

Next Hydrus Bulk

Ultrasonic Bulk Meter



Next Hydrus Bulk is a static, ultrasonic water meter designed for highly accurate water measurement. Its unique design ensures long-term stability, even under the most difficult conditions.

Built for Real Pipe Conditions

Static ultrasonic measurement means air never registers as water, and sediment does not throw off the read. Install it horizontally, vertically, or at an angle, with no upstream or downstream calming sections required. The epoxy-coated cast iron body and IP68 sealed register handle vaults, pits, and the kind of conditions that shorten the life of mechanical meters.

Approved for Fire Service

The Next Hydrus Bulk is UL 327B listed and FM 1044 approved, and it meets or exceeds AWWA/ANSI C715 for both Type I and Type II meters. One product line covers domestic and fire protection duty, with published pressure loss at safe maximum operating capacity for both normal and fire service conditions so engineers can size with confidence.

Two Decades In, Still Reporting

A single, field-replaceable 3.6 VDC lithium cell runs the meter for up to 20 years. Along the way, the Bulk flags leaks, air in the pipe, backflow, high temperature, freezing risk, and undersized conditions on its own, and holds 42 days of hourly consumption on board, with temperature and diagnostics information available alongside the read.

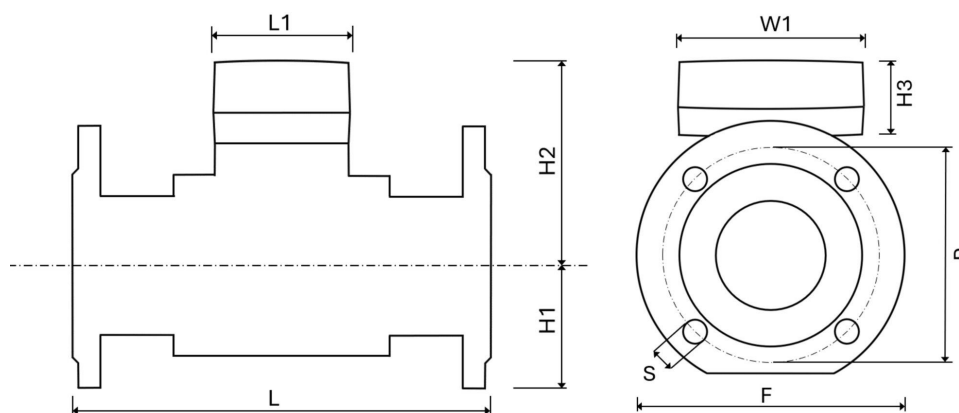
Key Benefits

- Sizes 2" - 8"
- Extreme low-flow accuracy and long-term measurement stability
- Battery life of up to 20 years; field replaceable battery
- Cast iron, epoxy coated body
- IP68
- Installation in any position, no calming sections required
- Communication protocol includes temperature, alerts, error messages, etc.
- 42 days of hourly data storage

Warranty

- 10-year warranty

Dimensions



Size	Lay length (L)	Height to pipe axis (H1)	Height above pipe axis (H2)	Register length (L1)	Register width (W1)	Register height (H3)	Net weight
2"	10"	5.6"	2.7"	3.9"	5.5"	2.4"	22 lbs
3"	12"	6.5"	3.5"	3.9"	5.5"	2.4"	36 lbs
4"	14"	7"	4.3"	3.9"	5.5"	2.4"	46 lbs
6"	18"	7.3"	5.3"	3.9"	5.5"	2.4"	121 lbs
8"	20"	8.4"	6.3"	3.9"	5.5"	2.4"	132 lbs

Flange Connections

Size	Flange diameter (F)	Pitch circle diameter (P)	Number of bolt holes	Bolt hole diameter (S)
2"	6.25" (oval)	4.5"	2	3/4"
3"	7.5"	6"	4	3/4"
4"	9"	7.5"	8	3/4"
6"	11"	9.5"	8	7/8"
8"	13.5"	11.75"	8	7/8"

Applications

Available in 2", 3", 4", 6", and 8" sizes

Registers flow as low as 0.141 GPM (2" size)

Supports flow rates up to 2,800 GPM (8" size)

