Specification Sheet

H4300 Hot Water Meter

Description

Operation. The H4300 (formerly WPH) is a Woltman horizontal impeller (inferential) meter. The impeller and magnet are the only moving parts in the measuring chamber. The impeller movement is transferred by a magnetic coupling to an evacuated and hermetically sealed register, which can be read in any of four cardinal points without breaking the calibration seal.

Installation. The meter must be installed in a clean pipeline, free from foreign materials. The meter shall be installed with the direction of flow as indicated by the arrow cast into the meter case. The meter may be installed in a horizontal or inclined line up to 45^{o} with the register facing upward. Note: The meter must have 10 pipe diameters ahead of the unit and 5 after, of straight pipe, to insure proper flow through the meter.

Applications. The meter is for use with hot water up to 250^{o}F (120^{o}C) and working pressure to 230 psi (16 bar). Both pressure loss and accuracy tests are made before shipment. No adjustments need be made before installation.

Construction. The meter consists of the main case, a measuring chamber, an impeller, a removable top plate and o-ring with a magnetically driven register or register pulser assembly and register or register pulser housing (polymer).

Register. The register is a dust and waterproof, hermetically sealed unit, to prevent condensation caused by variation of temperature. The register can be positioned in any of four cardinal points without breaking the calibration seal.

Size: 2” - 3” - 4” - *6” *By Special Order

Specifications

Sizes:	2"	3”	4”	6”
Min Flow GPM ± 5%	4.4	8.8	10.5	17.6
Low Flow GPM ± 3%	8.8	17.6	26.4	88.0
Rec Cont Flow ± 1%	153	330	550	940
Peak Flow GPM ± 1%	305	660	1100	1870
Pressure Loss psi Low	.014	.014	.014	.014
Pressure Loss psi Cont	.182	.435	.725	1.45
Pressure Loss psi Peak	1.45	1.45	1.45	1.45
Operating Pressure psi	230	230	230	230
Operating Temperature ºF	250	250	250	250
Register Reading Smallest Qty:				
US Gallons	1 Gal	1 Gal	1 Gal	1 Gal
Cubic Meters	1 Ltr	1 Ltr	1 Ltr	1 Ltr
Capacity of Register/Pulser:				
US Gallons (millions)	100	100	100	1000
Cubic Meters (millions)	1	1	1	10
Contact Closure/Pulser:				
Reed Switch US Gallon	1 cont/ 10 gal	1 cont/ 10 gal	1 cont/ 10 gal	1 cont/ 100 gal
Opto-Electro US Gallon	1 cont/ 1 gal	1 cont/ 1 gal	1 cont/ 1 gal	1 cont/ 10 gal
Reed Switch Cubic Meter	1 cont/ 100 ltr	1 cont/ 100 ltr	1 cont/ 100 ltr	1 cont/ 1000 ltr
Opto-Electro Cubic Meter	1 cont/ 1 ltr	1 cont/ 1 ltr	1 cont/ 1 ltr	1 cont/ 10 ltr

Materials:	
Body Case	Grey Cast Iron
Top Plate	Grey Cast Iron
O-Ring	Ethylene-Propylene (EPDN)
Impellor	2” Carbon Fibre Loaded Nylon 12 3-4” Polyether Ether Keton (PEEK)
Magnet	Rare Earth (Cobalt)
Register	Makrolon (PC)
Register Housing Lid	Makrolon (PC)

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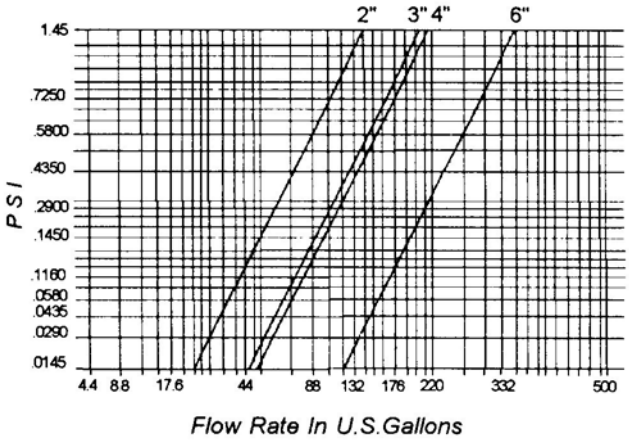
Pulser *Reed Switch (2-wire)* — The pulse element is a dry contact Reed Switch, rated at 10 watts. Contact load capacity of the Reed Switch is 24VDC, 100 mA. Requires power from an external source.

Opto-Electronic Pulse Transmitter (3-wire) — Contact load capacity of the Transmitter is 24VDC, 100 mA, 15 ohm line resistance core. Diode current source 25 mA. Requires power from an external source.

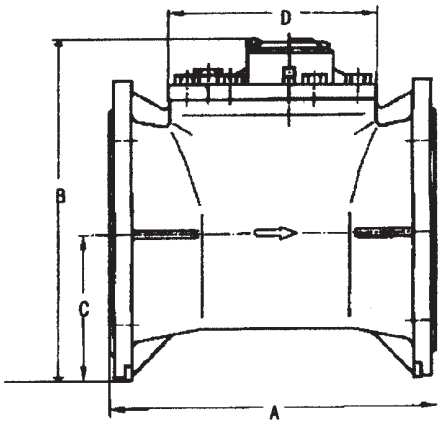
USG Reg/Pulser

m3 Reg/Pulser



Dimensions and Net Weights

Meter Size	Dimensions (inches) A Length	B Height	C Center To Bottom	D Width	Weight Approx. (lbs) Register Or Pulser
2"	7.87"	10.59"	2.95"	7.87"	33
3"	8.85"	11.25"	3.62"	7.87"	42
4"	9.84"	12.28"	4.64"	8.85"	51
6"	11.81"	13.97"	5.60"	11.81"	88



Dimensions

NOTE: Flanges are ANSI Class 150 raised face flanges. Bolt Pattern: 2" & 3" - 4 holes, 4" & 6" - 8 holes.

Temperature / Pressure Rating

Temp	-20--150	200	225	250
Min PSIG	--	6	25	45

"Min PSIG" is the minimum pressure required to prevent flashing in the meter body.

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