



Aqua Metric Sales Company

13406 Seymour Myers, Unit 8, Covington LA 70433

Phone: (210) 967-6300 • Facsimile: (210) 967-6305



Jefferson Parish

Purchasing Department

200 Derbigny Street

General Government Building, Suite 4400

Gretna, LA 70053

Donna Reamey

dreamy@jeffparish.net

(504) 364-2684

Bid Number: 50-122977

**Two Year Contract for Water Meters and Components
for All Water Districts for the Parish of Jefferson**

Due: May 17, 2018 at 2:00 PM

Primary Contact:

Gary Ragusa

Southeast Territory Manager

Phone: (504) 251-0140

Email: gary.ragusa@aqua-metric.com

Prepared:

May 17, 2018



May 17, 2018

Donna Reamey
Jefferson Parish, Purchasing Department
200 Derbingy Street
General Government Building, Suite 4400
Gretna, LA 70053

RE: Bid No. 50-122977, Water Meters and Components

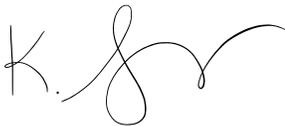
Dear Ms. Reamey,

Thirkettle Corporation dba Aqua-Metric Sales Company is pleased to propose our water meter solution to Jefferson Parish for Bid Number 50-122977, Two Year Contract for Water Meters and Components for All Water Districts for Parish of Jefferson, due May 17, 2018.

Thirkettle Corporation has been involved in over one-hundred-and-eighty AMR/AMI system deployments, sized from 300 to more than 100,000 meters, and served the utility sector in multiple states for over twenty years. Our all-inclusive, turnkey approach makes us unique to the industry and our customers, whom we view as partners. The enclosed proposal provides Sensus' revolutionary residential and commercial Omni metrology capable of both manual readings and integrating into Jefferson Parish's current and future electronic reading system of choice.

We understand additional options are being evaluated by Jefferson Parish, but rest assured, when a Utility chooses partnership with Aqua Metric/Sensus they are receiving proven technology with best-in-class service that does not have an expiration date. We will not disappoint you, and your decision to partner with us will never be regretted. We appreciate the opportunity and thank you in advance for your time and thoughtful consideration.

Sincerely,



Kristy Segarra
Manager, Bids & Proposals
Aqua-Metric Sales Company
Phone: (210) 967-6300
Email: kristy.segarra@aqua-metric.com

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES _____ NO X

MAXIMUM ESCALATION PERCENTAGE REQUESTED _____%

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF _____.

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES 4 Weeks From Order

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) _____

THIS SECTION MUST BE COMPLETED BY BIDDER:

FIRM NAME: Thirkettle Corporation dba Aqua-Metric Sales Company

ADDRESS: 6700 Guada Coma Drive

CITY, STATE: Schertz, Texas ZIP: 78154

TELEPHONE: (210) 967-6300 FAX: (210) 967-6305

EMAIL ADDRESS: Kristy.Segarra@aqua-metric.com

In the event that addenda are issued with this bid, bidders **MUST** acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: #1, Received May 10, 2018

NUMBER: _____

NUMBER: _____

NUMBER: _____

TOTAL PRICE OF ALL BID ITEMS: \$ \$424,744.77

AUTHORIZED SIGNATURE: 

Kristy Segarra

Printed Name

TITLE: Manager, Bids and Proposals

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.



May 16, 2018

Aqua-Metric Sales Company

Kristy Segarra - Manager, Bids and Proposals
 6700 Guada Coma Dr. | Schertz, TX 78154
 Phone: (210) 967-6300 | Facsimile: (210) 967-6305

Quote for: Jefferson Parish, LA
 Attention: Donna Reamey
 Project: Bid Number 50-122977
 Address: 200 Derbingy Street
 City, State, ZIP: Gretna, LA 70053
 Phone: (504) 364-2684
 Email: dreamey@jeffparish.com

Quantity	Description	Unit Price	Line Total
10	2" OMNI C2 Compound Meter with 25' Itron Inline Connector	\$829.49	\$8,294.90
5	3" OMNI C2 Compound Meter with 25' Itron Inline Connector	\$1,153.94	\$5,769.70
35	4" OMNI C2 Compound Meter with 25' Itron Inline Connector	\$1,741.94	\$60,967.90
10	6" OMNI C2 Compound Meter with 25' Itron Inline Connector	\$3,069.14	\$30,691.40
10	8" OMNI C2 Compound Meter with 25' Itron Inline Connector	\$5,563.94	\$55,639.40
10	10" OMNI C2 Compound Meter with 25' Itron Inline Connector	\$7,172.54	\$71,725.40
10	2" OMNI T2 Turbo Meter with 25' Itron Inline Connector	\$551.25	\$5,512.50
5	3" OMNI T2 Turbo Meter with 25' Itron Inline Connector	\$677.25	\$3,386.25
10	4" OMNI T2 Turbo Meter with 25' Itron Inline Connector	\$934.49	\$9,344.90
10	6" OMNI T2 Turbo Meter with 25' Itron Inline Connector	\$1,626.45	\$16,264.50
10	8" OMNI T2 Turbo Meter with 25' Itron Inline Connector	\$4,443.60	\$44,436.00
10	10" OMNI T2 Turbo Meter with 25' Itron Inline Connector	\$5,145.00	\$51,450.00
1	4" OMNI F2 Fire Service Meter, Compact Length, with 25' Itron Inline Connector	\$5,197.50	\$5,197.50
1	6" OMNI F2 Fire Service Meter, Compact Length, with 25' Itron Inline Connector	\$6,908.79	\$6,908.79
1	8" OMNI F2 Fire Service Meter, Compact Length, with 25' Itron Inline Connector	\$10,330.43	\$10,330.43
1	10" OMNI F2 Fire Service Meter, Compact Length, with 25' Itron Inline Connector	\$14,765.21	\$14,765.21
1	2" OMNI R2 Residential Meter with 25' Itron Inline Connector	\$559.39	\$559.39
1	2" OMNI C2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$783.41	\$783.41
1	3" OMNI C2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$1,089.83	\$1,089.83
1	4" OMNI C2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$1,407.09	\$1,407.09
1	6" OMNI C2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$1,839.36	\$1,839.36
1	8" OMNI C2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$1,961.86	\$1,961.86
1	10" OMNI C2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$1,961.86	\$1,961.86
1	2" OMNI T2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$536.42	\$536.42
1	3" OMNI T2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$672.23	\$672.23
1	4" OMNI T2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$672.23	\$672.23
1	6" OMNI T2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$1,252.20	\$1,252.20
1	8" OMNI T2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$1,613.16	\$1,613.16
1	10" OMNI T2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$1,613.16	\$1,613.16
1	4" OMNI F2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$1,232.44	\$1,232.44
1	8" OMNI F2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$2,324.99	\$2,324.99
1	6" OMNI F2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$1,875.54	\$1,875.54
1	10" OMNI F2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$2,324.99	\$2,324.99
1	2" OMNI R2 Measuring Chamber Assembly with 25' Itron Inline Connector	\$339.83	\$339.83
		Total:	\$424,744.77

This quote for the product and services named above is subject to the following terms:

1. All quotes are subject to the Aqua-Metric Terms of Sale.
2. Quote is valid through two-year term of contract
3. Orders below \$7,500 will incur a freight charge of 2.5%
4. Freight allowed on individual orders exceeding \$7,500.00
5. Net Thirty Days to Pay
6. Returned product may be subject to a 25% restocking fee.
7. Sales Tax and/or Freight charges are approximated and may vary on final invoice.

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00122977

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			TWO YEAR CONTRACT FOR WATER METERS AND COMPONENTS FOR ALL WATER DISTRICTS FOR THE PARISH OF JEFFERSON.		
1	10.00	EA	0080 COMPOUND METER (FLOATING BALL TECHNOLOGY) 2 INCH	\$829.49	\$8,294.90
2	5.00	EA	0090 COMPOUND METER (FLOATING BALL TECHNOLOGY) 3 INCH	\$1,153.94	\$5,769.70
3	35.00	EA	0100 COMPOUND METER (FLOATING BALL TECHNOLOGY) 4 INCH	\$1,741.94	\$60,967.90
4	10.00	EA	0110 COMPOUND METER (FLOATING BALL TECHNOLOGY) 6 INCH	\$3,069.14	\$30,691.40
5	10.00	EA	0120 COMPOUND METER (FLOATING BALL TECHNOLOGY) 8 INCH	\$5,563.94	\$55,639.40
6	10.00	EA	0130 COMPOUND METER (FLOATING BALL TECHLOLOGY)10 INCH	\$7,172.54	\$71,725.40
7	10.00	EA	0210 TURBINE METER (FLOATING BALL TECHNOLOGY) 2 INCH	\$551.25	\$5,512.50
8	5.00	EA	0220 TURBINE METER (FLOATING BALL TECHNOLOGY) 3 INCH	\$677.25	\$3,386.25
9	10.00	EA	0230 TURBINE METER (FLOATING BALL TECHNOLOGY) 4 INCH	\$934.49	\$9,344.90
10	10.00	EA	0240 TURBINE METER (FLOATING BALL TECHNOLOGY) 6 INCH	\$1,626.45	\$16,264.50
11	10.00	EA	0250 TURBINE METER (FLOATING BALL TECHNOLOGY) 8 INCH	\$4,443.60	\$44,436.00
12	10.00	EA	0260 TURBINE METER (FLOATING BALL TECHNOLOGY) 10 INCH	\$5,145.00	\$51,450.00
			Note: Freight Allowed on Individual Orders Over \$7,500.00 Orders below \$7,500 will incur a freight charge of 2.5%		

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00122977

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
13	1.00	EA	0270 - FIRE SERVICE METER (FLOATING BALL TECHLOLOGY)4 INCH	\$5,197.50	\$5,197.50
14	1.00	EA	0280 - FIRE SERVICE METER(FLOATING BALL TECHLOLOGY)6 INCH	\$6,908.79	\$6,908.79
15	1.00	EA	0290 - FIRE SERVICE METER(FLOATING BALL TECHLOLOGY)8 INCH	\$10,330.43	\$10,330.43
16	1.00	EA	0310 - FIRE SERVICE METER(FLOATING BALL TECHLOLOGY)10 INCH	\$14,765.21	\$14,765.21
17	1.00	EA	0320 - RESIDENTIAL TURBINE METER (FLOATING BALL TECHLOLOGY)2 INCH	\$559.39	\$559.39
18	1.00	EA	0330 - REPLACEMENT MEASURING CHAMBER FOR COMPOUND METER(FLOATING BALL TECHLOLOGY)2 INCH	\$783.41	\$783.41
19	1.00	EA	0340 - REPLACEMENT MEASURING CHAMBER FOR COMPOUND METER (FLOATING BALL TECHLOLOGY)3 INCH	\$1,089.83	\$1,089.83
20	1.00	EA	0350 - REPLACEMENT MEASURING CHAMBER FOR COMPOUND METER(FLOATING BALL TECHLOLOGY) 4 INCH	\$1,407.09	\$1,407.09
21	1.00	EA	0360 - REPLACEMENT MEASURING CHAMBER FOR COMPOUND METER(FLOATING BALL TECHLOLOGY) 6 INCH	\$1,839.36	\$1,839.36
22	1.00	EA	0370 - REPLACEMENT MEASURING CHAMBER FOR COMPOUND METER(FLOATING BALL TECHLOLOGY) 8 INCH	\$1,961.86	\$1,961.86
23	1.00	EA	0380 - REPLACEMENT MEASURING CHAMBER FOR COMPOUND METER(FLOATING BALL TECHLOLOGY)10 INCH	\$1,961.86	\$1,961.86
<p>Note: Freight Allowed on Individual Orders Over \$7,500.00 Orders below \$7,500 will incur a freight charge of 2.5%</p>					

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00122977

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
24	1.00	EA	0390 - REPLACEMENT MEASURING CHAMBER FOR TURBINE METER(FLOATING BALL TECHNOLOGY)2 INCH	\$536.42	\$536.42
25	1.00	EA	0410 - REPLACEMENT MEASURING CHAMBER FOR TURBINE METER(FLOATING BALL TECHNOLOGY)3 INCH	\$672.23	\$672.23
26	1.00	EA	0420 - REPLACEMENT MEASURING CHAMBER FOR TURBINE METER(FLOATING BALL TECHNOLOGY)4 INCH	\$672.23	\$672.23
27	1.00	EA	0430 - REPLACEMENT MEASURING CHAMBER FOR TURBINE METER(FLOATING BALL TECHNOLOGY)6 INCH	\$1,252.20	\$1,252.20
28	1.00	EA	0440 - REPLACEMENT MEASURING CHAMBER FOR TURBINE METER(FLOATING BALL TECHNOLOGY)8 INCH	\$1,613.16	\$1,613.16
29	1.00	EA	0450 - REPLACEMENT MEASURING CHAMBER FOR TURBINE METER(FLOATING BALL TECHNOLOGY)10 INCH	\$1,613.16	\$1,613.16
30	1.00	EA	0460 - REPLACEMENT MEASURING CHAMBER FOR FIRE SERVICE METER (FLOATING BALL TECHNOLOGY)4 INCH	\$1,232.44	\$1,232.44
31	1.00	EA	0460 - REPLACEMENT MEASURING CHAMBER FOR FIRE SERVICE METER (FLOATING BALL TECHNOLOGY)8 INCH	\$2,324.99	\$2,324.99
32	1.00	EA	0470 - REPLACEMENT MEASURING CHAMBER FOR FIRE SERVICE METER (FLOATING BALL TECHNOLOGY)6 INCH	\$1,875.54	\$1,875.54
33	1.00	EA	0490 - REPLACEMENT MEASURING CHAMBER FOR FIRE SERVICE METER (FLOATING BALL TECHNOLOGY)10 INCH	\$2,324.99	\$2,324.99
34	1.00	EA	0510 - REPLACEMENT MEASURING CHAMBER FOR RESIDENTIAL TURBINE METER (FLOATING	\$339.83	\$339.83
Note: Freight Allowed on Individual Orders Over \$7,500.00 Orders below \$7,500 will incur a freight charge of 2.5%					

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00122977

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			<p>BALL TECHNOLOGY) 2 INCH</p> <p>Note: Freight Allowed on Individual Orders Over \$7,500.00 Orders below \$7,500 will incur a freight charge of 2.5%</p>		

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B X _____ There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

Kristy Segarra
Signature of Affiant

Kristy Segarra, Manager, Bids and Proposals
Printed Name of Affiant

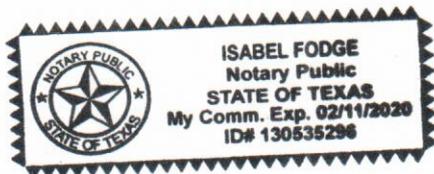
SWORN AND SUBSCRIBED TO BEFORE ME
ON THE 15th DAY OF May, 2018

Isabel Fodge
Notary Public

Isabel Fodge
Printed Name of Notary

130535296
Notary/Bar Roll Number

My commission expires 2/11/2020.





JEFFERSON PARISH

Department of Purchasing

Michael S. Yenni
Parish President

Renny Simno
Director

May 10, 2018

ADDENDUM # 1

Bid No.: 50-00122977

Bid Opening Date: 05/17/2018

For: Two year contract for water meters and components for all water Districts for the Parish of Jefferson.

On page two (2) of Specifications under : Technical Specifications (Replace last two paragraphs with the following:

Meter manufacturers must guarantee the complete sealed register for a period of not less than one (1) year for satisfactory operating performance and against fogging. If the sealed register fogs and/or does not operate satisfactorily, as determined by the Department of Water, the meter manufacturer shall replace the unit at no cost to the Jefferson Parish Water Department during the warranty period.

Each meter shall meet new meter accuracy standards during the first year of operation. The meter manufacturer must further guarantee all internal working meter parts for a period of not less than one (1) year. During this period, measuring chambers shall meet the repaired meter accuracy standards of AWWA Manual M-6. Chambers which do not meet the aforementioned accuracy warranty shall be replaced by the manufacturer at no cost to the Jefferson Parish Water Department.

Sincerely,

Donna Reamey

Donna Reamey, Buyer II
Jefferson Parish Purchasing Department

Bidders must acknowledge all addenda on the bid form. Bidder acknowledges receipt of this addendum on the bid form as indicated. Failure to do so will result in bid rejection.

This addendum is a part of the contract documents and modifies the original bidding documents and specifications. The contents of this addendum shall be included in the contract documents. Changes made by this addendum shall take precedence over the documents of earlier date.

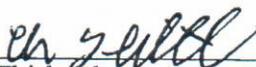
**CORPORATE RESOLUTION ON AUTHORIZED REPRESENTATIVE
OF
THIRKETTLE CORPORATION**

We hereby certify that it was RESOLVED by a quorum of the directors of the Thirkettle Corporation, meeting this Monday, January 4, 2016, that Clint Arnold, Michael Cartwright, Chris Newville, Dustin Laughlin, and Kristy Hedgepeth be, and hereby are authorized to act on behalf of Thirkettle Corporation dba Aqua Metric Sales Company and its representative in all business transactions conducted in the State of Louisiana, and:

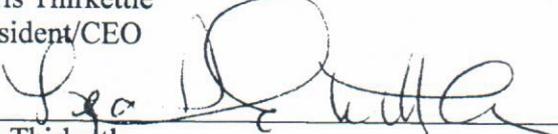
That all above resolution was unanimously ratified by the Board of Directors at said meeting and the resolution has not been rescinded or amended and is now in full forces and effect and;

In authentication of the adoption of this resolution, we subscribe our names and affix the seal of the corporation this Monday, January 4, 2016.





Chris Thirkettle
President/CEO



Lea Thirkettle
Vice President/Secretary



CERTIFICATE OF LIABILITY INSURANCE

THIRK-1

OP ID: JP

DATE (MM/DD/YYYY)

05/08/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER R. T. Beers & Co. Ins.Services 100 Oceangate, Suite 850 Long Beach, CA 90802-4653 Lejani Sarian	CONTACT NAME: Lejani Sarian PHONE (A/C, No, Ext): 562-901-4605 E-MAIL ADDRESS: Isarian@rtbeers.com		FAX (A/C, No): 562-901-4601
	INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED Thirkettle Corporation DBA: Aqua Metric Sales Company 6700 Guada Coma Drive Schertz, TX 78154	INSURER A : Massachusetts Bay Ins Co		22306
	INSURER B : Allmerica Financial Benefit		41840
	INSURER C : Hanover Insurance Company		22292
	INSURER D :		
	INSURER E :		
INSURER F :			

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

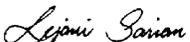
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR	X		ZZ3A664940-02	07/01/2017	07/01/2018	EACH OCCURRENCE \$ 1,000,000
	<input type="checkbox"/> GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Emp Ben. \$ 1,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS	X		AW3A665023-02	07/01/2017	07/01/2018	<input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS
	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (PER ACCIDENT) \$ \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			UH3A664942-02	07/01/2017	07/01/2018	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 \$
	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C	Prof Liab/Tech E&O			LH3A665809-02	07/01/2017	07/01/2018	Ea. Claim 2,000,000 Aggregate 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Jefferson Parish is named as additional insured for the General Liability & Auto Liability per attached form #421-2915 1214 & form #461-0155.

CERTIFICATE HOLDER**CANCELLATION**

JEFFPAR Jefferson Parish 200 Derbigny Street Gretna, LA 70053	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

COMMERCIAL GENERAL LIABILITY BROADENING ENDORSEMENT

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SUMMARY OF COVERAGES

1.	Additional Insured by Contract, Agreement or Permit	Included
2.	Additional Insured – Primary and Non-Contributory	Included
3.	Blanket Waiver of Subrogation	Included
4.	Bodily Injury Redefined	Included
5.	Broad Form Property Damage – Borrowed Equipment, Customers Goods & Use of Elevators	Included
6.	Knowledge of Occurrence	Included
7.	Liberalization Clause	Included
8.	Medical Payments	Included
9.	Newly Acquired or Formed Organizations - Covered until end of policy period	Included
10.	Non-owned Watercraft	51 ft.
11.	Supplementary Payments Increased Limits	
	- Bail Bonds	\$2,500
	- Loss of Earnings	\$1000
12.	Unintentional Failure to Disclose Hazards	Included
13.	Unintentional Failure to Notify	Included

This endorsement amends coverages provided under the Commercial General Liability Coverage Part through new coverages, higher limits and broader coverage grants.

1. Additional Insured by Contract, Agreement or Permit

The following is added to **SECTION II – WHO IS AN INSURED:**

Additional Insured by Contract, Agreement or Permit

- a. Any person or organization with whom you agreed in a written contract, written agreement or permit that such person or organization to add an additional insured on your policy is an additional insured only with respect to liability for “bodily injury”, “property damage”, or “personal and advertising injury” caused, in whole or in part, by your acts or omissions, or the acts or omissions of those acting on your behalf, but only with respect to:

(1) "Your work" for the additional insured(s) designated in the contract, agreement or permit;

(2) Premises you own, rent, lease or occupy; or

(3) Your maintenance, operation or use of equipment leased to you.

- b. The insurance afforded to such additional insured described above:

(1) Only applies to the extent permitted by law; and

(2) Will not be broader than the insurance which you are required by the contract, agreement or permit to provide for such additional insured.

- (3) Applies on a primary basis if that is required by the written contract, written agreement or permit.
 - (4) Will not be broader than coverage provided to any other insured.
 - (5) Does not apply if the "bodily injury", "property damage" or "personal and advertising injury" is otherwise excluded from coverage under this Coverage Part, including any endorsements thereto.
- c. This provision does not apply:
- (1) Unless the written contract or written agreement was executed or permit was issued prior to the "bodily injury", "property damage", or "personal injury and advertising injury".
 - (2) To any person or organization included as an insured by another endorsement issued by us and made part of this Coverage Part.
 - (3) To any lessor of equipment:
 - (a) After the equipment lease expires; or
 - (b) If the "bodily injury", "property damage", "personal and advertising injury" arises out of sole negligence of the lessor
 - (4) To any:
 - (a) Owners or other interests from. whom land has been leased which takes place after the lease for the land expires; or
 - (b) Managers or lessors of premises if:
 - (i) The occurrence takes place after you cease to be a tenant in that premises; or
 - (ii) The "bodily injury", "property damage", "personal injury" or "advertising injury" arises out of structural alterations, new construction or demolition operations performed by or on behalf of the manager or lessor.
 - (5) To "bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of or the failure to render any professional services.
- This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage" or the offense which caused the "personal and

advertising injury" involved the rendering of or failure to render any professional services by or for you.

- d. With respect to the insurance afforded to these additional insureds, the following is added to **SECTION III – LIMITS OF INSURANCE**:

The most we will pay on behalf of the additional insured for a covered claim is the lesser of the amount of insurance:

- 1. Required by the contract, agreement or permit described in Paragraph a.; or
- 2. Available under the applicable Limits of Insurance shown in the Declarations.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

2. Additional Insured – Primary and Non-Contributory

The following is added to **SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS**, Paragraph 4. **Other insurance:**

Additional Insured – Primary and Non-Contributory

If you agree in a written contract, written agreement or permit that the insurance provided to any person or organization included as an Additional Insured under **SECTION II – WHO IS AN INSURED**, is primary and non-contributory, the following applies:

If other valid and collectible insurance is available to the Additional Insured for a loss covered under Coverages **A** or **B** of this Coverage Part, our obligations are limited as follows:

a. Primary Insurance

This insurance is primary to other insurance that is available to the Additional Insured which covers the

Additional Insured as a Named Insured. We will not seek contribution from any other insurance available to the Additional Insured except:

- (1) For the sole negligence of the Additional Insured;
- (2) When the Additional Insured is an Additional Insured under another primary liability policy; or
- (3) when b. below applies.

