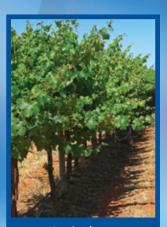
Water Meters

The Most Reliable and Accurate Water Meters with the Industry's Longest Warranty



Agriculture



Landscape & Turf









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Product Information



| 'M' Water Meters | |
|------------------------|----|
| Sizes: ¾", 1" and 1 ½" | 12 |



| 'WMR' Water Meter | |
|-------------------|--|
| Size: 2" 14 | |



| 'WST' and 'WT' Water Meters | |
|------------------------------|---|
| WST Sizes: 3", 4", 6" and 8" | |
| WT Sizes: 10" and 12" 1 | 6 |



| 'IRT' Water Meters | |
|-------------------------------|----|
| Sizes: 3", 4", 6", 8" and 10" | 20 |



| Fertilizer Meter - Polypropylene |
|-------------------------------------|
| Size: ³ / ₄ " |



| Fertilizer Meter - PVC | |
|------------------------|----|
| Size: 1" | 25 |



If You Can't Measure It, You Can't Manage It. It Makes Cents.

Every irrigation system - drip/micro, flood, sprinkler or center pivot - needs water and fertilizer delivered at the right time and in the right amounts. Metering is the only way to make sure water and fertilizers are delivered accurately.

Water and fertilizer metering requirements are met with high quality Netafim USA meters. They provide the confidence and assurance that the correct amount of water and fertilizer (nutrients) are being delivered to the crop maximizing yields and reducing energy costs.

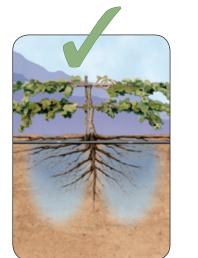
Measurement is the Key to Good, Effective Water Management

It is a fact that all crops are affected if irrigation is not consistent and accurate. The use of water meters ensures growers are able to measure and effectively manage the watering of their crops. Over and under irrigating affects your bottom line.

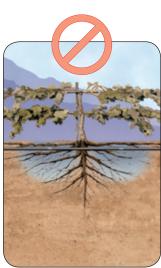
 Over Irrigating and Under Irrigating Result in Reduction of Crop Yield and Quality
Plants become stressed by both too much water or too little

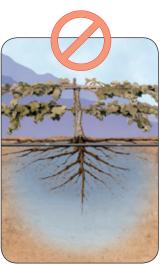
Plants become stressed by both too much water or too little water which affects crop yields and quality.

• Over Irrigating Results in Waste of Water, Energy and Fertilizers Energy and fertilizer costs increase with every gallon of wasted water.



Optimum Irrigation





Under Irrigating

Over Irrigating

Why Buy a Netafim USA Water Meter? Reliability With The Industry's Longest Warranty

Netafim stands behind our water meters with an unprecedented warranty - the industry's longest - three (3) years on the metering components (register and metering assembly) and five (5) years on the meter body. If your water meter encounters a problem, you can be confident that it will be replaced, in the field, with a factory calibrated metering component with minimal interruption to your irrigation schedule.

All meters are individually tested, calibrated and inspected to ensure they meet the highest quality standards and the testing documents are included with each meter. The performance and reliability of our meters provide a valuable tool for managing your system. **Brent Hoover** of Hoover Pumping Systems in Pompano Beach, FL, a supplier of prefabricated and sophisticated pumping systems says:

"We choose Netafim water meters and hydrometers for many of our basic pumping station designs. Netafim's proven reliability and accuracy keeps them on the top of our vendor list. We've had virtually no service calls for the past 9 years."



Three Components for Quick Maintenance

Netafim USA Water Meter Benefits

- Measuring your irrigation water with a water meter is a more accurate way to deliver water to a crop.
- Monitors system performance and records total water applied.
- Ensures verification of water received versus water pumped or purchased.
- Provides accurate water measurement if required by a private or governmental agency.



Application and Installation Considerations

Determining the appropriate water meter for your application involves several requirements: Water Quality; Flow Range and Straight Pipe Installation Requirement. The following information will help with the selection of the right water meter for your site requirements.

Water Quality

The quality of irrigation water is an important consideration when choosing the right water meter for your system. Netafim has a full line of water meters for accurate measuring in good or poor water conditions.

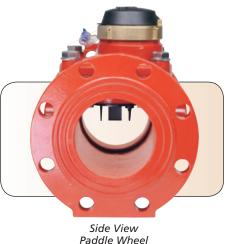
Good Water Conditions

- Water with minimal organic materials
- Well water with minimal sand

A water meter with a full diameter impeller is recommended for good water conditions. The impeller encompasses the full diameter of the inside water meter passage and provides a higher degree of accuracy from very low flows to maximum flows. Positioning the impeller directly in the flow path assures full flow measurement.







Poor Water Conditions

Water with moderate organic materials

Front View

• Well water with sand

A water meter with a paddle wheel is recommended for poor water conditions. The water is metered with a paddle wheel located at the top of the water passage. This provides a free water passage eliminating clogging from debris. Paddle wheel water meters can also be used in good water conditions.

Flow Range

Water meter functionality and accuracy is dependent on minimum and maximum flow ranges. Netafim water meters accurately measure water from a minimum of 0.9 GPM up to a maximum of 5,500 GPM. Specific flow ranges for each size and model are listed in the Selection Guideline charts on page 8.

Straight Pipe Installation Requirement

When water flows through a pipe, any transition through a fitting, elbow, or change in pipe size causes turbulence in the water. In order to eliminate water turbulence, some water meters require straight pipe before and after the water meter. Straight pipe installation refers to the length of straight pipe needed before (upstream of the water meter) and after (downstream of the water meter).

Meters with built-in straightening vanes (WST Water Meters) are used to reduce the minimum straight pipe

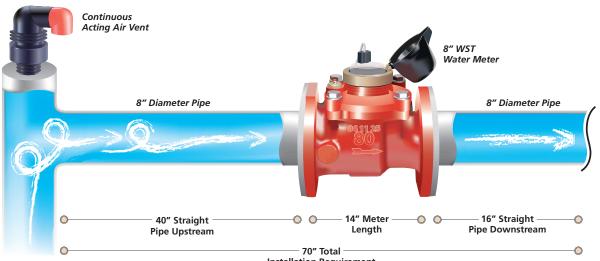
requirements. WST Water Meters require 5 x diameter before and 2 x diameter after the meter. Meters without straightening vanes (WMR, WT, and IRT Water Meters) require 10 x diameter before and 5 x diameter after the meter. **(Diameter = Meter Size)**

Continuous Acting Air Vents are used to remove air from the system for accurate metering. Proper air vent selection and placement within the system is critical - refer to the Netafim USA Air Vent Selection Guide for more information.

| Configuring S | Straight Pipe Installation Requirement Example: |
|---------------|---|
| Water Meter: | 8″ WST |
| Upstream: | 5 x 8" diameter meter = 40" (5 x D) 40" of straight pipe required upstream of the water meter |
| Downstream: | $2 \times 8^{"}$ diameter meter = $16^{"}$ (2 x D) 16" of straight pipe required downstream of the water meter |

