

FLO 014554-1

FLO Waterjet Universal On/Off Valve Body 014554-1 Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective use, installation, and maintenance of the FLO Waterjet Universal On/Off Valve Body, model 014554-1. Please read this manual thoroughly before installation or operation to ensure proper function and to prevent damage or injury.

This component is designed for integration into 87K waterjet cutting head assemblies, specifically compatible with Dynamic XD 5 Axis systems (model 045160-1).

Safety Notice: Always follow standard safety procedures for high-pressure waterjet systems. Disconnect power and relieve pressure before performing any installation or maintenance.

2. PRODUCT OVERVIEW

The FLO Universal On/Off Valve Body 014554-1 is a critical spare part for high-pressure waterjet cutting systems. It is engineered to control the flow of water within the cutting head assembly, ensuring precise operation.

Key Features:

- Universal On/Off Valve Body, model 014554-1.
- Rated for 87,000 PSI (87K) waterjet systems.
- Designed for use with Cutting Head Assembly Dynamic XD 5 Axis, model 045160-1.
- Constructed from durable materials suitable for high-pressure waterjet environments.

Illustrative Component Views:

The following images provide illustrative views of a waterjet valve body component (part number 048198-1), demonstrating typical construction and features. While not the exact model 014554-1, they represent similar components within a waterjet system.

Figure 2.1: Top-down view of a waterjet valve body component, showing the threaded top connection and the etched part number "048198-1" and date "20-03-28".




Figure 2.2: Side view of the valve body component, highlighting a threaded port for connection within the waterjet system.




Figure 2.3: Angled view of the valve body component, illustrating the top threaded connection and small auxiliary ports on the main body.



Figure 2.4: Opposite side view of the valve body component, showing its solid construction.




Figure 2.5: Bottom view of the valve body component, revealing a large threaded opening for connection to other system parts.




Figure 2.6: Angled bottom view of the valve body component, showing the threaded opening and the etched part number "048198-1".

3. SETUP AND INSTALLATION

Proper installation of the Universal On/Off Valve Body is crucial for system performance and safety. This component should only be installed by qualified personnel familiar with high-pressure waterjet systems.

Installation Steps:

1. **Safety First:** Ensure the waterjet system is completely powered off, depressurized, and locked out according to facility safety protocols.
2. **Identify Location:** Locate the existing on/off valve body within the cutting head assembly (model 045160-1) that requires replacement.
3. **Remove Old Component:** Carefully disconnect all high-pressure lines and fasteners securing the old valve body. Note the orientation and connection points for reassembly.
4. **Inspect Connections:** Clean all mating surfaces and inspect O-rings, seals, and threads for wear or damage. Replace any worn components as necessary.
5. **Install New Valve Body:** Position the new FLO Universal On/Off Valve Body 014554-1 into the assembly. Ensure proper alignment.
6. **Secure Connections:** Reconnect all high-pressure lines and secure fasteners according to the waterjet system manufacturer's torque specifications. Use appropriate thread sealants if required.
7. **Leak Check:** After installation, slowly pressurize the system and carefully check for any leaks around the newly installed valve body. Address any leaks immediately.
8. **Functionality Test:** Perform a functional test of the on/off valve to ensure it operates correctly before resuming full production.

Caution: Incorrect installation can lead to system failure, leaks, and potential injury due to high-pressure water.

4. OPERATING INSTRUCTIONS

The FLO Universal On/Off Valve Body 014554-1 functions as an integral part of the waterjet cutting head's high-pressure water delivery system. Its operation is typically controlled by the main waterjet system's software and hardware.

General Operation:

- The valve body facilitates the opening and closing of the high-pressure water path to the cutting nozzle.
- Activation and deactivation are managed through the waterjet machine's control interface, typically in conjunction with cutting programs.
- Ensure that the valve body is properly integrated and calibrated with the system for optimal cutting performance.

Warning: Never attempt to manually operate or tamper with the valve body while the system is under pressure. Refer to your waterjet machine's primary operating manual for detailed instructions on system startup and shutdown procedures.

5. MAINTENANCE

Regular maintenance extends the lifespan of the valve body and ensures consistent performance of your waterjet system. Always perform maintenance with the system depressurized and locked out.

Recommended Maintenance Schedule:

- **Daily/Shiftly:** Visually inspect the valve body for any signs of external leaks, corrosion, or physical damage.
- **Weekly/Bi-weekly:** Check all connections for tightness. Ensure no debris is accumulating around the valve body.
- **Monthly/Quarterly:** Depending on usage, consider a more thorough inspection of internal components if accessible and recommended by the waterjet system manufacturer. This may involve disassembling the valve (if designed for it) to inspect seals and internal surfaces for wear.
- **As Needed:** Replace worn or damaged seals, O-rings, or other consumable parts immediately to prevent system failure.

Note: Use only genuine FLO replacement parts or manufacturer-approved equivalents for any repairs to maintain system integrity and warranty.