If this insurance is primary, our obligations are not affected unless any of the other insurance is also primary. Then, we will share with all that other insurance by the method described in c. below.

b. Excess Insurance

- (1) This insurance is excess over any of the other insurance, whether primary, excess, contingent or on any other basis:
 - (a) That is Fire, Extended Coverage, Builder's Risk, Installation Risk or similar coverage for "your work";
 - (b) That is Fire insurance for premises rented to the Additional Insured or temporarily occupied by the Additional Insured with permission of the owner;
 - (c) That is insurance purchased by the Additional Insured to cover the Additional Insured's liability as a tenant for "property damage" to premises rented to the Additional Insured or temporarily occupied by the Additional with permission of the owner; or
 - (d) If the loss arises out of the maintenance or use of aircraft, "autos" or watercraft to the extent not subject to Exclusion **g.** of **SECTION I – COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY.**
- (2) When this insurance is excess, we will have no duty under Coverages **A** or **B** to defend the insured against any "suit" if any other insurer has a duty to defend the insured against that "suit". If no other insurer defends, we will undertake to do so, but we will be entitled to the insured's rights against all those other insurers.
- (3) When this insurance is excess over other Insurance, we will pay only our share of the amount of the loss, if any, that exceeds the sum of:
 - (a) The total amount that all such other insurance would pay for the loss in the absence of this insurance; and
 - (b) The total of all deductible and self insured amounts under all that other insurance.

We will share the remaining loss, if any, with any other insurance that is not described in this Excess Insurance provision and was not bought specifically to apply in excess of the Limits of Insurance shown in the Declarations of this Coverage Part.

c. Method Of Sharing

If all of the other insurance permits contribution by equal shares, we will follow this method also. Under this approach each

insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first. If any of the other insurance does not permit contribution by equal shares, we will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers

3. Blanket Waiver of Subrogation

The following is added to **SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS**, Paragraph **8. Transfer Of Rights Of Recovery Against Others To Us**:

We waive any right of recovery we may have against any person or organization with whom you have a written contract that requires such waiver because of payments we make for damage under this coverage form. The damage must arise out of your activities under a written contract with that person or organization. This waiver applies only to the extent that subrogation is waived under a written contract executed prior to the "occurrence" or offense giving rise to such payments.

4. Bodily Injury Redefined

SECTION V – DEFINITIONS, Definition **3.** "bodily injury" is replaced by the following:

- 3. "Bodily injury" means bodily injury, sickness or disease sustained by a person including death resulting from any of these at any time. "Bodily injury" includes mental anguish or other mental injury resulting from "bodily injury".

5. Broad Form Property Damage – Borrowed Equipment, Customers Goods, Use of Elevators

- a. **SECTION I – COVERAGES, COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY**, Paragraph **2. Exclusions** subparagraph **j.** is amended as follows:

Paragraph **(4)** does not apply to "property damage" to borrowed equipment while at a jobsite and not being used to perform operations.

Paragraphs **(3)**, **(4)** and **(6)** do not apply to "property damage" to "customers goods" while on your premises nor do they apply to the use of elevators at premises you own, rent, lease or occupy.

- b. The following is added to **SECTION V – DEFINITIONS**:

24. "Customers goods" means property of your customer on your premises for the purpose of being:

- a. worked on; or
- b. used in your manufacturing process.
- c. The insurance afforded under this provision is excess over any other valid and collectible property insurance (including deductible) available to the insured whether primary, excess, contingent

6. Knowledge of Occurrence

The following is added to **SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS**, Paragraph 2. **Duties in the Event of Occurrence, Offense, Claim or Suit:**

- e. Notice of an "occurrence", offense, claim or "suit" will be considered knowledge of the insured if reported to an individual named insured, partner, executive officer or an "employee" designated by you to give us such a notice.

7. Liberalization Clause

The following is added to **SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS:**

Liberalization Clause

If we adopt any revision that would broaden the coverage under this Coverage Form without additional premium, within 45 days prior to or during the policy period, the broadened coverage will immediately apply to this Coverage Part.

8. Medical Payments

a. **SECTION I – COVERAGES, COVERAGE C – MEDICAL PAYMENTS**, Paragraph 1. **Insuring Agreement**, subparagraph a.(3)(b) is replaced by the following:

- (b) The expenses are incurred and reported to us within three years of the date of the accident; and

b. This coverage does not apply if **COVERAGE C – MEDICAL PAYMENTS** is excluded either by the provisions of the Coverage Part or by endorsement.

9. Newly Acquired Or Formed Organizations

SECTION II – WHO IS AN INSURED, Paragraph 3.a. is replaced by the following:

- a. Coverage under this provision is afforded until the end of the policy period.

10. Non-Owned Watercraft

SECTION I – COVERAGES, COVERAGE A BODILY INJURY AND PROPERTY DAMAGE LIABILITY, Paragraph 2. **Exclusions**, subparagraph g.(2) is replaced by the following:

g. Aircraft, Auto Or Watercraft

- (2) A watercraft you do not own that is:
 - (a) Less than 51 feet long; and
 - (b) Not being used to carry persons or property for a charge;

This provision applies to any person who, with your consent, either uses or is responsible for the use of a watercraft.

11. Supplementary Payments Increased Limits

SECTION I – SUPPLEMENTARY PAYMENTS COVERAGES A AND B, Paragraphs 1.b. and 1.d. are replaced by the following:

1.b. Up to \$2,500 for cost of bail bonds required because of accidents or traffic law violations arising out of the use of any vehicle to which the Bodily Injury Liability Coverage applies. We do not have to furnish these bonds.

1.d. All reasonable expenses incurred by the insured at our request to assist us in the investigation or defense of the claim or "suit", including actual loss of earnings up to \$1000 a day because of time off from work.

12. Unintentional Failure to Disclose Hazards

The following is added to **SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS**, Paragraph 6. **Representations:**

We will not disclaim coverage under this Coverage Part if you fail to disclose all hazards existing as of the inception date of the policy provided such failure is not intentional.

13. Unintentional Failure to Notify

The following is added to **SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS**, Paragraph 2. **Duties in the Event of Occurrence, Offense, Claim or Suit:**

Your rights afforded under this policy shall not be prejudiced if you fail to give us notice of an "occurrence", offense, claim or "suit", solely due to your reasonable and documented belief that the "bodily injury" or "property damage" is not covered under this policy.

ALL OTHER TERMS, CONDITIONS, AND EXCLUSIONS REMAIN UNCHANGED.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**BUSINESS AUTO COVERAGE
BROADENING ENDORSEMENT**

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

1. CANCELLATION EXTENSION

Paragraph **A. CANCELLATION 2. b.** of the **COMMON POLICY CONDITIONS** is replaced with the following:

- b. 60 days before the effective date of cancellation if we cancel for any other reason.

- d. Any business entity for which you have a financial interest greater than 50% of the voting stock or otherwise have a controlling interest after the effective date of this policy or that is newly acquired or formed by you during the term of this policy.

SECTION I - COVERED AUTOS

2. EMPLOYEE HIRED "AUTOS"

Description Of Covered Auto Designation Symbols; Symbol 8 is replaced by the following:

8 = Hired "Autos" Only - Only those "autos" you lease, hire, rent or borrow; including "autos" your employee hires at your direction, for the purpose of conducting your business. This does not include any "auto" you lease, hire, rent, or borrow from any of your "employees" or partners or members of their households.

The coverage provided by this provision is afforded until expiration or termination of this policy, whichever occurs earlier.

The coverage provided by this provision does not apply to any business entity described in d. above that qualifies as an insured under any other automobile liability policy issued to that business entity as a named insured or would have been an insured except for the exhaustion of the policy limits or the insolvency of the insurer.

SECTION II - LIABILITY COVERAGE

3. BROADENED NAMED INSURED

The following is added to the **SECTION II - LIABILITY COVERAGE**, Paragraph 1. **Who Is An Insured** provision:

The coverage provided by this provision does not apply to "bodily injury" nor "property damage" arising from an accident that occurred prior to your acquiring or forming the business entity described in d. above.

4. EMPLOYEES AS INSURED

The following is added to the **SECTION II - LIABILITY COVERAGE**, Paragraph 1. **Who Is An Insured** provision:

- e. Any employee of yours is an "insured" while using a covered "auto" you do not own, hire or borrow in your business or your personal affairs.

5. SUPPLEMENTARY PAYMENTS

The following amends **SECTION II - LIABILITY COVERAGE**, Paragraph 2. **Coverage Extensions** provision:

Paragraph (2) is replaced by the following:

- (2) Up to \$2500 for cost of bail bonds (including bonds for related traffic law violations) required because of an "accident" we cover. We do not have to furnish these bonds.

Paragraph (4) is replaced by the following:

- (4) All reasonable expenses incurred by the "insured" at our request, including actual loss of earnings up to \$500 a day because of time off from work.

6. AMENDED FELLOW EMPLOYEE EXCLUSION

The following is added to the **SECTION II - LIABILITY COVERAGE, B. Exclusions** Paragraph 5. **Fellow Employee** exclusion:

This exclusion does not apply if the "bodily injury" arises from the use of a covered "auto" you own or hire. This coverage is excess over any other collectible insurance

SECTION III - PHYSICAL DAMAGE COVERAGE.

7. EXPENSE OF RETURNING A STOLEN "AUTO" and SIGN COVERAGE

The following is added to **SECTION III - PHYSICAL DAMAGE COVERAGE, A.1. COVERAGE:**

d. Expense Of Returning A Stolen "Auto"

We will pay for the expense of returning a covered "auto" to you.

e. Sign Coverage

We will pay for loss to signs, murals, paintings or graphics, as part of equipment, which are displayed on a covered "auto".

The most we will pay for "loss" in any one "accident" is the lesser of:

1. The actual cash value of the property as of the time of the "loss"; or
2. The cost of repairing or replacing the damaged or stolen property with other property of like kind and quality; or
3. \$2,000.

8. GLASS BREAKAGE DEDUCTIBLE

The following is added to SECTION III- PHYSICAL DAMAGE COVERAGE A. COVERAGE paragraph 3. Glass Breakage - Hitting a Bird or Animal - Falling Objects or Missiles:

Any deductible shown in the Declarations as applicable to the

covered "auto" will not apply to glass breakage if such glass is repaired, rather than replaced.

9. **TRANSPORTATION EXPENSE**

Paragraph 4. **Coverage Extension.** of **SECTION III - PHYSICAL DAMAGE COVERAGE, A. COVERAGE** is replaced with the following:

4. **Coverage Extension**

We will pay up to \$50 per day to a maximum of \$1500 for temporary transportation expense incurred by you because of the total theft of a covered "auto" of the private passenger type. We will pay only for those covered "autos" for which you carry either Comprehensive or Specified Causes of Loss Coverage. We will pay for temporary transportation expenses incurred during the period beginning 24 hours after the theft and ending, regardless of the policy's expiration, when the covered "auto" is returned to use or we pay for its "loss".

10. **HIRED AUTO PHYSICAL DAMAGE**

The following is added to **SECTION III - PHYSICAL DAMAGE COVERAGE, A. COVERAGE**:

5. **Hired Auto Physical Damage**

If hired "autos" are covered "autos" for Liability Coverage and if Physical Damage Coverage of Comprehensive, Specified Causes of Loss, or Collision is provided under this Coverage Form for any "auto" you own, then the Physical Damage Coverage(s) provided is extended to "autos" you hire without a driver or your employee hires, without a driver, at your

direction, for the purpose of conducting your business, for a period of 30 days or less, of like kind and use as the "autos" you own, subject to the following:

The most we will pay for any one loss is the lesser of the following:

- a. \$50,000 per accident, or
- b. cash value, or
- c. the cost of repair,

minus the deductible equal to the lowest deductible applicable to any owned "auto" for that coverage. Any deductible shown in the Declarations does not apply to "loss" caused by fire or lightning. Subject to the limit and deductible stated above, we will provide coverage equal to the broadest coverage provided to any covered "auto" you own, that is applicable to the loss.

If the loss arises from an accident for which you are legally liable and the lessor incurs an actual financial loss from that accident, we will cover the lessor's actual financial loss of use of the hired "auto" for a period of up to seven consecutive days from the date of the accident, subject to a limit of \$1,000 per accident.

11. **AUDIO, VISUAL AND DATA ELECTRONIC EQUIPMENT COVERAGE**

The following is added to **SECTION III - PHYSICAL DAMAGE COVERAGE, A. COVERAGE**:

6. **Audio, Visual and Data Electronic Equipment Coverage**

We will pay for "loss" to any electronic equipment that receives

or transmits audio, visual or data signals and that is not designed solely for the reproduction of sound. This coverage applies only if the equipment is permanently installed in the covered "auto" at the time of the "loss" or the equipment is removable from a housing unit which is permanently installed in the covered "auto" at the time of the "loss", and such equipment is designed to be solely operated by use of the power from the "auto's" electrical system, in or upon the covered "auto", including its antennas and other accessories. However, this does not include tapes, records or discs.

The exclusions that apply to PHYSICAL DAMAGE COVERAGE, except for the exclusion relating to Audio, Visual and Data Electronic Equipment, also apply to coverage provided herein. In addition, the following exclusions apply:

We will not pay, under this coverage, for either any electronic equipment or accessories used with such electronic equipment that is:

1. Necessary for the normal operation of the covered "auto" or the monitoring of the covered "auto's" operating system; or
2. Both:
 - a. An integral part of the same unit housing any sound reproducing equipment designed solely for the reproduction of sound if the sound reproducing equipment is permanently installed in the covered "auto", and

- b. Permanently installed in the opening of the dash or console normally used by the manufacturer for the installation of a radio.

With respect to coverage herein, the **LIMIT OF INSURANCE** provision of **PHYSICAL DAMAGE COVERAGE** is replaced by the following:

1. The most we will pay for all "loss" to audio, visual or data electronic equipment and any accessories used with this equipment as a result of any one "accident" is the lesser of
 - a. The actual cash value of the damaged or stolen property as of the time of the "loss"; or
 - b. The cost of repairing or replacing the damaged or stolen property with other property of like kind and quality; or
 - c. \$500.
2. An adjustment for depreciation and physical condition will be made in determining actual cash value at the time of the "loss".
3. Deductibles applicable to **PHYSICAL DAMAGE COVERAGE**, do not apply to this Audio, Visual and Data Electronic Equipment Coverage.

If there is other coverage provided by this policy for audio, visual and data electronic equipment, the coverage provided herein is

excess. However, you may elect to apply the limit or any portion thereof of coverage provided herein to pay any deductible that is applicable under the provisions of the other coverage.

12. RENTAL REIMBURSEMENT and MATERIAL TRANSFER EXPENSE

The following is added to **SECTION III - PHYSICAL DAMAGE COVERAGE, A. COVERAGE:**

7. Rental Reimbursement and Material Transfer Expense

This coverage provides only those Physical Damage Coverages where a premium is shown in the Declarations. It applies only to a covered "auto" described or designated to which the Physical Damage Coverages apply.

We will pay for auto rental expenses and the expenses, incurred by you because of "loss" to a covered "auto", to remove and transfer your materials and equipment from the covered "auto". Payment applies in addition to the otherwise applicable amount of each coverage you have on a covered "auto". No deductibles apply to this coverage.

We will pay only for those auto rental expenses incurred during the policy period beginning 24 hours after the "loss" and ending, regardless of the policy's expiration, with the lesser of the following number of days:

1. The number of days reasonably required to repair or replace the

covered "auto". If "loss" is caused by theft, this number of days is added to the number of days it takes to locate the covered "auto" and transport it to a repair shop.

2. 60 days.

Our payment is limited to the lesser of the following amounts:

1. Necessary and actual expenses incurred, including loss of use.
2. \$3000.

This auto rental expense coverage does not apply while there are spare or reserve "autos" available to you for your operations.

If "loss" results from the total theft of a covered "auto" of the private passenger type, we will pay under this coverage only that amount of your rental reimbursement expenses which is not already provided for under the **SECTION III - PHYSICAL DAMAGE COVERAGE, A. 4. Coverage Extension.**

13. AIRBAG COVERAGE

The following is added to **SECTION III - PHYSICAL DAMAGE COVERAGE, B. Exclusions**, paragraph 3.

The portion of this exclusion relating to mechanical or electrical breakdown does not apply to the accidental discharge of an airbag. This coverage is excess of other collectible insurance or warranty. No deductible applies to this Airbag Coverage.

14. AUTO LOAN PHYSICAL DAMAGE EXTENSION

The following is added to **SECTION III - PHYSICAL DAMAGE COVERAGE, C. Limit Of Insurance** provision:

When a "loss" results in a total loss to a covered auto you own for which a Loss Payee is designated in this policy, the most we will pay for "loss" in any one "accident" is the greater of:

1. The actual cash value of the damaged or stolen property as of the time of the "loss"; or
2. The outstanding balance of the initial loan, less any amounts for taxes, overdue payments, overdue payment charges, penalties, interest, any charges for early termination of the loan, costs for Credit Life Insurance, Health, Accident or Disability Insurance purchased with the loan, and carry-over balances from previous loans.

15. AUTO LEASE PHYSICAL DAMAGE EXTENSION

The following is added to **SECTION III - PHYSICAL DAMAGE COVERAGE, C. Limit Of Insurance** provision:

If, because of damage, destruction or theft of a covered "auto", which is a long-term leased "auto", the lease agreement between you and the lessor is terminated, "we" will pay the difference between the amount paid under paragraph **C. LIMIT OF INSURANCE 1. or 2.** and the amount due at the time of "loss" under the terms of the lease agreement applicable to the leased "auto" which you are required to pay: less any fees to dispose of the auto; any overdue payments; financial penalties

imposed under a lease for excessive use, abnormal wear and tear or high mileage; security deposits not refunded by the lessor; cost for extended warranties, Credit Life Insurance, Health, Accident or Disability Insurance purchased with the loan; and carry over balances from previous leases.

This coverage applies only to the initial lease for the covered "auto" which has not previously been leased. This coverage is excess over all other collectible insurance.

SECTION IV - CONDITIONS

16. DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT OR LOSS

The following is added to **SECTION IV - BUSINESS AUTO CONDITIONS, A. Loss Conditions, 2. Duties In The Event Of Accident, Claim, Suit Or Loss:**

- d. Knowledge of any "accident", claim, "suit" or "loss" will be deemed knowledge by you when notice of such "accident", claim, "suit" or "loss" has been received by:
 - (1) You, if you are an individual;
 - (2) Any partner or insurance manager if you are a partnership; or
 - (3) An executive officer or insurance manager if you are a corporation.

17. BLANKET WAIVER OF SUBROGATION

Paragraph **5. Transfer Of Rights Of Recovery Against Others To Us, SECTION IV - BUSINESS AUTO CONDITIONS, A. Loss Conditions** is replaced by the following:

**5. Transfer Of Rights Of Recovery
Against Others To Us**

If any person or organization to or for whom we make payment under this Coverage Form has rights to recover damages from another, which have not been waived through the execution of an "insured contract", written agreement, or permit, prior to the "accident" or "loss" giving rise to the payment, those rights to recover damages from another are transferred to us. That person or organization must do everything necessary to secure our rights and must do nothing after the "accident" or "loss" to impair them.

**18. UNINTENTIONAL FAILURE TO
DISCLOSE INFORMATION**

The following is added to **SECTION IV BUSINESS AUTO CONDITIONS. B. General Conditions**, paragraph 2. **Concealment, Misrepresentation Or Fraud:**

Your unintentional error in disclosing, or failure to disclose, any material fact existing after the effective date of this Coverage Form shall not prejudice your rights under this Coverage Form. However, this provision does not affect our right to collect additional premium or exercise our right of cancellation or nonrenewal.

**19. HIRED AUTO - WORLDWIDE
COVERAGE**

The following is added to **SECTION IV - Business Auto Conditions, B. General Conditions**, paragraph 7. **Policy Period, Coverage Territory** provision:

- e. Outside the coverage territory described in a., b., c., and d. above for an "accident" or "loss" resulting from the use of a covered "auto" you hire, without a driver, or your employee hires without a driver, at your direction, for the purpose of conducting your business, for a period of 30 days or less, provided the suit is brought within The United States of America or its territories or possessions.

SECTION V - DEFINITIONS

20. MENTAL ANGUISH

Paragraph C. "**Bodily injury**", **SECTION V - DEFINITIONS** is replaced by the following:

- C. "Bodily injury" means bodily injury, sickness or disease sustained by a person including death or mental anguish resulting from any of these.

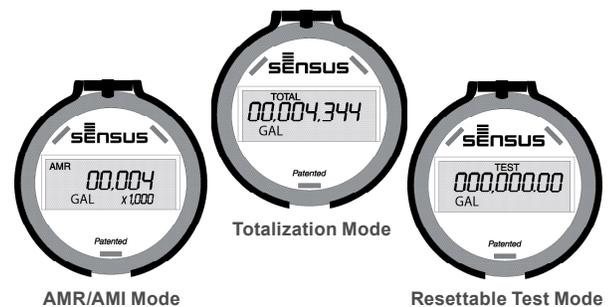
OMNI™ R²

1-1/2" and 2" OMNI R² Meter

Description

1-1/2" and 2" Sizes

The OMNI R² meter operation is based on advanced Floating Ball Technology (FBT).



Features

CONFORMANCE TO STANDARDS

The OMNI R² meter meets and far exceeds the most recent revision of ANSI/AWWA Standard C701 class II standards and exceeds ANSI/AWWA C700 Residential Standard using Sensus Turbo technology. Each meter is performance tested to ensure compliance. All OMNI meters are NSF/ANSI Standard 61, Annex F and G approved.

PERFORMANCE

The patented measurement principles of the OMNI R² meter assure enhanced accuracy ranges, an overall greater accuracy, and a longer service life than any other comparable class meter produced. The OMNI R² meter has no restrictions as to sustained flow rates within its continuous operating range. The floating ball measurement technology allows for flows up to its rated maximum capacity without affecting undue wear or accuracy degradation when installed in any orientation.

CONSTRUCTION

The OMNI R² meter consists of two basic assemblies; the maincase and the measuring chamber. The measuring chamber assembly includes the "floating ball" impeller with a coated titanium shaft, hybrid axial bearings, integral flow straightener and an all electronic programmable register with protective bonnet. The maincase is made from industry proven Ductile Iron with an

approved NSF epoxy coating. Maincase features are; easily removable measuring chamber, unique chamber seal to the maincase using a high pressure o-ring, testing port and a convenient integral strainer.

OMNI ELECTRONIC REGISTER

The OMNI R² electronic register consist of a hermetically sealed register with an electronic pickup containing no mechanical gearing. The large character LCD displays AMR, Totalization and a Resettable Test Totalizer. OMNI register features; AMR resolution units that are fully programmable, Large, easy-to-read LCD also displays both forward and reverse flow directions and all with a 10-year battery life guarantee.

MAGNETIC DRIVE

Meter registration is achieved by utilizing a fully magnetic pickup system. This is accomplished by the magnetic actions of the embedded rotor magnets and the ultra sensitive register pickup probe. The only moving component in water is the "floating ball" impeller.

MEASURING ELEMENT

The revolutionary thermoplastic, hydro dynamically balanced impeller floats between the bearings. The Floating Ball Technology (FBT) allows the measuring element to operate virtually without friction or wear, thus creating the extended upper and lower flow ranges capable on only the OMNI R² meter.

STRAINER

The OMNI R² with the "V" shaped integral strainer using a stainless steel screen along with Floating Ball Technology (FBT) create a design that gives far improved accuracy even in those once thought questionable settings. A removable strainer cover permits easy access to the screen for routine maintenance.

MAINTENANCE

The OMNI R² meter is designed for easy maintenance. Should any maintenance be required, the measuring chamber and/or strainer cover can be removed independently. Parts and or a replacement measuring chamber may be utilized in the event repairs are needed. Replacement Measuring Chambers are available for the OMNI R² meters and may be utilized for retrofitting to competitive meters to achieve increased accuracy and extended service life.