Meter Length: 14"

Total: 70" total installation requirement



Selection Guidelines

Poor Water Quality

Straight Pipe Installation Requirement - 10 x D and 5 x D

| Minimum Flow Rate (± 2% Accuracy) | Maximum Flow Rate (± 2% Accuracy) | Straight Pipe Installation 10 x D & 5 x D (Upstream + Downstream + Meter Length) | Model | Size | Product Information |
|---|---|--|-------|------|------------------------|
| 45 GPM | 500 GPM | 54″ Total | | 3″ | |
| 50 GPM | 688 GPM | 70″ Total | IRT | 4″ | |
| 65 GPM | 1,375 GPM | 102" Total | | 6″ | Page 20 |
| 130 GPM | 2,475 GPM | 134" Total | | 8″ | |
| 300 GPM | 4,125 GPM | 166" Total | | 10″ | |

Good Water Quality Straight Pipe Installation Requirement - 10 x D and 5 x D

| Minimum Flow Rate (± 2% Accuracy) | Maximum Flow Rate (± 2% Accuracy) | Straight Pipe Installation 10 x D & 5 x D (Upstream + Downstream + Meter Length) | Model | Size | Product Information |
|---|---|--|-------|------|------------------------|
| 8.8 GPM | 110 GPM | 44″ Total | WMR | 2″ | Page 14 |
| 45 GPM | 500 GPM | 54" Total | | 3″ | |
| 50 GPM | 688 GPM | 70″ Total | IRT | 4″ | |
| 65 GPM | 1,375 GPM | 102" Total | | 6″ | Page 20 |
| 130 GPM | 2,475 GPM | 134" Total | | 8″ | |
| 300 GPM | 4,125 GPM | 166" Total | | 10″ | |
| 44 GPM | 4,125 GPM | 168" Total | WT | 10″ | Dage 16 |
| 51 GPM | 5,500 GPM | 200" Total | | 12″ | Page 16 |

Good Water Quality

Straight Pipe Installation Requirement - 5 x D and 2 x D

| Minimum Flow Rate (± 2% Accuracy) | Maximum Flow Rate (± 2% Accuracy) | Straight Pipe Installation 5 x D & 2 x D (Upstream + Downstream + Meter Length) | Model | Size | Product Information |
|---|---|---|-------|------|------------------------|
| 4.0 GPM | 660 GPM | 30″ Total | WST | 3″ | |
| 8.0 GPM | 1,266 GPM | 38" Total | | 4″ | Page 16 |
| 15 GPM | 1,431 GPM | 54" Total | | 6″ | rage to |
| 38 GPM | 2,475 GPM | 70″ Total | | 8″ | |

Good Water Quality

Straight Pipe Installation Requirement - 0 x D and 0 x D

| Minimum Flow Rate (± 2% Accuracy) | Maximum Flow Rate (± 2% Accuracy) | Straight Pipe Installation 0 x D & 0 x D (Upstream + Downstream + Meter Length) | Model | Size | Product Information |
|---|---|---|------------|--------------------|------------------------|
| 0.9 GPM | 14 GPM | 11 ¹ /4" Total | | ³ /4″ | |
| 1.2 GPM | 20 GPM | 14 ³ /4" Total | м | 1″ | Page 12 |
| 3.5 GPM | 55 GPM | 17 ¹ /4" Total | | 1 ¹ /2″ | |
| 0.3 GPM | 2.2 GPM | 4 ³ /8″ Total | Fertilizer | 3/4″ | Page 23 |
| 1.8 GPM | 44 GPM | 6" Total | rertilizer | 1″ | Page 25 |



Water Meter Registers

Netafim registers are simple to read and operate while providing reliable and accurate readings. Features include:

- Hermetically sealed guaranteed not to accumulate moisture or fog
- Mounted in a dry compartment no contact with the water
- Instantaneous readings easy to read
- Electrical output driven by a magnetic coupling that activates a reed switch creating a pulsed output for communicating with control and monitoring equipment
- Interchangeable and easily replaced only need common tools
- Removable even when the meter is operating

STANDARD REGISTER -

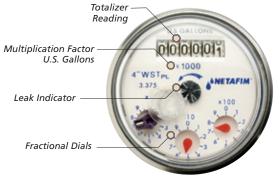
Gallon or Acre Feet Totalizer

The standard register includes pulsed output for communicating with control and monitoring equipment. A leak indicator located in the center of the dial registers the lowest flow through the meter. If services are shut off and the dial continues to rotate, there may be a leak in the system network.

Flows are totalled in U.S. Gallons and each dial face indicates the multiplication factor (located directly under the totalizer reading) or flows are totalled in Acre Feet with the decimal point indicated in blue on the register. Three small fractional dials measure quantities smaller than the totalizer reading.

Electrical Specifications:

Maximum Contact Current: 50 mA Maximum Contact Voltage: 48 VDC







PULSE OUTPUT - With Pulse Reed Switch

The Pulse Reed Switch is activated by a magnet installed on a fractional dial. The reed switch acts as a "dry contact" and consumes very little power. The Reed Switch sensor is installed in the transparent plastic cover over the register and can be mounted in any of three positions facing the pointer with the magnet.

REGISTERS ARE EASY TO INSTALL AND REMOVE

Step 1: Loosen and unscrew the brass closing ring and cap assembly that secures the register.





Step 2: Lift off the brass closing ring and cap assembly. Lift out the register from it's sealed compartment.



Acre Feet Totalizer





PHOTO DIODE REGISTER -Gallon Totalizer

A sensor combines an IR light source and a light sensitive diode in one package. Signals are created when the light beam created by the IR light is interrupted by a rotating element. Includes pulse output (open collector) for communicating with control and monitoring equipment. This register requires a constant supply of DC power. Flows are totalled in U.S. Gallons based on the multiplication factors indicated on the dial face.

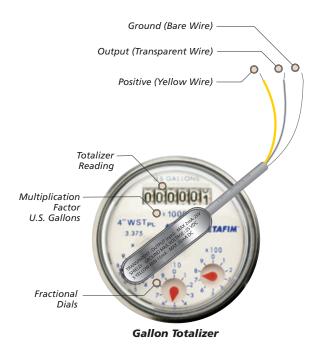
Electrical Specifications:

Positive (Yellow Wire): 20-30 mA through a resistor Output (Transparent Wire): Open collector, max. load 2 mA Ground (Bare Wire)

Note:

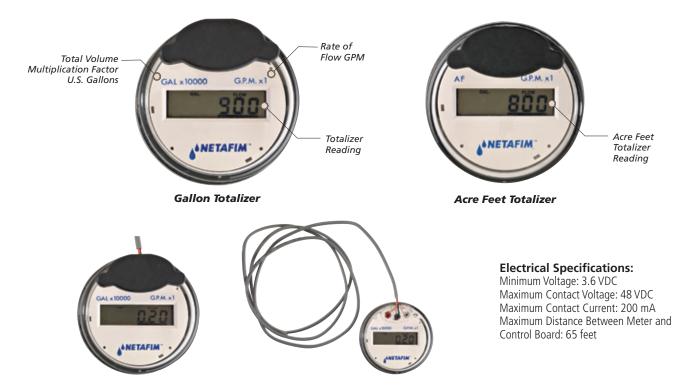
Correct polarity of the leads should be checked carefully to prevent damage of the sensor.

