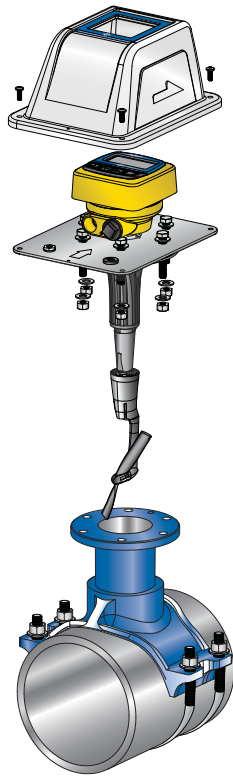


Signet 4-3150 AgRotor System



Features

- **Standard power options**
 - 2 X 3.6 lithium batteries – 4 Year Life
 - Solar panel
 - 12 to 24 VDC
- **Volumetric output signal for data collection and telemetry systems**
- **Single flow system design that can be used in any 6,8,10 or 12 inch pipe irrigation systems**
- **Totalizer can be programmed in Acre ft, Acre in or gallons X 1000**
- **Mounts in pipe horizontally or vertically**
- **Password protected**
- **Lockable cover (tamper proof)**
- **Installs in 30 minutes**
- **Field repairable**
- **Minimum downtime**
- **Fits all Center Pivot manufacturers systems**



Applications

- **Agriculture Irrigation**
- **Center Pivots**
- **Nursery/Greenhouse**
- **Fertilization/Chemical Injection**
- **Golf Courses**
- **Turf Irrigation**

The GF Signet 4-3150 AgRotor System provides farmers with an easy to install, easy to repair flow meter solution while meeting and exceeding local water authority concerns regarding security/ tampering of the meter and delivers accurate water use.

Standard volumetric output pulse allows direct connection to all major Pivot panel manufactures and telemetry systems for data logging.

The advance AgRotor system allows a single meter design with the proper saddle to be mounted in either a horizontal piping system or in the vertical stand pipe of Irrigation Pivots ranging from 6 to 12 inches.

The AgRotor assembly design has no mechanical bushing or bearing that needs to be replaced. In the event that the rotor fails, it can be replaced on site in only 15 minutes.

Specifications

Signet 4-3150 AgRotor Flow Sensor

General

Typical Pipe Size and Flow Rates

6 in.	88 gpm to 1,761 gpm
8 in.	157 gpm to 3,132 gpm
10 in.	245 gpm to 4,893 gpm
12 in.	352 gpm to 7,046 gpm
Repeatability	±0.5% of max range
Accuracy	±2% of reading (under reference conditions)
Rotor Diameter	5 in.

Wetted Materials

Sensor Body	PC/PBT Alloy
Rotor (propeller) Assembly	PC/PBT Alloy and Acetal
Sensor Flange	A-36 Cold Roll Steel with Galvanized Coating
Sensor Gasket	Neoprene Rubber
Rotor Bearing and Shaft	Ceramic
Rotor Face Seal	316 SS

Fluid Conditions

Agriculture Sensor Max. Pressure/Temp. Ratings	150 psi max @ 68 °F, 32 psi max @ 140 °F
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Signet 4-8150-3 Totalizer

General

Compatibility	4-3150-31, 4-3150-32, 4-3150-33
Accuracy	±0.5% of reading

Enclosure

Rating	NEMA 4X/IP65 (front panel)
Display: LCD type	
4-digit upper line	Flow rate or elapsed time
8-digit lower line	Two totalizer options: one permanent, one resettable
	Acre Feet - 0.000 Acre Inch - 0.00 Gallons X 1000 - 0.0 Custom - customer sets decimal point

Display Contrast	Automatic
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Electrical

Battery	Two 3.6 V Lithium thionyl chloride, AA-size. 4 year battery life nominal @ 50 °C (122 °F)
Input Power	12 to 24 VDC regulated (28 volts DC Maximum), 300 Micro-amps Maximum. Batteries switch to backup power
Low Battery indication	Battery symbol on LCD display

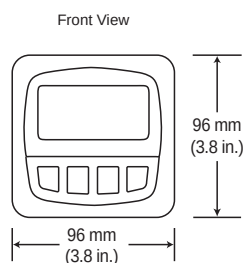
Pulse Output

Maximum current sink	50 mA
Maximum cable length	1000 ft
Power requirement	24 VDC max.