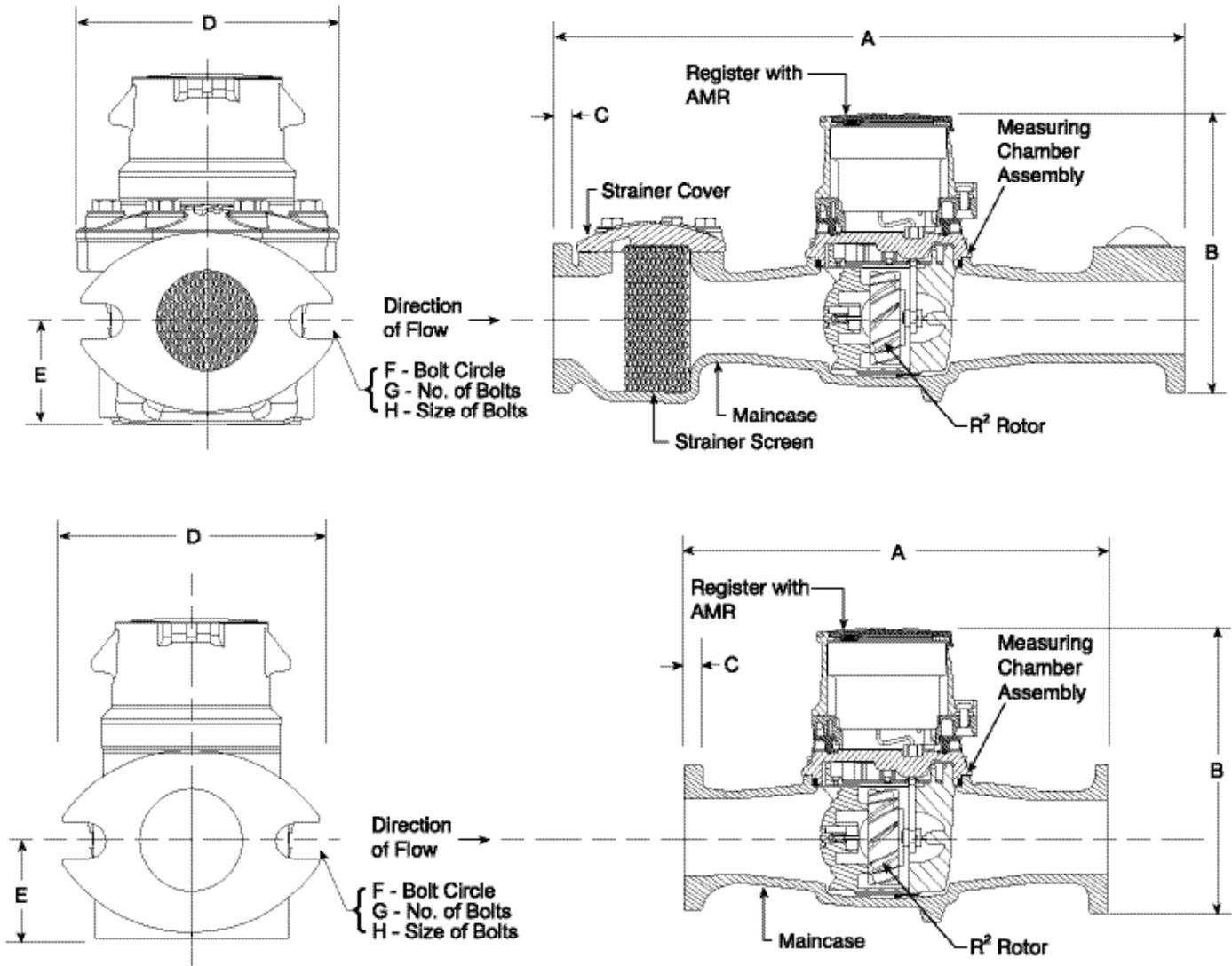
AMR / AMI SYSTEMS

Meters and encoders are compatible with current Sensus AMR/AMI systems.

GUARANTEE

Sensus OMNI R² Meters are backed by "The Sensus Guarantee." Ask your Sensus representative for details or see Bulletin G-500.

OMNI R²: 1-1/2" and 2" Sizes



DIMENSIONS AND NET WEIGHTS

Meter and Pipe Size	Normal Operating Range		Connections	A	B	C	D	E	F	G	H	J	Net Weight	Shipping Weight
1-1/2" DN 40mm	2 gpm .45 m ³ /hr	150 gpm 34 m ³ /hr	Flanged	13" 330mm	7-7/8" 200mm	15/16" 24mm	5-1/8" 130mm	2-5/16" 59mm	4" 102mm	2	5/8" 16mm	1" 25mm	18.8 lbs. 8.53 kg.	22.5 lbs. 10.20 kg.
2" DN 50mm	2.5 gpm .56 m ³ /hr	200 gpm 45 m ³ /hr	Flanged	17" 432mm	7-7/8" 200mm	1" 25mm	5-3/4" 146mm	2-5/16" 59mm	4-1/2" 114mm	2	3/4" 19mm	1" 25mm	27.4 lbs. 12.42 kg.	34.5 lbs. 15.65 kg.
2" without Strainer DN 80mm	2.5 gpm .56 m ³ /hr	250 gpm 57 m ³ /hr	Flanged	10" 254mm	7-7/8" 200mm	1" 25mm	5-3/4" 146mm	2-5/16" 59mm	4-1/2" 114mm	2	3/4" 19mm	1" 25mm	17 lbs. 7.9 kg.	24.5 lbs. 11.11 kg.

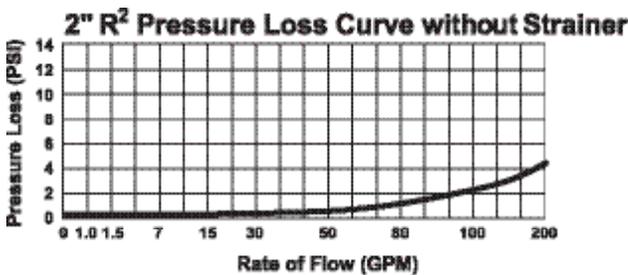
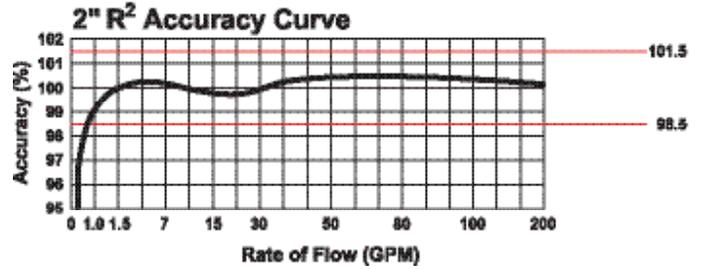
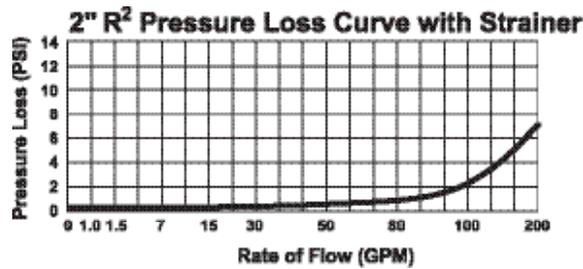
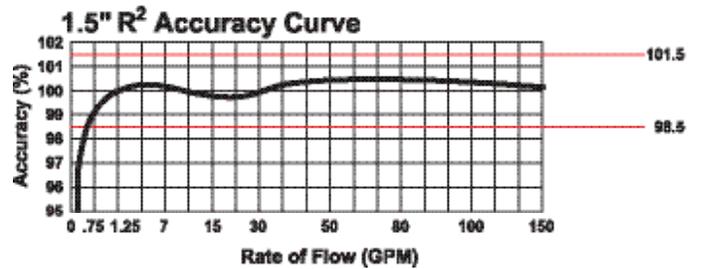
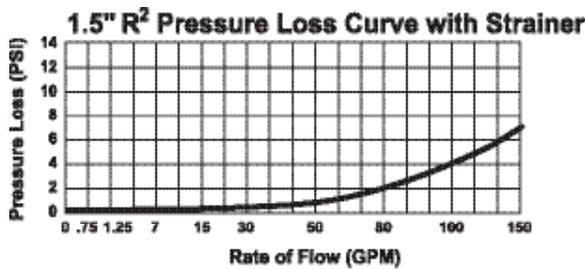
OMNI R²: 1-1/2" and 2" Sizes

SPECIFICATIONS

SERVICE	Measurement of potable and reclaim water. Operating temperature range of 33 °F (.56 °C) - 150 °F (65.6 °C)
OPERATING RANGE (100% ± 1.5%)	1-1/2": 2 – 150 GPM (.45 - 34 m ³ /hr) 2": 2.5 – 200 GPM (.56 – 45 m ³ /hr) 2" without Strainer: 2.5 – 200 GPM (.56 – 45 m ³ /hr)
LOW FLOW (95% – 101.5%)	1-1/2": .75 GPM (.17 m ³ /hr) 2": 1.0 GPM (.23 m ³ /hr) 2" without Strainer: 1.0 GPM (.23 m ³ /hr)
PRESSURE LOSS	1-1/2": 6.7 psi @ 150 GPM (0.46 bar @ 34 m ³ /hr) 2": 7.0 psi @ 200 GPM (.48 bar @ 45 m ³ /hr)
MAXIMUM OPERATING PRESSURE	200 PSI (13.8 bar)

FLANGE CONNECTIONS	U.S. ANSI B16.1 / AWWA Class 125	
REGISTER	Fully electronic sealed register with programmable registration (Gal. /Cu.Ft./ Cu. Mtr. / Imp.Gal / Acre Ft.) Programmable AMR/AMI reading output Guaranteed 10 year battery life	
NSF APPROVED MATERIALS	Maincase:	Coated Ductile Iron
	Measuring Chamber:	Thermoplastic
	Rotor "Floating Ball":	Thermoplastic
	Radial Bearings:	Hybrid Thermoplastic
	Thrust Bearings:	Sapphire/Ceramic Jewel
	Magnets:	Ceramic Magnet
	Strainer Screen:	Stainless Steel
	Strainer Cover:	Coated Ductile Iron
	Test Plug:	Coated Ductile Iron

Headloss Curves



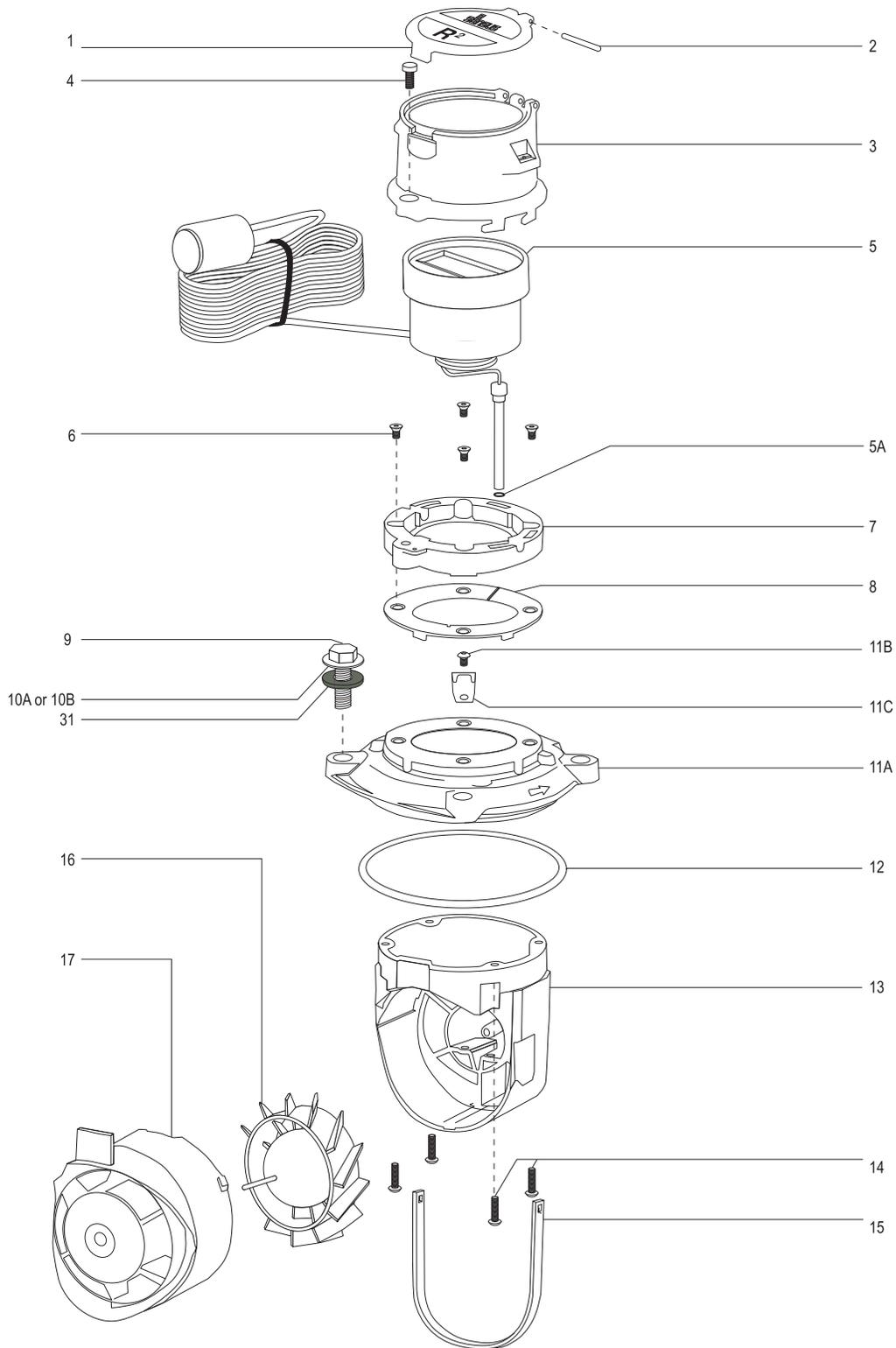
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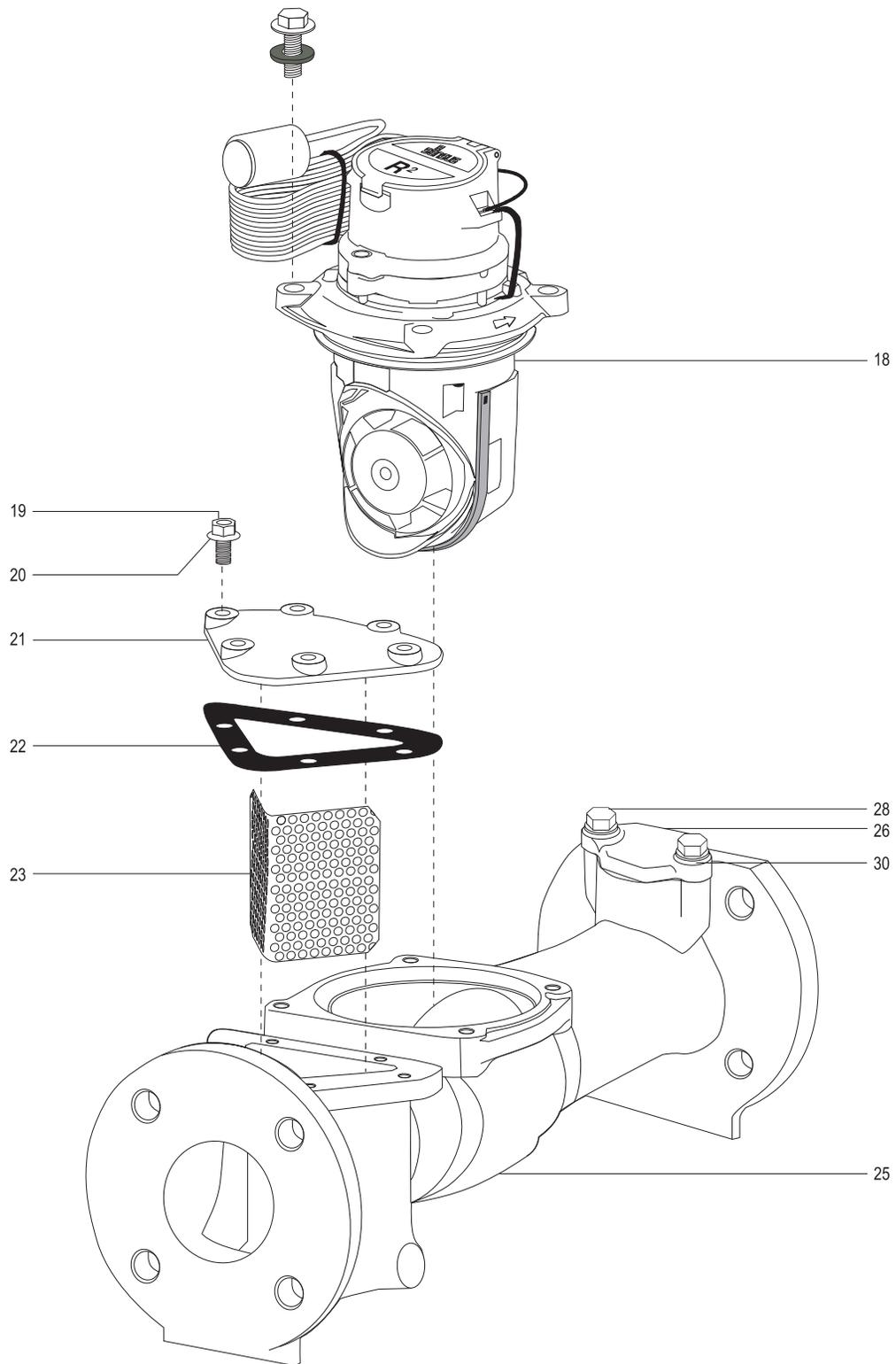
OMNI R²: 1 1/2" and 2"



OMNI R²: 1-1/2" and 2"



OMNI R²: 1-1/2" and 2"



OMNI R²: 1-1/2" and 2"

ILL. No.	Name of Part
1	R2 Bonnet Lid
2	Hinge Pin
3	Bonnet
4	Bonnet Seal Screw
5	Register w/ AMR and Pulse Wire
5A	Register Probe O-Ring
6	Locking Ring Screw
7	Locking Ring
8	Fixing Ring
9	Chamber Cover Bolt
10A	Chamber Cover Bolt Washer
10B	Chamber Cover Bolt Washer 316SS
11A	Chamber Cover
11B	Screw — Spring Hold Down
11C	Spring
12	Chamber Cover O-Ring
13	Measuring Insert with Brg and Thrust Assy
14	Measuring Chamber Screw
15	Chamber Seal Gasket
16	R2 Rotor and Shaft Assy
17	OMNI Balance Plate w/brg and thrust assy
18	Measuring Chamber Assy
19	Strainer Cover Cap Screw
20	Strainer Cover Bolt Washer
21	Strainer Cover
22	Strainer Cover Gasket
23	Strainer Screen
24	Test Plug — Stainless Steel (not shown)
25	R2 Maincase
26	Test Port Cover
27	Test Port Adapter (not shown)
28	Test Port Cap Screws
29	Test Port O-ring (not shown)
30	Test Port Washer
31	Chamber Cover and Strainer Cover Washer — Black Nylon

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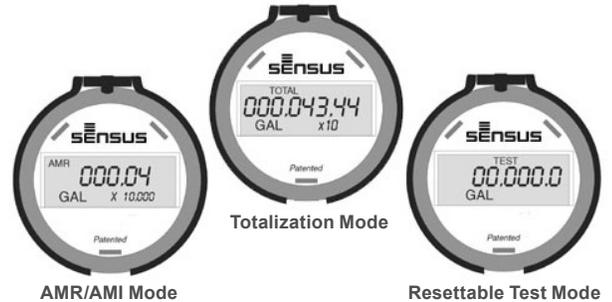
OMNI™ T²

1-1/2", 2", 3", 4", 6", 8" and 10" OMNI T² Meter

Description

1-1/2", 2", 3", 4", 6", 8" and 10" Sizes

The OMNI T² meter operation is based on advanced Floating Ball Technology (FBT).



Features

CONFORMANCE TO STANDARDS

The OMNI T² meter meets and far exceeds the most recent revision of AWWA Standard C701 class II standards. Each meter is performance tested to ensure compliance. All OMNI meters are NSF/ANSI Standard 61, Annex F and G approved.

PERFORMANCE

The patented measurement principles of the OMNI T² meter assure enhanced accuracy ranges, an overall greater accuracy, and a longer service life than any other comparable class meter produced. The OMNI T² meter has no restrictions as to sustained flow rates within its continuous operating range. The floating ball measurement technology allows for flows up to its rated maximum capacity without affecting undue wear or accuracy degradation when installed in any orientation.

CONSTRUCTION

The OMNI T² meter consists of two basic assemblies; the maincase and the measuring chamber. The measuring chamber assembly includes the "floating ball" impeller with a coated titanium shaft, hybrid axial bearings, integral flow straightener and an all electronic programmable register with protective bonnet. The maincase is made from industry proven Ductile Iron with an approved NSF epoxy coating. Maincase features are; easily removable measuring chamber, unique chamber seal to the maincase using a high pres-

sure o-ring, testing port and a convenient integral strainer.

OMNI ELECTRONIC REGISTER

The OMNI T² electronic register consist of a hermetically sealed register with an electronic pickup containing no mechanical gearing. The large character LCD displays AMR, Totalization and a Resettable Test Totalizer. OMNI register features; AMR resolution units that are fully programmable, Pulse output frequency that are fully programmable, Integral customer data logging capability, Integral resettable accuracy testing feature compatible with the UniPro Testing Assistant Program, Large, easy-to-read LCD also displays both forward and reverse flow directions and all with a 10-year battery life guarantee.

MAGNETIC DRIVE

Meter registration is achieved by utilizing a fully magnetic pickup system. This is accomplished by the magnetic actions of the embedded rotor magnets and the ultra sensitive register pickup probe. The only moving component in water is the "floating ball" impeller.

MEASURING ELEMENT

The revolutionary thermoplastic, hydro dynamically balanced impeller floats between the bearings. The Floating Ball Technology (FBT) allows the measuring element to operate virtually without friction or wear, thus creating the extended

upper and lower flow ranges capable on only the OMNI T² meter.

STRAINER

The OMNI T² with the "V" shaped integral strainer using a stainless steel screen along with Floating Ball Technology (FBT) create a design that gives far improved accuracy even in those once thought questionable settings. A removable strainer cover permits easy access to the screen for routine maintenance.

MAINTENANCE

The OMNI T² meter is designed for easy maintenance. Should any maintenance be required, the measuring chamber and / or strainer cover can be removed independently. Parts and or a replacement measuring chamber may be utilized in the event repairs are needed. Replacement Measuring Chambers Exchange are available for the OMNI T² meters and may also be utilized for retrofitting to competitive meters to achieve increased accuracy and extended service life.

AMR / AMI SYSTEMS:

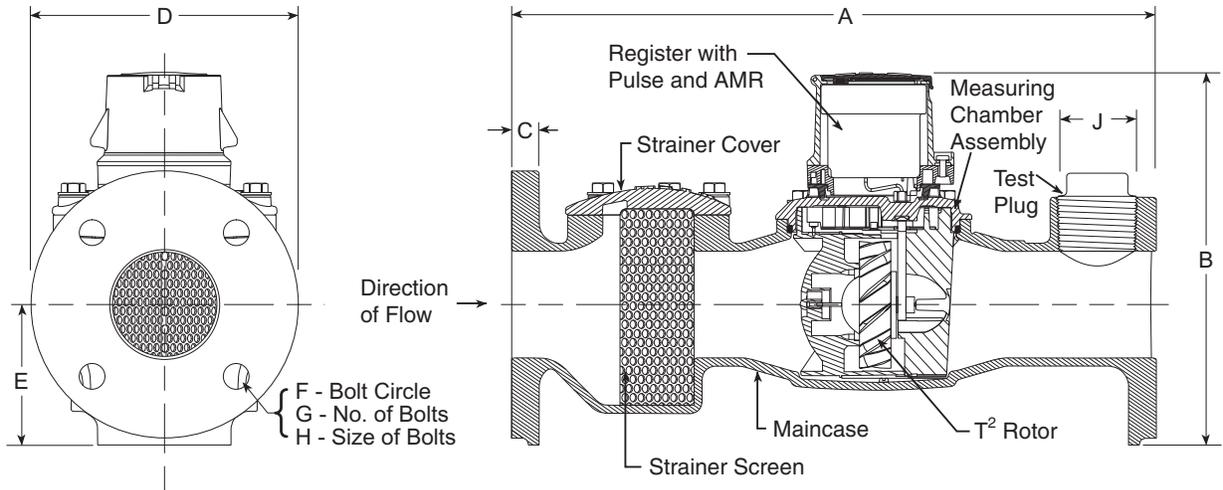
Meters and encoders are compatible with current Sensus AMR/AMI systems.