| | | | Recommended Resistor Values | | | |
|---|---------|----------------------------|--------------------------------|------|--|--|
| | | Resistor ValueResistor VΩW | | | | |
| ſ | | 5 | 180 | 0.25 | | |
| | Voltage | 6 | 220 | 0.25 | | |
| | | 9 | 330 | 0.25 | | |
| | ž | 12 | 470 | 0.5 | | |
| | | 24 | 1,000 | 1 | | |



MULTI-PURPOSE ELECTRONIC (MPE) DIGITAL REGISTER -GPM Rate of Flow with Gallon or Acre Feet Totalizer

Combines electronic register features with dry pulse output capabilities. Operated by an internal lithium battery with a 10 year life and mounted inside a stainless steel glass encapsulated cup. Register data is stored on an internal chip and retrievable if the register is damaged. The register's LCD screen clearly displays the Rate of Flow in Gallons per Minute (GPM) and Total Volume in U.S. Gallons (U.S.G.) or Acre Feet.



Reading a Water Meter Register

STANDARD REGISTER

Total Flow is calculated by adding the readings from the Totalizer and the three fractional dials. The three fractional dials measure guantities smaller than the totalizer reading and are continuously turning while calculating the flow.

Totalizer Reading

Rotates sequentially for each 1000 U.S.G. (U.S. Gallons) calculated Number displayed is multiplied by 1000 to reach total U.S.G.

Fractional Dial #1

Each number (1-9) on the dial is multiplied by 100 to reach U.S.G. One complete revolution on this dial = 1000 U.S.G.

Fractional Dial #2

Each number (1-9) on the dial is multiplied by 10 to reach U.S.G. One complete revolution on this dial = 100 U.S.G.

Fractional Dial #3

Each number (1-9) on the dial is multiplied by 1 to reach U.S.G. One complete revolution on this dial = 10 U.S.G.





LCD screen displays 6 digits and alternates every 10 seconds between Rate of Flow and Total Volume as a whole number and a fractional number in U.S. Gallons or Acre Feet.

FLOW and GAL

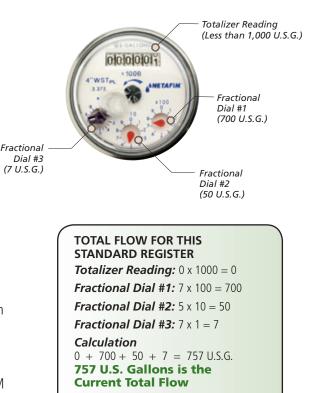
When both are visible on the display, reading for Rate of Flow in GPM

GAL (Gallon Totalizer)

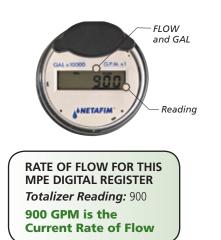
When visible on the display, whole number reading for a portion of the total volume in U.S.G.

Fr

When visible on the display and the numbers are underlined in red, fractional number reading for a portion of the Total Volume in U.S.G. or Acre Feet



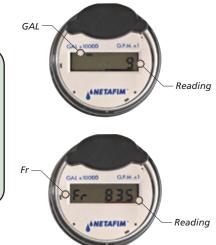
NOTE: If the Totalizer Reading is between numbers (a number is partially visible), always default to the lower of the two numbers when calculating flow. If a Fractional Dial is pointing between numbers, always default to the lower of the two numbers.





Calculation GAL + Decimal Point + Fr = 9.8359.835 x 10,000 = 98,350

98,350 U.S. Gallons is the **Current Total Volume**



'M' Water Meters Industry's Smallest Water Meters

Netafim USA's M water meters are the industry's smallest multi-jet water meters. These meters offer the best cost and performance, long life flow measurement instruments. The multi-jet principle assures an equally distributed load on the impeller minimizing wear and maintaining accuracy. Wide clearances in the measuring chamber and negligible area of contact between static and moving parts are the main reasons for the high reliability of this design even in hard water.



Features

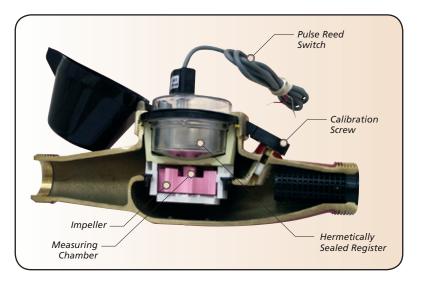
- Only one moving part the impeller in contact with the water for minimum wear and utmost reliability.
- Magnetically driven sealed registers are stainless steel/glass encapsulated and guaranteed against fogging due to moisture.
- No additional upstream and downstream straight length of pipe required for installation.
- Very accurate over a wide range of flows.

Available Sizes

• ¾", 1" and 1 ½"

Specifications

| Maximum Working Pressure | 140 psi |
|-------------------------------|---------------------------------|
| Maximum Liquid Temperature | 122° F |
| Body Material | Corrosion Proof Copper Alloy |
| Connections | MPT |



Installation Requirements

- Dial face must be horizontal.
- There are no straight pipe installation requirements.
- Prior to installation of the meter, the pipeline should be thoroughly flushed.
- Meter must be installed so that the pipe will be full of water at all times during metering.
- Recommendation: Continuous Acting Air Vents of proper size and type be installed to eliminate air.

'M' Meters Straight Pipe Installation Requirement 0 x D and 0 x D

| Size | Upstream Distance | Downstream Distance | Meter Length | Total Requirement |
|------|----------------------|------------------------|-----------------|----------------------|
| 3⁄4″ | 0" | 0″ | 11 ¼" | 11 ¼″ |
| 1″ | 0" | 0″ | 14 ¾" | 14 ¾" |
| 1 ½″ | 0" | 0″ | 17 ¼" | 17 ¼″ |

'M' Water Meters

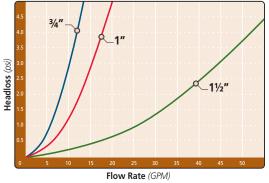
Registers

| Register Type | e — ► | Stan | MPE Digital | |
|-----------------------|-------------------|---------------|---------------|-------------------|
| Register Tota | lizer | Gallon | Gallon | Gallon |
| Meter Size | | 3/4″ | 3/4″ | 3/4", 1" & 1 1/2" |
| Volume Unit | | Gallon x 10 | Gallon x 100 | Gallon x 10 |
| Flow Rate Units | | - | - | GPM x 1.00 |
| Pulse Output | : (gallons/pulse) | 0.1 | 1.0 | 1.0 |
| ion | Pointer 1 | x 0.01 Gallon | x 0.10 Gallon | - |
| Pointer Resolution | Pointer 2 | x 0.1 Gallon | x 1.0 Gallon | - |
| Pc Res | Pointer 3 | x 1.0 Gallon | x 10 Gallon | - |

