



Description

T-Valve is a LoRaWAN water valve used in residential or commercial buildings. 3/4" and 1"1/4 versions available, respectively DN20 and DN32.

SKU: MC-LW-T-VALVE-01

Product features

- Remote water supply control
- Water temperature
- Environment temperature
- Wired Flood Sensor (optional)
- Housing tampering detection
- Magnetic tampering detection
- Buttons for manual control
- LEDs for valve and device status indication
- Buzzer

Applications

- Smart Buildings
- Smart home
- Residential buildings
- Commercial buildings
- Environment monitoring

Device specifications

Mechanical specifications

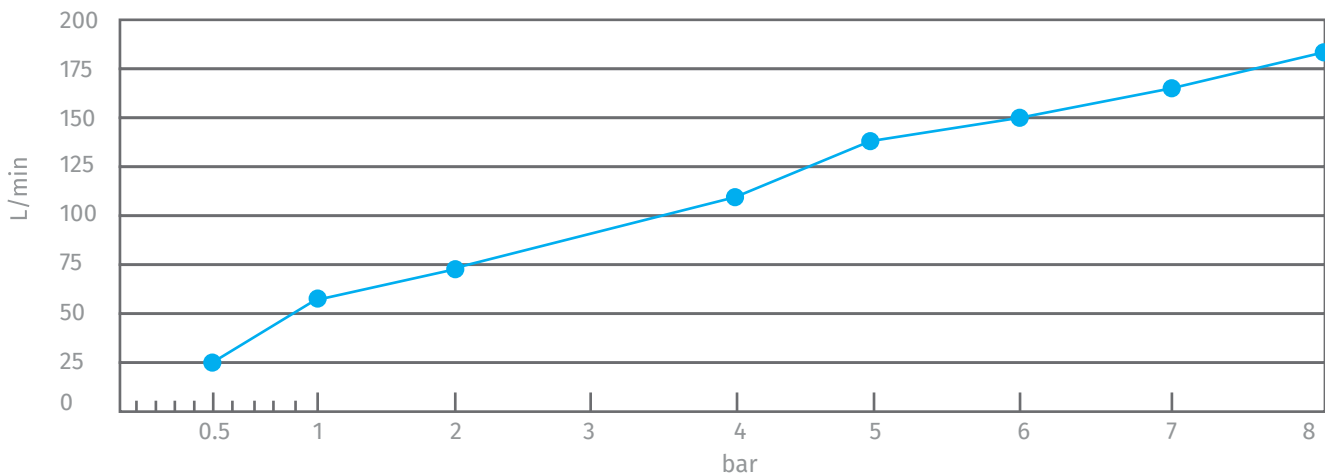
WEIGHT	550gr
DIMENSIONS	105x117x90,8mm
ENCLOSURE	PC/ABS; Valve PPE/PS

Valve Specifications

VALVE TYPE	Solenoid valve
FITTINGS SIZES	DN20 or DN25
OPERATING PRESSURE	0.5 - 12 bar
MEDIA TEMPERATURE	1-75°C
VALVE RESPOND TIME	open ≤ 0.15s; close ≤ 2s

PRESSURE/FLOWRATE RATIO

Pressure (bar)	0,5	1	2	4	5	6	7	8
Flowrate (L/min)	25	55	72	115	135	150	165	180



Performance test

HIGH WATER PRESSURE CLOSING	At water pressure 8 bar solenoid valve can be closed normally
LOW WATER PRESSURE CLOSING	At water pressure 0.5 bar solenoid valve can be closed manually
LEAKAGE UPON HIGH WATER	12 bar zero leakage
LEAKAGE UPON LOW WATER	0.5 bar \leq 0,1mL/min

SEALING TEST (STATIC PRESSURE)

COLD WATER

High pressure 12 bar

Low pressure 0.2 bar

HOT WATER

High pressure 8 bar

Low pressure 0.2 bar

Service life \geq 1,000,000 cycles

Operating conditions

TEMPERATURE	0-60°C
HUMIDITY	35%-90% RH (non-condensing)
PERMISSIBLE LIMITING WATER	\leq 12 bar

Storage conditions

STORAGE TEMPERATURE	-5-+80°C (no freezing state)
STORAGE HUMIDITY	25%-95% RH (non-condensing)

Operating conditions

TEMPERATURE	0-60°C
HUMIDITY	35%-90% RH

Sensors

Temperature

RESOLUTION 0,1°C

ACCURACY $\pm 1^\circ\text{C}$

Wired flood sensor

FEATURES Two-wire connection
Short-circuit detection
Missing sensor detection

Magnetic tampering sensor

Plastic enclosure open/close sensor