6. TROUBLESHOOTING

This section addresses common issues that may arise with the Universal On/Off Valve Body. For complex problems, consult a qualified technician or the waterjet system manufacturer.

Problem	Possible Cause	Solution
Water Leakage from Valve Body	Loose connections, worn seals/O-rings, damaged valve body.	Check and tighten connections. Replace worn seals/O-rings. Inspect valve body for cracks or damage; replace if necessary.
Valve Fails to Open/Close	Obstruction, control system malfunction, internal component failure.	Depressurize and inspect for debris. Check electrical connections to the valve actuator (if applicable). Consult waterjet system manual for control system diagnostics.
Reduced Water Pressure/Flow	Partial obstruction in valve, upstream pressure issues, worn internal components.	Inspect valve for blockages. Verify upstream pressure. Consider internal inspection and replacement of worn parts.

7. SPECIFICATIONS

Technical specifications for the FLO Universal On/Off Valve Body 014554-1:



Attribute	Detail
Brand	FLO
Model Number	014554-1
Compatibility	87K Water Jet Cutting Head Assembly Dynamic XD 5 Axis (045160-1)
Material	Rubber or Plastic. etc (as per manufacturer, specific metal not detailed)
Manufacturer	win-win waterjet
Package Dimensions	4.72 x 3.94 x 3.94 inches
ASIN	B08CBTDWFT
Date First Available	July 1, 2020





8. WARRANTY AND SUPPORT

For warranty information and technical support regarding the FLO Universal On/Off Valve Body 014554-1, please contact your original point of purchase or the manufacturer, win-win waterjet. Ensure you have your purchase details and the product model number readily available.

For general inquiries or to purchase additional spare parts, please refer to the contact information provided by your supplier.

Related Documents - 014554-1

	<p>FLO Maison Home Charging Station Limited Warranty</p> <p>Official limited warranty document for FLO MaisonMD X3, X6, and X8 home charging stations, detailing coverage, duration, claims procedure, and exclusions provided by AddÉnergie Technologies Inc. (FLO).</p>
	<p>FLO Home Limited Warranty: Terms, Conditions, and Coverage</p> <p>Detailed limited warranty information for FLO Home EV chargers (X3, X6, X8) by AddÉnergie Technologies Inc. dba FLO, covering product defects, warranty period, remedies, exclusions, and dispute resolution.</p>

 <p>The cover of the FLO Home® X3 Installation Guide features the FLO logo in blue script at the top left. Below it is a black and white image of the FLO Home X3 charging station with its charging cable coiled around it. The text 'FLO Home® X3' and 'Installation Guide' is printed on the right side of the cover.</p>	<p>FLO Home® X3 Installation Guide: Setup and Safety Instructions</p> <p>Comprehensive installation guide for the FLO Home® X3 electric vehicle charging station. Covers safety, electrical requirements, mounting, wiring, and operation for home EV charging.</p>
 <p>The cover of the FLO Ultra™ Ordering Guide features the FLO logo in blue script at the top left. Below it is a black and white image of the FLO Ultra charging station with two charging cables plugged into it. The text 'FLO Ultra™' and 'Ordering Guide' is printed on the left side of the cover.</p>	<p>FLO Ultra Ordering Guide</p> <p>This guide provides information on ordering the FLO Ultra charging station, including configurations, warranties, services, and additional components.</p>
 <p>The cover of the FLO Home® X3 50 Amp Smart EV Charger - Reliable, Efficient, and Stylish guide features the FLO logo in blue script at the top left. Below it is a black and white image of the FLO Home X3 charging station with its charging cable coiled around it. The text 'FLO Home® X3' and '50 Amp Smart EV Charger - Reliable, Efficient, and Stylish' is printed on the right side of the cover.</p>	<p>FLO Home® X3: 50 Amp Smart EV Charger - Reliable, Efficient, and Stylish</p> <p>Explore the FLO Home® X3, a 50 amp smart EV charger designed for ultimate reliability and performance. Featuring a durable, weather-resistant build, universal EV compatibility (J1772/NACS), smart charging features like scheduling and app control, and a sleek design. Learn about its technical specifications, certifications, and benefits for electric vehicle owners.</p>
 <p>The cover of the FLO Home X3 Smart EV Charger: Technical Specifications and Features guide features the FLO logo in blue script at the top left. Below it is a black and white image of the FLO Home X3 charging station with its charging cable coiled around it. The text 'FLO Home X3' and 'Smart EV Charger: Technical Specifications and Features' is printed on the right side of the cover.</p>	<p>FLO Home X3 Smart EV Charger: Technical Specifications and Features</p> <p>Detailed technical and physical specifications for the FLO Home X3, a 50 amp smart EV charger. Learn about its reliability, weather resistance, safety features, compatibility, electrical and environmental data, certifications, and connectivity options from AddÉnergie Technologies Inc. d/b/a FLO.</p>