Performance Data

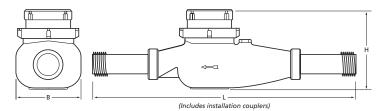
| | | Lowest Flow within ± 5% Accuracy | Lowest Flow within ± 2% Accuracy | Nominal Flow within ± 2% Accuracy | Maximum Flow within ± 2% Accuracy |
|------|------|--|--|---|---|
| | 3⁄4″ | 0.2 GPM | 0.9 GPM | 11 GPM | 14 GPM |
| Size | 1″ | 0.3 GPM | 1.2 GPM | 15.4 GPM | 20 GPM |
| | 1 ½″ | 0.9 GPM | 3.5 GPM | 44 GPM | 55 GPM |





Dimensions and Weight

| Size | H Height | L Length | B Width | Weight |
|--------|-------------|-------------|------------|----------|
| 3⁄4″ | 4 ¼" | 11 ¼″ | 3 ¾" | 4.4 lbs. |
| 1″ | 4 ¼" | 14 ¾″ | 4 ¼" | 6.1 lbs. |
| 1 1⁄2″ | 6 ¾" | 17 ¼″ | 15" | 15 lbs. |



| Size | Connection | Register Type | Gallons per Pulse | ltem Number | Model Number |
|------------------|------------|------------------------|----------------------|----------------|-----------------|
| ³ ⁄4″ | | | 0.1 | 70261-002445 | 36M201T.1 |
| 3⁄4″ | Union/Thrd | Standard/ Gallon | 1.0 | 70261-002450 | 36M201T |
| 1″ | | | 1.0 | 70261-002720 | 36M251T |
| 1 ½″ | | | 1.0 | 70261-003230 | 36M401.5T |
| 3⁄4″ | Union/Thrd | MPE Digital/ Gallon | 1.0 | - | 36M201T-MPE |
| 1″ | | | 1.0 | - | 36M251T-MPE |
| 1 ½″ | | | 1.0 | - | 36M401.5T-MPE |

'WMR' Water Meter

Industry's Smallest Water Meter

Netafim USA's WMR water meter is one of the industry's smallest water meters. The ample space around the core of the in-line helical axial turbine allows foreign matter to pass through the meter without clogging. This wide clearance produces full pipe flow measurements and is very accurate over a wide range of flows.

Features

- Magnetically driven sealed registers are stainless steel/glass encapsulated and guaranteed against fogging due to moisture.
- Minimum head loss.
- Very accurate over a wide range of flows.

Available Size

• 2″

Specifications

| Maximum Working Pressure | 230 psi |
|-------------------------------|-------------------------------------|
| Maximum Liquid Temperature | 131° F |
| Body Material | Cast Iron with Polyester Coating |
| Connections | MPT |

Installation Requirements

- Straight pipe installation requirement of 10 x diameter pipe upstream (before the meter) and 5 x diameter pipe downstream (after the meter).
- The meter may be installed in any position. For non-horizontal positions, the flow should be upwards.
- Prior to installation of the meter, the pipeline should be thoroughly flushed.
- Meter must be installed so that the pipe will be full of water at all times during metering.
- Recommendation: Continuous Acting Air Vents of proper size and type be installed to eliminate air.

'WMR' Meter

Straight Pipe Installation Requirement 10 x D and 5 x D

| Size | Upstream Distance | Downstream Distance | Meter Length | Total Requirement |
|------|----------------------|------------------------|-----------------|----------------------|
| 2″ | 20" | 10″ | 14" | 44" |



Tamper Proof Seal Ensures unauthorized removal and/or tampering of the water meter register.

'WMR' Water Meter

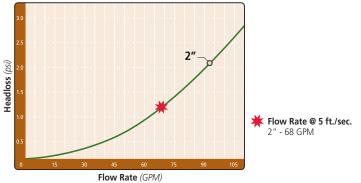
Registers

| Register Type ——► | | Standard | | | Photo Diode | MPE I | Digital |
|-----------------------|--------------------|--------------|----------------|-------------------|----------------|--------------|-------------------|
| Register Tota | Register Totalizer | | Gallon | Acre Feet | Gallon | Gallon | Acre Feet |
| Meter Size | | 2″ | 2″ | 2″ | 2″ | 2″ | 2″ |
| Volume Unit | | Gallon x 100 | Gallon x 1,000 | Acre Feet x 1.000 | Gallon x 1,000 | Gallon x 100 | Acre Feet x 1.000 |
| Flow Rate Ur | Flow Rate Units | | - | - | 0.055 | GPM x 1.00 | GPM x 1.00 |
| Pulse Output | (gallons/pulse) | 1.0 | 10 | 3.26 | - | 10 | 3.26 |
| ion | Pointer 1 | x .10 Gallon | x 1.0 Gallon | x 0.000001 | x 1.0 Gallon | - | - |
| Pointer Resolution | Pointer 2 | x 1.0 Gallon | x 10 Gallon | x 0.00001 | x 10 Gallon | _ | - |
| Pc Res | Pointer 3 | x 10 Gallon | x 100 Gallon | x 0.0001 | x 100 Gallon | _ | - |

Performance Data

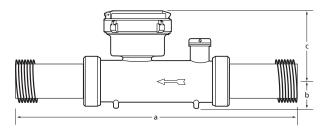
| | Lowest Flow | Lowest Flow | Nominal Flow | Maximum Flow |
|------|----------------------|----------------------|----------------------|----------------------|
| | within ± 5% Accuracy | within ± 2% Accuracy | within ± 2% Accuracy | within ± 2% Accuracy |
| "2 Z | 2.0 GPM | 8.8 GPM | 88 GPM | 110 GPM |

Headloss Chart



Dimensions and Weight

| Size | a Length | b Height | c Height | Weight |
|------|-------------|--------------------|--------------------|---------|
| 2″ | 14" | 1 ¹ /2″ | 3 ¹ /4" | 11 lbs. |



| Size | Connection | Register Type | Gallons per Pulse | ltem Number | Model Number |
|------|---------------|-----------------------|----------------------|----------------|------------------|
| | 2″ Union/Thrd | Standard/Gallon | 1.0 | 70261-005050 | 36WMR2T1 |
| | | Standard/Gallon | 10 | 70261-005060 | 36WMR2T10 |
| 2" | | Standard/Acre Feet | 3.26 | 70261-004900 | 36WMR2T10-AF |
| 2 | | Photo Diode | 0.055 | 70261-005010 | 36WMR2T055 |
| | | MPE Digital/Gallon | 10 | 70261-004990 | 36WMR2T10-MPE |
| L | | MPE Digital/Acre Feet | 3.26 | - | 36WMR2T10-MPE-AF |

'WST' and 'WT' Water Meters *More Accurate Over a Wide Range of Flows*

Netafim USA's WST and WT water meters use a double magnetic transmission to drive the register. This unique design enables the meter to handle high loads of sand since only the impeller is in contact with the water. Transmission gears are located in a sealed, dry compartment which has no contact with the water. The impeller, located in the center of the flow, allows for very accurate measurements over a wide range of flows. Built-in straightening vanes in the WST meters reduce the length of straight pipe required before and after the meter.

