Flow measurement solutions for water and wastewater

V2 System

The Space Saver Solution

Introducing the V2 System, a flowmeter specifically designed to save space by reducing the need for upstream and downstream straight pipe runs. Ready to install out of the box, the V2 System allows you to accurately measure flow in no time. And with no recalibration and easy installation, the V2 helps keep operating costs where they should be: down.

McCROMETER

The Flow Measurement Specialists

High Performance

The V2 System offers better accuracy and repeatability, wider rangeability, installation flexibility and reduced maintenance. Its performance is so outstanding, some users say it deserves a technology name all its own!

Accuracy You Can Count On

The key benefit to the V2 System's unique design is its ability to provide reliable accuracy of up to ±1% of rate over a 10:1 flow range under the most difficult flow conditions. Readings are always precise and reliable, even under changing flow conditions.

- Water Well Production
- Cooling Water
- Raw Water Influent
- Reclaimed Water
- Finished Water Effluent
- Filter and Pipe Galleries

Acts as own flow conditioner

The V2 System's enhanced performance is due to the shape and positioning of the measuring element. This allows the V2 System to act as its own flow conditioner, fully conditioning and mixing the flow prior to measurement.

Maximum Installation Flexibility

The V2 System's ability to condition the flow prior to measurement results in another significant benefit: installation flexibility. Because the V2 System can accurately measure disturbed flow, it doesn't require the same upstream or downstream straight pipe runs of many other flowmeters. This key feature means the V2 System can be installed virtually anywhere in a piping system or easily retrofit into an existing piping layout. The result can be significant cost savings. It also means the V2 System can fit where other flowmeters can't due to limited space or weight requirements.

Low-to-No Operating Costs

The V2 System assures long-term performance because there are no moving parts to repair or replace. And once installed, the V2 System never needs to be removed from service.

Pre-packaged, Tested and Ready to Install

The V2 System Flowmeter comes pre-packaged, wet flow calibrated and ready to install, taking the headaches away from adding the meter to any flow installation.

Benefits and Features

- Displays both rate of flow and total flow. Rate and total functions are independent of each other allowing for many different combinations of flow units.
- Accuracy up to ±1% of rate
- Flow range: 10:1
- Installation: Typically 0-3 diameters upstream and 0-1 diameter downstream
- Totalizer pulse and linear 4-20 mAdc outputs
- No parts to wear so little maintenance required
- HART™ Interface
- 3-way manifold for isolating the transmitter

Specifications for Models V2150 (150 psi) and V2300 (300 psi)

PERFORMANCE

ACCURACY: Up to ±1% of reading over standard flowrange.
RANGE: See dimensions chart below
HEAD LOSS: Typical ≤2 psi at Full Scale
MAXIMUM TEMPERATURE: (Standard Construction)
180°F constant
PRESSURE RATING: Model V2150: 150 psi
Model V2300: 300 psi
POWER: 110 VAC, optional 24VDC
OUTPUTS: Analog 4-20mA
OPTICALLY ISOLATED PULSE OUTPUT For Remote Totalization
TRANSMITTER HOUSING & DISPLAY ENCLOSURE: NEMA 4X (IP66)

MATERIALS

Remote mount display includes 50 feet of power/signal cable. For additional length, please consult factory.
BODY: 6-inch & larger: Fusion-bonded epoxy coated carbon steel
4-inch: All 304 stainless steel
MEASURING ELEMENT: 304 stainless steel

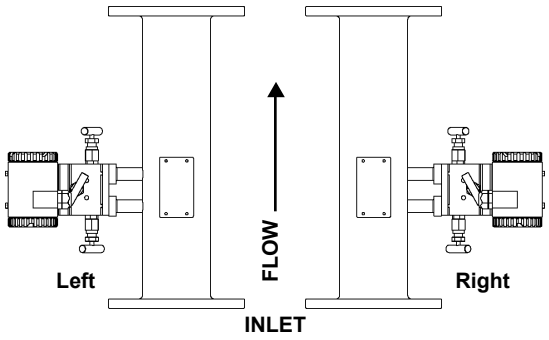
END CONNECTIONS

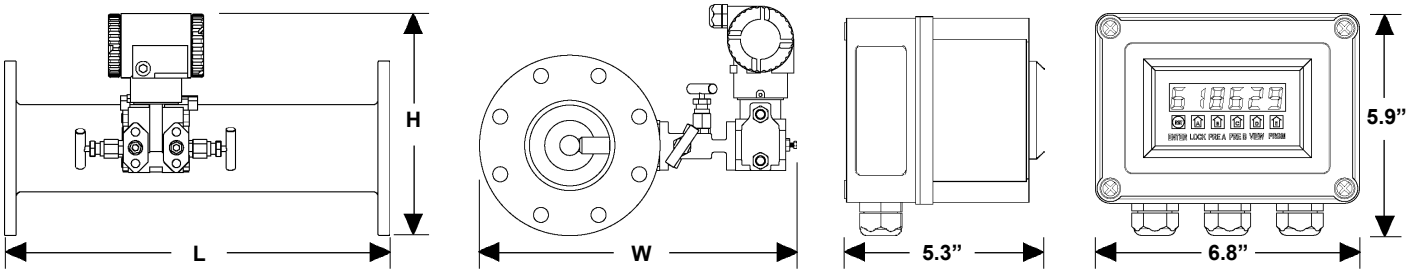
V2150: 6-inch & larger: Carbon Steel AWWA Class D;
4-inch: Raised Face ANSI Class 150
V2300: 6-inch and larger: Carbon Steel AWWA Class F;
4-inch: Raised Face ANSI Class 300