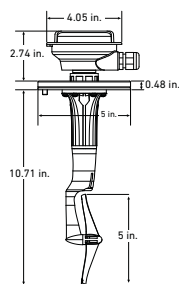
Standards and Approvals

CE
Manufactured under ISO 9001 for Quality, ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety.

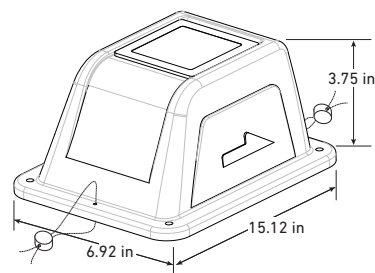
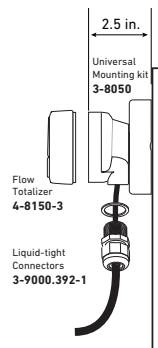
Dimensions



4-8150-3

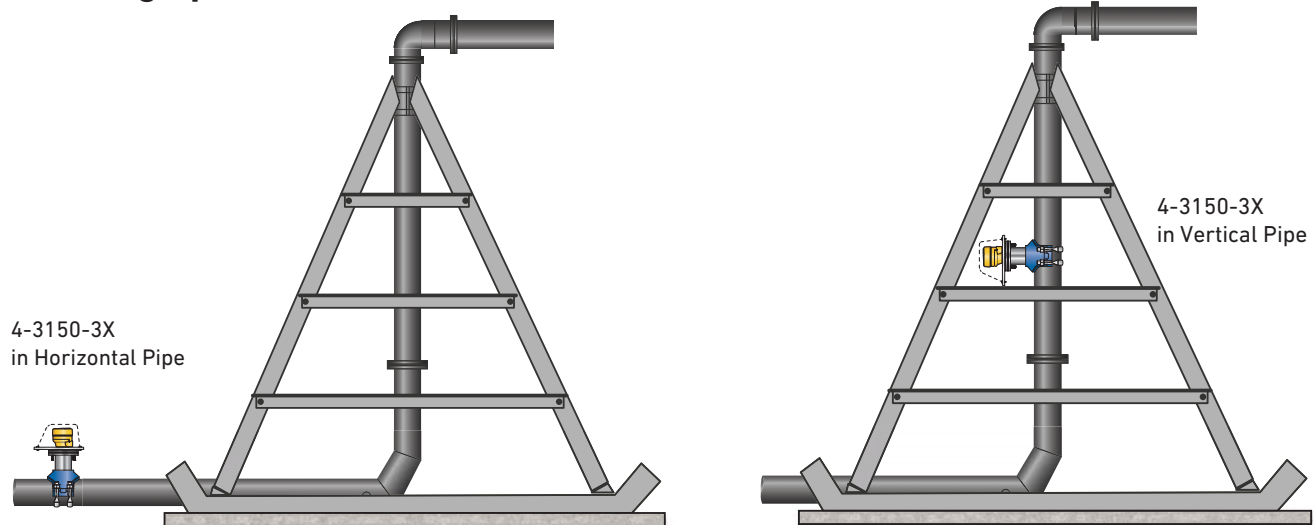


4-3000-5

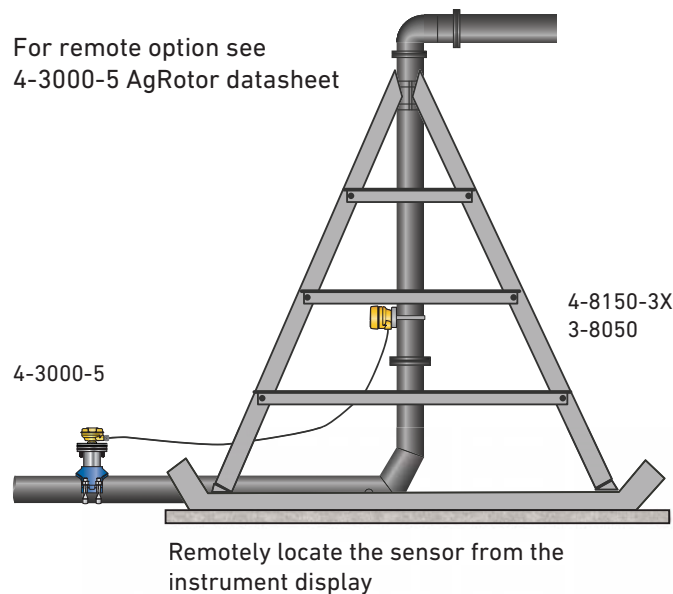


4-3112

Mounting Options



Remote Mounting: AgRotor Flow Sensor and 4-8150-3 Display

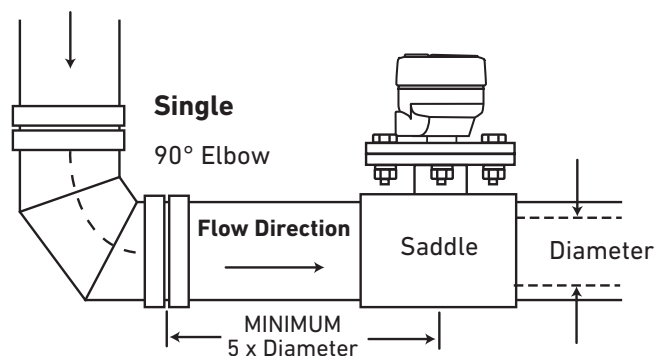


Installation Location

Pipe must always be full

- **Recommended:** the pipe must be straight and uninterrupted for at least **ten pipe diameters** before the AgRotor System.

NOTE: It is acceptable to install the AgRotor System **five pipe diameters downstream** from a simple 90 degree Elbow or Check valve.



Application Note:

The AgRotor is designed for well water applications. GF Signet will not be responsible for the performance of the irrigation sensor in applications where organic or inorganic materials (including but not limited to reeds, grasses, algae, hair or string) are present in the water stream nor in applications where silt, clay or any other adhesive materials may coat the surfaces of the rotor assembly.

Ordering Information

Signet 4-3150-3X AgRotor Assembly - Each Include: Irrigation Flow Totalizer, Outer Cover, GF AgRotor Flow Sensor

Mfr. Part No.	Code	Description
4-3150-31*	159 050 425	AgRotor with Totalizer in Acre Feet
4-3150-32*	159 050 426	AgRotor with Totalizer in Acre Inch
4-3150-33*	159 050 427	AgRotor with Totalizer in Gallons x 1000