Features

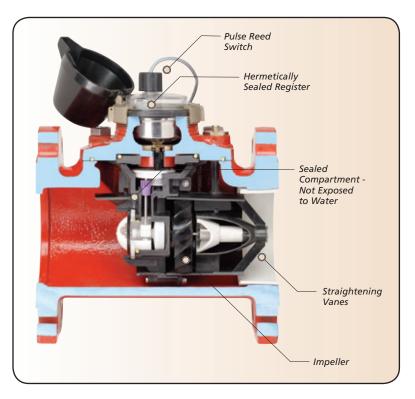
- Repelling magnetics enable accurate measurements across a wide range of flow rates including very low flows.
- Balanced impeller with equal load on the front and rear gears prevents wear of the bearings and maintains high accuracy of the meter even after long years of operation.
- Registers are stainless steel/glass encapsulated and guaranteed against fogging due to moisture.
- Built-in straightening vane reduces installation requirements (WST meters).
- Wide selection of sealed, magnetically coupled registers, standard with three fractional dials and pulse output. Digital registers are also available.

Available Sizes

- WST 3", 4", 6" and 8"
- WT 10" and 12"

Specifications

| Maximum Working Pressure | 230 psi |
|-------------------------------|-------------------------------------|
| Maximum Liquid Temperature | 140° F |
| Body Material | Cast Iron with Polyester Coating |
| Connections | Flanged |





'WST' and 'WT' Water Meters

Installation Requirements

- Straight pipe installation requirement for WST meters: 5 x diameter pipe upstream (before the meter) and 2 x diameter pipe downstream (after the meter).
- Straight pipe installation requirement for WT meters: 10 x diameter pipe upstream (before the meter) and 5 x diameter pipe downstream (after the meter).
- The meter may be installed in any position. For non-horizontal positions, the flow should be upwards.
- Prior to installation of the meter, the pipeline should be thoroughly flushed.
- Meter must be installed so that the pipe will be full of water at all times during metering.
- Recommendation: Continuous Acting Air Vents of proper size and type be installed to eliminate air.

'WST' Meters

Straight Pipe Installation Requirement 5 x D and 2 x D

| Size | Upstream Distance | Downstream Distance | Meter Length | Total Requirement |
|------|----------------------|------------------------|-----------------|----------------------|
| 3″ | 15" | 6″ | 9" | 30" |
| 4″ | 20" | 8″ | 10" | 38" |
| 6″ | 30" | 12″ | 12" | 54″ |
| 8″ | 40" | 16″ | 14" | 70″ |

'WT' Meters

Straight Pipe Installation Requirement 10 x D and 5 x D

| Size | Upstream Distance | Downstream Distance | Meter Length | Total Requirement |
|------|----------------------|------------------------|-----------------|----------------------|
| 10″ | 100" | 50″ | 18" | 168″ |
| 12″ | 120" | 60″ | 20" | 200" |

Registers

| Register Type | e ——► | Standard | | | | | | |
|-----------------------|------------------------------|----------------|------------------|-----------------|------------------|-----------------|-----------------|--|
| Register Totalizer | | Gallon | Acre Feet | Gallon | Acre Feet | Gallon | Acre Feet | |
| Meter Size | | 3" & 4" | 3" & 4" | 6" & 8" | 6" & 8" | 10" & 12" | 10" & 12" | |
| Volume Unit | | Gallon x 1,000 | Acre Feet x 1.00 | Gallon x 10,000 | Acre Feet x 1.00 | Gallon x 10,000 | Acre Feet x 1.0 | |
| Pulse Output | Pulse Output (gallons/pulse) | | 32.6 | 100 | 32.6 | 100 | 325.9 | |
| er ion | Pointer 1 | x 1.0 Gallon | x 0.00001 | x 10 Gallon | x 0.00001 | x 10 Gallon | x 0.0001 | |
| Pointer Resolution | Pointer 2 | x 10 Gallon | x 0.0001 | x 100 Gallon | x 0.0001 | x 100 Gallon | x 0.001 | |
| | Pointer 3 | x 100 Gallon | x 0.001 | x 1,000 Gallon | x 0.001 | x 1,000 Gallon | x 0.01 | |

| Register Type | e ——► | Photo Diode | | | | | | |
|------------------------------|-----------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|--|
| Register Totalizer | | Gallon | Gallon | Gallon | Gallon | Gallon | Gallon | |
| Meter Size | | 3″ | 4" | 6″ | 8" | 10″ | 12" | |
| Volume Unit | | Gallon x 1,000 | Gallon x 1,000 | Gallon x 10,000 | Gallon x 10,000 | Gallon x 10,000 | Gallon x 10,000 | |
| Pulse Output (gallons/pulse) | | 0.1172 | 0.1097 | 0.2027 | 0.378 | 4.5057 | 6.73 | |
| ion | Pointer 1 | x 1.0 Gallon | x 1.0 Gallon | x 10 Gallon | x 10 Gallon | x 10 Gallon | x 10 Gallon | |
| Pointer Resolution | Pointer 2 | x 10 Gallon | x 10 Gallon | x 100 Gallon | x 100 Gallon | x 100 Gallon | x 100 Gallon | |
| | Pointer 3 | x 100 Gallon | x 100 Gallon | x 1,000 Gallon | x 1,000 Gallon | x 1,000 Gallon | x 1,000 Gallon | |



'WST' and 'WT' Water Meters

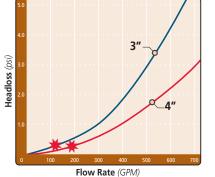
Registers

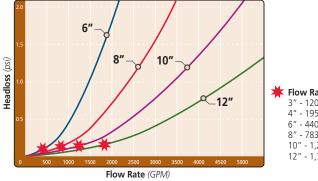
| Register Type ——► | | MPE Digital | | | | |
|------------------------------|--------------|-------------------|-----------------|-------------------|-----------------|-------------------|
| Register Totalizer | Gallon | Acre Feet | Gallon | Acre Feet | Gallon | Acre Feet |
| Meter Size | 3" & 4" | 3" & 4" | 6" & 8" | 6" & 8" | 10" & 12" | 10" & 12" |
| Volume Unit | Gallon x 100 | Acre Feet x 1.000 | Gallon x 1,000 | Acre Feet x 1.000 | Gallon x 10,000 | Acre Feet x 1.000 |
| Flow Rate Units | GPM x 1.00 | GPM x 1.00 | (6") GPM x 1.00 | (6") GPM x 1.00 | GPM x 1 | GPM x 1 |
| FIOW Rate Offics | | | (8") GPM x 1 | (8") GPM x 1 | | |
| Pulse Output (gallons/pulse) | 10 | 32.6 | 100 | 32.6 | 100 | 325.9 |

