

SMART SHUT-OFF VALVE (WIRED M-Bus)



Product Overview

This intelligent shutoff valve is designed for cutting off chilled water flow in HVAC system. Equipped with wired M-Bus communication, it enables seamless integration into Tenant Billing Software for remote monitoring and control. The built-in battery ensures reliable operation even during power outages, enhancing system resilience.

Key Features and Benefits

- ▶ **Wired M-Bus Communication:** Ensures reliable and secure data transmission for remote monitoring and control via standard M-Bus protocol.
- ▶ **Durable Construction:** Copper alloy body and stainless-steel ball provide excellent corrosion resistance and long service life in water applications.
- ▶ **Powerful Actuation:** 10 Nm motor torque ensures positive and reliable shut-off under pressure.
- ▶ **Autonomous Operation:** High-capacity 4100 mAh battery enables operation even during power outages (lifespan dependent on usage).
- ▶ **High Environmental Protection:** IP67 rated enclosure offers robust protection against dust and water ingress, suitable for demanding environments.
- ▶ **High Pressure Rating:** PN25 rating allows for use in systems with operating pressures up to 25 bar.
- ▶ **Versatile Application:** Suitable for controlling flow in both chilled water and domestic water systems.
- ▶ **Easy Integration:** Compliant with the wired M-Bus standard for straightforward integration with compatible building management systems and data loggers.

Applications

- ▶ Chilled water distribution systems in HVAC applications.
- ▶ Domestic water supply networks in residential and commercial buildings.
- ▶ Zone control in heating and cooling systems.
- ▶ Leakage prevention and isolation.
- ▶ Remote monitoring and control of water flow.

Technical Specifications

Feature	Specification
Valve Body Material	DN 50 - DN80 Ductile Iron
Ball Valve Material	Stainless Steel 304 (1.4301)
Actuator Type	Electric Motorized
Electric Motor Torque	10 Nm
Power Supply	Integrated Battery
Battery Capacity	4100 mAh
Battery Model	ER26500
Enclosure Rating	IP67
Maximum Pressure Rating	Map16 / Map25
Nominal Pressure	25 bar
Communication Protocol	Wired M-Bus (EN 13757)
Application Media	Chilled Water, Domestic Water
Durability	The valve has been opened and closed continuously for 100000 times without any malfunction
Flow rates	
DN50	0.5 - 28
DN65	2 - 35
DN80	3 - 70

Installation and Operation

- ▶ Installation should be performed by qualified personnel in accordance with relevant regulations and guidelines.
- ▶ Ensure proper alignment and sealing during installation.
- ▶ Refer to the product manual for detailed wiring and communication setup instructions.
- ▶ The valve is controlled via M-Bus commands for opening and closing.

Ordering Information

Please specify the following when ordering:

- ▶ Product Name: Wired M-Bus Smart Shut-off Valve
- ▶ Valve Size (DN)
- ▶ Connection Type and Size
- ▶ Any specific requirements

Notes

- ▶ Specifications are subject to change without notice.
- ▶ Refer to the latest product manual for the most up-to-date information.
- ▶ Contact our sales team for pricing and availability.

Safety Precautions

- ▶ Ensure the system is depressurized and cooled down before installing or maintaining the valve.
- ▶ Do not exceed the specified pressure and temperature limits.
- ▶ Follow all electrical safety guidelines when connecting external power (if applicable).
- ▶ Dispose of batteries according to local environmental regulations.