 Gas Ball Valve is designed for simple on/off operation.

- **To Open the Valve:** Rotate the yellow lever handle 90 degrees (a quarter-turn) so that it is parallel with the gas flow direction.
- **To Close the Valve:** Rotate the yellow lever handle 90 degrees (a quarter-turn) so that it is perpendicular to the gas flow direction.

The quarter-turn design allows for quick and easy visual confirmation of the valve's open or closed status.

5. Maintenance

The ProLine 116-502 Gas Ball Valve is designed for long-term, maintenance-free operation under normal conditions. Regular inspection is recommended.

- **Periodic Inspection:** Visually inspect the valve and connections periodically for any signs of corrosion, damage, or leaks.
- **Leak Checks:** If you suspect a leak, perform a leak check using a non-corrosive leak detection solution.
- **Cleaning:** Clean the exterior of the valve with a damp cloth if necessary. Do not use harsh chemicals or abrasive cleaners.
- **No User-Serviceable Parts:** This valve contains no user-serviceable parts. Do not attempt to disassemble or repair the valve. If the valve is damaged or malfunctioning, it must be replaced by a qualified professional.

6. Troubleshooting

This section addresses common issues that may arise with gas ball valves. Always prioritize safety and consult a professional for any complex issues.

- **Gas Leak Detected:**
 - **Symptom:** Smell of gas, or bubbles when leak detection solution is applied.
 - **Action:** Immediately turn off the main gas supply. Re-check all connections for proper tightening. If the leak persists, do not attempt further repairs. Contact a qualified gas technician.
- **Valve Difficult to Turn:**
 - **Symptom:** Lever handle is stiff or hard to rotate.
 - **Action:** Do not force the handle. Excessive force can damage the valve. If the valve is new, it may be slightly stiff initially. If it becomes stiff over time, it may indicate internal wear or debris. The valve should be replaced by a qualified professional.
- **No Gas Flow:**
 - **Symptom:** Appliance not receiving gas, even with valve in open position.
 - **Action:** Ensure the valve handle is fully parallel to the pipe (open position). Check other shut-off valves in the system and the main gas supply. If the issue persists, contact a qualified gas technician.

7. Specifications

Specification	Detail
Model Number	116-502
Brand	ProLine
Material	Forged Brass (Chrome Plated Ball)
Connection Type	Flare x Flare
Connection Size	3/8 inch x 3/8 inch
Operation	Quarter-Turn Lever Handle
Certifications	CSA 3-88
Application	Natural Gas or LP Gas
Item Weight	3.7 pounds (for 10-pack)

Specification	Detail
Product Dimensions (L x W x H)	7.28 x 4.53 x 2.95 inches (for 10-pack)
Manufacturer	B&K LLC

8. Warranty Information

For specific warranty details regarding the ProLine 116-502 Gas Ball Valve, please refer to the official ProLine website or contact their customer service directly. Warranty terms typically cover manufacturing defects under normal use and service.

9. Customer Support

If you have any questions, require technical assistance, or need to report an issue with your ProLine 116-502 Gas Ball Valve, please contact ProLine customer support through their official channels. Always provide the model number (116-502) when seeking support.

For general inquiries, you may visit the [ProLine brand page on Amazon](#).