Performance Data

| | | Lowest Flow within ± 5% Accuracy | Lowest Flow within ± 2% Accuracy | Nominal Flow within ± 2% Accuracy | Maximum Flow within ± 2% Accuracy |
|------|-----|--|--|---|--------------------------------------|
| | 3″ | 2 GPM | 4 GPM | 528 GPM | 660 GPM |
| | 4″ | 4 GPM | 6 GPM | 1,013 GPM | 1,266 GPM |
| Size | 6″ | 11 GPM | 15 GPM | 1,145 GPM | 1,431 GPM |
| Si | 8″ | 22 GPM | 38 GPM | 1,980 GPM | 2,475 GPM |
| | 10″ | 44 GPM | 44 GPM | 3,300 GPM | 4,125 GPM |
| | 12″ | 51 GPM | 51 GPM | 4,400 GPM | 5,500 GPM |

Headloss Charts

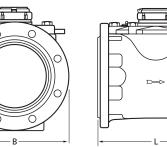


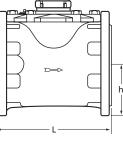


Flow Rate @ 5 ft./sec. 3" - 120 GPM 4" - 195 GPM 6" - 440 GPM 8" - 783 GPM 10" - 1,223 GPM 12" - 1,762 GPM

Dimensions and Weight

| Size | L Length | B Width | H Height | h Height | Weight |
|------|-------------|------------|-------------|-------------|----------|
| 3″ | 9" | 7 ¾″ | 9 ¼" | 3 1⁄2" | 34 lbs. |
| 4″ | 9 ¾" | 7 ¾″ | 9 ¾" | 4 ¼" | 42 lbs. |
| 6″ | 11 ¾" | 11 ¼″ | 12 ¼" | 5" | 77 lbs. |
| 8″ | 13 ¾" | 13 ¼″ | 13 ¼" | 6 ¼" | 103 lbs. |
| 10″ | 17 ¾" | 16″ | 17 ¼" | 10 ¼" | 165 lbs. |
| 12″ | 19 ¾" | 18 ¼″ | 18 ¼" | 13" | 209 lbs. |





н

'WST' and 'WT' Water Meters

| Size | Connection | Register Type | Gallons per Pulse | ltem Number | Model Number |
|------|------------|-----------------------|----------------------|----------------|-----------------|
| | | Standard/Gallon | 10 | 70261-010220 | 36WST3F |
| | | Standard/Acre Feet | 32.6 | 70261-010230 | 36WST3F-AF |
| 3″ | Flanged | Photo Diode | 0.1172 | 70261-010225 | 36WST3F-1172 |
| | | MPE Digital/Gallon | 10 | - | 36WST3F-MPE |
| | | MPE Digital/Acre Feet | 32.6 | - | 36WST3F-MPE-AF |
| | | Standard/Gallon | 10 | 70261-010360 | 36WST4F |
| | | Standard/Acre Feet | 32.6 | 70261-010370 | 36WST4F-AF |
| 4″ | Flanged | Photo Diode | 0.1097 | 70261-010380 | 36WST4F-1097 |
| | | MPE Digital/Gallon | 10 | - | 36WST4F-MPE |
| | | MPE Digital/Acre Feet | 32.6 | - | 36WST4F-MPE-AF |
| | | Standard/Gallon | 100 | 70261-010460 | 36WST6F |
| | | Standard/Acre Feet | 32.6 | 70261-010450 | 36WST6F-AF |
| 6″ | Flanged | Photo Diode | 0.2027 | 70261-010462 | 36WST6F-2027 |
| | | MPE Digital/Gallon | 100 | 70261-010463 | 36WST6F-MPE100 |
| | | MPE Digital/Acre Feet | 32.6 | - | 36WST6F-MPE-AF |
| | | Standard/Gallon | 100 | 70261-010600 | 36WST8F |
| | | Standard/Acre Feet | 32.6 | 70261-010605 | 36WST8F-AF |
| 8″ | Flanged | Photo Diode | 0.378 | 70261-010601 | 36WST8F378 |
| | | MPE Digital/Gallon | 100 | - | 36WST8F-MPE |
| | | MPE Digital/Acre Feet | 32.6 | - | 36WST8F-MPE-AF |
| | | Standard/Gallon | 100 | 70261-010720 | 36WT10F |
| | | Standard/Acre Feet | 325.9 | 70261-010670 | 36WT10F-AF |
| 10″ | Flanged | Photo Diode | 4.5057 | - | 36WT10F-4.5057 |
| | | MPE Digital/Gallon | 100 | 70261-010690 | 36WT10F-MPE |
| | | MPE Digital/Acre Feet | 325.9 | - | 36WT10F-MPE-AF |
| | | Standard/Gallon | 100 | 70261-010800 | 36WT12F |
| | | Standard/Acre Feet | 325.9 | 70261-007270 | 36WT12F-AF |
| 12″ | Flanged | Photo Diode | 6.73 | - | 36WT12F-6.73 |
| | | MPE Digital/Gallon | 100 | 70261-010790 | 36WT12F-MPE |
| | | MPE Digital/Acre Feet | 325.9 | - | 36WT12F-MPE-AF |



'IRT' Water Meters *Ideal for Moderate to Dirty Water Conditions*

Netafim USA's IRT water meters, with a specially designed paddle wheel measuring device, provide a free water passage resulting in low head loss and the ability to accurately measure water with high levels of impurities or debris. Accuracy is achieved over a wide range of flows.

Features

- Negligible head loss.
- Simple maintenance field replaceable calibrated measuring unit.
- Registers are stainless steel/glass encapsulated and guaranteed against fogging due to moisture.
- Bearings are constantly flushed during operation to eliminate deposits of solids.
- Wide selection of sealed, magnetically coupled registers, standard with three fractional dials and pulse output. Digital registers are also available.
- Electrical output is included with standard registers.

Available Size

• 3", 4", 6", 8" and 10"

Specifications

| Maximum Working Pressure | 230 psi | |
|-------------------------------|-------------------------------------|--|
| Maximum Liquid Temperature | 140° F | |
| Body Material | Cast Iron with Polyester Coating | |
| Connections | Flanged | |





Installation Requirements

- Straight pipe installation requirement: 10 x diameter pipe upstream (before the meter) and 5 x diameter pipe downstream (after the meter).
- The meter may be installed in any position. For non-horizontal positions, the flow should be upwards.
- Prior to installation of the meter, the pipeline should be thoroughly flushed.
- Meter must be installed so that the pipe will be full of water at all times during metering.
- Recommendation: Continuous Acting Air Vents of proper size and type be installed to eliminate air.

