

**Lee County Board Of County Commissioners  
Agenda Item Summary**

Blue Sheet No. 20030315

**1. REQUESTED MOTION:**

**ACTION REQUESTED:** Approve Project # PB030391, for the Lee County Utilities Division, for the utilization (piggyback) of the City of Pompano Beach's Bid # H-14-00, which has gone through their competitive bidding process, for the annual purchase of Neptune Water Meters that are distributed through Sunstate Meter & Supply Inc. for the unit prices as listed on the awarded vendor's quote. There are two options built into the quote: 1. the participating entity can trade in their obsolete meters, 2. the participating entity can purchase items not on the quote for a 15% discount off of list price. This quote was originally awarded for one year from 2/22/00 to 2/21/01, and was recently renewed until 2/21/04. Also request permission to continue to utilize this piggyback for the continuation of the contract between the City of Pompano Beach and the awarded vendor for the purchase of water meters. For general information, the Utilities Division estimates spending approximately \$200,000.00 for water meters and replacement parts on an annual basis.

**WHY ACTION IS NECESSARY:** According to Section 9.4.1 of the Lee County Purchasing & Payment Procedures Manual, approved by the Board on 7/9/02, purchases over \$50,000.00 must be approved by the Board.

**WHAT ACTION ACCOMPLISHES:** Allows the Lee County Utilities Division to purchase water meters in a cost effective, efficient, and timely manner.

**2. DEPARTMENTAL CATEGORY:  
COMMISSION DISTRICT #**

*C10C*

**3. MEETING DATE:**

*04-01-2003*

**4. AGENDA:**

- CONSENT
- ADMINISTRATIVE APPEALS
- PUBLIC WALK ON
- TIME REQUIRED:

**5. REQUIREMENT/PURPOSE:  
(Specify)**

- STATUTE
- ORDINANCE
- ADMIN. CODE AC-4-1
- OTHER

**6. REQUESTOR OF INFORMATION:**

- A. COMMISSIONER
- B. DEPARTMENT
- C. DIVISION *Utilities*

BY: *Rick Diaz*

*3/17/03*

**7. BACKGROUND:**

The Division of Purchasing received from the Utilities Division a request to piggyback the City of Pompano Beach quote for water meters. The City of Pompano Beach quote has been in place since February 22, 2000, and renewed through February 21, 2004, with another one-year renewal option remaining.

(BACKGROUND CONTINUED ON PAGE TWO)

**8. MANAGEMENT RECOMMENDATIONS:**

**9. RECOMMENDED APPROVAL:**

A Department Director	B Purchasing or Contracts	C Human Resources	D Other	E County Attorney	F Budget Services				G County Manager
<i>Hamber 3-18-03</i>	<i>E. Blawie 3-18-03</i>	<i>N/A</i>		<i>[Signature]</i> <i>3/18/03</i>	OA <i>3/18/03</i>	OM <i>3/19</i>	Risk <i>3/18/03</i>	GC <i>3/18/03</i>	<i>Hamber 3-18-03</i>

**10. COMMISSION ACTION:**

- APPROVED
- DENIED
- DEFERRED
- OTHER

Rec. by CoAtty  
Date: *3/18/03*  
Time: *11:30 am*  
Forwarded To: *Budget*  
*3/18/03*

RECEIVED BY  
COUNTY ADMIN. *PM*  
*3-18-03*  
*2:25*  
COUNTY ADMIN.  
FORWARDED TO:  
*3/19 5:00*

(BACKGROUND CONTINUED FROM PAGE ONE)

Sunstate Meter & Supply, Inc., has agreed to the purchase and delivery of Neptune water meters at the unit prices listed on the quote submission, and also allows the option of a trade in of obsolete meters. In addition, Lee County Utilities shall be given a 15% discount for items that were not listed in the bid.

The Lee County Utilities Division plans to utilize this annual bid for the day-to-day operations.

Please note, the name of the manufacturer of the water meters at the time the quote was awarded was Schlumberger Resource Management Services Inc., but the company changed their name to Neptune Technology Group Inc. in November 2001, so any correspondence after that date will reference Neptune Water Meters not Schlumberger Water Meters.

The requesting department will be responsible for monitoring their individual expenditures.

