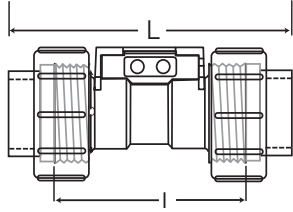


Dimensions

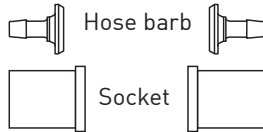
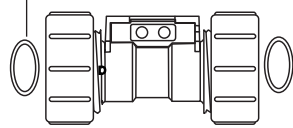
L = overall length

All sockets: 102 mm (4 in.)
 Butt fusion/IR: 170 mm (6.7 in.)
 1/4 in. Barb: 124 mm (4.9 in.)
 3/8 in. Barb: 127 mm (5 in.)
 1/2 in. Barb: 132 mm (5.2 in.)



l = 64 mm (2 1/2 in.) Electronics module

O-ring



Application Tips

- All socket and hose barb connector kits are sold individually. Two kits are required for each sensor.
- Mount at any angle.
- Junction block, 3-8050-1 recommended if standard cable is extended to maximum 300 m (1000 ft)

Please refer to **Wiring, Installation, and Accessories** sections for more information.

Specifications

General

Operating Range:

- L = 0.38 to 3.8 lpm (0.10 to 1 U.S. gpm)
- H = 3 to 38 lpm (0.8 to 10 U.S. gpm)

Linearity: ±3% of reading
 Repeatability: ±0.5% of reading
 Pipe size range: DN15 (1/2 in.)
 Hose size: DN8 (3/8 in.), DN10 (3/8 in.), DN15 (1/2 in.)

Wetted Materials

Sensor Body/Rotor: PVDF
 Shaft/Bearings: Ceramic
 O-rings: -1 = FPM, -2 = EPR (EPDM)
 Electronics:
 PBT (polybutylene terephthalate)
 EVA (ethylene vinyl acetate)

Electrical

Power: 5 to 24 VDC ±10%, regulated, 1.5 mA max.
 Reverse polarity protected

Electrical (continued)

Output:

Open collector, sinking, max 30 mA
 Cable Length: 4.6 m (15 ft) can be extended up to 300 m (1000 ft)

Cable Type:

PVC jacketed, 2 conductor twisted pair with shield (22 AWG)

Max. Temperature/Pressure Rating

16 bar @ 20 °C, 9.3 bar @ 70 °C
 (232 psi @ 68 °F, 130 psi @ 158 °F)

Operating Temperature:

-20 °C to 70 °C (-4 °F to 158 °F)

Storage Temperature:

-15 °C to 80 °C (5 °F to 176 °F)

See Temperature and Pressure graphs

Shipping Weight 0.15 kg 0.33 lb

Standards and Approvals

- CE
- RoHS compliant
- Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management

Ordering Information

Sensor Part Number	
3-2100	Turbine flow sensor, PVDF body and rotor, for use with various end-connectors
	O-ring Material - Choose One
-1	FPM
-2	EPR (EPDM)
	Flow Range
L	low, 0.38 to 3.8 lpm (0.10 to 1 gpm)
H	high, 3 to 38 lpm (0.8 to 10 gpm)
3-2100	-1 L Example Part Number

*Note: To install this flow sensor, end fittings must be installed on both ends of the sensor. See selection below

Fitting Part Number	
3-2100	End fitting for Model 2100 sensor
	Type of End Fitting
-31	Hose barb connector kit, PVDF, 1/2 inch (1-hose barb and 1-ring nut)
-32	Hose barb connector kit, PVDF, 3/8 inch (1-hose barb and 1-ring nut)
-33	Hose barb connector kit, PVDF, 1/4 inch (1-hose barb and 1-ring nut)
-34	Fusion socket connector, PVDF, DN15 1/2 inch (1-fusion socket and 1 ring nut)
-35	Butt Fusion/IR connector kit, PVDF, DN15 1/2 inch (1-IR socket and 1 ring nut)
-36	Metric socket connector kit, PVC, 1/2 inch (1-solvent socket and 1 ring nut)
-37	SCH 80 socket connector kit, PVC, 1/2 inch (1-solvent socket and 1 ring nut)
-38	NPT thread socket connector kit, PVC, 1/2 inch (1-threaded socket and 1 ring nut)
3-2100	-33 Example Part Number

Mfr. Part No.	Code	Mfr. Part No.	Code
3-2100-1L	159 000 001	3-2100-34	159 000 008
3-2100-2L	159 000 003	3-2100-35	159 000 009
3-2100-1H	159 000 002	3-2100-36	159 000 010
3-2100-2H	159 000 004	3-2100-37	159 000 011
3-2100-31	159 000 005	3-2100-38	159 000 012
3-2100-32	159 000 006		
3-2100-33	159 000 007		

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
1220-0018	159 000 019	O-rings FPM (2 required per sensor)
1224-0018	159 000 020	O-rings EPR (EPDM) (2 required per sensor)
3-2100.390-1L	159 000 015	Turbine Lo Flow with FPM O-rings (replacement body)
3-2100.390-1H	159 000 016	Turbine Hi Flow with FPM O-rings (replacement body)
3-2100.390-2L	159 000 017	Turbine Lo Flow with EPR (EPDM) O-rings (replacement body)
3-2100.390-2H	159 000 018	Turbine Hi Flow with EPR (EPDM) O-rings (replacement body)
3-2100.390	159 000 014	Electronics Module with 15 ft (4.6 m) cable
3-8050-1	159 000 753	Universal junction box