GUARANTEE:

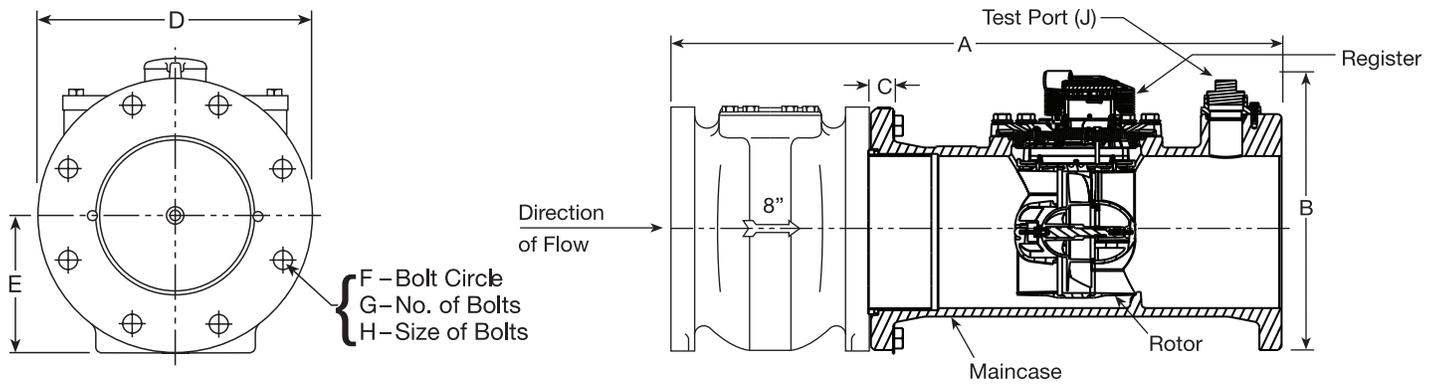
Sensus OMNI T² Meters are backed by "The Sensus Guarantee." Ask your Sensus representative for details or see Bulletin G-500.

OMNI T²: 1-1/2", 2", 3", 4", 6", 8" and 10" Sizes

OMNI T²: 1 1/2" - 6"



OMNI T²: 8" - 10"



DIMENSIONS AND NET WEIGHTS

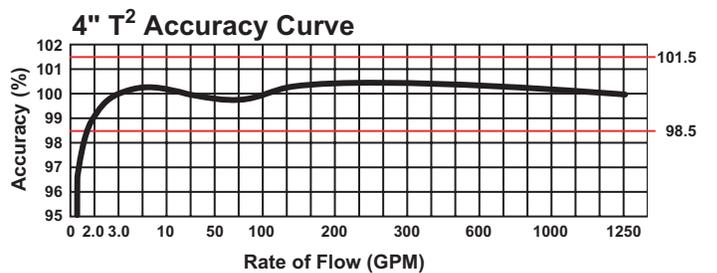
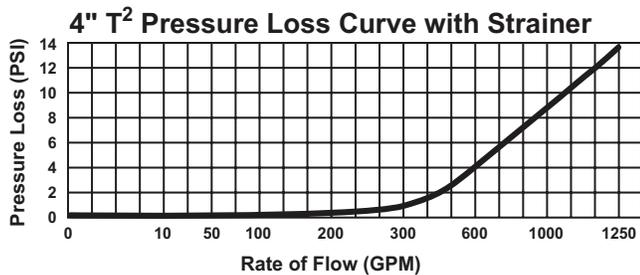
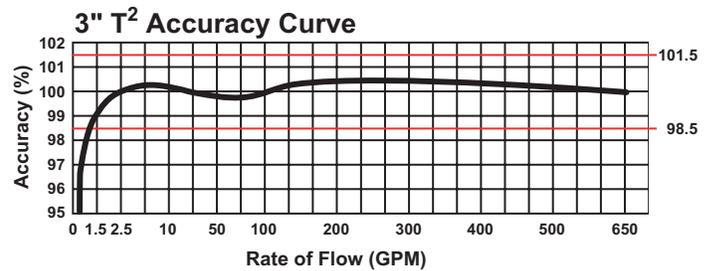
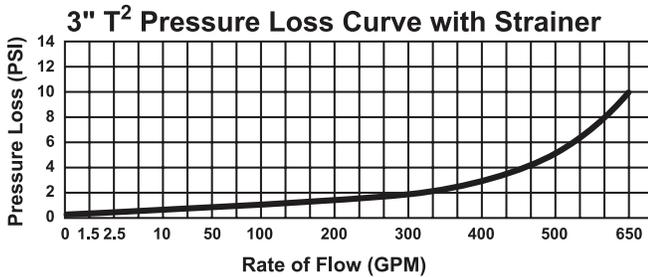
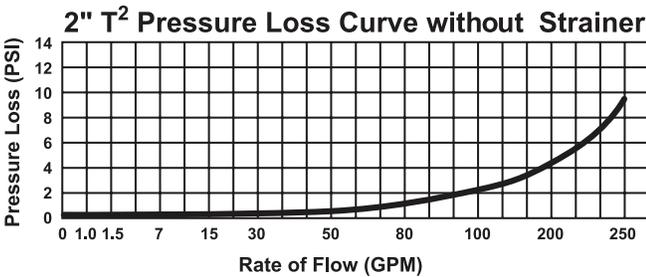
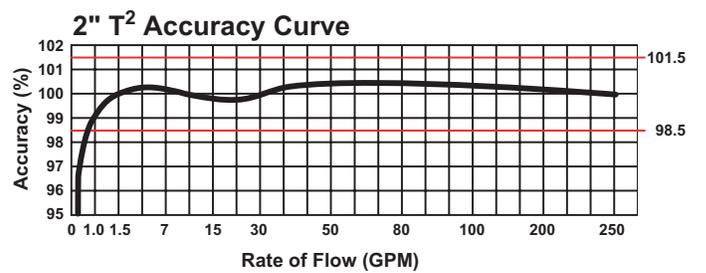
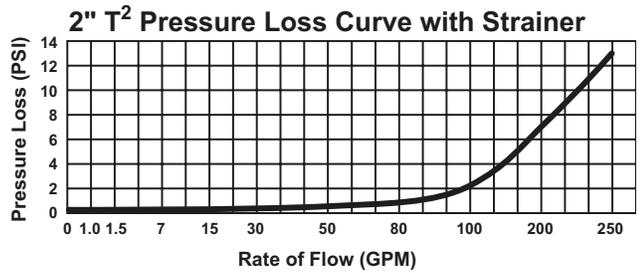
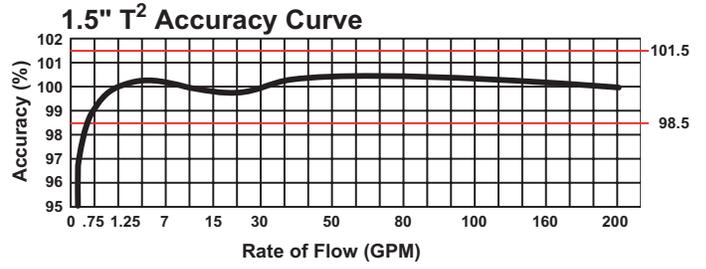
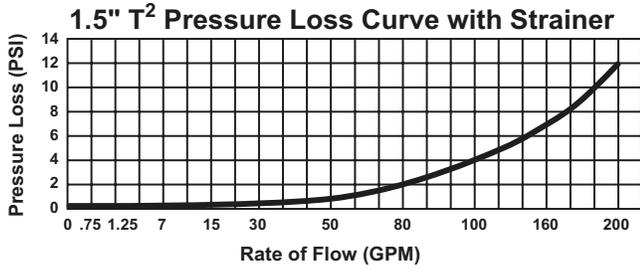
Meter and Pipe Size	Normal Operating Range		Connections	A	B	C	D	E	F	G	H	J	Net Weight	Shipping Weight
1-1/2" DN 40mm	1.25 gpm .28 m ³ /hr	200 gpm 45 m ³ /hr	Flanged	13" 330mm	7-7/8" 200mm	15/16" 24mm	5-1/8" 130mm	2-5/16" 59mm	4" 102mm	2	5/8" 16mm	1" 25mm	18.8 lbs. 8.53 kg..	22.5 lbs. 10.20 kg.
2" DN 50mm	1.5 gpm .34 m ³ /hr	250 gpm 57 m ³ /hr	Flanged	17" 432mm	7-7/8" 200mm	1" 25mm	5-3/4" 146mm	2-5/16" 59mm	4-1/2" 114mm	2	3/4" 19mm	1-1/2" 40mm	27.4 lbs. 12.42 kg.	34.5 lbs. 15.65 kg.
2" without Strainer DN 50mm	1.5 gpm .34 m ³ /hr	250 gpm 57 m ³ /hr	Flanged	10" 254mm	7-7/8" 200mm	1" 25mm	5-3/4" 146mm	2-5/16" 59mm	4-1/2" 114mm	2	3/4" 19mm	N/A	17.4 lbs. 7.9 kg.	24.5 lbs. 11.11 kg.
3" DN 80mm	2.5 gpm .57 m ³ /hr	650 gpm 148 m ³ /hr	Flanged	19" 432mm	8-3/4" 222mm	3/4" 19mm	7-7/8" 200mm	4-1/8" 105mm	6" 153mm	4	5/8" 16mm	2" 50mm	48.5 lbs. 22.00 kg.	57.4 lbs. 26.04 kg.
4" DN 100mm	3.0 gpm .68 m ³ /hr	1250 gpm 284 m ³ /hr	Flanged	23" 584mm	11-3/16" 284mm	15/16" 24mm	9-1/8" 232mm	4-3/4" 121mm	7-1/2" 191mm	8	5/8" 16mm	2" 50mm	67.9 lbs. 30.80 kg.	75.8 lbs. 34.38 kg.
6" DN 150mm	4 gpm .91 m ³ /hr	2500 gpm 568 m ³ /hr	Flanged	27" 685mm	13-1/4" 336mm	15/16" 24mm	11" 279mm	5-3/4" 146mm	9-1/2" 242mm	8	3/4" 19mm	2" 50mm	140 lbs. 52.3 kg.	165 lbs. 61.6 kg.
8" DN 200mm	5 gpm 1.1 m ³ /hr	3500 gpm 795 m ³ /hr	Flanged	30-1/8" 765 mm	15" 381 mm	11/16" 17 mm	13-1/2" 343 mm	6-3/4" 172 mm	11-3/4" 300 mm	8	3/4" 19 mm	2" NPT	471 lbs. 214 kg.	521 lbs. 236 kg.
10" DN 250mm	6 gpm 1.4 m ³ /hr	5500 gpm 1249 m ³ /hr	Flanged	41-1/8"	19" 485mm	11/16" 17mm	16" 406mm	8-1/2" 216mm	14-1/4" 362mm	12	7/8" 22mm	2" NPT	685 lbs. 311 kg.	745 lbs. 338 kg.

OMNI T²: 1-1/2", 2", 3", 4", 6", 8" and 10" Sizes**SPECIFICATIONS**

SERVICE	Measurement of potable and reclaim water. Operating temperature range of 33 °F (56 °C) - 150 °F (65.6 °C)
OPERATING RANGE (100% ± 1.5%)	1-1/2": 1.25 – 200 GPM (.28 - 45 m ³ /hr) 2" and 2" without Strainer: 1.5 – 250 GPM (.34 – 57 m ³ /hr) 3": 2.5 – 650 GPM (.57 – 148 m ³ /hr) 4": 3 – 1250 GPM (.68 – 284 m ³ /hr) 6": 4 – 2500 GPM (.91 – 568 m ³ /hr) 8": 5 – 3500 GPM (1.1-795 m ³ /hr) 10": 6 – 5500 GPM (1.4 - 1249 m ³ /hr)
LOW FLOW (95% – 101.5%)	1-1/2": .75 GPM (.17 m ³ /hr) 2" and 2" without Strainer: 1.0 GPM (.23 m ³ /hr) 3": 1.5 GPM (.34 m ³ /hr) 4": 2.0 GPM (.45 m ³ /hr) 6": 2.5 GPM (.57 m ³ /hr) 8": 4 GPM (0.9 m ³ /hr) 10": 5 GPM (1.1 m ³ /hr)
MAXIMUM CONTINUOUS OPERATION	1-1/2": 160 GPM (36 m ³ /hr) 2" and 2" without Strainer: 200 GPM (45 m ³ /hr) 3": 500 GPM (114 m ³ /hr) 4": 1000 GPM (227 m ³ /hr) 6": 2000 GPM (454 m ³ /hr) 8": 3500 GPM (795 m ³ /hr) 10": 5500 GPM (1249 m ³ /hr)
MAXIMUM INTERMITTENT OPERATION	1-1/2": 200 GPM (45 m ³ /hr) 2" and 2" without Strainer: 250 GPM (57 m ³ /hr) 3": 650 GPM (148 m ³ /hr) 4": 1250 GPM (284 m ³ /hr) 6": 2500 GPM (568 m ³ /hr) 8": 4700 GPM (1067 m ³ /hr) 10": 7000 GPM (1590 m ³ /hr)
PRESSURE LOSS	1-1/2": 6.9 psi @ 160 GPM (48 bar @ 36 m ³ /hr) 2" and 2" without Strainer: 7.0 psi @ 200 GPM (.48 bar @ 45 m ³ /hr) 3": 5.1 psi @ 500 GPM (.35 bar @ 114 m ³ /hr) 4": 8.7 psi @ 1000 GPM (.60 bar @ 227 m ³ /hr) 6": 8.2 psi @ 2000 GPM (.56 bar @ 454 m ³ /hr) 8": 5.1 psi @ 3500 GPM (.35 bar @ 795 m ³ /hr) 10": 7.2 psi @ 5500 GPM (.50 bar @ 1249 m ³ /hr)
MAXIMUM OPERATING PRESSURE	200 PSI (13.8 bar)
FLANGE CONNECTIONS	U.S. ANSI B16.1 / AWWA Class 125
REGISTER	Fully electronic sealed register with programmable registration (Gal. /Cu.Ft. / Cu. Mtr. / Imp.Gal / Acre Ft.) Programmable AMR/AMI reading and pulse outputs Guaranteed 10 year battery life
NSF APPROVED MATERIALS	Maincase: Coated Ductile Iron Measuring Chamber: Thermoplastic Rotor "Floating Ball": Thermoplastic Radial Bearings: Hybrid Thermoplastic Thrust Bearings: Sapphire/Ceramic Jewel Magnets: Ceramic Magnet Strainer Screen: Stainless Steel Strainer Cover: Coated Ductile Iron Test Plug: Coated Ductile Iron

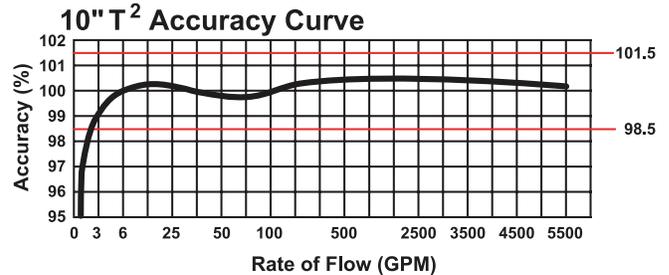
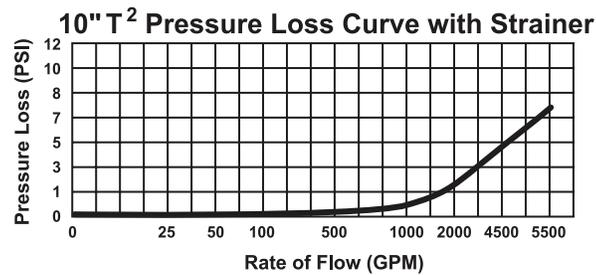
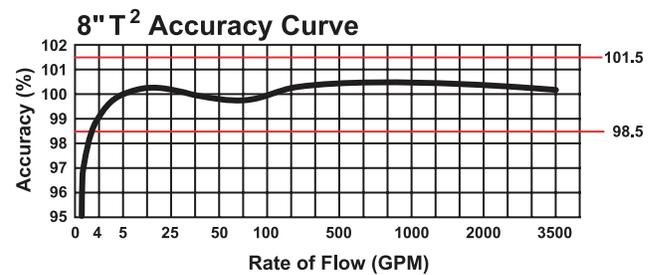
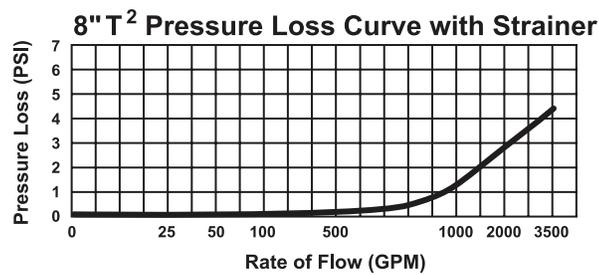
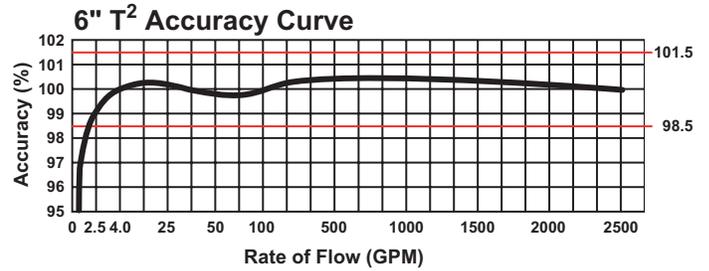
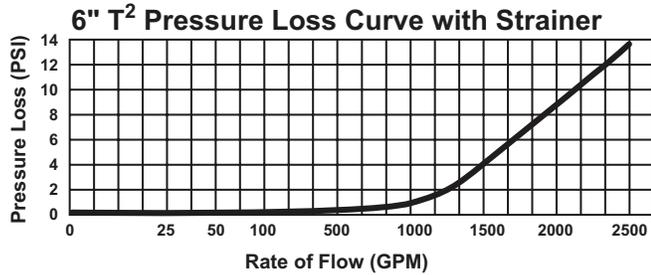
OMNI T²: 1-1/2", 2", 3", 4", 6", 8" and 10" Sizes

Headloss Curves



OMNI T²: 1-1/2", 2", 3", 4", 6", 8" and 10" Sizes

Headloss Curves



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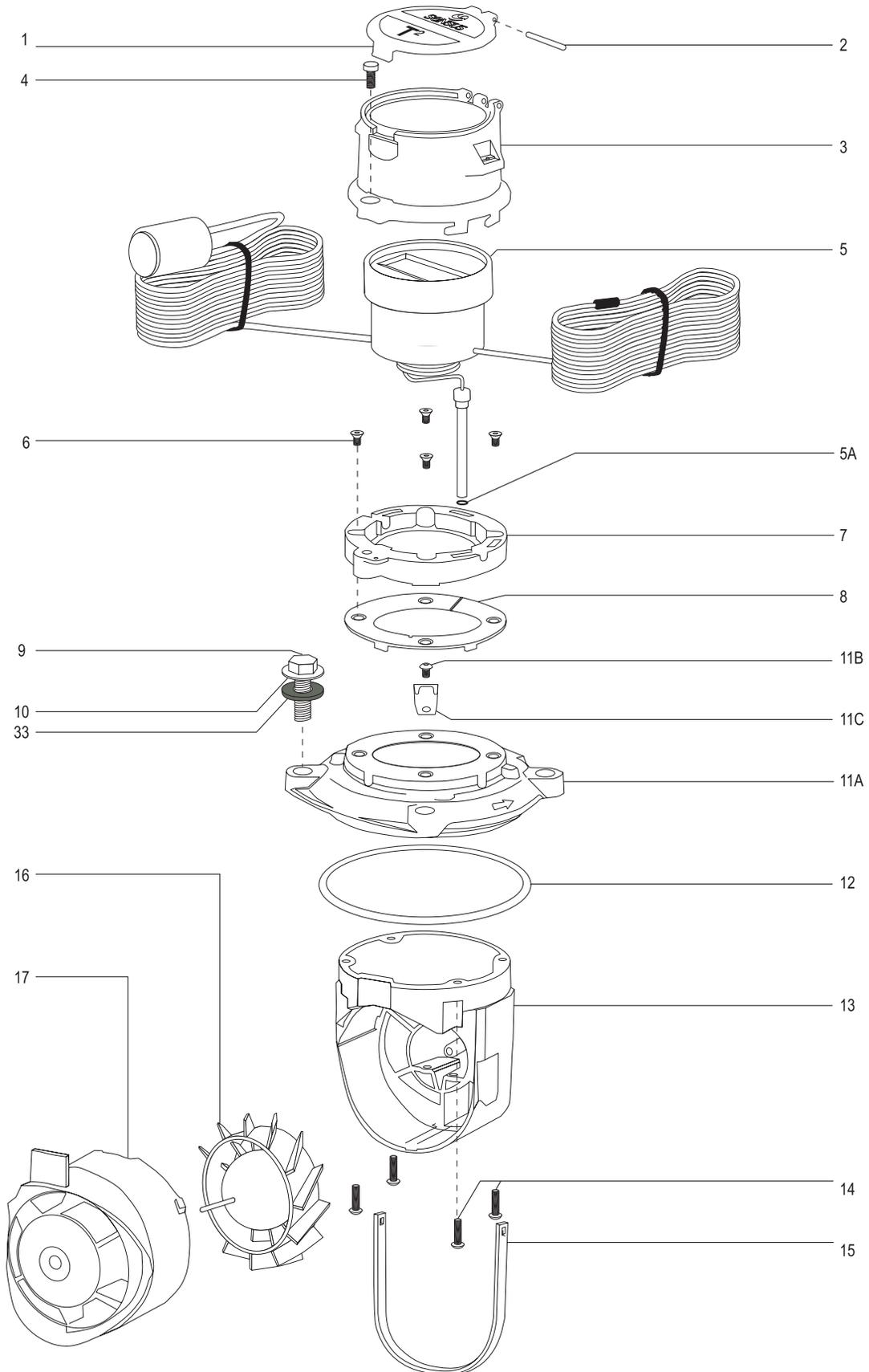
OMNI™ T²