Approved for both domestic and fire service applications

Size	Operating Flow (GPM)	Low Flow Range (GPM)	Starting Flow (GPM)	SMOC, normal operation (GPM)	SMOC, fire service (GPM)	Pressure loss at SMOC, normal (PSI)	Pressure loss at SMOC, fire service (PSI)
2"	2.5 - 250	0.2 - 2.5	0.141	250	250	2.8	2.8
3"	7.5 - 500	0.35 - 7.5	0.317	500	400	5.5	3.5
4"	10 - 1000	0.65 - 10	0.484	1000	1000	2.1	2.1
6"	20 - 1900	1.37 - 20	0.660	1900	1600	4.8	3.4
8"	40 - 2800	2.75 - 40	0.969	2800	2800	2.8	2.8

SMOC refers to safe maximum operating capacity.

Approvals

Meets or exceeds applicable sections of AWWA/ANSI C715 for Type I and Type II meters

Complies with NSF/ANSI/CAN 61, Annex F/G

Listed to UL 327B for fire service applications

Approved to FM 1044 for fire service meters

Complies with FCC Part 15 B

Environment

IP68 protection class, suitable for submerged installations

Installs in any position, horizontal, vertical, or angled

No upstream or downstream calming sections required

Insensitive to sedimentation, no measurement of air

Temperature

	Range (F)	Range (C)
Water	33° to 122°	0.6° to 50°
Ambient (Operating)	14° to 131°	-10° to 55°
Ambient (Storage)	14° to 158°	-10° to 70°

Storage above 95° F | 35° C is limited to a maximum of 4 weeks.

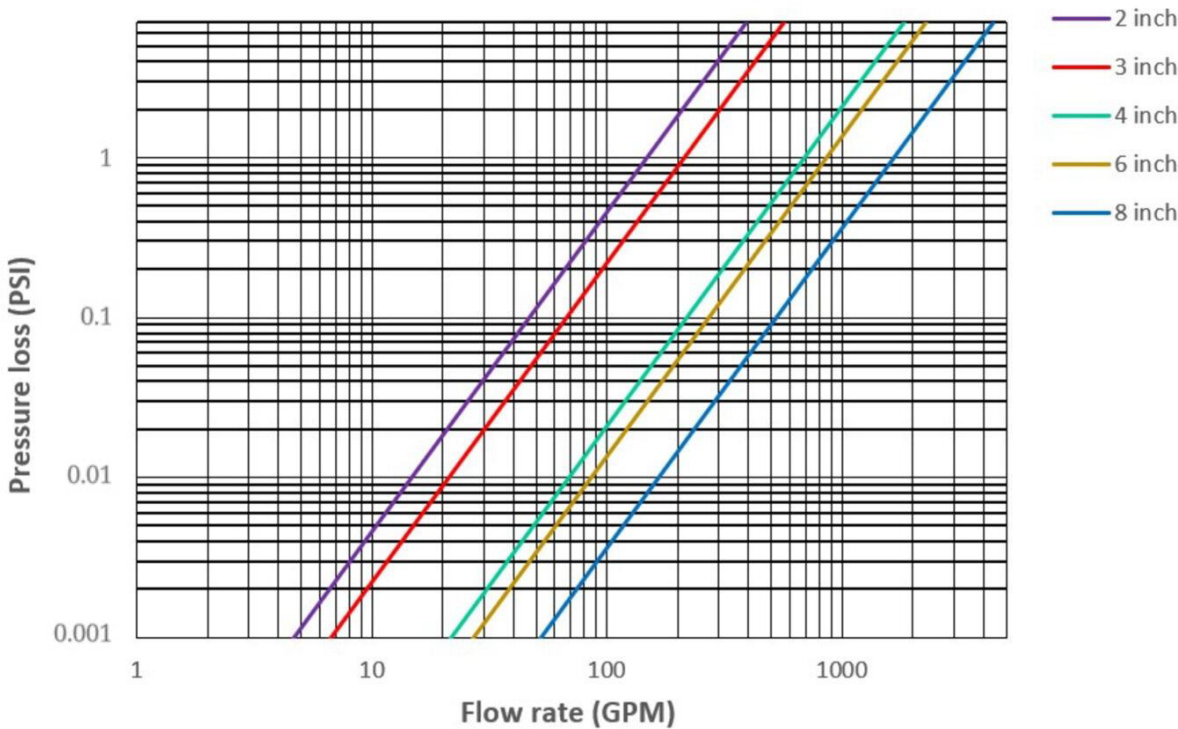
Materials

Component	Material
Body	Cast iron, epoxy coated
Register Housing	Engineered polymer
Transducers	Composite