'IRT' Meters Straight Pipe Installation Requirement 10 x D and 5 x D

| Size | Upstream Distance | Downstream Distance | Meter Length | Total Requirement |
|------|----------------------|------------------------|-----------------|----------------------|
| 3″ | 30" | 15″ | 9" | 54″ |
| 4″ | 40" | 20″ | 10" | 70" |
| 6″ | 60" | 30″ | 12" | 102″ |
| 8″ | 80" | 40″ | 14" | 134″ |
| 10″ | 100" | 50″ | 16" | 166″ |

'IRT' Water Meters

Registers

| Register Type | e — ► | Standard | | | | | |
|------------------------------|-----------|----------------|------------------|-----------------|------------------|-----------------|-----------------|
| Register Totalizer | | Gallon | Acre Feet | Gallon | Acre Feet | Gallon | Acre Feet |
| Meter Size | | 3" & 4" | 3" & 4" | 6" & 8" | 6" & 8" | 10″ | 10" |
| Volume Unit | | Gallon x 1,000 | Acre Feet x 1.00 | Gallon x 10,000 | Acre Feet x 1.00 | Gallon x 10,000 | Acre Feet x 1.0 |
| Pulse Output (gallons/pulse) | | 10 | 32.6 | 100 | 32.6 | 100 | 325.9 |
| er ion | Pointer 1 | x 1.0 Gallon | x 0.00001 | x 10 Gallon | x 0.00001 | x 10 Gallon | x 0.0001 |
| Pointer Resolution | Pointer 2 | x 10 Gallon | x 0.0001 | x 100 Gallon | x 0.0001 | x 100 Gallon | x 0.001 |
| | Pointer 3 | x 100 Gallon | x 0.001 | x 1,000 Gallon | x 0.001 | x 1,000 Gallon | x 0.01 |

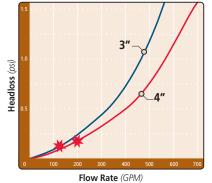
| Register Type | e — ► | Photo Diode | | |
|-----------------------|------------------------------|----------------|----------------|--|
| Register Totalizer | | Gallon | Gallon | |
| Meter Size | | 3" & 4" | 6", 8" & 10" | |
| Volume Unit | | Gallon x 1,000 | Gallon x 1,000 | |
| Pulse Output | Pulse Output (gallons/pulse) | | 10 | |
| ion | Pointer 1 | x 1.0 Gallon | x 10 Gallon | |
| Pointer Resolution | Pointer 2 | x 10 Gallon | x 100 Gallon | |
| | Pointer 3 | x 100 Gallon | x 1,000 Gallon | |

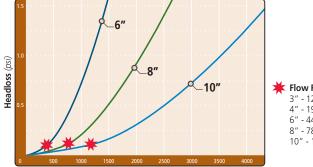
| Register Type —— | MPE Digital | | | | | |
|------------------------------|--------------|-------------------|-----------------|-------------------|-----------------|-------------------|
| Register Totalizer | Gallon | Acre Feet | Gallon | Acre Feet | Gallon | Acre Feet |
| Meter Size | 3" & 4" | 3" & 4" | 6" & 8" | 6" & 8" | 10″ | 10″ |
| Volume Unit | Gallon x 100 | Acre Feet x 1.000 | Gallon x 1,000 | Acre Feet x 1.000 | Gallon x 10,000 | Acre Feet x 1.000 |
| Flow Rate Units | GPM x 1.00 | GPM x 1.00 | (6") GPM x 1.00 | (6") GPM x 1.00 | GPM x 1 | GPM x 1 |
| | | | (8") GPM x 1 | (8") GPM x 1 | | |
| Pulse Output (gallons/pulse) | 10 | 32.6 | 100 | 32.6 | 100 | 325.9 |

Performance Data

| | | Lowest Flow within ± 5% Accuracy | Lowest Flow within ± 2% Accuracy | Nominal Flow within ± 2% Accuracy | Maximum Flow within ± 2% Accuracy |
|------|-----|--|--|---|--------------------------------------|
| | 3″ | 20 GPM | 45 GPM | 400 GPM | 500 GPM |
| | 4″ | 30 GPM | 50 GPM | 500 GPM | 688 GPM |
| Size | 6″ | 45 GPM | 65 GPM | 1,100 GPM | 1,375 GPM |
| | 8″ | 80 GPM | 130 GPM | 1,980 GPM | 2,475 GPM |
| | 10″ | 170 GPM | 300 GPM | 3,300 GPM | 4,125 GPM |







Flow Rate (GPM)

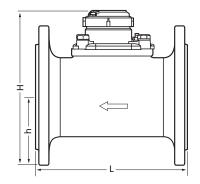
Flow Rate @ 5 ft./sec. 3" - 120 GPM 4" - 195 GPM 6" - 440 GPM 8" - 783 GPM 10" - 1,223 GPM



'IRT' Water Meters

Dimensions and Weight

| Size | L Length | H Height | h Height | Weight |
|------|-------------|-------------|-------------|----------|
| 3″ | 9" | 9 ½″ | 3 ½" | 40 lbs. |
| 4″ | 9 ¾" | 10 ¼″ | 4 ¼" | 50 lbs. |
| 6″ | 11 ¾" | 12 ¼″ | 5" | 73 lbs. |
| 8″ | 13 ¾" | 12 ½″ | 6 ¼" | 95 lbs. |
| 10″ | 15 ¾" | 13 ½″ | 7 ¾" | 125 lbs. |



| Size | Connection | Register Type | Gallons per Pulse | ltem Number | Model Number |
|------|------------|-----------------------|----------------------|----------------|-----------------|
| | | Standard/Gallon | 10 | 70261-009200 | 36IRT3F |
| | | Standard/Acre Feet | 32.6 | 70261-009100 | 36IRT3F-AF |
| 3″ | Flanged | Photo Diode | 1.0 | - | 36IRT3F-1.0 |
| | | MPE Digital/Gallon | 10 | 70261-009130 | 36IRT3F-MPE |
| | | MPE Digital/Acre Feet | 32.6 | - | 36IRT3F-MPE-AF |
| | | Standard/Gallon | 10 | 70261-009500 | 36IRT4F |
| | | Standard/Acre Feet | 32.6 | 70261-009340 | 36IRT4F-AF |
| 4″ | Flanged | Photo Diode | 1.0 | - | 36IRT4F-1.0 |
| | | MPE Digital/Gallon | 10 | 70261-009430 | 36IRT4F-MPE |
| | | MPE Digital/Acre Feet | 32.6 | - | 36IRT4F-MPE-AF |
| | | Standard/Gallon | 100 | 70261-009740 | 36IRT6F |
| | | Standard/Acre Feet | 32.6 | - | 36IRT6F-AF |
| 6″ | Flanged | Photo Diode | 10 | - | 36IRT6F-10 |
| | | MPE Digital/Gallon | 100 | 70261-009710 | 36IRT6F-MPE |
| | | MPE Digital/Acre Feet | 32.6 | - | 36IRT6F-MPE-AF |
| | | Standard/Gallon | 100 | 70261-009920 | 36IRT8F |
| | | Standard/Acre Feet | 32.6 | 70261-009850 | 36IRT8F-AF |
| 8″ | Flanged | Photo Diode | 10 | - | 36IRT8F-10 |
| | | MPE Digital/Gallon | 100 | 70261-009890 | 36IRT8F-MPE |
| | | MPE Digital/Acre Feet | 32.6 | - | 36IRT8F-MPE-AF |
| | | Standard/Gallon | 100 | 70261-010000 | 36IRT10F |
| | | Standard/Acre Feet | 325.9 | 70261-008730 | 36IRT10F-AF |
| 10″ | Flanged | Photo Diode | 10 | - | 36IRT10F-10 |
| | | MPE Digital/Gallon | 100 | 70261-008770 | 36IRT10F-MPE |
| | | MPE Digital/Acre Feet | 325.9 | - | 36IRT10F-MPE-AF |

Fertilizer Meter - Polypropylene Body Small and Light-Weight with High Accuracy

Netafim USA's polypropylene fertilizer meter is small, light-weight and delivers a high level of accuracy. It's a fertilizer and chemical solutions meter with electrical output and totalizing register. The impeller is the only moving part in contact with the liquid. It features a compact size, corrosion resistant plastic components and is ideal for fertilizer control in automated irrigation systems.