Parts List

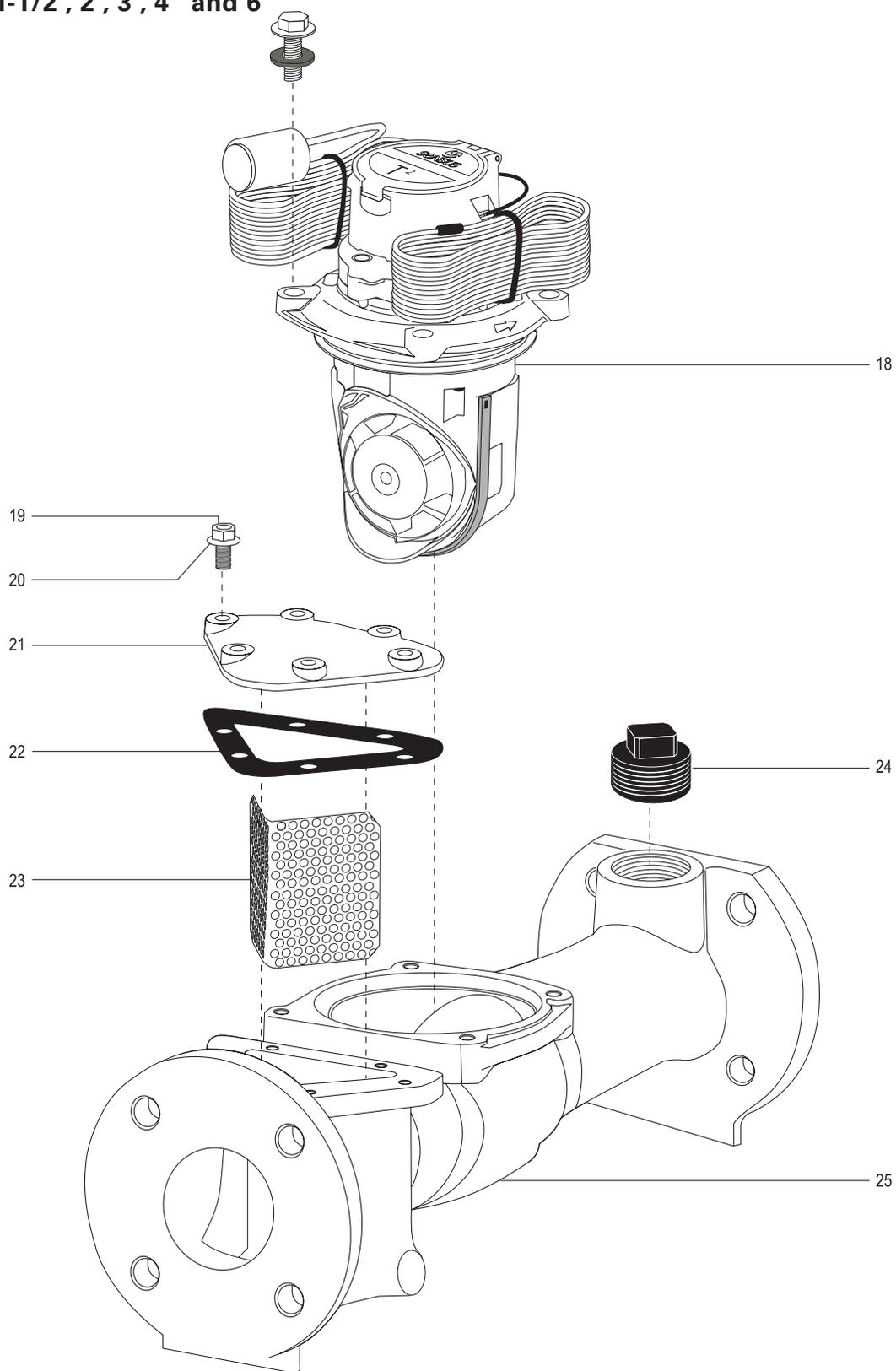
OMNIT²: 1-1/2", 2", 3", 4", 6", 8" and 10"



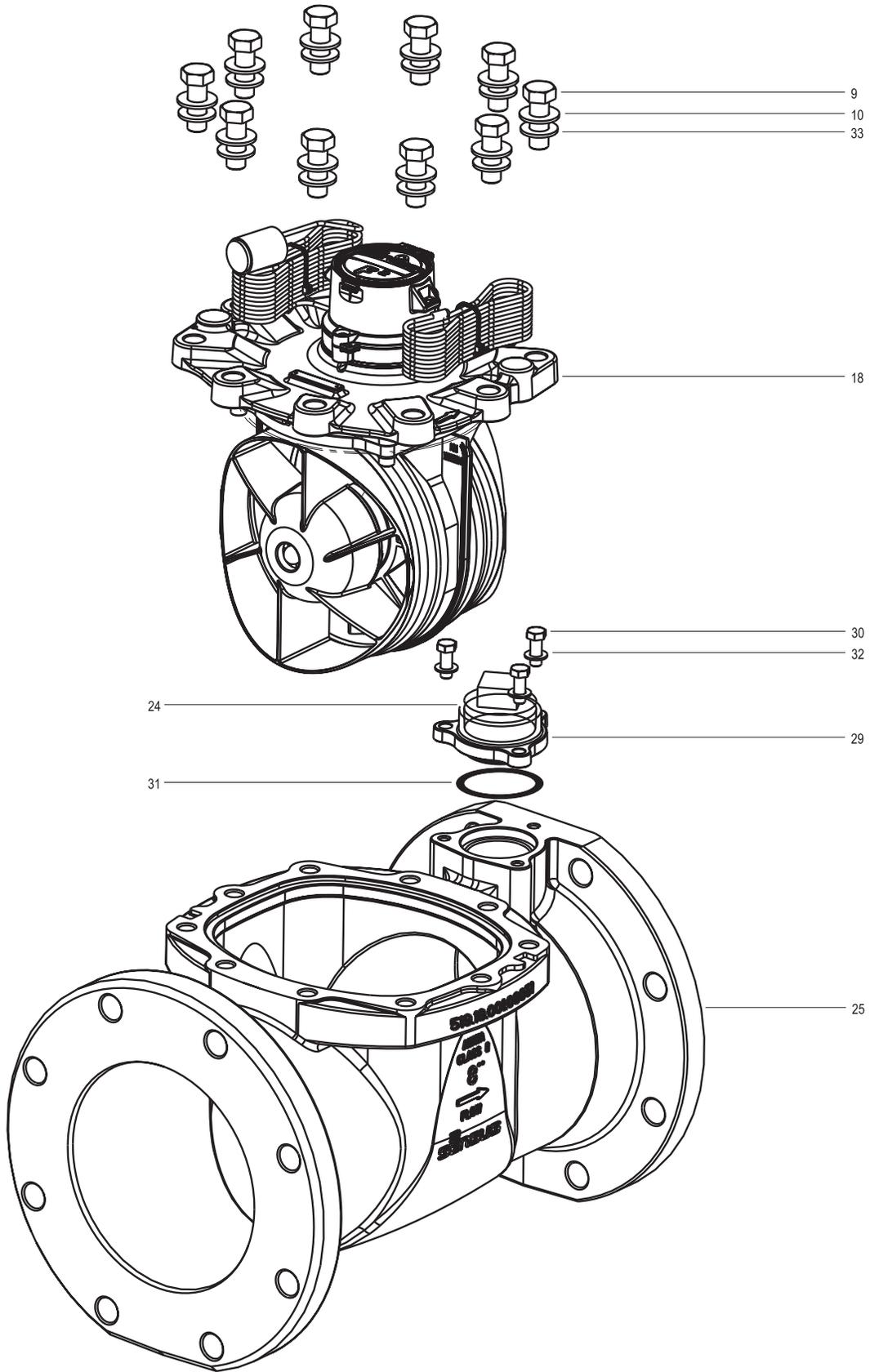
OMNIT²: 1-1/2", 2", 3", 4" and 6"



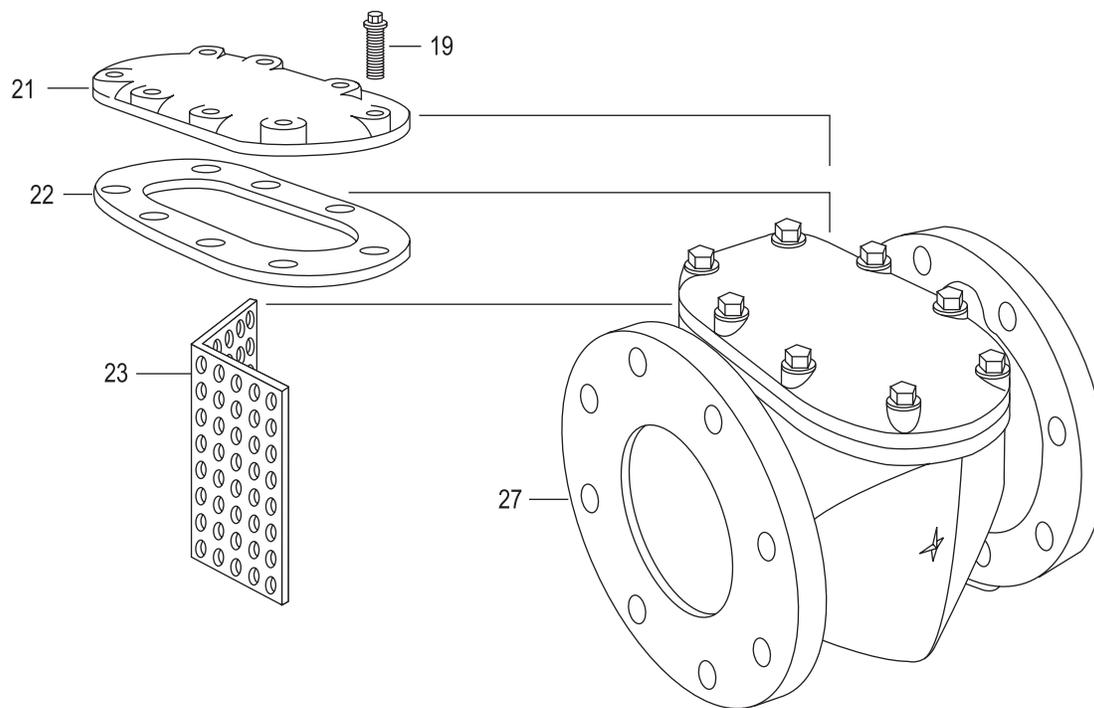
OMNIT²: 1-1/2", 2", 3", 4" and 6"



OMNIT²: 8" and 10"



OMNIT²: 8" and 10"



OMNIT²: 1-1/2", 2", 3", 4" and 6"

ILL. No.	Name of Part
1	T2 Bonnet Lid
2	Hinge Pin
3	Bonnet
4	Bonnet Seal Screw
5	Register
5A	Pick-Up Probe O-Ring
6	Locking Ring Screw
7	Locking Ring
8	Fixing Ring
9	Chamber Cover Bolt
10	Chamber Cover Bolt Washer
11A	Chamber Cover
11B	Screw, Spring Hold Down
11C	Spring
12	Chamber Cover O-Ring or Gasket
13	Measuring Insert
14	Measuring Insert Screw
15	Chamber Seal Gasket
16	T2 Rotor
17	T2 Balance Plate
18	Measuring Chamber
19	Strainer Cover Cap Screw
20	Strainer Cover Bolt Washer
21	Strainer Cover
22	Strainer Cover Gasket
23	Strainer Screen
24	Test Plug
25	T2 Maincase
27	Strainer Body
28	Test Port Cap (not shown)
29	Test Port Cap Adapter
30	Test Port Cap Screws
31	Test Port O-Ring
32	Test Port Washer
33	Chamber Cover Washer — Black Nylon



OMNI™ C²

1-1/2", 2", 3", 4", 6", 8" and 10" OMNI C² Meter

Description

1-1/2", 2", 3", 4", 6", 8" and 10" Sizes

The OMNI C² meter operation is based on advanced Floating Ball Technology (FBT).



Features

CONFORMANCE TO STANDARDS

The OMNI C² meter meets and far exceeds the most recent revision of AWWA Standard C701 and C702 class II. Additionally, the meter does not require a valve to meet these standards. Each meter is performance tested to ensure compliance. All OMNI meters are NSF/ANSI Standard 61, Annex F and G approved latest standards.

PERFORMANCE

The patented measurement principles of the OMNI C² meter assure enhanced accuracy ranges, an overall greater accuracy, and a longer service life than any other comparable class meter produced. The OMNI C² meter has no restrictions as to sustained flow rates within its continuous operating range. The floating ball measurement technology allows for flows up to its rated maximum capacity without undue wear or accuracy degradation when installed in any orientation.

CONSTRUCTION

The OMNI C² meter consists of two basic assemblies; the maincase and the measuring chamber. The measuring chamber assembly includes the "floating ball" impeller with a coated titanium shaft, hybrid axial bearings, integral flow straightener and an all electronic programmable register with protective bonnet. The maincase is made from industry proven Ductile Iron with an approved NSF epoxy coating. Maincase features are; easily removable measuring chamber, unique chamber seal to the

maincase using a high pressure o-ring, testing port and an AWWA compliant strainer.

OMNI ELECTRONIC REGISTER

The OMNI C² electronic register is hermetically sealed with an electronic pickup containing no mechanical gearing. The large character LCD displays AMR, Totalization and a Resettable Test Totalizer. OMNI register features; AMR resolution units that are fully programmable, Pulse output frequency that are fully programmable, Integral customer data logging capability, Integral resettable accuracy testing feature compatible with UniPro Testing Assistant Program, Large, easy-to-read LCD also displays both forward and reverse flow directions and all with a 10-year battery life guarantee.

MAGNETIC DRIVE

Meter registration is achieved by utilizing a fully magnetic pickup system. This is accomplished by the magnetic actions of the embedded rotor magnets and the ultra sensitive register pickup probe. The only moving component in water is the "floating ball" impeller.

MEASURING ELEMENT

The revolutionary thermoplastic, hydrodynamically balanced impeller floats between the bearings. The Floating Ball Technology (FBT) allows the measuring element to operate virtually without friction or wear, thus creating the extended upper and lower flow ranges capable on only the OMNI C² meter.

STRAINER

The OMNI C² with the AWWA compliant "V" shaped strainer using a stainless steel screen along with Floating Ball Technology (FBT) create a design that gives far improved accuracy even in those once thought questionable settings. A removable strainer cover permits easy access to the screen for routine maintenance.

MAINTENANCE

The OMNI C² meter is designed for easy maintenance. Should any maintenance be required, the measuring chamber and / or strainer cover can be removed independently. Parts and or a replacement measuring chamber may be utilized in the event repairs are needed. Replacement Measuring Chambers are available for the OMNI C² meters and may also be utilized for retrofitting to competitive meters to achieve increased accuracy and extended service life.

AMR / AMI SYSTEMS:

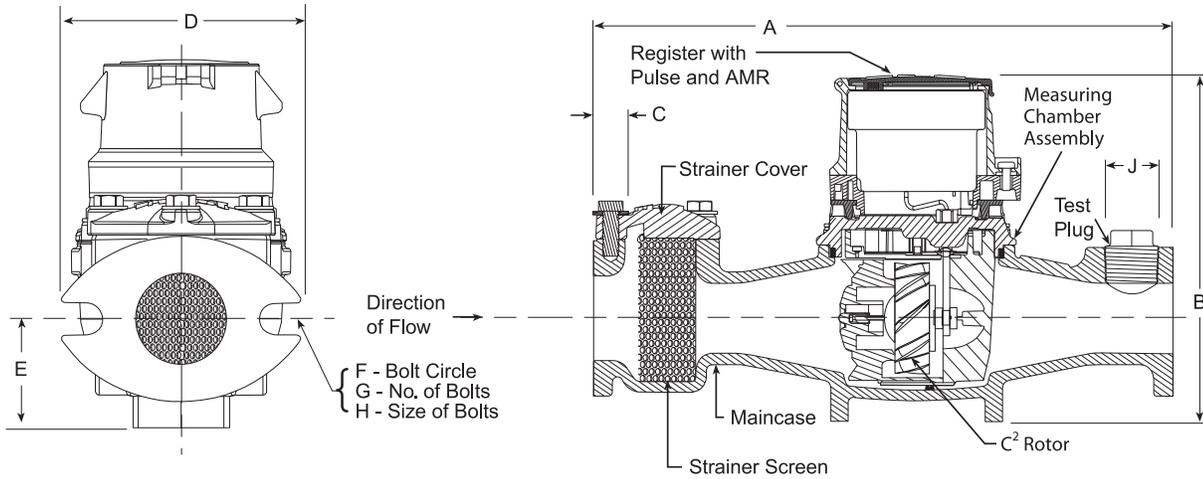
Meters and encoders are compatible with current Sensus AMR/AMI systems.

GUARANTEE:

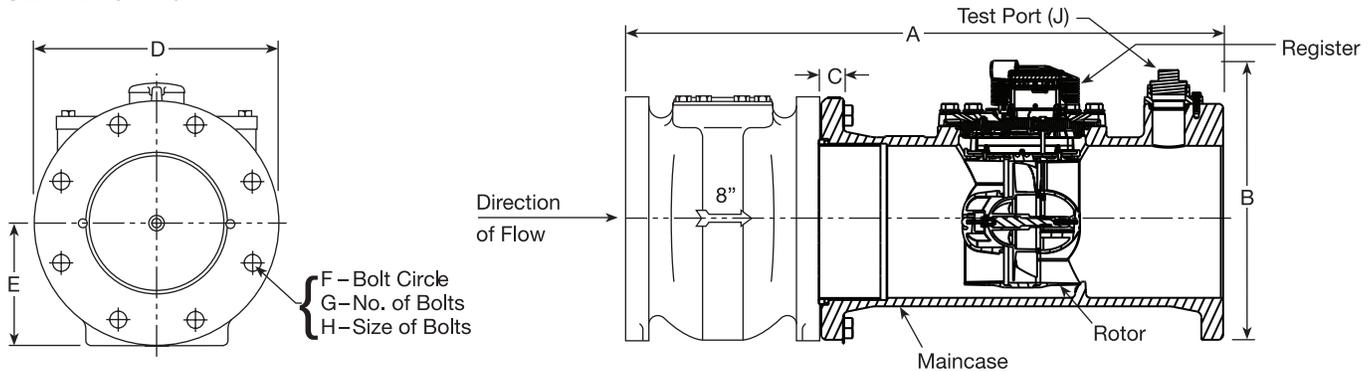
Sensus OMNI C² Meters are backed by "The Sensus Guarantee." Ask your Sensus representative for details or see Bulletin G-500.

OMNI C²: 1-1/2", 2", 3", 4", 6", 8" and 10" Sizes

OMNI C²: 1 1/2" - 6"



OMNI C²: 8" - 10"



DIMENSIONS AND NET WEIGHTS

Meter and Pipe Size	Normal Operating Range		Connections	A	B	C	D	E	F	G	H	J	Net Weight	Shipping Weight
1-1/2" DN 40mm	.5 gpm .11 m ³ /hr	200 gpm 45 m ³ /hr	Flanged	13" 330mm	7-7/8" 200mm	15/16" 24mm	5-1/8" 130mm	2-5/16" 59mm	4" 102mm	2	5/8" 16mm	1" 25mm	18.8 lbs. 8.53 kg.	22.5 lbs. 10.20 kg.
2" DN 50mm	.5 gpm .11 m ³ /hr	200 gpm 45 m ³ /hr	Flanged	15-1/4" 387mm	7-7/8" 200mm	1" 25mm	5-3/4" 146mm	2-5/16" 59mm	4-1/2" 114mm	2	3/4" 19mm	1" 25mm	25.4 lbs. 11.39 kg.	32.5 lbs. 14.74 kg.
3" DN 80mm	1 gpm .23 m ³ /hr	500 gpm 114 m ³ /hr	Flanged	17" 432mm	8-3/4" 222mm	3/4" 19mm	7-7/8" 200mm	4-1/8" 105mm	6" 153mm	4	5/8" 16mm	1" 25mm	45 lbs. 20.41 kg.	72.8 lbs. 33.02 kg.
4" DN 100mm	1.5 gpm .34 m ³ /hr	1000 gpm 227 m ³ /hr	Flanged	20" 508mm	11-3/16" 284mm	15/16" 24mm	9-1/8" 232mm	4-3/4" 121mm	7-1/2" 191mm	8	5/8" 16mm	1-1/2" 40mm	64.9 lbs. 29.44 kg.	72.8 lbs. 33.02 kg.
6" DN 150mm	3 gpm .68 m ³ /hr	2500 gpm 5687 m ³ /hr	Flanged	24" 610mm	13-1/4" 336mm	15/16" 24mm	11" 279mm	5-3/4" 146mm	9-1/2" 242mm	8	3/4" 19mm	1-1/2" 40mm	130 lbs. 48.5 kg.	155 lbs. 57.8 kg.
8" DN 200mm	4 gpm .91 m ³ /hr	2700 gpm 614 m ³ /hr	Flanged	30-1/8" 765 mm	15" 381 mm	11/16" 17 mm	13-1/2" 343 mm	6-3/4" 172 mm	11-3/4" 300 mm	8	3/4" 19 mm	2" NPT	471 lbs. 214 kg.	521 lbs. 236 kg.
10" DN 250mm	5 gpm 1.1 m ³ /hr	4000 gpm 908 m ³ /hr	Flanged	41-1/8" 1045mm	19" 485mm	11/16" 17mm	16" 406mm	8-1/2" 216mm	14-1/4" 362mm	12	7/8" 22mm	2" NPT	685 lbs. 311 kg.	745 lbs. 338 kg.

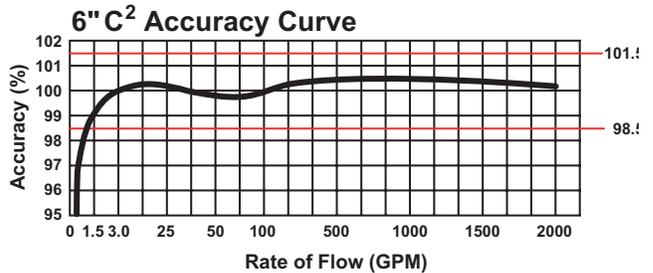
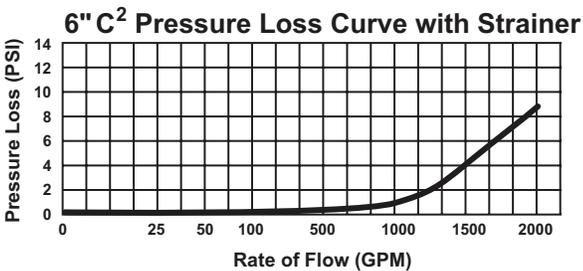
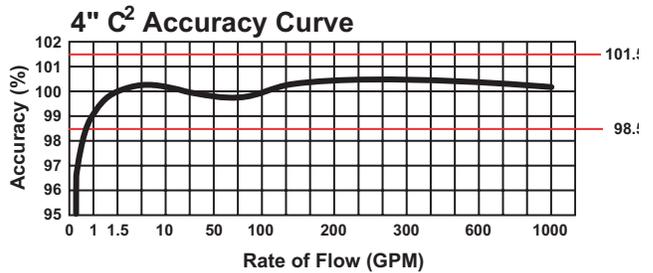
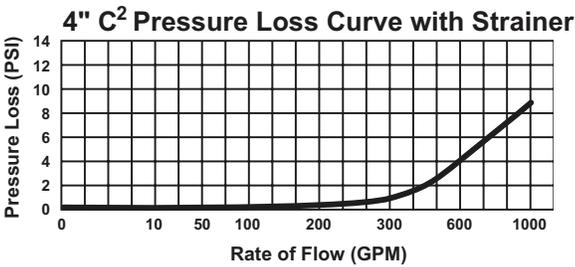
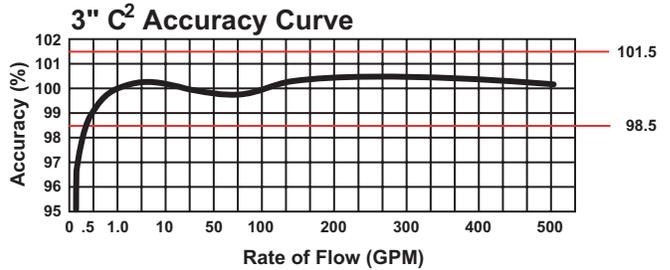
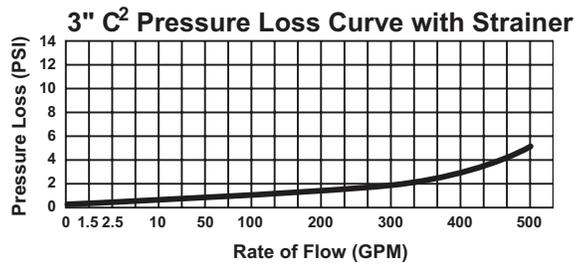
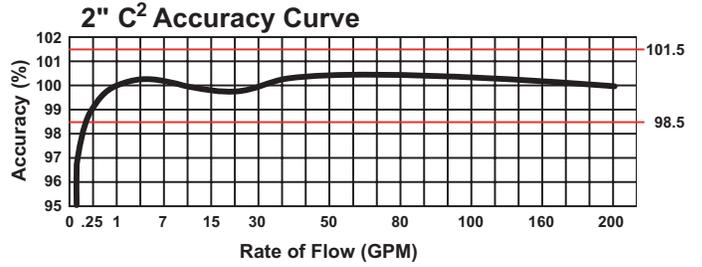
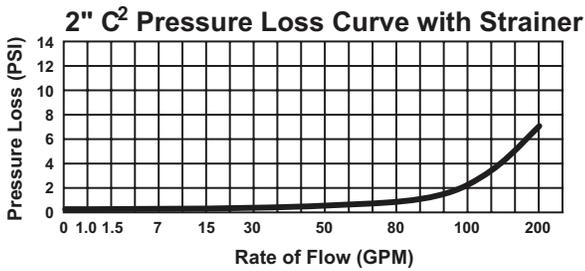
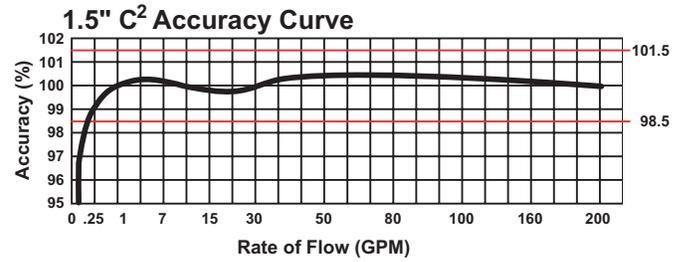
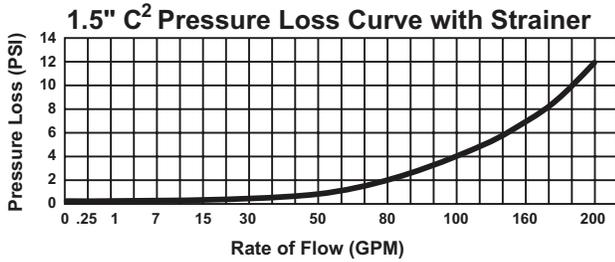
OMNI C²: 1-1/2", 2", 3", 4", 6", 8" and 10" Sizes