Account Strings: OD5360248700.505280  
OD5360248700.504670  
OD5360948700.504670

- ATTACHMENTS:
1. Department Request to Piggyback
  2. The City of Pompano Beach Specifications
  3. Permission Letter to Piggyback from Sunstate Meter & Supply Inc.
  4. Permission Letter to Piggyback from the City of Pompano Beach
  5. Original Award Letter from the City of Pompano Beach
  6. Quote Renewal Letter from the City of Pompano Beach
  7. Letter Notifying the City of Pompano Beach that the Manufacturer's Name had changed
  8. Original submitted quote package



Lee County  
SOUTHWEST FLORIDA

INTEROFFICE MEMORANDUM  
FROM  
PUBLIC WORKS  
UTILITIES

03 MAR 14 PM 4:42  
*[Handwritten signature]*

Date: 3/12/03

To: Earl Pflaumer  
Purchasing

From: Rick Diaz, P.E.  
Director

**SUBJECT: Bid # H-14-00 – Neptune Water Meters**

The Lee County Utilities Division requests that the Purchasing Division prepare a Blue Sheet for presentation to the Board asking permission to piggyback the City of Pompano Beach Bid # H-14-00 for the annual purchase of Neptune Water Meters from Sunstate Meter & Supply Inc.

Please contact me or Jim Balmer (6936-2992) if any additional information is needed.

RD:ac

# ATTACHMENT #2

Bidder Name \_\_\_\_\_



City of Pompano Beach, Purchasing Division  
1190 N.E. 3rd Avenue, Building C, Pompano Beach, FL 33060  
-or- Post Office Drawer 1300, Pompano Beach, FL 33061

## BID H-14-00 -- WATER METERS

November 29, 1999

The City of Pompano Beach is currently soliciting bids to establish a contract for the purchase of water meters. Bids will be received until 2:00 p.m. (local), December 16, 1999 in the Purchasing office at 1190 North East 3rd Avenue, Building C, Pompano Beach, Florida. These bids will then be publicly opened at the above time and date in the presence of City officials. Bid openings are open to the public. All bidders and/or their representatives are invited to be present.

Once opened, the bids will be tabulated, evaluated, and presented to the appropriate City officials for contract award.

There are three (3) sections in this bid: Specifications/Special Conditions, General Conditions, and Proposal. Please read all sections thoroughly. Complete the bid in accordance with the instructions and return all numbered pages, initialed at the bottom of each page, when you submit your bid package. Failure to do so may result in the rejection of your bid.

If you need any additional information regarding this bid, please contact Leeta Hardin, Purchasing Supervisor, at (954) 786-4098.

### SECTION I - SPECIFICATIONS/SPECIAL CONDITIONS

A. Intent

The intent of this bid is to establish an annual, open-end contract for the purchase of water meters, delivered, as and when needed.

B. Contract Period

The initial contract period shall be one year, commencing upon award by the appropriate City officials.

The contract shall be automatically renewed for four (4) additional one-year periods unless the General Services Director or the successful bidder receiving award shall give notice to the other party of intent not to renew for the second period, which notice must be delivered by certified mail and must be received at least sixty (60) days prior to the end of the initial contract period. All terms, prices and conditions shall remain firm for the initial period of the contract, and any renewal period.

In the event delivery/service is scheduled to end because of the expiration of this contract, the Contractor shall continue to deliver/service upon the request of the General Services Director. The extension period shall not extend for more than ninety (90) days beyond the expiration date of the existing contract. The Contractor shall be compensated for the product/service at the rate in effect when this extension clause is invoked by the City.

C. Quantities

No warranty or guarantee is given or implied as to the total amount to be purchased as a result of this contract. The quantities stated in this bid are estimates of annual usage, to be used for bid comparison purposes only. Water meters will be ordered as needed.

D. Bid Items/Grouping

Like items within this bid are grouped. Bidders may submit bids on any or all groups. If bidding a group, all items within that group must be priced, for the bid to be considered.

E. Basis of Award

Award will be made by Group, to the lowest responsive, responsible bidder based on the total per Group.

F. Pricing

All prices bid shall be F.O.B. destination/delivered to the City of Pompano Beach Central Stores Warehouse, 1190 N.E. 3rd Avenue, Building C, or the Utilities Department, as indicated on each individual order.

No minimum order quantities shall be stipulated by bidders. Prices bid for trade-in allowance for old meters shall include cost for pick-up of old meters from the City.

G. Delivery

Bidders are to state the number of calendar days after receipt of an order required for delivery. The City seeks a source of supply that will provide accurate and timely delivery. Delivery schedules must be adhered to by the awarded bidder. If, in the opinion of the General Services Director, the successful bidder(s) fail at any time to meet the requirements herein, including the delivery requirements, then the contract may be cancelled upon written notice. See Section II - General Conditions, (6) "Delivery", and (10) "Default", for additional information.

