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Fränkische 79506027

Fränkische Profitherm Actuator VM 230V Valve Motor User Manual

Model: 79506027

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of the Fränkische Profitherm Actuator VM 230V Valve Motor. This device is designed to control the flow in heating circuits, specifically in underfloor heating systems, by responding to signals from a room thermostat.

2. PRODUCT OVERVIEW

The Profitherm Actuator VM 230V is a compact valve motor designed for precise control of heating circuits. It operates by opening or closing valves based on electrical signals, typically from a room thermostat.



Figure 1: Fränkische Profitherm Actuator VM 230V Valve Motor. The image displays the main unit, a grey cylindrical actuator, alongside its coiled white power cable. The actuator features the 'FRÄNKISCHE' brand name prominently on its body.

2.1 Components

- **Actuator Unit:** The main body containing the motor and control mechanism.
- **Power Cable:** For connecting the actuator to a 230V power supply and control signal.
- **Mounting Thread/Mechanism:** For attachment to the valve on the heating manifold.

3. SETUP AND INSTALLATION

Important: Installation should only be performed by qualified personnel. Ensure the power supply is disconnected before beginning installation to prevent electrical shock.

1. **Power Disconnection:** Turn off the main power supply to the heating system at the circuit breaker.
2. **Valve Preparation:** Ensure the valve on the heating manifold where the actuator will be installed is clean and free from debris.
3. **Mounting the Actuator:** Carefully screw or clip the Profitherm Actuator onto the designated valve on the heating manifold. Ensure it is securely fastened according to the valve manufacturer's instructions.
4. **Electrical Connection:** Connect the actuator's power cable to the 230V power supply and the control output from the room thermostat or heating control unit. Refer to the wiring diagram provided with your heating system or thermostat for correct connections. The cable typically has two wires (e.g., brown for live, blue for neutral).
5. **Power Reconnection:** Once all connections are secure and verified, restore power to the heating system.
6. **Initial Test:** Observe the actuator's response to signals from the room thermostat to confirm proper operation.

4. OPERATING INSTRUCTIONS

The Profitherm Actuator VM 230V operates automatically in conjunction with your room thermostat and heating control system.

- **Automatic Control:** When the room thermostat detects that the room temperature is below the set point, it sends a signal to the actuator.
- **Valve Opening:** Upon receiving the signal, the actuator will open the corresponding valve on the heating manifold, allowing hot water to circulate through the floor heating circuit.
- **Valve Closing:** Once the room temperature reaches the set point, the thermostat ceases the signal, and the actuator closes the valve, stopping the flow of hot water to that circuit.
- **Manual Override (if applicable):** Some actuators may feature a manual override function (e.g., a push button or lever). Consult your specific actuator model or heating system documentation for details on manual operation.

5. MAINTENANCE

The Profitherm Actuator VM 230V is designed for minimal maintenance. Regular checks can help ensure optimal performance.

- **Visual Inspection:** Periodically inspect the actuator and its connections for any signs of damage, loose wiring, or leaks around the valve.
- **Cleaning:** Keep the exterior of the actuator clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Functional Check:** During heating season, observe the actuator's operation. Ensure it opens and closes smoothly in response to thermostat commands.
- **Professional Inspection:** It is recommended to have your entire heating system, including actuators,

inspected by a qualified technician annually.

6. TROUBLESHOOTING

If you experience issues with your Profitherm Actuator, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
Actuator does not open/close	No power supply; Faulty wiring; Thermostat not sending signal; Actuator malfunction.	Check power supply to the heating system. Verify wiring connections. Check thermostat settings and functionality. If issues persist, contact a qualified technician.
Heating circuit not warming up	Actuator not opening valve; Air in the heating circuit; Low system pressure.	Ensure actuator is opening. Bleed air from the heating circuit. Check system pressure and refill if necessary.
Unusual noises from actuator	Internal mechanical issue; Improper mounting.	Ensure actuator is securely mounted. If noise persists, the actuator may be faulty and require replacement.

For complex issues or if you are unsure about any troubleshooting step, it is always recommended to consult a professional HVAC technician.

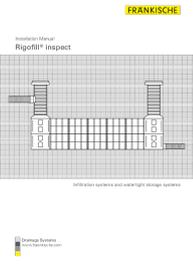
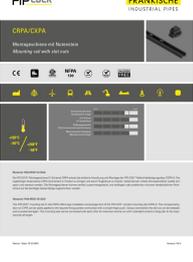
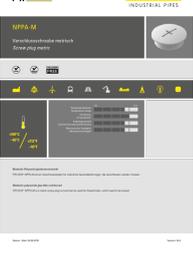
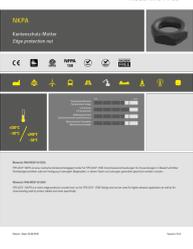
7. SPECIFICATIONS

Feature	Detail
Brand	Fränkische
Model Name	Profitherm Actuator VM 230 V
Item Model Number	79506027
Voltage	230 Volts
Product Dimensions	3 x 3 x 3.5 inches
Manufacturer	Fränkische
ASIN	B07PQ8WNXK

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the manufacturer, Fränkische, directly. Details regarding warranty periods and claims procedures are typically outlined in the product packaging or on the manufacturer's official website.

Manufacturer: Fränkische

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