

## ZENNER Multi-Jet Type Magnetic Drive Re- claimed Cold Water Meters

Model PMNR

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

**INTRODUCTION:** ZENNER PMNR Reclaimed Water Meters utilize a magnetically driven multi-jet design. They are designed to measure non-potable cold 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 PMNR Reclaimed 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 PMNR Reclaimed 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 PMNR Reclaimed 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 PMNR Reclaimed 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 wrench pads. Tailpiece/Unions for installations of meters are available as an option for various pipe types, sizes, and misaligned pipes.



MODEL		PMNR01	PMNR02	PMNR03	PMNR04	PMNR05	PMNR07	
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	

MODEL		PMNR08	PMNR08M	PMNR09	PMNR10	PMNR11	PMNR11M	PMNR12
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.	150	150	150	150	150	150	150
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