



ZENNER PERFORMANCE Multi-Jet Type Magnetic Drive Cold Water Meters NITRO I

5/8" (DN 15mm)

3/4" (DN 20mm)

1" (DN 25mm)

U.S.A. Patent No. US 6345541 B1



10 year warranty included

California Weights and Measures Approved CTEP 5703-13

INTRODUCTION: ZENNER PERFORMANCE Nitro I Water Meters utilize a magnetically driven multi-jet design. They are designed to measure cold potable water where flow is in one direction only in residential, commercial, and industrial settings.

OPERATION: Water flows through the meter's strainer and into the measuring chamber where it drives the impeller. A drive magnet transmits the motion of the impeller to a driven magnet located within the hermetically sealed register. Powerful rare earth magnets eliminate slipping and uncoupling to increase overall accuracy. The magnet is connected to a gear train which translates the impeller's rotation into volume totalization displayed on the register dial face.

CONSTRUCTION: ZENNER PERFORMANCE Nitro I Water Meters consist of three basic components: main case, measuring chamber and sealed register. The main cases are constructed using either C89833 or C89850 Brass Alloys. Measuring Chambers are constructed of a durable synthetic polymer. Registers are available as either direct read or electronic output.

MAINTENANCE: ZENNER PERFORMANCE Nitro I Water Meters are engineered and manufactured to provide long-term service and operate virtually maintenance free. The precise simple design allows for interchangeable parts, reducing parts inventory.

REGISTRATION: ZENNER PERFORMANCE Nitro I Water Meters utilize a magnetically driven, hermetically sealed design. The sealed design eliminates dirt, moisture infiltration, and prevents fogging. The register includes a large odometer-type totalization display, center sweep hand (360°) test circle, low flow leak detector. All ZENNER PERFORMANCE Meters have electronic output capabilities for easy conversion to Automated Meter Reading. 5/8" through 1" capacities are: 10,000,000 Gallons, 1,000,000 Cubic Feet, 100,000 Cubic Meters, 6 odometer wheels.

CONFORMANCE: ZENNER PERFORMANCE Nitro I Water Meters are tested and comply with AWWA C708, ISO 4064, and G13IT19001-ISO9000 performance standards.

TAMPERPROOF FEATURES: Customer removal of the register to obtain free water is prevented through the use of a locking device that requires a special tool, only available to water utilities.

CONNECTIONS: These meters have been designed with ease of installation in mind through the use of wrench pads. Tailpiece/Unions for installations of meters are available as an option for various pipe types, sizes, and misaligned pipes.

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Performance Meters

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MODEL		PMN01	PMN02	PMN03	PMN04	PMN05	PMN07
SIZE		5/8 x 1/2	5/8 x 3/4	3/4" Short	3/4" x 3/4"	3/4" x 1"	1"
High Flow Rate	USGPM	20	20	30	30	30	50
Continuous Flow	USGPM	10	10	15	15	15	25
Starting Flow	USGPM	3/64	3/64	5/64	5/64	5/64	5/64
Normal Flow	USGPM	1 - 20	1 - 20	2 - 30	2 - 30	2 - 30	3 - 50
Low Flow	USGPM	1/4	1/4	1/2	1/2	1/2	3/4
Extreme High Flow (Intermittent)	USGPM	25	28	32	32	32	60
Maximum Working Pressure	P.S.I.	150	150	150	150	150	150
Maximum Temperature	Deg. F	122	122	122	122	122	122
Length	Inches	7 1/2	7 1/2	7 1/2	9	9	10 3/4
Length with Couplings	Inches	12 1/2	12 1/2	12 1/2	14 1/2	14 1/2	16 1/2
Height	Inches	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	5
Weight	Pounds	4.5	4.5	4.5	6	6.3	7

****California Proposed Conservation Bill****

Proposed by Senator Wolk on Feb. 22, 2013. The bill would require submetering (or individual metering) for all new multi-unit residential, commercial, and mixed-use buildings constructed after January 1, 2014.

All plumbing fixtures and fittings would have to follow the conservation law requirements. The goal is to ensure all tenant usage is measured.

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