



 Battery included

## 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 DN32
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

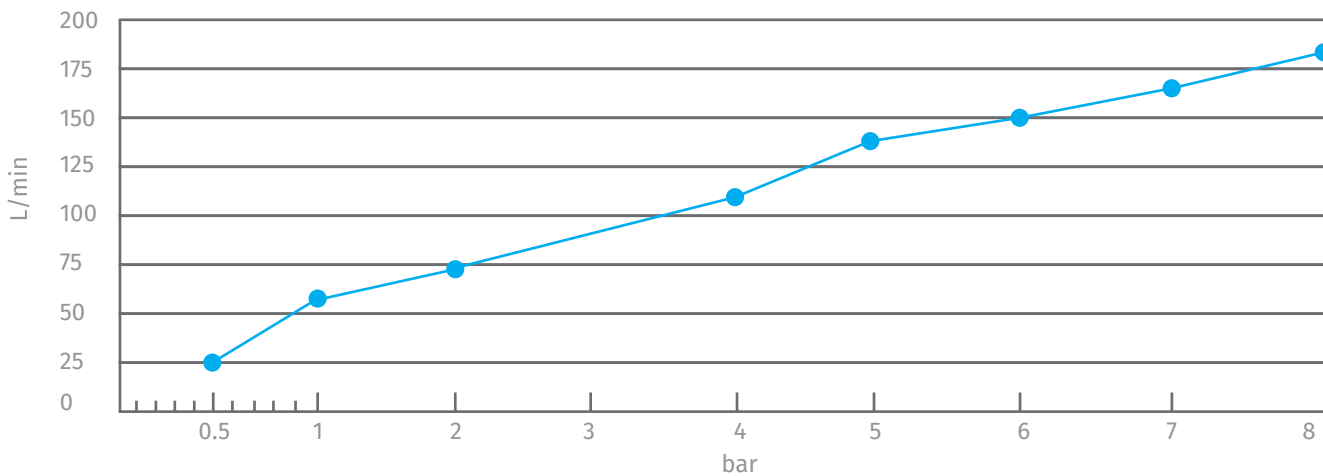
115

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

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RESOLUTION 0,1°C

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

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### Wired flood sensor

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

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### Magnetic tampering sensor

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### Plastic enclosure open/close sensor

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