OPTIONS

- Other flange standards available
- Other laying lengths available
- Transmitter may be mounted on either side of the flow tube

Instrument orientation
(Specified at time of order)





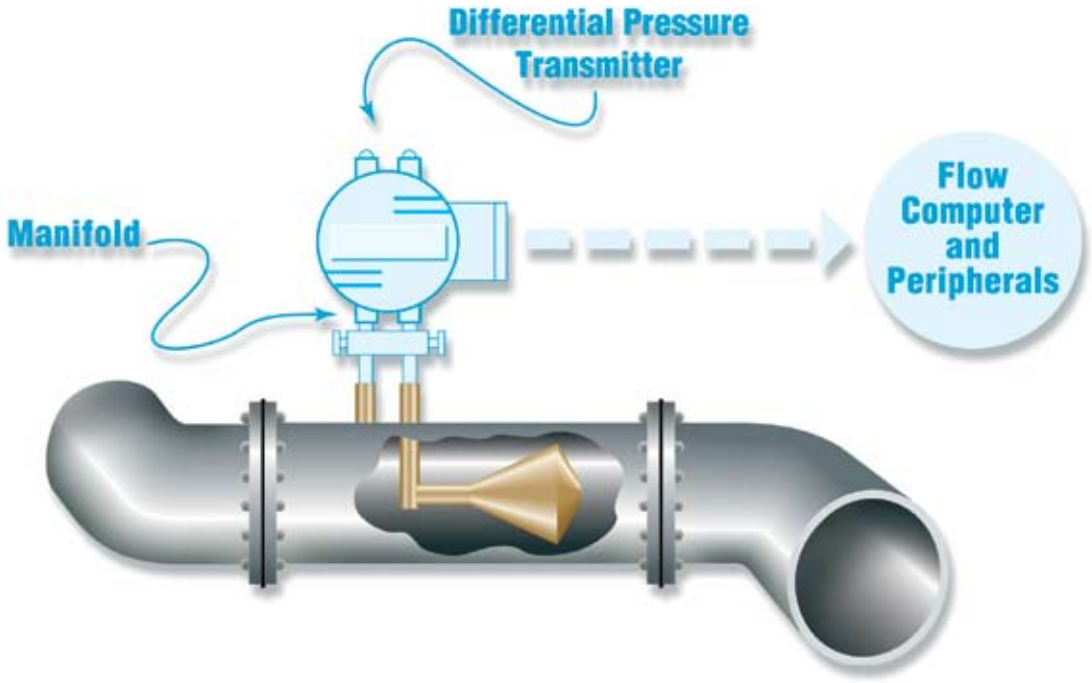
Flow Computer

McCrometer reserves the right to change design specifications without notice.

V2150 / V2300		DIMENSIONS							
Meter and Nominal Pipe Size		4	6	8	10	12	14	16	18
Standard Flow Ranges (GPM)	A	40-400	80-800	100-1000	120-1200	160-1600	200-2000	270-2700	300-3000
	B	60-600	120- 1200	150-1500	180-1800	250-2500	300-3000	400-4000	500-5000
	C	90-900	180-1800	225-2250	270-2700	375-3750	450-4500	600-6000	750-7500
V2150		**V2150**							
Approx. Shipping Weight - lbs.		54	115	135	197	325	465	530	744
W (width - inches)		17.75	20	22	24.5	27	28.5	30.75	32.5
H (height - inches)		13	14	15.4	16.6	19	21	23.5	25
L (length - inches)		20	28	34	38	42	44	46	50
No. of Bolts per Flange		8	8	8	12	12	12	16	16
V2300		**V2300**							
Approx. Shipping Weight - lbs.		90	145	220	340	430	650	820	1315
W (width - inches)		18.25	21	23	25.25	27.75	29.5	31.75	34
H (height - inches)		13.8	15	16.3	17.5	20.5	23	25.5	28
L (length - inches)		20	28	34	38	42	44	46	50
No. of Bolts per Flange		8	12	12	16	16	20	20	24

Note: *Larger meter sizes, special laying lengths, other flow ranges available by special order.*

ORDERING INFORMATION:
1. Select Nominal Pipe Size and one of the standard flow ranges A, B, or C.
2. Specify Instrument Orientation – Viewed from the inlet end of the meter, will the instrument(s) be on the right or left?
3. Specify units of measurement for both the flowrate indicator and totalizer.



OTHER McCROMETER PRODUCTS INCLUDE:

ULTRA MAG	Magnetic Flowmeters
MARSH MULTI•MAG	Magnetic Flowmeters
MARSH SINGLE•MAG	Magnetic Flowmeters
Propeller Meter	Propeller Flowmeters
Water Specialties Propeller Meter	Propeller Flowmeters
√CONE	Differential Pressure Flowmeters
Wafer-Cone	Differential Pressure Flowmeters

Electronic Instrumentation for Remote Display and Control

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