



Description

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

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

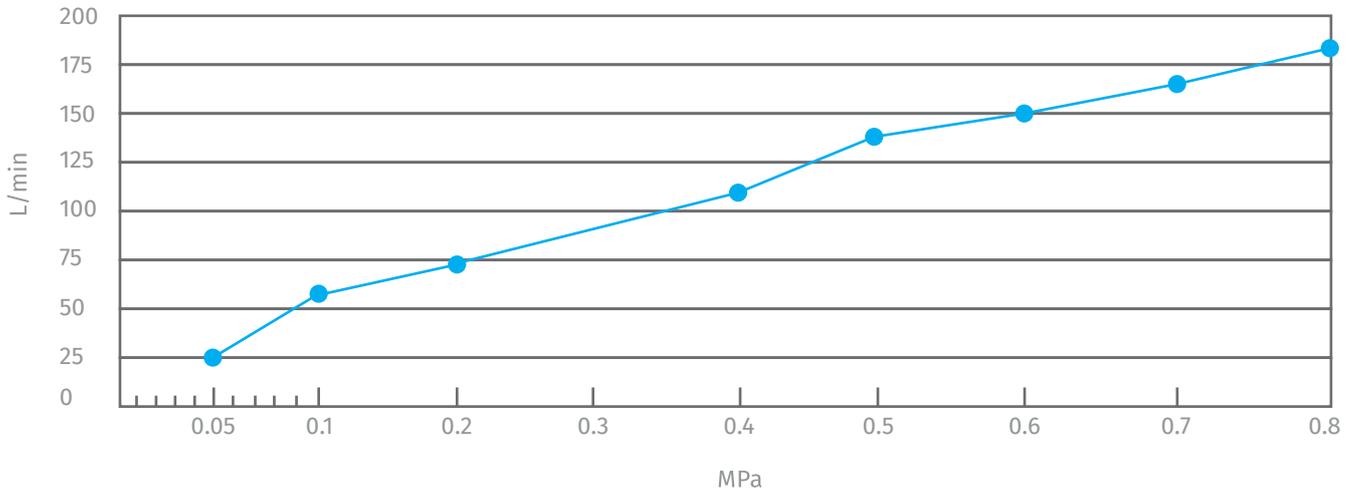
WEIGHT	550gr
DIMENSIONS	105x117x90,8mm
ENCLOSURE	PC/ABS; Valve PPE/PS

Valve Specifications

VALVE TYPE	Solenoid valve
FITTINGS SIZES	DN20 or DN25
OPERATING PRESSURE	5-8 bar
MEDIA TEMPERATURE	1-75°C
VALVE RESPOND TIME	open ≤ 0.15s; close ≤ 2s

PRESSURE/FLOWRATE RATIO

Pressure (MPa)	0,05	0,1	0,2	0,4	0,5	0,6	0,7	0,8
Flowrate (L/min)	25	55	72	115	135	150	165	180



Performance test

HIGH WATER PRESSURE CLOSING	At water pressure 0,8MPa, solenoid valve can be closed normally
LOW WATER PRESSURE CLOSING	At water pressure 0,05MPa solenoid valve can be closed manually
LEAKAGE UPON HIGH WATER	1,2Mpa zero leakage
LEAKAGE UPON LOW WATER	0,05MPa ≤ 0,1mL/min

SEALING TEST (STATIC PRESSURE)

COLD WATER	High pressure	1,2MPa
	Low pressure	0,02MPa
HOT WATER	High pressure	0,8MPa
	Low pressure	0,02MPa

Service life ≥ 1,000,000 cycles

Operating conditions

TEMPERATURE	0-60°C
HUMIDITY	35%-90% RH (non-condensing)
PERMISSIBLE LIMITING WATER	≤ 1,2MPa

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 (non-condensing)

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
