



Nexus Flow

# ULTRASONIC FLOW METER MASTER VALVE (UFMV-A)\*

## THE INDUSTRY'S MOST ACCURATE COMBINATION FLOW METER AND MASTER VALVE FOR LOW-FLOW LEAK DETECTION.

The Tucor Ultrasonic Flow Meter Master Valve Assembly ("UFMV-A") is Tucor's new family of advanced flow management products connecting today's Smart Irrigation controllers with the industry's most accurate flow meters (ultrasonic) and most reliable master valves for limited spaces...all without the 10-in-5-out pipe diameter rule! The UFMV Assembly's compact design, superior low-flow leak detection, and connectivity options make it the perfect flow meter/master valve product for a variety of site requirements, including sites with space limitations, consumptive water use measurement mandates, drip irrigation management needs, and more.

### FEATURES



Ultrasonic  
Technology



Ultra-Low Flow  
Capability



Unparalleled Leak  
Detection

#### Master Valve

Five models available:  
Plastic: N/C  
Brass: 2 N/O & 2 N/C.

#### Quick Release Pin

Easy removal for servicing or replacement.

#### Ultrasonic Flow Meter

##### Two-Wire

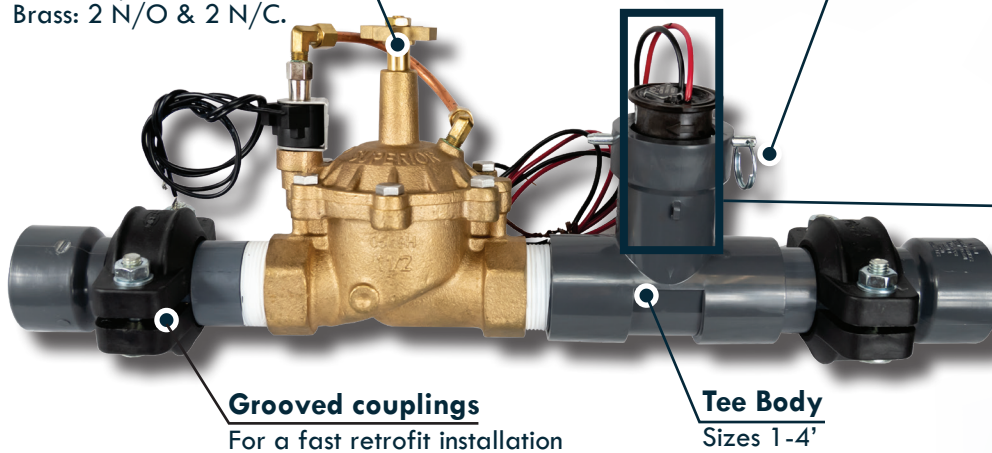
Easy to install with less wiring required.

##### LED Light Indicators

Green = Power  
Amber = Flow

##### No Moving Parts

No Maintenance.  
Corrosion Resistance.



**Grooved couplings**  
For a fast retrofit installation

**Tee Body**  
Sizes 1-4'

Unit Size 20"

2" Assembly easily fits into a jumbo valve box

# Installing Peace of Mind With SUPERIOR LOW-FLOW LEAK DETECTION

## APPLICATIONS

- Landscape & Turf
- Greenhouse, Nursery, & Industrial
- Agriculture
- Golf

## BENEFITS

### Water Conservation

Maximize the water-saving potential of your smart control system with the UFMV-A's superior leak detection capabilities.

### Cost Savings

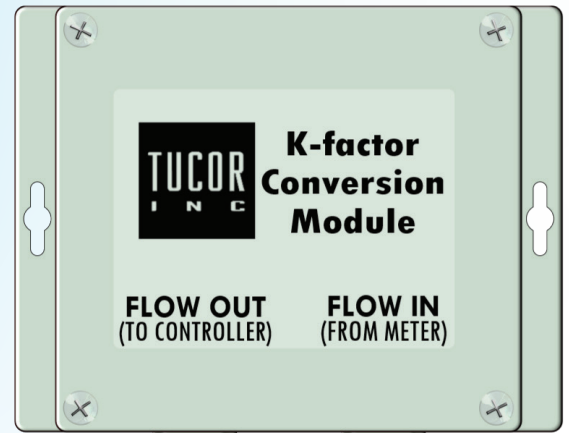
Accurately track and measure how much water you use for irrigation, down to the last drop.

### Fast Installation

The UFMV-A's compact design, Quick-Connect grooved couplings and preconfigured K-Factor Conversion Module make for a simple installation.

### Reduced Maintenance

The clog-resistant and durable design of the UFMV-A means less maintenance for you. The UFMV-A can be left in-place for Winterization.

