

FADINI MEC 800 SPECIAL 7115L

FADINI MEC 800 SPECIAL 7115L Hydraulic Swing Gate Actuator User Manual

1. INTRODUCTION

This user manual provides essential information for the safe and efficient installation, operation, and maintenance of the FADINI MEC 800 SPECIAL 7115L hydraulic swing gate actuator. Please read this manual thoroughly before proceeding with any procedures to ensure proper functioning and to prevent damage or injury. Keep this manual for future reference.

2. PRODUCT OVERVIEW

The FADINI MEC 800 SPECIAL 7115L is a robust hydraulic actuator designed for external mounting on swing gates, intended for industrial use. It operates with a separate hydraulic control unit.

Key characteristics of the MEC 800 SPECIAL series include:

- **Durability:** Engineered to effectively move large gate leaves, doors, and industrial gates, including solid surfaces, without limitations on the number of operations.
- **Versatility:** Available with a rod stroke up to 1,000 mm. Optional hydraulic deceleration (self-braking) during opening and closing. Supports installation of two pistons on a single gate leaf using a dual-reservoir hydraulic control unit.
- **Reliability:** Constructed with high-quality components designed to withstand various weather conditions. Features a special key release mechanism located on the hydraulic control unit for manual operation.



An image showing the FADINI MEC 800 SPECIAL 7115L hydraulic swing gate actuator, a long, rectangular silver-colored unit with a black end cap and brass fittings, designed for external mounting.

3. SAFETY INSTRUCTIONS

WARNING: Improper installation or use can lead to serious injury or property damage. Always adhere to local safety regulations and standards.

- Installation and maintenance should only be performed by qualified personnel.
- Ensure the power supply to the hydraulic control unit is disconnected before any installation, maintenance, or troubleshooting procedures.
- Keep hands, clothing, and tools clear of moving parts during operation.
- Do not allow children or unauthorized persons to operate the gate system.
- Regularly inspect the system for wear, damage, or loose connections.
- Ensure all safety devices (e.g., photocells, safety edges) are correctly installed and functioning.

4. INSTALLATION

The FADINI MEC 800 SPECIAL 7115L actuator requires a separate hydraulic control unit for operation. Professional installation is highly recommended.

Important Installation Notes:

- For gate leaves exceeding 2 meters in length, an electric lock is mandatory to ensure secure closure.
- The hydraulic control unit equipped with a P12 pump offers double the operating speed compared to the P6 pump model (P6 version is generally recommended for standard applications). The actual operating speed will vary based on the specific MEC 800 SPECIAL hydraulic piston type used and the inertia of the gate leaf.
- For single gate leaf installations utilizing two hydraulic pistons (with a maximum rod stroke of 400 mm), a dual-reservoir hydraulic control unit is required.
- A dual-reservoir hydraulic control unit is also necessary for hydraulic pistons with a stroke of 500 mm, 600 mm, 700 mm, 800 mm, 900 mm, or 1,000 mm.
- If using a reversible hydraulic control unit (one without a hydraulic lock), an electric lock must be installed on the gate for security.

Refer to the specific hydraulic control unit manual for detailed wiring and setup instructions.

5. OPERATION

The FADINI MEC 800 SPECIAL 7115L actuator is controlled via its dedicated external hydraulic control unit. Once installed and configured by a qualified technician, the gate system can be operated using the appropriate control devices (e.g., remote controls, keypads, push buttons) connected to the hydraulic control unit.

Manual Release:

In case of power failure or system malfunction, the gate can be manually operated using the special key release mechanism located on the hydraulic control unit. Consult the hydraulic control unit manual for specific instructions on engaging and disengaging the manual release.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and reliable operation of your FADINI MEC 800 SPECIAL 7115L actuator. Perform the following checks periodically:

- **Hydraulic Fluid Level:** Check the hydraulic fluid level in the control unit reservoir. Top up if necessary with the recommended FADINI hydraulic oil.
- **Seals and Hoses:** Inspect all hydraulic seals and hoses for any signs of leaks, cracks, or damage. Replace damaged components immediately.
- **Mounting Points:** Verify that all mounting bolts and brackets are secure and free from corrosion.
- **General Cleaning:** Keep the actuator body and surrounding area clean from dirt, debris, and vegetation that could impede movement.
- **Electrical Connections:** Ensure all electrical connections to the hydraulic control unit are tight and free from corrosion.

For complex maintenance or repairs, contact a qualified FADINI service technician.

7. TROUBLESHOOTING

Before contacting technical support, review the following common troubleshooting steps:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Gate does not move	No power to control unit Hydraulic fluid level low Manual release engaged Obstruction	Check power supply and circuit breaker Check and top up hydraulic fluid Disengage manual release Remove any obstructions
Gate moves slowly or erratically	Low hydraulic fluid pressure Air in hydraulic system Worn seals	Check fluid level and pump Bleed the hydraulic system (professional) Inspect and replace seals (professional)
Unusual noises during operation	Low hydraulic fluid Worn mechanical parts Air in system	Check and top up hydraulic fluid Inspect for worn components (professional) Bleed the hydraulic system (professional)

If the issue persists after attempting these solutions, contact a qualified FADINI service technician.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	MEC 800 SPECIAL 7115L
Actuator Type	Hydraulic, External Mounting
Application	Swing Gates (Industrial Use)
Rod Stroke (Corsa dello stelo)	600 mm
Piston Stroke (Corsa pistone)	600 mm
Rod Diameter (Diametro dello stelo)	22 mm
Max Single Leaf Length	6 meters
Max Single Leaf Weight	800 kg
Force	0 ÷ 7,000 N
Self-Braking Deceleration	Not available (non fornibile)
Manufacturer	FADINI

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your authorized FADINI dealer or the manufacturer directly. Keep your proof of purchase for any warranty claims.

For technical support, spare parts, or service, please contact your local FADINI distributor or a qualified service technician.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question