*Can be programmed for any totalizer units - AC/in., AC/Ft, Gallon x1000

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
7400-0011**	159 000 935	3.6V Lithium Battery for 8150 (2 required)
4-3000-5	159 050 000	AgRotor Flow Sensor w/25 ft cable
4-3000.390	159 310 085	Replacement Rotor Assembly, AgRotor
4-3112	159 050 004	Replacement Totalizer Outer Cover Assembly
4-8150-3***	159 050 424	Irrigation Flow Totalizer, Field Mount

****NOTE:** Use Saft LS14500 Lithium Batteries or equivalent ONLY.

***Can be programmed for any totalizer units - AC/in., AC/Ft, Gallon x1000

Installation Fittings with flange Saddles and Weldolets

Epoxy-coated Saddles with Flange		
4-3000.566	159 500 544	Saddle, irrigation, 6 inch OD (6.5" - 6.63")
4-3000.568	159 500 545	Saddle, irrigation, 8 inch OD (8.5" - 8.63")
4-3000.570	159 500 546	Saddle, irrigation, 10 inch OD (10.60" - 10.75")
4-3000.572	159 500 547	Saddle, irrigation, 12 inch OD (12.75" - 13.50")
Steel Weldolets with Flange		
4-3000.666	159 500 548	Weldolet, steel, irrigation, 6 inch
4-3000.668	159 500 549	Weldolet, steel, irrigation, 8 inch
4-3000.670	159 500 550	Weldolet, steel, irrigation, 10 inch
4-3000.672	159 500 551	Weldolet, steel, irrigation, 12 inch

Aluminum Weldolets with Flange available. Contact factory.

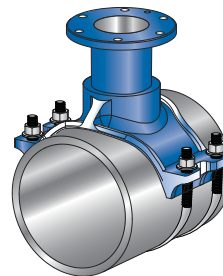
Installation Fittings with Flange

Options include:

- A. Epoxy-coated Saddles with Flange
- B. Steel Weldolets with Flange

NOTE: Aluminum Weldolets and Saddles with Flange available. Contact factory.

A



B



4-3150.099 Rev A (05/17)

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