Glixal ATMT1-176

Glixal GY6 Vacuum Fuel Petcock User Manual

Model: ATMT1-176 | Brand: Glixal

Introduction

This manual provides essential information for the installation, operation, and maintenance of your Glixal Vacuum Fuel Petcock. This component is designed for use with GY6 49cc, 50cc, 125cc, and 150cc engines found in scooters, mopeds, ATVs, and Go Karts. It ensures proper fuel delivery to the carburetor based on engine vacuum, contributing to efficient engine performance.

Product Overview

The Glixal Vacuum Fuel Petcock is a critical part of your vehicle's fuel system. It features a durable construction with zinc-plated treatment for corrosion resistance. Key components include the main body, fuel inlet/outlet ports, a vacuum port, and an integrated plastic filter.

- **Thread Size:** M16X1.5 for secure mounting.
- **Plastic Filter Length:** 63.5 mm, designed to prevent debris from entering the fuel system.
- **Black Oil Seal Size:** 8mm (ID) X 14.5mm (OD) for a tight seal.
- **Compatibility:** Specifically designed for GY6 49cc, 50cc, 125cc, and 150cc Scooter, Moped, ATV, and Go Kart engines.



Figure 1: Front view of the Glixal Vacuum Fuel Petcock. This image shows the main body, fuel lines, and the threaded connection point.

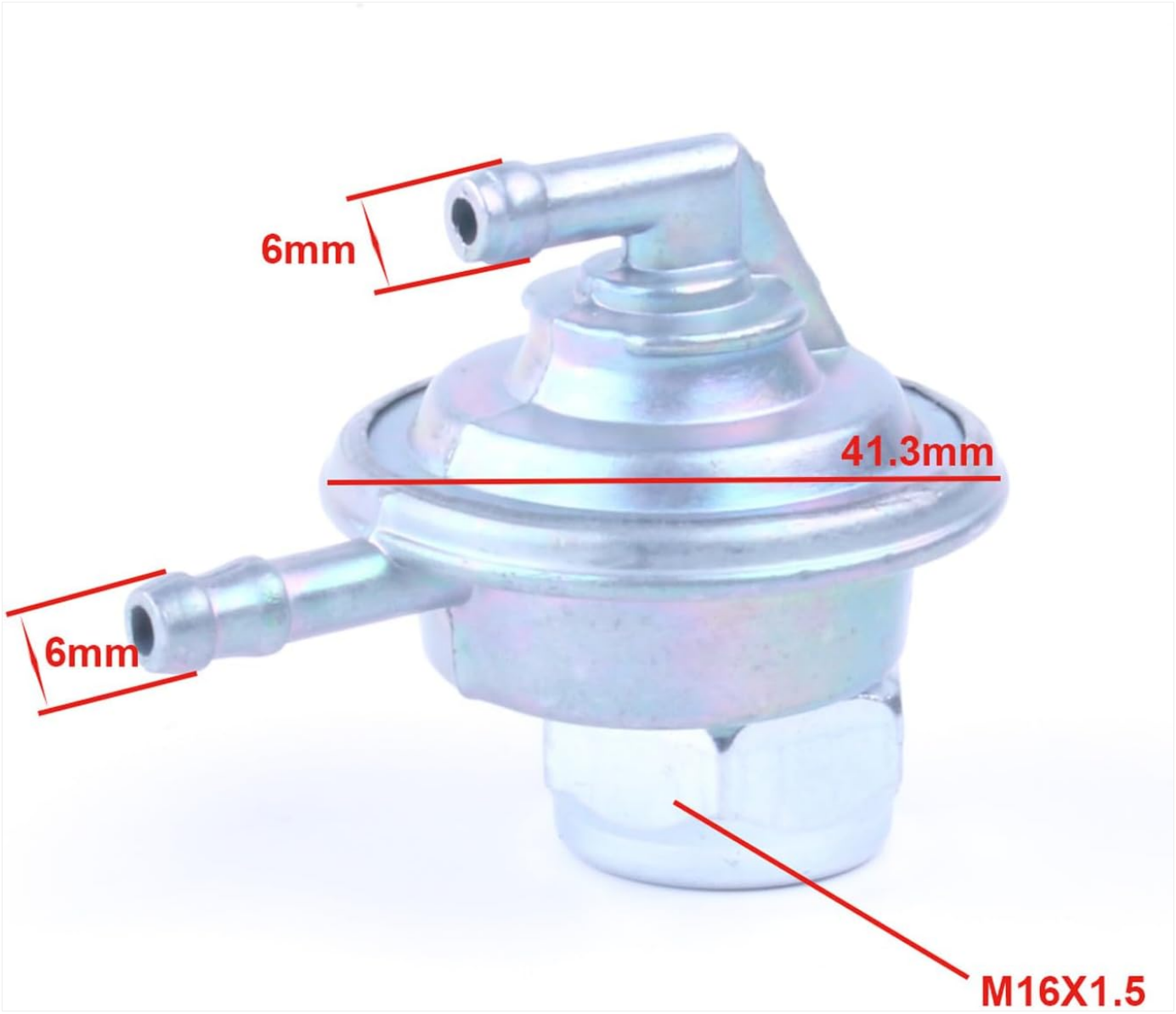


Figure 2: Detailed view of the fuel petcock with key dimensions, including the M16x1.5 thread size and 6mm hose barb diameters.

