

## STREGA Smart-Valve specifications

Product ID	Extreme range wireless LoRaWAN valve	Smart Operation	Time-controlled schedules, automatic Open/Close on DI conditions, etc.
Body and cover	brass	Radio technology	Standard LPWAN LoRaWAN 1.02 Class A & C with no proprietary overhead – star-of-stars topology
Armature, plunger and core	Stainless steel	Range	>15 km LOS (line of sight) >2 km in urban environment >22 floors inside building
Seal material	NBR-FPM-EDPM	Encryption	128-bit AES enhanced 3-levels encryption keys
Max. fluid viscosity	25 cSt (mm <sup>2</sup> /s)	Max. SV per gateway	128-1000 depending on duty cycles
Max. allowable pressure	DN10 to DN32: 25 bars (PN25) DN40 to DN65: 20 bars (PN20)	Max. smart-valves per project	not limited (each valve has a unique ID key)
Min.differential pressure	0.15 bar	Frequency (License free)	EU868 (Europe, Middle East), US915 (North America) AS923 (Australia, NZ, Asia, etc.)
Max. differential pressure	10 bar	Maximum output power	+18.5dBm
Threads	BSP or NPT	Data rate	290 bps – 50 Kbps
Fluid t°	-10°C...+55°C / 14°F... 131°F (NBR) -20°C... +140°C / -4°F... 284°F (EPDM)	Data Read	Valve Open/Close status – battery level – device ID – enclosure tampering, analog value, alarm, RSSI, etc.
Working t°	-20°C...+70°C / -4°F...158°F	Data Write	Open/Close command – transmit frequency, schedulers, time sync, etc.
Sections	DN10, DN13, DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80 (from 1/8" to 3")	Tamper	Enclosure opening/closing immediately reported to the Concentrator
Media	Liquids, compressed air, oil-free or dry neutral gases	Inputs/Outputs	2 Digital Inputs (dry contacts) 1 Analog Input (0-10VDC) 1 moisture sensor input Ambient Temperature Ambient hygrometry
Duty Cycle	100% continuous rating	Power supply	Replaceable Lithium batteries and/or external 9-60VDC
Manual override	Press buttons for local Open/Close or via Magnet	Autonomy	10+ years*
Form factor	"All-in-one" or "segregated" (with detection of cable cut or connector disconnection)	Antenna	Internal with +2.1 dB Gain
IP protection	IP68	Reference	SV-DNxx-yyy-zzz (xx for section size, yyy for frequency, zzz for thread type)

\* battery life depends on Rx/Tx frequency and Open/Close frequency