Features

- Magnetically driven sealed register.
- Only one moving part, the impeller, in contact with the liquid for minimum wear and utmost reliability.
- Dry contact electrical output 0.1 or 1.0 gallons/pulse.
- Corrosion resistant plastic components.
- Small and light-weight.
- Very accurate.

Available Size

• 3⁄4″

Installation Requirements

- Install in a horizontal position with dial face up.
- No straight pipe installation requirements.

Fertilizer Meter

Straight Pipe Installation Requirement 0 x D and 0 x D

| Size | Upstream | Downstream | Meter | Total |
|------|----------|------------|--------------------|--------------------|
| | Distance | Distance | Length | Requirement |
| 3⁄4″ | 0" | 0″ | 4 ³ /8" | 4 ³ /8" |

Registers

| Register Type | e ——► | Standard | | |
|-----------------------|------------------------------|---------------|---------------|--|
| Register Tota | Register Totalizer | | Gallon | |
| Meter Size | | 3/4″ | 3/4″ | |
| Volume Unit | | Gallon x 10 | Gallon x 10 | |
| Pulse Output | Pulse Output (gallons/pulse) | | 1.0 | |
| ion | Pointer 1 | x 0.01 Gallon | x 0.01 Gallon | |
| Pointer Resolution | Pointer 2 | x 0.1 Gallon | x 0.1 Gallon | |
| Pr Res | Pointer 3 | x 1.0 Gallon | x 1.0 Gallon | |

US GALLORS DIDIDIDIDIDIO 2124808 SF COMPARENT SF COMPAREN

Standard Register Gallon Totalizer



Specifications

| Maximum Working Pressure | 72.5 psi |
|-------------------------------|---------------|
| Maximum Liquid Temperature | 122° F |
| Body Material | Polypropylene |
| Connections | Threaded |

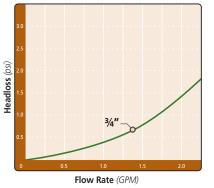


Fertilizer Meter - Polypropylene Body

Performance Data

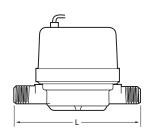
| | Lowest Flow | Lowest Flow | Nominal Flow | Maximum Flow |
|-----------|----------------------|----------------------|----------------------|----------------------|
| | within ± 5% Accuracy | within ± 2% Accuracy | within ± 2% Accuracy | within ± 2% Accuracy |
| Size 3/4" | 0.09 GPM | 0.3 GPM | 1.7 GPM | 2.2 GPM |

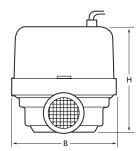
Headloss Chart



Dimensions and Weight

| Size | H Height | L Length | B Width | Weight |
|------|--------------------|--------------------|------------|---------|
| 3⁄4″ | 3 ¹ /8" | 4 ³ /8" | 3" | .6 lbs. |





| Size | Connection | Register Type | Gallons per Pulse | ltem Number | Model Number |
|------|--------------|------------------|----------------------|----------------|-----------------|
| 3/4" | 34" Threaded | Standard/ | 0.1 | 70261-011000 | 36FMPO.75 |
| /4 | | Gallon | 1.0 | 70261-011030 | 36FMPO.751 |

Fertilizer Meter - PVC Body

Accurate Measuring with Corrosion Resistant Impeller

Netafim USA's PVC fertilizer meter is an angle type multi-jet meter. The multi-jet design assures an equally distributed load on the impeller minimizing wear and maintaining accuracy. The corrosion resistant impeller is the only moving part in contact with the liquid.

Features

- Magnetically driven sealed register.
- Only one moving part the impeller in contact with the liquid for minimum wear and utmost reliability.
- Dry contact electrical output 1.0 gallons/pulse.
- Corrosion resistant impeller.

Available Size

• 1″

Installation Requirements

- Install with the dial face in a horizontal position.
- No straight pipe installation requirements.

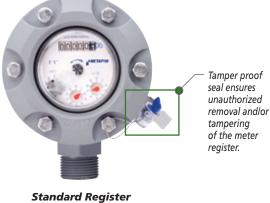
Fertilizer Meter

Straight Pipe Installation Requirement 0 x D and 0 x D

| Size | Upstream | Downstream | Meter | Total |
|------|----------|------------|--------|-------------|
| | Distance | Distance | Length | Requirement |
| 1″ | 0" | 0″ | 6" | 6" |

Registers

| e ——► | Standard | | | | |
|--------------------|--|--|--|--|--|
| Register Totalizer | | Gallon | | | |
| | 1″ | 1″ | | | |
| Volume Unit | | Gallon x 100 | | | |
| : (gallons/pulse) | 1.0 | 10 | | | |
| Pointer 1 | x 0.1 Gallon | x 0.1 Gallon | | | |
| Pointer 2 | x 1.0 Gallon | x 1.0 Gallon | | | |
| Pointer 3 | x 10 Gallon | x 10 Gallon | | | |
| | lizer (gallons/pulse) Pointer 1 Pointer 2 | Ilizer Gallon 1" Gallon x 100 (gallons/pulse) 1.0 Pointer 1 x 0.1 Gallon Pointer 2 x 1.0 Gallon | | | |



Gallon Totalizer

Specifications

| Maximum Working Pressure | 145 psi | |
|-------------------------------|----------|--|
| Maximum Liquid Temperature | 122° F | |
| Body Material | PVC | |
| Connections | Threaded | |



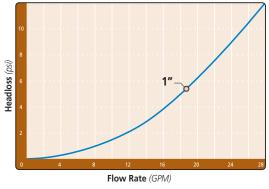


Fertilizer Meter - PVC Body

Performance Data

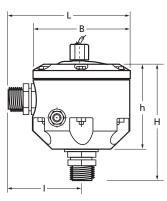
| | Lowest Flow | Lowest Flow | Nominal Flow | Maximum Flow |
|---------|----------------------|----------------------|----------------------|----------------------|
| | within ± 5% Accuracy | within ± 2% Accuracy | within ± 2% Accuracy | within ± 2% Accuracy |
| Size 1" | 0.44 GPM | 1.8 GPM | 22 GPM | 44 GPM |

Headloss Chart



Dimensions and Weight

| Size | H Height | h Height | L Length | l Length | B Width | Weight |
|------|-------------|-------------|-------------|-------------|------------|----------|
| 1″ | 6" | 4 ½" | 6" | 3 ½″ | 4 ¾" | 1.9 lbs. |



| | Size | Connection | Register Type | Gallons per Pulse | ltem Number | Model Number |
|---|------|------------|------------------|----------------------|----------------|-----------------|
| ſ | 1″ | Threaded | Standard/Gallon | 1.0 | 70261-011300 | 36FMPVE1 |



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