

Technical Data

Weathermatic >

> Flow sensors

DESCRIPTION:

Materials

- Impellers: HDPE (High Density Polyethylene)
- Shaft: tungsten carbide
- O-ring: Buna-N
- Bracket, sensor case, fixing nuts: PVC

Specifications

- Pressure: 10 bar a 32 °C
 - Temperature range: 0 ÷ 60 °C
 - Flow rate range: 0,08 ÷ 3,66 m/s
- Flow rate:
- Ø 1": 3,3 ÷ 197 l/min
 - Ø 1 1/2": 6,8 ÷ 409 l/min
 - Ø 2": 10,6 ÷ 644 l/min
 - Ø 3": 22,8 ÷ 1.136 l/min
 - Ø 4": 37,8 ÷ 1.817 l/min

Electrical Specifications

- Output signal: frequency range: 0.3 ÷ 200 Hz output pulses: 5 ms +/- 25%
- Transducer performance
 - quiescent current: 600 uA at 8 ÷ 35 V DC max
 - standby voltage: (VHigh) = power supply voltage - (600uA x network impedance)
 - on: (VLow) = max 1,2 V DC at 50mA - current limit, (10Ω + 0,7 V DC)
- Electrical cable:
 - 2 conductor elements in copper 18AWG in cable with insulation for direct burial
 - cable length: 1,2 meters
 - wiring can be extended up to 610 meters with direct burial, shielded twisted pair cable



Code	Article	Description	Ø
FCA820	E-SLFSI-T10	Flow sensor PVC	1"
FCA821	E-SLFSI-T15	Flow sensor PVC	1 1/2"

Code	Article	Description	Ø
FCA823	SLFSI-S30	Bracket flow sensor	3"
FCA824	SLFSI-S40	Bracket flow sensor	4"



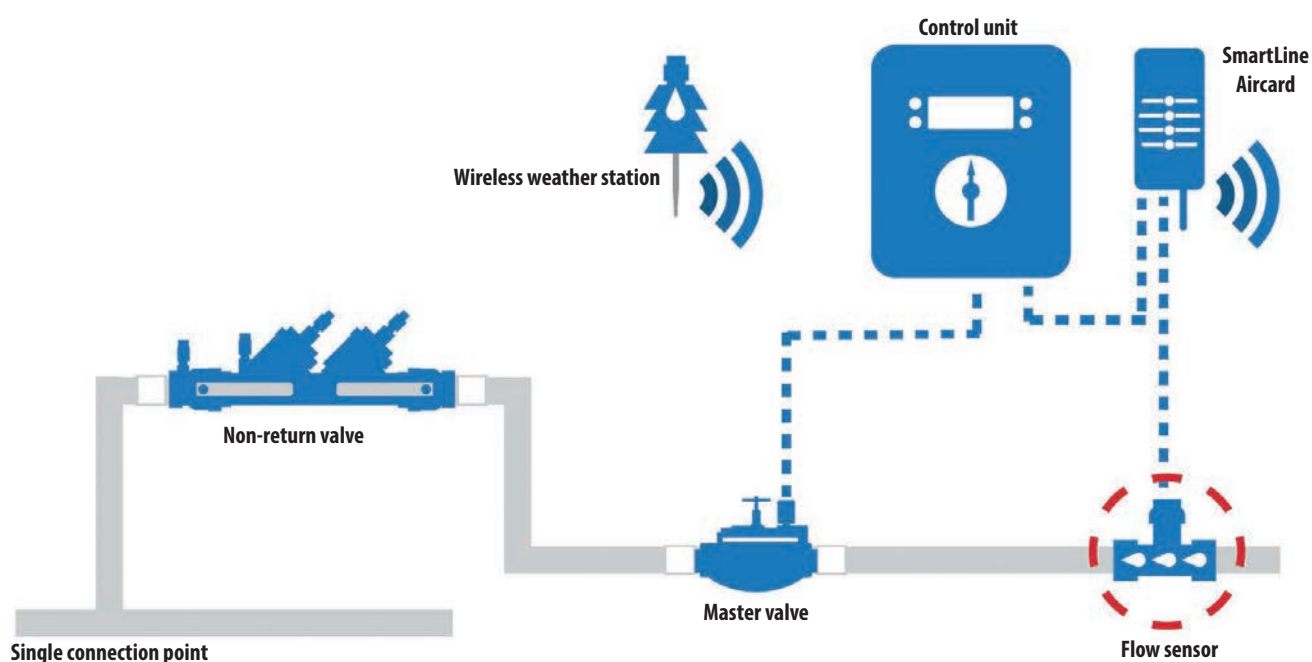
PERFORMANCE FLOW SENSORS

	Model	E-SLFSI-T10	E-SLFSI-T15	SLFSI-S30	SLFSI-S40
	Ø sensors	1"	1 1/2"	3"	4"
	m/s	l/m			
Minimum speed	0,08	3,3	6,8	22,7	37,9
	0,30	13,2	27,4	94,6	151,4
	0,61	26,5	54,9	189,3	302,8
	0,91	39,4	83,3	283,9	454,2
	1,52	64,4	136,3	473,2	757,1
	2,13	90,8	193,1	662,4	1.059,9
	3,05	132,5	272,5	946,4	1.514,2
	3,66	159,0	329,3	1.135,6	1.817,0
Minimum speed	4,57	196,8	408,8		
Pressure drop (mH2O) at maximum speed		0,17	0,12	0,10	0,10

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INSTALLATION DIAGRAM



Landscape