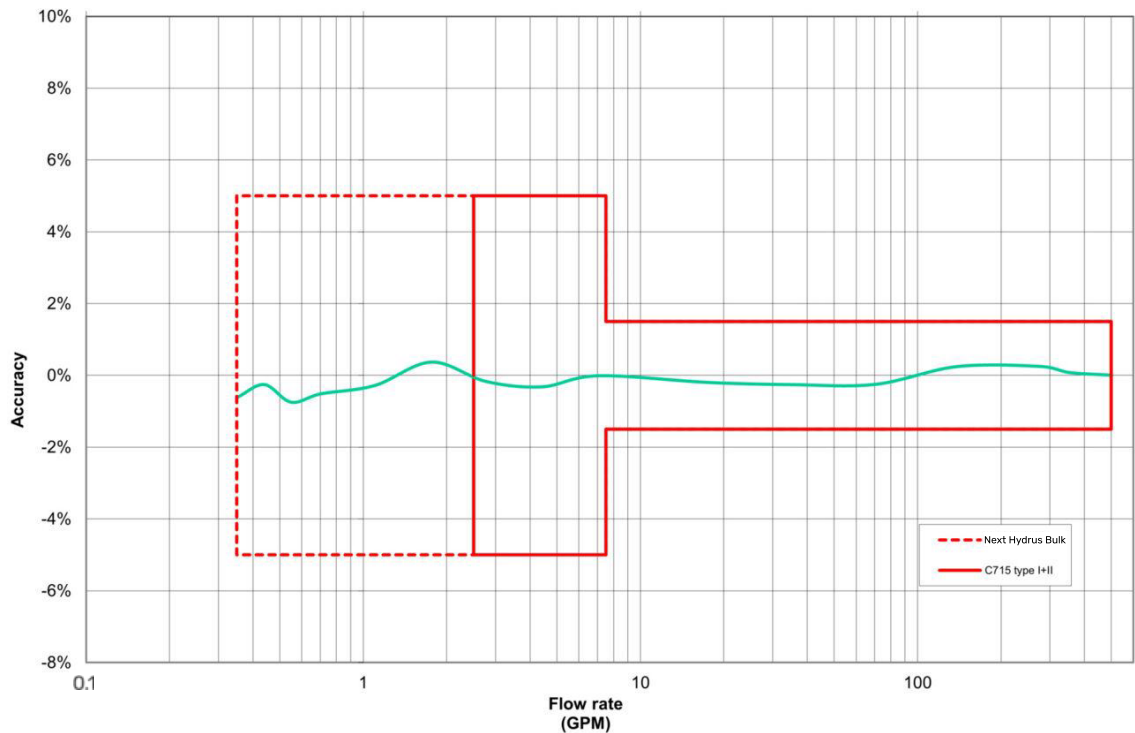
Pressure

Up to 175 PSI maximum operating pressure

5 PSI minimum operating pressure



Accuracy



Typical accuracy curve (3")

Power

One 3.6 VDC lithium battery, field replaceable

Battery life up to 20 years

Outputs

9-digit programmable resolution encoder output, industry standard protocol

ASCII output for compatibility with most AMR/AMI systems

Encoded output includes temperature information, alerts, and error messages

Alerts

Hardware flow

Leak detection

Backflow

Air in pipe

Low battery

Undersized meter

No consumption

High temperature

Freezing risk

Data & Display

42 days of hourly consumption and alert data storage

LCD display, 9-digit, with additional symbols, display counter, and unit indicators

Flow and volume units: GPM, gal, ft³

Displayed values: display test, total volume, firmware version and checksum, current flow, errors and alerts (additional values based on configuration)

Warranty

10-year limited warranty with limitations as detailed in the complete Next Hydrus Bulk Warranty document.

Contact

For additional information or assistance, please visit our Support Center or contact our Product Support Team:

support.nextmeters.com

(844) 538-8203

support@nextmeters.com