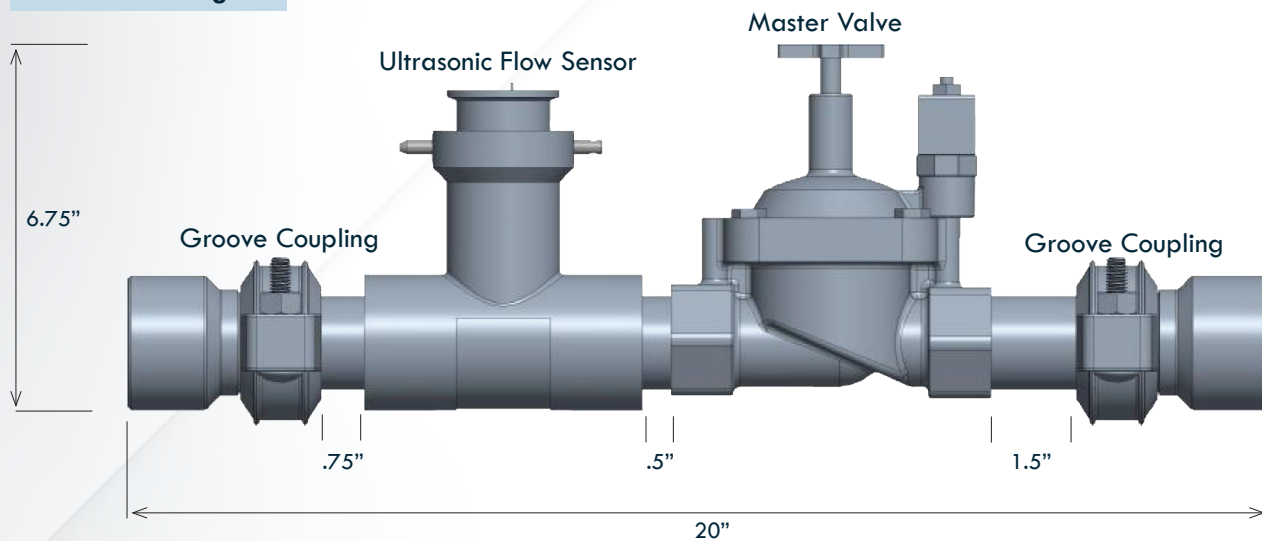


Patented K-Factor Conversion Module  
Included with Every UFMV-A Unit

## DIMENSIONS

Pre-assembled flow meter and master valve, shipped ready to install.

### 2" UFMV-A Diagram



# UFMV Assembly

Compatible with the Industry's Leading Controllers

## SPECIFICATIONS

### MATERIALS

**COUPLING** PAG/EPDM, Maximum Working Pressure 510 psi, non-shock at 68° F, Working Temp - 14-203° F

**FITTINGS** Schedule 80 PVC, Maximum Working Pressure 150 psi, non-shock at 73° F

### TECHNICAL

**ACCURACY** +/- 2% of Reading

**OPERATING TEMPERATURE** 32° F to +140° F

**OPERATING PRESSURE** 150 psi @ 73° F

**TRANSDUCER EXCITATION** Supply Voltage 7.5V (DC) min. to 36V (DC) max / Quiescent Current 200 µA (typical)

**OUTPUT FREQUENCY** 0 to 100 Hz

**OUTPUT PULSE WIDTH** 4 mSec

**ELECTRICAL CABLE FOR INSERT** 36" of 18 AWG, solid copper, "Direct Burial" (UL493 &83)

FLOW RANGE		
Pipe Size (Inch)	Operating Range (GPM)	
	Minimum	Maximum
1	0.22	33
1½	0.55	82
2	0.92	138
3	2.06	309

MASTER VALVE MATRIX			
Model	N/O	N/C	NMF (No Minimum Flow)
950/SPV	-	X	-
3100	X	-	-
3200	-	X	X
3300	X	-	X

## ORDERING INFORMATION | SPECIFYING MODEL NUMBER

1	2	3	4
Model	Line Size (In.)	Straight-Line Configuration	Master Valve
UFMV-A	1	C1	PN/C Plastic Normally-Closed Valve, 5 GPM Min Flow
	1.5		BN/C Brass Normally-Closed Valve, 5 GPM Min Flow
	2		BN/O Brass Normally-Open Valve, 5 GPM Min Flow
	3		NMF-BN/C Brass Normally-Closed Valve, No Min Flow
			NMF-BN/O Brass Normally-Open Valve, No Min flow

EXAMPLE: **UFMV-A-3-C1-BN/O**