SPECIFICATIONS

SERVICE	Measurement of potable and reclaim water. Operating temperature range of 33 °F (56 °C) - 150 °F (65.6 °C)
OPERATING RANGE (100% ± 1.5%)	1-1/2": .5 – 200 GPM (.11 - 45 m ³ /hr) 2": .5 – 200 GPM (.11 - 45 m ³ /hr) 3": 1.0 – 500 GPM (.23 - 114 m ³ /hr) 4": 1.5 – 1000 GPM (.34 - 227 m ³ /hr) 6": 3 – 2000 GPM (.68 - 454 m ³ /hr) 8": 4 – 2700 GPM (0.91 – 614 m ³ /hr) 10": 5-4000 GPM (1.1-908 m ³ /hr)
LOW FLOW (95% – 101.5%)	1-1/2": .25 GPM (.06 m ³ /hr) 2": .25 GPM (.06 m ³ /hr) 3": .5 GPM (.11 m ³ /hr) 4": .75 GPM (.17 m ³ /hr) 6": 1.5 GPM (.34 m ³ /hr) 8": 2.5 GPM (0.57 m ³ /hr) 10": 3.5 GPM (0.8 m ³ /hr)
MAXIMUM CONTINUOUS OPERATION	1-1/2": 160 GPM (36m ³ /hr) 2": 160 GPM (36 m ³ /hr) 3": 400 GPM (91 m ³ /hr) 4": 800 GPM (182 m ³ /hr) 6": 1600 GPM (363 m ³ /hr) 8": 2700 GPM (614 m ³ /hr) 10": 4000 GPM (908 m ³ /hr)
MAXIMUM INTERMITTENT OPERATION	1-1/2": 200 GPM (45 m ³ /hr) 2": 200 GPM (45 m ³ /hr) 3": 500 GPM (114 m ³ /hr) 4": 1000 GPM (227 m ³ /hr) 6": 2000 GPM (454 m ³ /hr) 8": 3400 GPM (773 m ³ /hr) 10": 5000 GPM (1136 m ³ /hr)
PRESSURE LOSS	1-1/2": 6.9 psi @ 160 GPM (48 bar @ 36 m ³ /hr) 2": 4.3 psi @ 160 GPM (.30 bar @ 36 m ³ /hr) 3": 3.2 psi @ 400 GPM (.22 bar @ 91 m ³ /hr) 4": 6.4 psi @ 800 GPM (.51 bar @ 182 m ³ /hr) 6": 5.5 psi @ 1600 GPM (.56 bar @ 363 m ³ /hr) 8": 4 psi @ 2700 GPM (.27 bar @ 614 m ³ /hr) 10": 4.5 psi @ 4000 GPM (.31 bar @ 908 m ³ /hr)
MAXIMUM OPERATING PRESSURE	200 PSI (13.8 bar)
FLANGE CONNECTIONS	U.S. ANSI B16.1 / AWWA Class 125
REGISTER	Fully electronic sealed register with programmable registration (Gal. /Cu.Ft./ Cu. Mtr. / Imp.Gal / Acre Ft.) Programmable AMR/AMI reading and pulse outputs Guaranteed 10 year battery life
NSF APPROVED MATERIALS	Maincase: Coated Ductile Iron Measuring Chamber: Thermoplastic Rotor "Floating Ball": Thermoplastic Radial Bearings: Hybrid Thermoplastic Thrust Bearings: Sapphire/Ceramic Jewel Magnets: Ceramic Magnet Strainer Screen: Stainless Steel Strainer Cover: Coated Ductile Iron Test Plug: Coated Ductile Iron

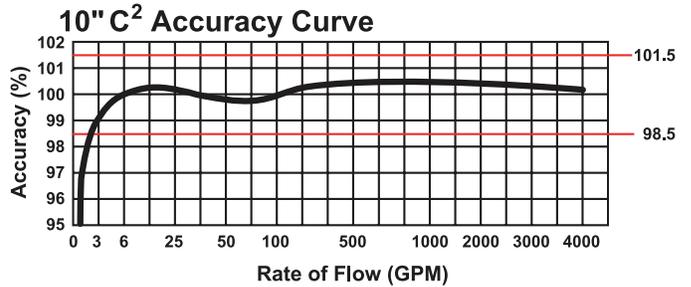
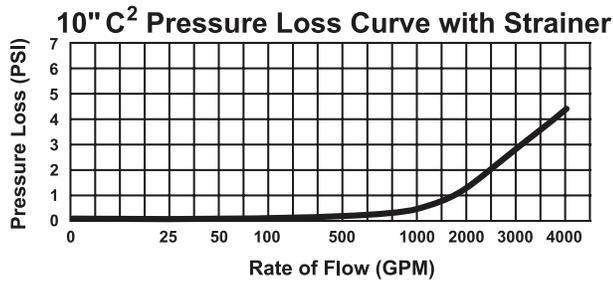
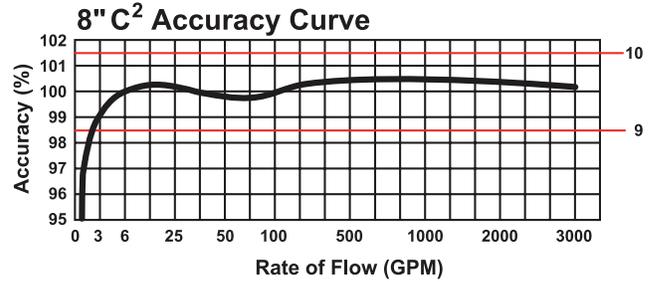
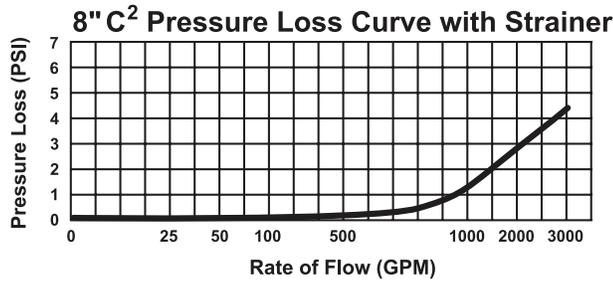
OMNI C²: 1-1/2", 2", 3", 4", and 6" Sizes

Headloss Curves



OMNI C²: 8” and 10” Sizes

Headloss Curves



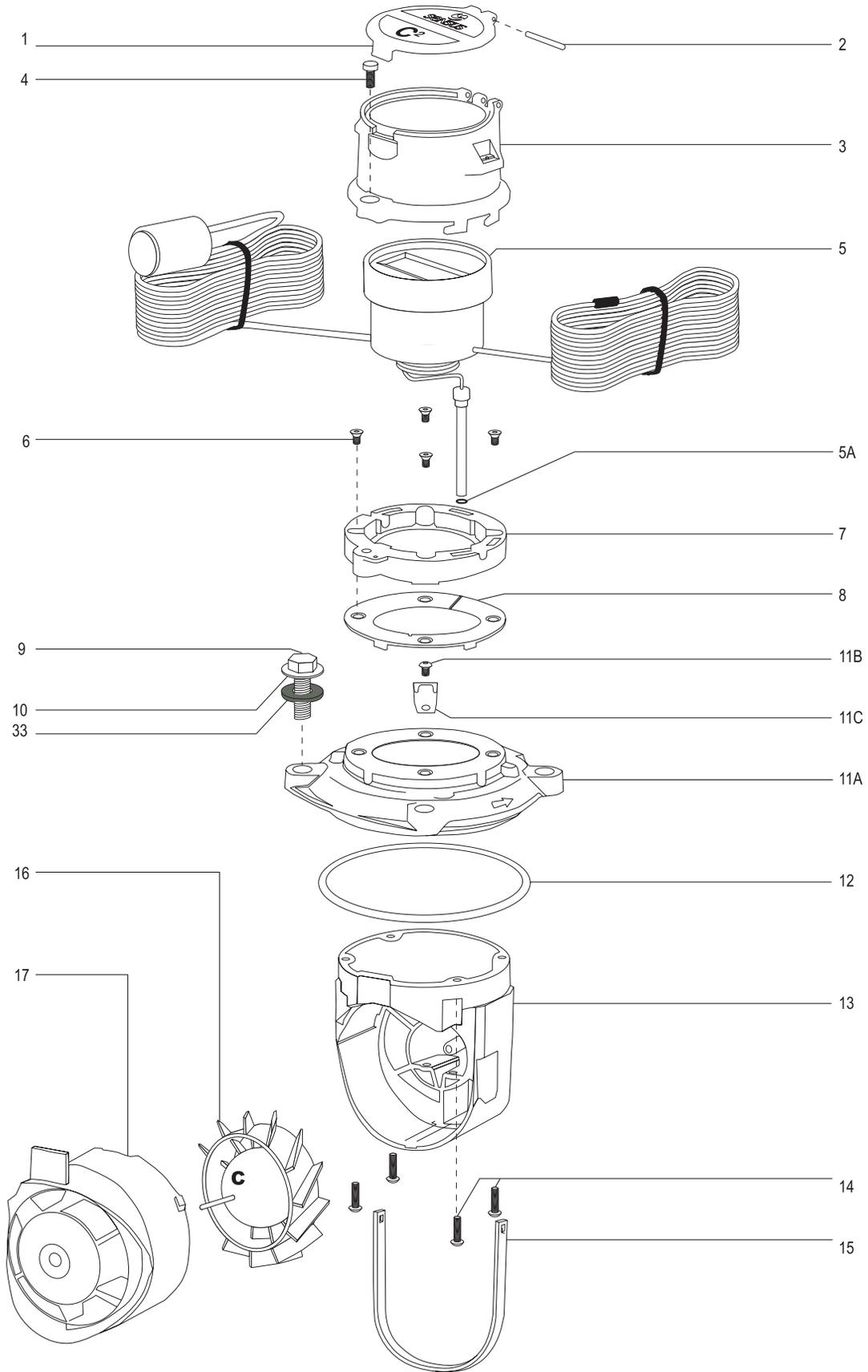
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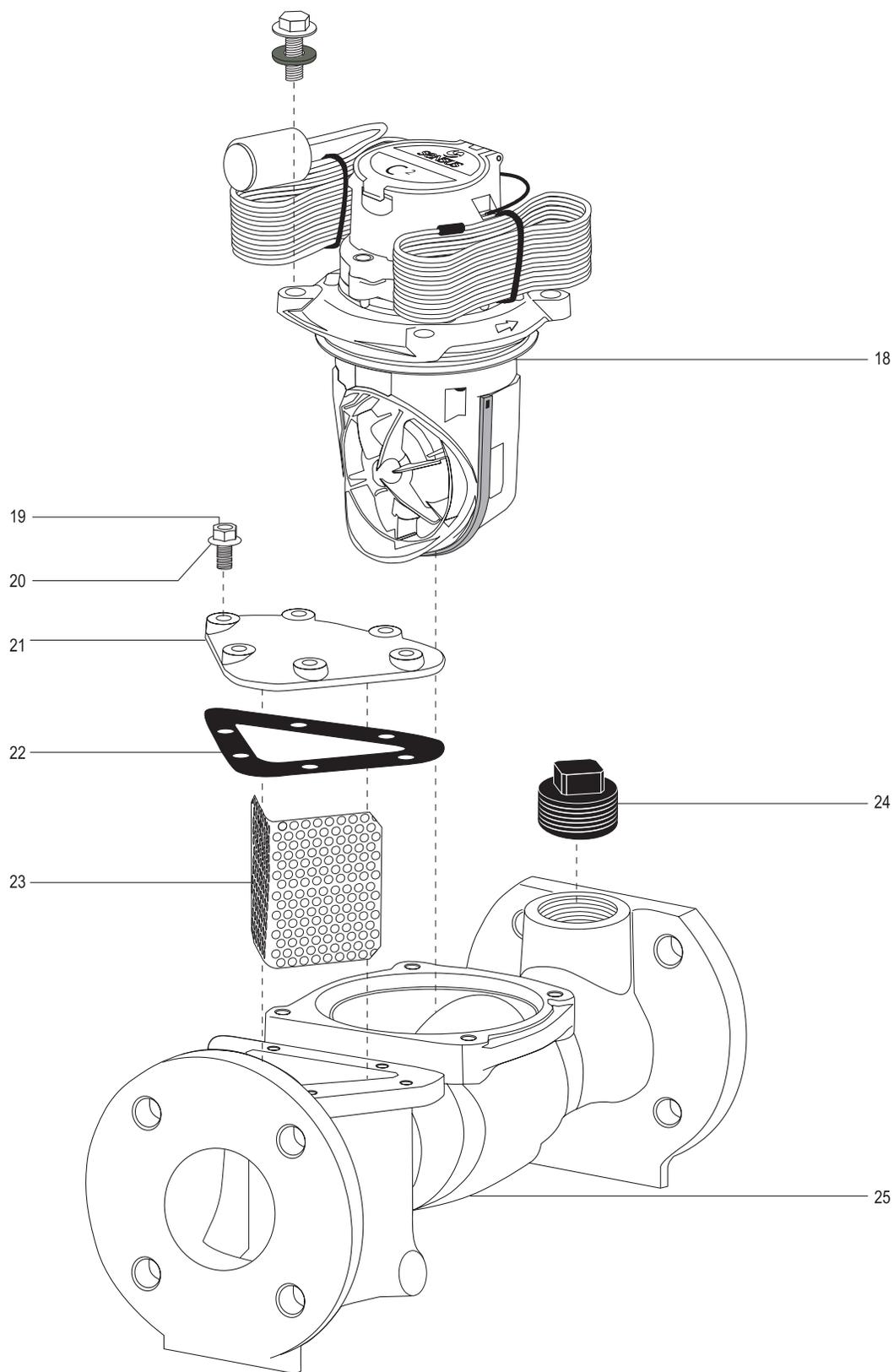
OMNI C²: 1-1/2", 2", 3", 4", 6", 8" and 10"



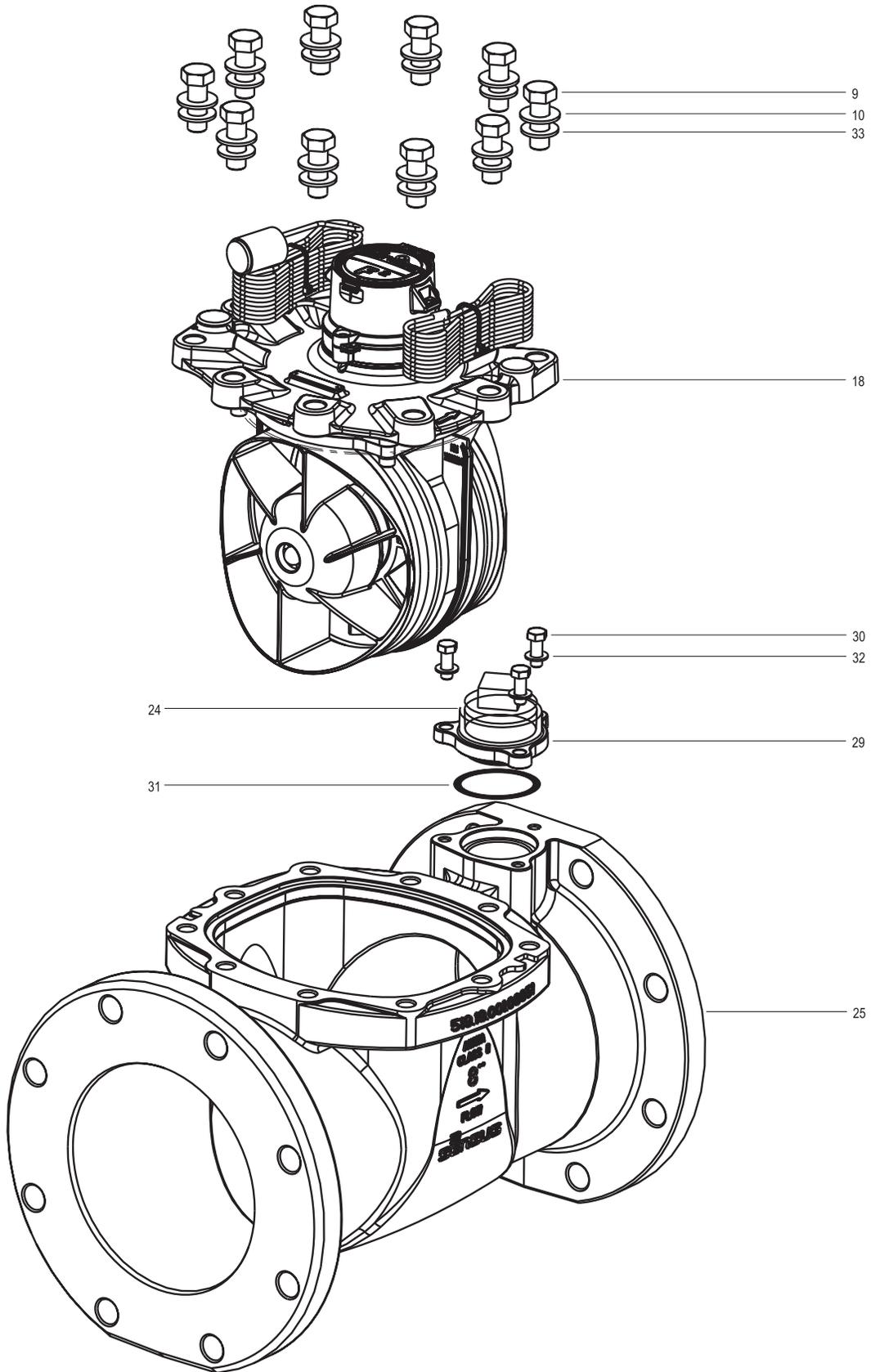
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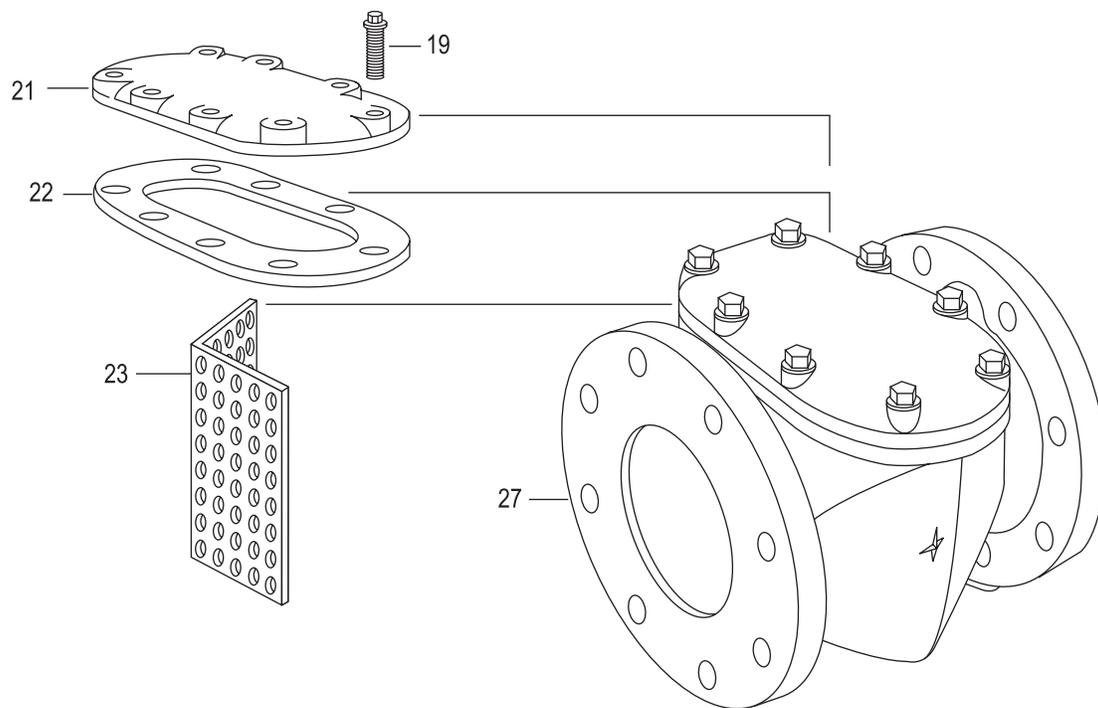


OMNI C²: 1-1/2", 2", 3", 4" and 6"



OMNI C²: 8" and 10"



OMNI C²: 8" and 10"

OMNI C²: 1-1/2", 2", 3", 4" and 6"

ILL. No.	Name of Part
1	C ² Bonnet Lid
2	Hinge Pin
3	Bonnet*
4	Bonnet Seal Screw
5	Register
5A	Pick-Up Probe O-Ring
6	Locking Ring Screw
7	Locking Ring
8	Fixing Ring
9	Chamber Cover Bolt
10	Chamber Cover Bolt Washer
11A	Chamber Cover
11B	Screw
11C	Spring
12	Chamber Cover O-Ring or Gasket
13	Measuring Insert
14	Measuring Insert Screw
15	Chamber Seal Gasket
16	C ² Rotor*
17	T ² Balance Plate
18	Measuring Chamber
19	Strainer Cover Cap Screw
20	Strainer Cover Bolt Washer
21	Strainer Cover
22	Strainer Cover Gasket
23	Strainer Screen
24	Test Plug
25	C ² Maincase
27	Strainer Body
28	Test Port Cap (not shown)
29	Test Port Cap Adapter
30	Test Port Cap Screws
31	Test Port O-Ring
32	Test Port Washer
33	Chamber Cover Washer — Black Nylon

* For 3" or 4" C² rotor / bonnet replacement, order either for the 3" meter size or 4" meter size (See size on front of register bonnet).

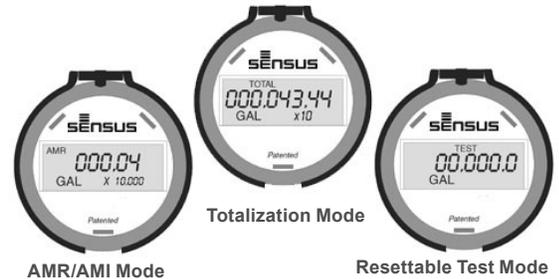
OMNI™ F²

4", 6", 8" and 10" OMNI F² Meter

Description

4", 6", 8" and 10" Sizes

The OMNI F² meter operation is based on advanced Floating Ball Technology (FBT).



Features

CONFORMANCE TO STANDARDS

The OMNI F² meter meets and far exceeds the most recent revision of AWWA Standard C703 class II. Additionally, the meter does not require a valve to meet these standards. Each meter is performance tested to ensure compliance. All OMNI meters are NSF/ANSI Standard 61, Annex F and G approved. The OMNI F² meter is UL (Underwriters Laboratories) Listed and FM (Factory Mutual) approved for use on fire protection and domestic water applications.

