

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

Model PMN

Sizes: 5/8", 3/4", 1", 1-1/2", 2"



INTRODUCTION: ZENNER PMN 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 PMN 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 PMN 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 PMN 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 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. 1 1/2" and 2" registration capacities are: 100,000,000 Gallons, 10,000,000 Cubic Feet, 1,000,000 Cubic Meters, 6 odometer wheels.

CONFORMANCE: ZENNER PMN Water Meters are tested and comply with AWWA C708, ISO 4064, and G13IT19001-ISO9000 performance standards. These Meters comply with the lead-free provisions of the Safe Drinking Water Act and are certified to NSF/ANSI Standards 61 and 372.

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 built-in wrench pads on meter sizes 5/8" through 1". Tailpiece/Unions for installations of meters are available as an option for various pipe types, sizes, and misaligned pipes. The 1-1/2" PMN09 and 2" PMN12 flanged meters come with a built-in 1" test port.

| 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 | 1/8 | 1/8 | 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. | 175 | 175 | 175 | 175 | 175 | 175 |
| 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 |

| MODEL | | PMN08 | PMN08M | PMN09 | PMN10 | PMN11 | PMN11M | PMN12 |
|----------------------------------|--------|-----------------------|---------------------|----------------|-------------------|-------------------|-----------------|------------|
| SIZE | | 1-1/2" Female Threads | 1-1/2" Male Threads | 1-1/2" Flanged | 2" Flanged 10" LL | 2" Female Threads | 2" Male Threads | 2" Flanged |
| High Flow Rate | USGPM | 100 | 100 | 100 | 160 | 160 | 160 | 160 |
| Continuous Flow | USGPM | 50 | 50 | 50 | 80 | 80 | 80 | 80 |
| Starting Flow | USGPM | 1/2 | 1/2 | 1/2 | 3/4 | 3/4 | 3/4 | 3/4 |
| Normal Flow | USGPM | 5-100 | 5-100 | 5-100 | 8-160 | 8-160 | 8-160 | 8-160 |
| Low Flow | USGPM | 1 1/2 | 1 1/2 | 1 1/2 | 2 | 2 | 2 | 2 |
| Extreme High Flow (Intermittent) | USGPM | 120 | 120 | 120 | 180 | 180 | 180 | 180 |
| Maximum Working Pressure | P.S.I. | 175 | 175 | 175 | 175 | 175 | 175 | 175 |
| Maximum Temperature | Deg. F | 122 | 122 | 122 | 122 | 122 | 122 | 122 |
| Length | Inches | 12 5/8 | 12 5/8 | 13 | 10 | 15 1/4 | 15 1/4 | 17 |
| Length with Couplings | Inches | - | 18 5/8 | - | - | - | 21 1/2 | - |
| Height | Inches | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Weight | Pounds | 15 | 15 | 20 | 19 | 21 | 21 | 25 |