Installation

Proper installation is crucial for the safe and effective operation of the fuel petcock. Always ensure the vehicle's fuel tank is empty and pressure is released by opening the gas cap before beginning installation.

1. **Safety First:** Disconnect the battery and ensure the engine is cool. Work in a well-ventilated area and have a fire extinguisher nearby.
2. **Locate Existing Petcock:** Identify the current fuel petcock, typically located at the bottom of the fuel tank.
3. **Remove Old Petcock:** Carefully disconnect the fuel lines and vacuum line from the old petcock. Use appropriate tools to unscrew and remove the old unit. Be prepared for residual fuel leakage.
4. **Inspect Mounting Area:** Clean the mounting surface on the fuel tank and inspect the threads for any damage.
5. **Install New Petcock:** Insert the new Glixal Vacuum Fuel Petcock into the fuel tank opening. Ensure the M16X1.5 thread aligns correctly. Hand-tighten first, then use a wrench to secure it firmly, but do not overtighten.
6. **Connect Lines:** Reconnect the fuel line(s) and the vacuum line to their respective ports on the new petcock. Ensure all connections are secure and free of kinks. The black oil seal (8mm ID x 14.5mm OD) should be properly seated.
7. **Check for Leaks:** After installation, refill the fuel tank and visually inspect all connections for any fuel leaks. Start the engine and allow it to idle, re-checking for leaks.



Figure 3: The fuel petcock shown with its integrated plastic filter, which extends into the fuel tank to draw clean fuel.

Operation

The Glixal Vacuum Fuel Petcock operates automatically based on the engine's vacuum. When the engine is running, it creates a vacuum that opens the petcock, allowing fuel to flow from the tank to the carburetor. When the engine is off, the vacuum ceases, and the petcock closes, preventing fuel from continuously flowing and potentially flooding the carburetor. This design eliminates the need for a manual ON/OFF/RESERVE switch, simplifying operation and reducing the risk of fuel leaks when the vehicle is not in use.

Maintenance

The Glixal Vacuum Fuel Petcock is designed for durability and minimal maintenance. However, periodic checks can help ensure its longevity and proper function:

- **Visual Inspection:** Regularly inspect the petcock and connected fuel lines for any signs of cracks, leaks, or deterioration.
- **Hose Condition:** Check the fuel and vacuum hoses for hardening, cracking, or loose connections. Replace any damaged hoses promptly.
- **Filter Cleanliness:** While the internal filter is designed to be low maintenance, if you suspect fuel flow issues, it may

indicate a clogged filter. Cleaning or replacing the petcock might be necessary in such cases.

- **Connection Security:** Ensure the petcock remains securely threaded into the fuel tank and that all hose clamps are tight.

Troubleshooting

If you experience fuel delivery issues, consider the following common problems related to the vacuum fuel petcock:

Problem	Possible Cause	Solution
Engine lags or hesitates / Stalling at idle	Defective petcock diaphragm allowing fuel into vacuum line.	Test the petcock's vacuum function. If faulty, replace the petcock.
Scooter getting flooded / Gas leaking into manifold	Petcock not closing properly, allowing continuous fuel flow.	Inspect petcock for internal failure. Replace if necessary.
No fuel flow to carburetor	Clogged internal filter or faulty vacuum operation.	Check vacuum line for blockages or leaks. Inspect/replace petcock.
Petcock does not fit fuel tank	Incorrect thread type (e.g., coarse vs. fine).	Verify the required thread size for your vehicle's fuel tank. This petcock uses M16X1.5.

Specifications

Attribute	Detail
Brand	Glixal
Model Number	ATMT1-176
UPC	718460830784
Material	Metal (Zinc-Plated), Plastic
Thread Size	M16X1.5
Plastic Filter Length	63.5 mm
Black Oil Seal Size	8mm (ID) X 14.5mm (OD)
Vehicle Service Type	Go-Kart, Scooter
Compatible Engine Types	GY6 49cc, 50cc, 125cc, 150cc (139QMB, 152QMI, 157QMJ)
Item Weight	0.15 Pounds (approx. 2.4 ounces)
Package Dimensions	2.76 x 2.68 x 2.24 inches

Warranty and Support

For information regarding product warranty, returns, or technical support, please refer to the documentation provided with your purchase or contact Glixal customer service directly. You can often find support contact details on the official Glixal website or through the retailer where the product was purchased.
For additional resources and product information, visit theGlixal Store on Amazon.

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