PERFORMANCE

The patented measurement principles of the OMNI F² meter assure enhanced accuracy ranges, an overall greater accuracy, and a longer service life than any other comparable class meter produced. The F² meter has no restrictions as to sustained flow rates within its continuous operating range. The floating ball measurement technology allows for flows up to its rated maximum capacity without undue wear or accuracy degradation.

CONSTRUCTION

The OMNI F² meter consists of two basic assemblies; the maincase and the measuring chamber. The measuring chamber assembly includes the "floating ball" impeller with a coated titanium shaft, hybrid axial bearings, integral flow straightener and an all electronic programmable register with protective bonnet. The maincase is made from industry proven Ductile Iron with an approved NSF epoxy coating. Maincase features are; easily removable measuring chamber, unique chamber

seal to the maincase using a high pressure o-ring, testing port and a convenient integral strainer with optional drain/debris-flushing ports.

OMNI ELECTRONIC REGISTER

The OMNI F² electronic register is hermetically sealed with electronic pickup containing no mechanical gearing. The large character LCD displays AMR, Totalization and a Resettable Test Totalizer. OMNI register features; AMR resolution units that are fully programmable, Pulse output frequency that are fully programmable, Integral customer data logging capability, Integral resettable accuracy testing feature compatible with the UniPro Testing Assistant Program, Large, easy-to-read LCD also displays both forward and reverse flow directions and all with a 10-year battery life guarantee.

MAGNETIC DRIVE

Meter registration is achieved by utilizing a fully magnetic pickup system. This is accomplished by the magnetic actions of the embedded rotor magnets and the ultra sensitive register pickup probe. The only moving component in water is the "floating ball" impeller.

MEASURING ELEMENT

The revolutionary thermoplastic, hydro dynamically balanced impeller floats between the bearings. The Floating Ball Technology (FBT) allows the measuring element to operate virtually without friction or wear, thus creating the extended upper and lower flow ranges capable on only the OMNI F² meter.

STRAINER

The OMNI F² meter includes the Sensus designed "V" shaped UL Listed/FM approved strainer which utilizes a stainless steel screen along with Floating Ball Technology (FBT) to create a design that gives far improved accuracy even in those once thought questionable settings. A removable strainer cover permits easy access to the screen for routine maintenance. Optional drain ports, located at the back lower corners of the strainer body, allow for easy discharging of debris without the need to remove the cover.

MAINTENANCE

The OMNI F² meter is designed for easy maintenance. Should any maintenance be required, the measuring chamber and/or strainer cover can be removed independently. Parts and or a replacement measuring chamber may be utilized in the event repairs are needed. Replacement Measuring Chambers are available for the OMNI F² meters.

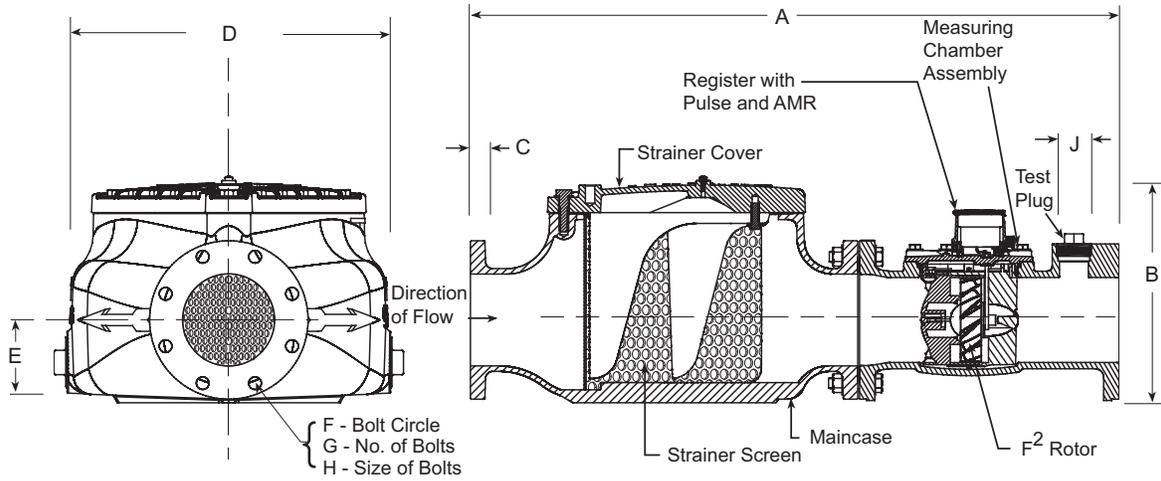
AMR / AMI SYSTEMS

Meters and encoders are compatible with current Sensus AMR/AMI systems.

GUARANTEE

Sensus OMNI F² Meters are backed by "The Sensus Guarantee." Ask your Sensus representative for details or see Bulletin G-500.

OMNI F²: 4", 6", 8" and 10"



DIMENSIONS AND NET WEIGHTS

Meter and Pipe Size	Normal Operating Range		Connections	A	B	C	D	E	F	G	H	J	Net Weight	Shipping Weight	Standard Fireline
4" DN 100mm	1.5 gpm .34 m ³ /hr	1000 gpm 227 m ³ /hr	Flanged	33" 838mm	13-11/16" 348mm	15/16" 24mm	17-1/2" 446mm	4-3/4" 121mm	7-1/2" 191mm	8	5/8" 16mm	2" 50mm	212 lbs. 96 kg.	252 lbs. 115 kg.	51-7/8" (1317mm)
6" DN 150mm	3.0 gpm .681 m ³ /hr	2000 gpm 454 m ³ /hr	Flanged	45" 1143mm	15-3/4" 400mm	15/16" 24mm	22-3/8" 569mm	5-3/4" 146mm	9-1/2" 242mm	8	3/4" 19mm	2" 50mm	394 lbs. 179 kg.	449 lbs. 204 kg.	67-5/8" (1717mm)
8" DN 200mm	4 gpm .91 m ³ /hr	3500 gpm 795 m ³ /hr	Flanged	53" 1346mm	18-1/2" 470mm	11/16" 17mm	31" 787mm	6-3/4" 172mm	11-3/4" 298mm	8	3/4" 19mm	2" NPT	736 lbs. 334 kg.	786 lbs. 357 kg.	77" (1956mm)
10" DN 250mm	5 gpm 1.1 m ³ /hr	5500 gpm 1249 m ³ /hr	Flanged	68" 1727mm	22-1/4" 565mm	11/16" 17mm	37-1/3" 947mm	8-1/2" 216mm	14-1/4" 362mm	12	7/8" 22mm	2" NPT	1155 lbs. 524 kg.	1215 lbs. 551 kg.	90" (2286mm)

*Standard Fireline lay length with optional spool piece added.

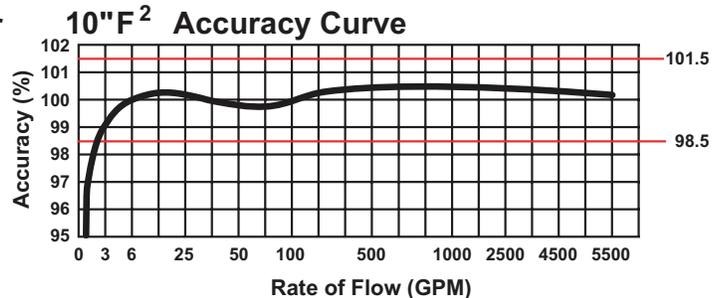
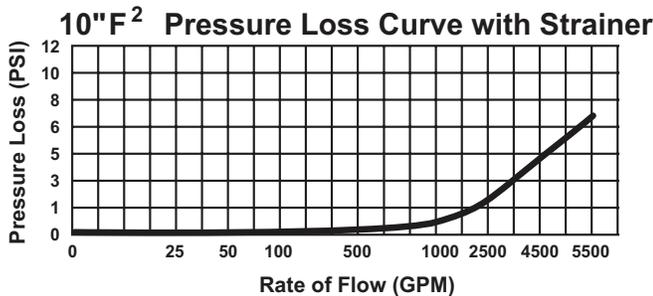
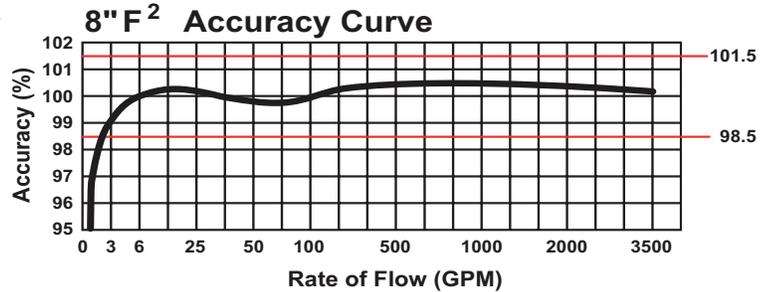
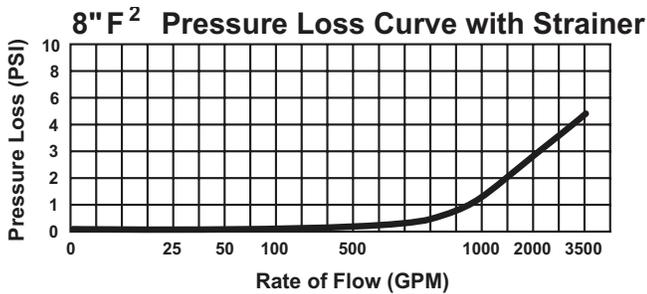
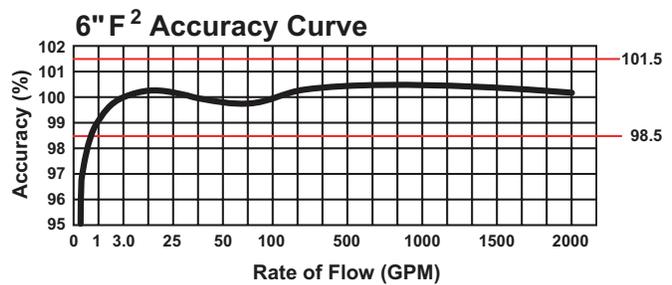
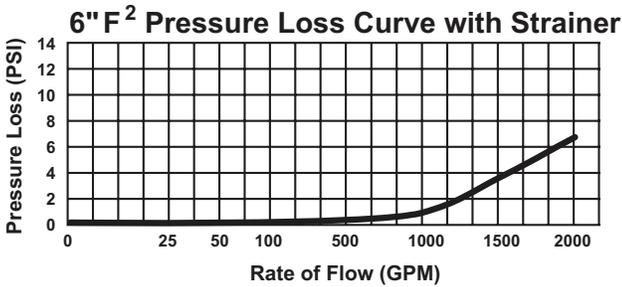
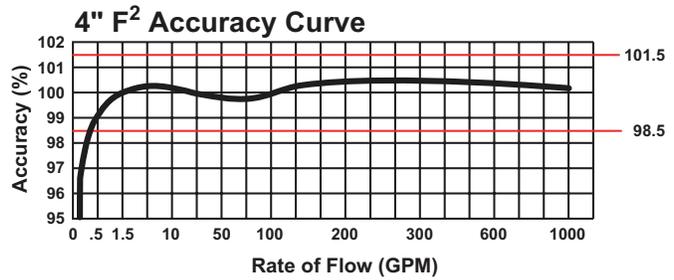
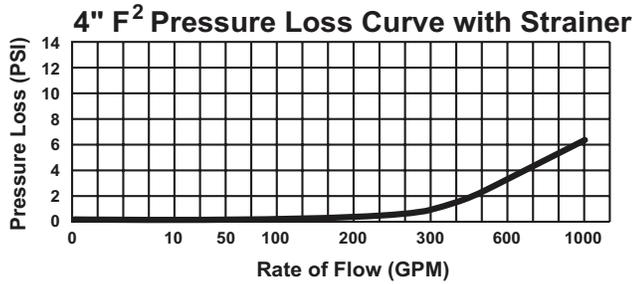
SPECIFICATIONS

SERVICE	Measurement of potable and reclaim water. Operating temperature range of 33 °F (56 °C) - 150 °F (65.6 °C)
OPERATING RANGE (100% ± 1.5%)	4": 1.5 – 1000 GPM (.34 - 227 m ³ /hr) 6": 3.0 – 2000 GPM (.34 - 227 m ³ /hr) 8": 4 – 3500 GPM (0.91-795 m ³ /hr) 10": 5 – 5500 GPM (1.1-1249 m ³ /hr)
LOW FLOW (95% – 101.5%)	4": .75 GPM (.06 m ³ /hr) 6": 1.5 GPM (.06 m ³ /hr) 8": 2.5 GPM (0.57 m ³ /hr) 10": 3.5 GPM (0.8 m ³ /hr)
UL MINIMUM FLOW	8": 97% @ 3 GPM (0.68 m ³ /hr) 10": 97% @ 4 GPM (0.9 m ³ /hr)
MAXIMUM CONTINUOUS OPERATION	4": 1000 GPM (227 m ³ /hr) 6": 2000 GPM (454 m ³ /hr) 8": 3500 GPM (795 m ³ /hr) 10": 5500 GPM (1249 m ³ /hr)
MAXIMUM INTERMITTENT OPERATION	4": 1250 GPM (284 m ³ /hr) 6": 2500 GPM (568 m ³ /hr) 8": 4700 GPM (1067 m ³ /hr) 10": 7000 GPM (1590 m ³ /hr)

PRESSURE LOSS	4": 6.4 psi @ 1000 GPM (.60 bar @ 227 m ³ /hr) 6": 6.7 psi @ 2000 GPM (.56 bar @ 454 m ³ /hr) 8": 5 psi @ 3500 GPM (.34 bar @ 795 m ³ /hr) 10": 7 psi @ 5500 GPM (.48 bar @ 1249 m ³ /hr)
MAXIMUM OPERATING PRESSURE	175 PSI (12 bar)
FLANGE CONNECTIONS	U.S. ANSI B16.1 / AWWA Class 125
REGISTER	Fully electronic sealed register with programmable registration (Gal. /Cu.Ft./ Cu. Mtr. / Imp.Gal / Acre Ft.) Programmable AMR/AMI reading and pulse outputs Guaranteed 10 year battery life
NSF APPROVED MATERIALS	Maincase: Coated Ductile Iron Measuring Chamber: Thermoplastic Rotor "Floating Ball": Thermoplastic Radial Bearings: Hybrid Thermoplastic Thrust Bearings: Sapphire/Ceramic Jewel Magnets: Ceramic Magnet Strainer Screen: Stainless Steel Strainer Cover: Coated Ductile Iron Test Plug: Coated Ductile Iron

OMNI F²: 4", 6", 8" and 10"

Headloss Curves



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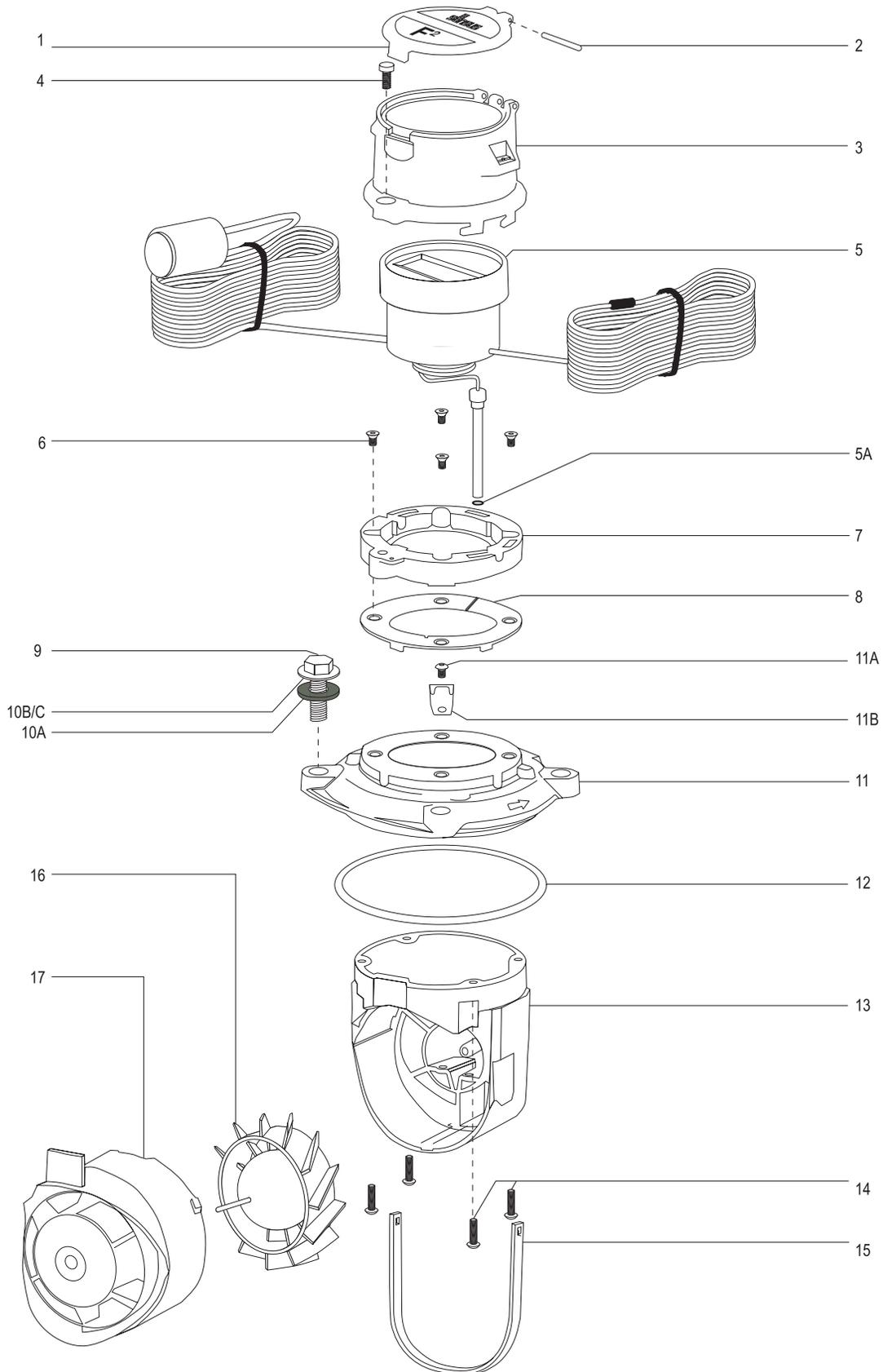
OMNI™ F²

Parts List

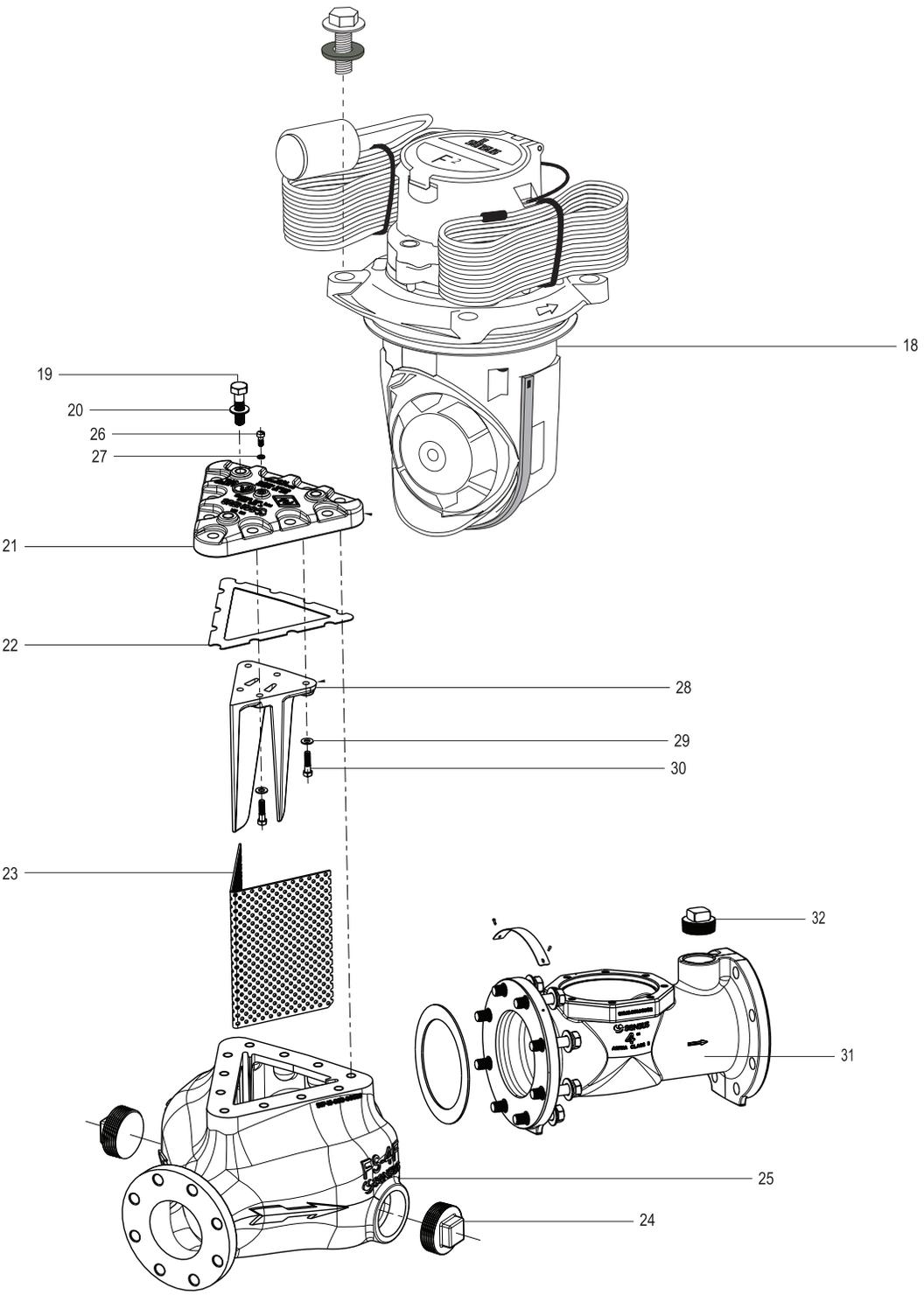
OMNI F²: 4", 6", 8" and 10"



