Specification Sheet

H4000 Industrial Bulk Water Meter

Sizes: 1 1/2", 2", 3", 4", 6", 8", 10" & 12"



Description

Operation. The H4000 (formerly WP4000) is a horizontal Woltman-type meter designed for installation where occasional low and moderate to high sustained flows are demanded. Accuracy is maintained in both forward and reverse flow directions and there are various register/pulser options to suit the application.

Compliance to Standards. The H4000 complies with all performance requirements of ISO 4064 BS 5728 and EC Specifications Class B for forward flow.

Installation. The meter must be installed in a clean pipeline, free from any foreign materials. Install the meter with direction of flow as indicated by the arrow cast in the meter case. The meter may be installed in horizontal, inclined or vertical lines.

Application. The meter is for use only with POTABLE COLD WATER up to $120^{\circ}F$ ($50^{\circ}C$) and working pressures up to 230 psi (16 Bar). The meter will perform with accuracy registration of $100\% \pm 2\%$ within normal flow*. Both pressure loss and accuracy tests are made before shipment. No adjustments need to be made before installation.

Construction. The meter consists of a main case, measuring element, a case cover and a magnetically driven register/pulse assembly. The main case is cast iron with raised characters showing size and direction of flow. The case has a throated inlet. The measuring element assembly consists of the rotor, straightening vanes,

Specifications

Sizes: 95%-105% Start Flow gpn 98%-105% Min Flow gpm 98%-102% Cont. Flow gpn 98%-102% Max Flow gpm	4.4 4.4 m 220 220	3" 4" 2.2 2.6 8.8 8.8 528 792 880 1100			
Sizes: 95%-105% Start Flow gpn 98%-102% Min Flow gpm 98%-102% Cont. Flow gpn 98%-102% Max Flow gpm	17.6 26.4 m 1,981 3,082	10" 12" 26.4 52.8 48.4 66.0 4,402 6,604 7,044 8,805			
Max.Operating Pressure psi Max. Operating Temperature°F	230 120				
Sweep Hand Registers: US Gallons Cubic Meters (Litres)	1 1/2"-2"-3"-4" 100 0.1 100	6"-8"-10"-12" 1000 1.0 1000			
Capacity of Register: US Gallons (millions) Cubic Meters	1,000 1 million	10,000 10 million			
Register Type: Materials:	Polymer o-ring sealed direct read with pulser capability				
Main Case Top Cover Plate O-Ring Case Nuts & Bolts Body & Cover Coating Measuring Element Rotor	Cast Iron Cast Iron Neoprene Rubber Stainless Steel Epoxy Powder (Magnetically Fused) Polyphenylene Oxide Glass-Loaded Polypropylene				
Rotor Support Assembly Rotor Thrust Bearing Spindles Register Register Housing & Lid	Glass-Loaded Noryl Ceramic Jewel Tungsten Carbide Polymer Polymer				



Register. The standard register features a polymer counter case, large easy-read odometer, test sweephand and leak detector.

Magnetic Drive. The simple magnetic drive coupling eliminates inaccuracies from right angle type drives.

Connections. Flanges are drilled to ANSI B1 class 125/150. Bolt hole patterns are as follows:

1 1/2" - 3"	four bolt round raised face		
4" - 8"	eight bolt round raised face		
10" - 12"	twelve bolt round raised face		

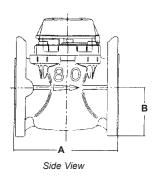
Pulsers.

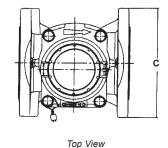
PG100-REED SWITCH, 10 WATT, 100 OHM RESISTANCE, VMAX: 24 VDC, IMAX: 100 mA. This device is magnetically actuated. The unit is uni-directional. Protection rating NEMA 4. Pulser. (High Speed) (opto-electronic -- PV14) This infrared optical sensor is powered by 12 to 24 VDC, 15/25 mA max. power from an external source, 15 ohm line resistance core. The pulse is provided at a 50/50 open/closed ratio. This is a three-wire system, red wire +12/24 VDC Power, white wire-signal, black wire-ground. The following are the outputs per size:

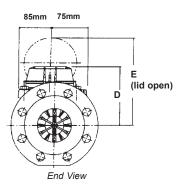
1 1/2"	1 pulse = 1 US Gallon/10 Litres
2"	1 pulse = 1 US Gallon/10 Litres
3"-8"	1 pulse = 10 US Gallon/100 Litres
10"	1 pulse = 100 US Gallon/1000 Litres
12"	1 pulse = 100 US Gallon/1000 Litres

Dimensions and Net Weights

Meter		Dii	Weight			
Size	Α	В	С	D	Ε	(lbs.)
1 1/2"	12.25	3.06	3.31	8.13	5.9	26.5
2"	12.25	3.06	3.38	8.13	6.88	28.8
3"	16.25	3.69	4.13	9.19	7.81	38.6
4"	19.00	4.19	4.81	9.69	9.06	52.0
6"	19.01	5.31	11.25	7.87	12.12	52
8"	20.47	6.47	13.42	8.74	12.99	119
10"	20.47	7.79	16.10	9.44	13.70	119
12"	20.47	8.85	18.14	9.44	13.70	119



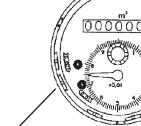




1 1/2" - 4" US Gallon Register 6" - 10" USG x 10,000







1 1/2" - 4" M3 Register 6" - 10" M3 x 10 1 pulse/1000 USG/litres Reed switch sensor

AMCO Distributed by:

1 pulse/1 USG/litre 1 1/2" - 4' Optical sensor 6" - 10" 1 pulse/10 USG/litres

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