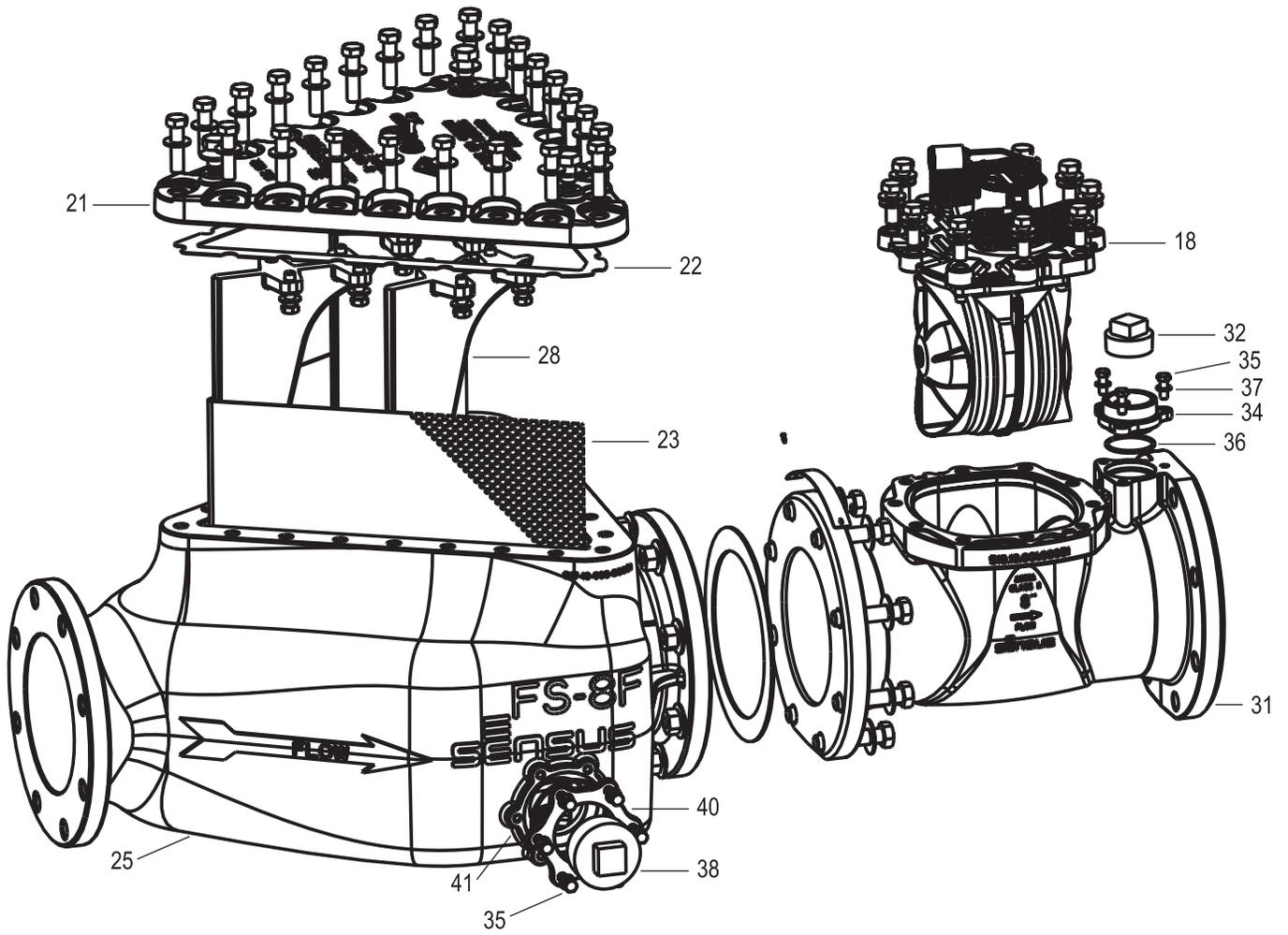
OMNI F²: 4" and 6"



OMNI F²: 4" and 6"



OMNI F²: 8" and 10"



OMNI F2: 4" and 6"

ILL. No.	Name of Part
1	F2 Bonnet Lid
2	Hinge Pin
3	Bonnet
4	Bonnet Seal Screw
5	Register
5A	Pick-Up Probe O-Ring
6	Locking Ring Screw
7	Locking Ring
8	Fixing Ring
9	Chamber Cover Bolt
10B/C	Chamber Cover Bolt Washer
10A	Chamber Cover Washer — Black Nylon
11	Chamber Cover
11A	Screw, Spring Hold Down
11B	Spring
12	Chamber Cover O-Ring / Gasket
13	Measuring Insert
14	Measuring Chamber Screw
15	Chamber Seal Gasket
16	F2 Rotor
17	F2 Balance Plate
18	Measuring Chamber
19	Strainer Cover Cap Screw
20	Strainer Cover Bolt Washer
21	Strainer Cover
22	Strainer Cover Gasket
23	Strainer Screen
24	Drain Port
25	F2 Strainer Body
26	Vent Screw
27	Vent Washer
28	Strainer Screen Support
29	Washer
30	Screw
31	F2 Maincase
32	Test Plug
33	Test Port Cap (not shown)
34	Test Port Adapter
35	Test Port and Drain Port Cap Screws
36	Test Port O-Ring
37	Test Port and Drain Port Washer
38	Drain Port Plug
39	Drain Port Cap (not shown)
40	Drain Port Adapter
41	Drain Port O-Ring



How to Read the OMNI

Quick Guide

THE SENSUS OMNI METER

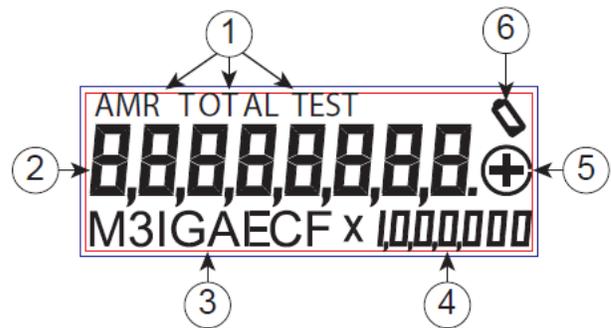
The patented measurement principles of the OMNI meter ensure enhanced accuracy ranges, an overall greater accuracy, and a longer service life than any other comparable class meter produced. The OMNI meter has no restrictions in sustained flow rates within its continuous operating range. The floating ball measurement technology allows for flows up to its rated maximum capacity without causing undue wear or accuracy degradation when installed in any orientation.

ELECTRONIC REGISTER

The OMNI electronic register consists of a hermetically sealed register with an electronic pickup containing no mechanical gearing. The large character LCD displays AMR, Totalization and a Resettable Test Totalizer. The electronic register includes the following partial list of features:

- AMR resolution units that are fully programmable
- Pulse output frequency that is fully programmable
- Integral customer data logging capability
- Integral resettable accuracy testing feature compatible with the UniPro testing Assistant Program
- Large, easy-to-read LCD display that shows both forward and reverse flow directions
- 10-year battery life warranty

REGISTER DISPLAY



1. Reading Mode

AMR: Shows the reported units

Total: Shows the total registration through the meter (all 8 digits)

Test: Shows the registration through the meter, but can be reset to 0 to perform a test

2. **AMR Digit Bar** (4 to 8 Digits)—The AMR digit bar shows which digits will be reported when the meter is read through the communications interface.

3. **Unit of Measure**—Gallon (GAL), Cubic Feet (CF), Cubic Meter (M³), Imperial Gallon (IGAL), Acre Feet (AF)

4. **AMR Value Multiplier** (Only in AMR Mode)

5. Flow Icon:

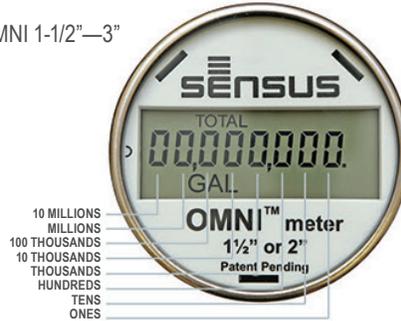
Display	Indicates
Flashing circle with +	Positive Flow
Flashing circle with -	Negative Flow
No Icon/Icon Not Flashing	Flow Stopped

6. **Battery Icon**—The Battery Icon will turn on when the battery is near the end of line (≈11 years). AMR Digits will sequentially blink before the battery dies (≈15 years).

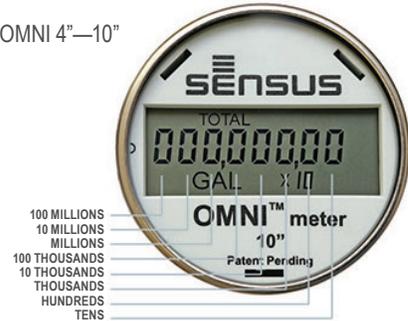
READING THE OMNI REGISTER

Gallons Registers

OMNI 1-1/2"–3"

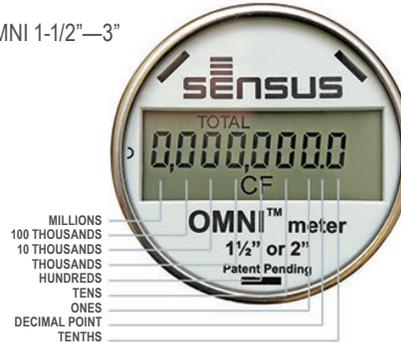


OMNI 4"–10"

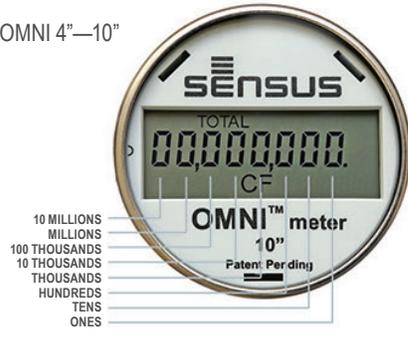


Cubic Feet Registers

OMNI 1-1/2"–3"

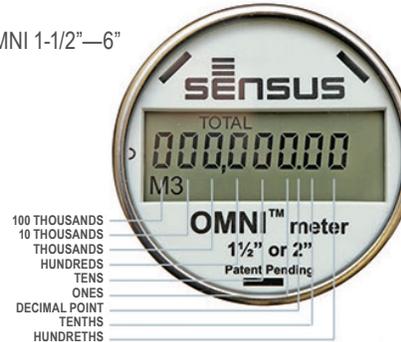


OMNI 4"–10"

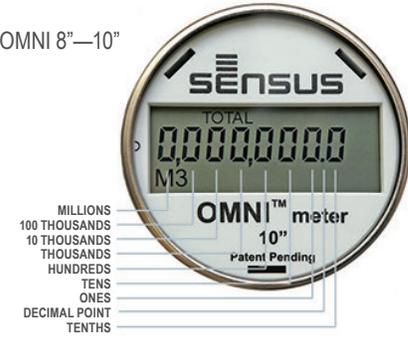


Cubic Meter Registers

OMNI 1-1/2"–6"

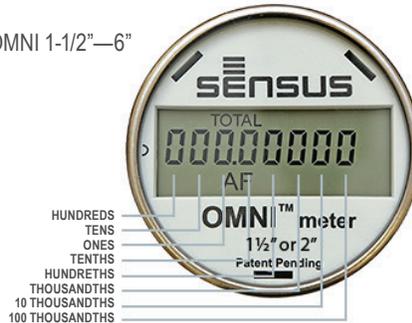


OMNI 8"–10"

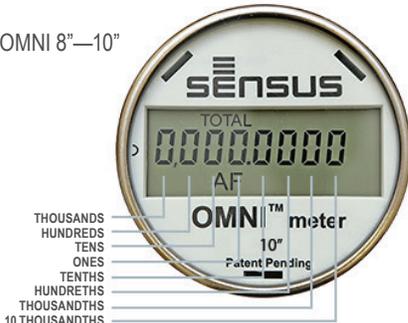


Acre Feet Registers

OMNI 1-1/2"–6"



OMNI 8"–10"



© All products purchased and services performed are subject to Sensus' terms of sale, available at either; <http://na.sensus.com/TC/TermsConditions.pdf> or 1-800-METER-IT. Sensus reserves the right to modify these terms and conditions in its own discretion without notice to the customer.

This document is for informational purposes only, and SENSUS MAKES NO EXPRESS WARRANTIES IN THIS DOCUMENT. FURTHERMORE, THERE ARE NO IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY. ANY USE OF THE PRODUCTS THAT IS NOT SPECIFICALLY PERMITTED HEREIN IS PROHIBITED.

Sensus Limited Warranty

I. General Product Coverage

Sensus USA Inc. ("Sensus") warrants its products and parts to be free from defects in material and workmanship for one (1) year from the date of Sensus shipment and as set forth below. All products are sold to customer ("Customer") pursuant to Sensus' Terms of Sale, available at: sensus.com/TC ("Terms of Sale").

II. SR II® and accuSTREAM™ 5/8", 3/4" & 1" Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for five (5) years from the date of Sensus shipment or until the registration shown below, whichever occurs first. Sensus further warrants that the SR II and accuSTREAM meters will perform to at least AWWA Repaired Meter Accuracy Standards for fifteen (15) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

	New Meter Accuracy	Repair Meter Accuracy
5/8" SR II Meter and accuSTREAM Meter	500,000 gallons	1,500,000 gallons
3/4" SR II Meter and accuSTREAM Meter	750,000 gallons	2,250,000 gallons
1" SR II Meter and accuSTREAM Meter	1,000,000 gallons	3,000,000 gallons

III. SR® 5/8", 3/4" & 1" Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment. Sensus further warrants that the 5/8", 3/4" and 1" SR meter will perform to at least AWWA Repaired Meter Accuracy Standards for fifteen (15) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

	Repair Meter Accuracy
5/8" SR Meter	1,500,000 gallons
3/4" SR Meter	2,250,000 gallons
1" SR Meter	3,000,000 gallons

IV. SR 1-1/2" & 2"...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment. Sensus further warrants that the 1-1/2" and 2" SR meter will perform to at least AWWA Repaired Meter Accuracy Standards for ten (10) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

	Repair Meter Accuracy
1-1/2" SR	5,000,000 gallons
2" SR	8,000,000 gallons

V. PMM® 5/8", 3/4", 1" Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment. Sensus further warrants that the 5/8", 3/4", and 1" PMM meter will perform to at least AWWA Repaired Meter Accuracy Standards for fifteen (15) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

	Repair Meter Accuracy
5/8" PMM	1,500,000 gallons
3/4" PMM	2,000,000 gallons
1" PMM	3,000,000 gallons

VI. PMM 1-1/2", 2" Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment. Sensus further warrants that the 1-1/2", and 2" PMM meter will perform to at least AWWA Repaired Meter Accuracy Standards for ten (10) years from the date of Sensus shipment or until the registration shown below, whichever occurs first:

	Repair Meter Accuracy
1-1/2" PMM	5,000,000 gallons
2" PMM	8,000,000 gallons

VII. iPERL™ Water Management Systems...

that register water flow are warranted to perform to the accuracy levels set forth in the iPERL Water Management System Data Sheet available at sensus.com/iperl/datasheet or by request from 1-800-METER-IT, for twenty (20) years from the date of Sensus shipment. The iPERL System warranty does not include the external housing.

VIII. Maincase...

of the SR, SR II and PMM in both standard and low lead alloy meters are warranted to be free from defects in material and workmanship for twenty-five (25) years from the date of Sensus shipment. Composite and E-coated maincases will be free from defects in material and workmanship for fifteen (15) years from the date of Sensus shipment.

IX. Sensus "W" Series Turbo Meters, OMNI™ Meters and Propeller Meters...

are warranted to perform to AWWA New Meter Accuracy Standards for one (1) year from the date of Sensus shipment.

X. Sensus accuMAG™ Meters...

are warranted to be free from defects in material and workmanship, under normal use and service, for 18 months from the date of Sensus shipment or 12 months from startup, whichever occurs first.

XI. Sensus Registers...

are warranted to be free from defects in material and workmanship from the date of Sensus shipment for the periods stated below or until the applicable registration for AWWA Repaired Meter Accuracy Standards, as set forth above, are surpassed, whichever occurs first:

5/8" thru 2" SR, SR II, PMM, accuSTREAM Standard Registers	25 years
5/8" thru 2" SR, SR II, PMM, accuSTREAM Encoder Registers	10 years
Electronic Communication Index (ECI)	10 years
All HSPU, IMP Contactor, R.E.R. Elec. ROFI	1 year
Standard and Encoder Registers for:"W" Turbo and Propeller Meters	1 year
OMNI Register with Battery	10 years

XII. Sensus Electric Meters...

are warranted to be free from defects in material and workmanship for one (1) year from the date of Sensus shipment. Spare parts and components are warranted to be free from defects in material and workmanship for one (1) year from the date of Sensus shipment.

Repaired or refurbished equipment repaired by Sensus is warranted to be free from defects in material and workmanship for ninety (90) days from the date of Sensus shipment or for the time remaining on the original warranty period, whichever is longer.

XIII. Batteries, iPERL System Components, AMR and FlexNet™ System AMI Interface Devices...

are warranted to be free from defects in material and workmanship from the date of Sensus shipment for the period stated below:

Electronic TouchPad	10 years
RadioRead® MXU (Model 505C, 510R or 520R) and Batteries	20 years*
Act-Pak® Instrumentation	1 year
TouchRead® Coupler and AMR Equipment	1 year
FlexNet Water or Gas SmartPoint™ Modules and Batteries	20 years*
5500 series (or older) Hand Held Device	1 year
6500 series Hand Held Device	2 years
Vehicle Gateway Base Station	1 year
FlexNet Base Station (including the Metro and M400 base stations)	1 year
Echo Transceiver	1 year
Remote Transceiver	1 year
iConA and FlexNet Electricity SmartPoint Module	1 year
iPERL System Battery and iPERL System Components	20 years*
Residential Electronic Register	20 years*
Smart Gateway	1 year

* Sensus will repair or replace non-performing:

- RadioRead® MXU (Model 505C, 510R and 520R) and Batteries,
- FlexNet Water or Gas SmartPoint Modules (configured to the factory setting of six transmissions per day under normal system operation of up to one demand read to each SmartPoint Module per month and up to two firmware downloads during the life of the product) and batteries,
- Residential Electronic Register with hourly reads, and
- iPERL System Batteries, and/or the iPERL System flowtube, the flow sensing and data processing assemblies, and the register ("iPERL System Components") with hourly reads

at no cost for the first ten (10) years from the date of Sensus shipment, and for the remaining ten (10) years, at a prorated percentage, applied towards the published list prices in effect for the year product is accepted by Sensus under warranty conditions according to the following schedule:

Years	Replacement Price	Years	Replacement Price
1 – 10	0%	16	55%
11	30%	17	60%
12	35%	18	65%
13	40%	19	70%
14	45%	20	75%
15	50%	>20	100%

Note: Software supplied and licensed by Sensus is warranted according to the terms of the applicable software license agreement. Sensus warrants that network and monitoring services shall be performed in a professional and workmanlike manner.

XIV. Return...

Sensus' obligation, and Customer's exclusive remedy, under this Sensus Limited Warranty is, at Sensus' option, to either (i) repair or replace the product, provided the Customer (a)

returns the product to the location designated by Sensus within the warranty period; and (b) prepays the freight costs both to and from such location; or (ii) deliver replacement components to the Customer, provided the Customer installs, at its cost, such components in or on the product (as instructed by Sensus), provided, that if Sensus requests, the Customer (a) returns the product to the location designated by Sensus within the warranty period; and (b) prepays the freight costs both to and from such location. In all cases, if Customer does not return the product within the time period designated by Sensus, Sensus will invoice, and Customer will pay within thirty days of the invoice date, for the cost of the replacement product and/or components.

The return of products for warranty claims must follow Sensus' Returned Materials Authorization (RMA) procedures. Water meter returns must include documentation of the Customer's test results. Test results must be obtained according to AWWA standards and must specify the meter serial number. The test results will not be valid if the meter is found to contain foreign materials. If Customer chooses not to test a Sensus water meter prior to returning it to Sensus, Sensus will repair or replace the meter, at Sensus' option, after the meter has been tested by Sensus. The Customer will be charged Sensus' then current testing fee. Sensus SmartPoints modules and MXU's returned must be affixed with a completed return evaluation label. For all returns, Sensus reserves the right to request meter reading records by serial number to validate warranty claims.

For products that have become discontinued or obsolete ("Obsolete Product"), Sensus may, at its discretion, replace such Obsolete Product with a different product model ("New Product"), provided that the New Product has substantially similar features as the Obsolete Product. The New Product shall be warranted as set forth in this Sensus Limited Warranty.

THIS SECTION XIV SETS FORTH CUSTOMER'S SOLE REMEDY FOR THE FAILURE OF THE PRODUCTS, SERVICES OR LICENSED SOFTWARE TO CONFORM TO THEIR RESPECTIVE WARRANTIES.

XV. Warranty Exceptions and No Implied Warranties...

This Sensus Limited Warranty does not include costs for removal or installation of products, or costs for replacement labor or materials, which are the responsibility of the Customer. The warranties in this Sensus Limited Warranty do not apply to goods that have been: installed improperly or in non-recommended installations; installed to a socket that is not functional, or is not in safe operating condition, or is damaged, or is in need of repair; tampered with; modified or repaired with parts or assemblies not certified in writing by Sensus, including without limitation, communication parts and assemblies; improperly modified or repaired (including as a result of modifications required by Sensus); converted; altered; damaged; read by equipment not approved by Sensus; for water meters, used with substances other than water, used with non-potable water, or used with water that contains dirt, debris, deposits, or other impurities; subjected to misuse, improper storage, improper care, improper maintenance, or improper periodic testing (collectively, "Exceptions."). If Sensus identifies any Exceptions during examination, troubleshooting or performing any type of support on behalf of Customer, then Customer shall pay for and/or reimburse Sensus for all expenses incurred by Sensus in examining, troubleshooting, performing support activities, repairing or replacing any Equipment that satisfies any of the Exceptions defined above. The above warranties do not apply in the event of Force Majeure, as defined in the Terms of Sale.

THE WARRANTIES SET FORTH IN THIS SENSUS LIMITED WARRANTY ARE THE ONLY WARRANTIES GIVEN WITH RESPECT TO THE GOODS, SOFTWARE LICENSES AND SERVICES SOLD OR OTHERWISE PROVIDED BY SENSUS. SENSUS EXPRESSLY DISCLAIMS ANY AND ALL OTHER REPRESENTATIONS, WARRANTIES, CONDITIONS, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE, REGARDING ANY MATTER IN CONNECTION WITH THIS SENSUS LIMITED WARRANTY OR WITH THE TERMS OF SALE, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, NON-INFRINGEMENT AND TITLE.

SENSUS ASSUMES NO LIABILITY FOR COSTS OR EXPENSES ASSOCIATED WITH LOST REVENUE OR WITH THE REMOVAL OR INSTALLATION OF EQUIPMENT. THE FOREGOING REMEDIES ARE CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES FOR THE FAILURE OF EQUIPMENT, LICENSED SOFTWARE OR SERVICES TO CONFORM TO THEIR RESPECTIVE WARRANTIES.

XVI. Limitation of Liability...

SENSUS' AGGREGATE LIABILITY IN ANY AND ALL CAUSES OF ACTION ARISING UNDER, OUT OF OR IN RELATION TO THIS AGREEMENT, ITS NEGOTIATION, PERFORMANCE, BREACH OR TERMINATION (COLLECTIVELY "CAUSES OF ACTION") SHALL NOT EXCEED THE TOTAL AMOUNT PAID BY CUSTOMER TO SENSUS UNDER THIS AGREEMENT. THIS IS SO WHETHER THE CAUSES OF ACTION ARE IN TORT, INCLUDING, WITHOUT LIMITATION, NEGLIGENCE OR STRICT LIABILITY, IN CONTRACT, UNDER STATUTE OR OTHERWISE.

AS A SEPARATE AND INDEPENDENT LIMITATION ON LIABILITY, SENSUS' LIABILITY SHALL BE LIMITED TO DIRECT DAMAGES. SENSUS SHALL NOT BE LIABLE FOR: (I) ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES; NOR (II) ANY REVENUE OR PROFITS LOST BY CUSTOMER OR ITS AFFILIATES FROM ANY END USER(S), IRRESPECTIVE OF WHETHER SUCH LOST REVENUE OR PROFITS IS CATEGORIZED AS DIRECT DAMAGES OR OTHERWISE; NOR (III) ANY IN/OUT COSTS; NOR (IV) MANUAL METER READ COSTS AND EXPENSES; NOR (V) DAMAGES ARISING FROM MAINCASE OR BOTTOM PLATE BREAKAGE CAUSED BY FREEZING TEMPERATURES, WATER HAMMER CONDITIONS, OR EXCESSIVE WATER PRESSURE. "IN/OUT COSTS" MEANS ANY COSTS AND EXPENSES INCURRED BY CUSTOMER IN TRANSPORTING GOODS BETWEEN ITS WAREHOUSE AND ITS END USER'S PREMISES AND ANY COSTS AND EXPENSES INCURRED BY CUSTOMER IN INSTALLING, UNINSTALLING AND

REMOVING GOODS. "END USER" MEANS ANY END USER OF ELECTRICITY/WATER/GAS THAT PAYS CUSTOMER FOR THE CONSUMPTION OF ELECTRICITY/WATER/GAS, AS APPLICABLE.

The limitations on liability set forth in this Agreement are fundamental inducements to Sensus entering into this Agreement. They apply unconditionally and in all respects. They are to be interpreted broadly so as to give Sensus the maximum protection permitted under law.

To the maximum extent permitted by law, no Cause of Action may be instituted by Customer against Sensus more than TWELVE (12) MONTHS after the Cause of Action first arose. In the calculation of any damages in any Cause of Action, no damages incurred more than TWELVE (12) MONTHS prior to the filing of the Cause of Action shall be recoverable.