H. Addenda

The issuance of a written addendum is the only official method whereby interpretation, clarification or additional information can be given. If any addenda are issued to this Bid solicitation the City will attempt to notify all known prospective Bidders, however, it shall be the responsibility of each Bidder, prior to submitting their bid, to contact the City Purchasing Office at (954) 786-4098 to determine if addenda were issued and to make such addenda a part of their Bid proposal.

I. General Specifications1. Guarantee (Applicable to all type meters).

Manufacturer shall guarantee materials and workmanship of all meters and meter parts to operate within the range of the test specifications for a minimum period of five (5) years from date of delivery. Any meter which fails to operate accordingly for five (5) years will be repaired by the City, and the manufacturer shall furnish to the City, without cost, any part(s) required to place such defective meter in suitable operation condition. Additionally, all registers must be warranted against defects, fogging and loss of accuracy for a minimum period of ten (10) years.

## 2. As part of the proposal, bidders shall furnish for each size and type of meter bid an accuracy chart showing loss of head in psi at maximum flows. Operating and performance characteristics of the meters bid will be evaluated and considered in making any award.

3. Registrations & Registration Tests -- The City of Pompano Beach reserves the right to test each meter, and any meter which does not register accurately, according to the specifications provided, shall be rejected. Each meter rejected shall be repaired or replaced with another meter by the supplier without cost to the City of Pompano Beach. The tests made by the City will be final, and the supplier may observe any tests. If more than 10% of any order fails to pass the test(s), the City reserves the right to reject the entire order.

4. Trade-ins -- Where indicated on the proposal form, bidders shall furnish trade-in allowance for old meters of same size and type. Meters to be traded-in will be various brands, as required by the City, to be determined at time of order. The successful bidder will be responsible for pick-up of old meters from the City. Bidders must provide a trade-in allowance in their proposal.

J. Detailed Specifications

1. GROUP 1 -- Disc Meters, 5/8" through 2"

Water meters shall conform to specifications set forth by the American Water Works Association (A.W.W.A) C700-77 or latest revision thereof. Meters bid must have been in production for at least five (5) years for all sizes. In addition, all meters must be available in a complete product line for 5/8" through 2" sizes. The discs shall be flat, with nutating-type disc with thrust rollers.

Registers are to be hermetically sealed and designed with neutral gears to allow accurate calibration and economical operation. The glass is to be impact-resistant. Registers are to be magnetically driven, and straight reading in U.S. gallons. Serial numbers are to be stamped plainly on meter cases and register box lids. Register boxes are to be made of synthetic polymer on 5/8" through 1" sizes. Register boxes shall have meter sealing screws drilled for sealwires or tamper-proof seal pins.

Bottom caps on 5/8" x 3/4" meters are to be made of synthetic polymer. One-inch (1") bottom caps are to be made of bronze. All main case bolts shall include a bolt and washer and be of #300 series non-magnetic stainless steel to prevent corrosion and for ease of disassembly. Anything less than #300 series is unacceptable.

All 1-1/2" and 2" meters shall be of a top load design, split case, flange type. Minimum acceptable accuracy for 5/8" through 2" meters shall be 98.5% at all flows meter is rated for, per A.W.W.A. C700-77 or latest revision.

Additionally, all meters must be adaptable to programmable encoder registers for automatic pit reading of water meters. Encoder registers shall not include batteries due to loss of power and causing inadequate meter readings. Each vendor shall have at least five (5) years' experience in manufacturing and designing encoder type registers for this bid. These registers should be exchangeable in the field without interrupting the customer's service. All new meters must have test tag results attached to meter.

2. Trade-Allowance: State trade-in allowances for meter sizes as indicated on Proposal form.

3. **GROUP 2 -- Compound Meters**

Meters bid under this section shall be compound type, conforming to A.W.W.A. standards C702, or latest revision thereof.

The meter case shall be made of bronze composition and fitted with standard flanged ends and furnished with iron companion flanges.

The meter assembly shall be nutating disc type on low side and Class II turbine on high side. Chambers shall be bronze or plastic. Meter shall be equipped with two (2) register assemblies. The measuring elements must be of a unitized measuring element design.

The meter serial number shall be stamped on each register lid and the case of the meter. The register boxes are to be bronze. The main case must have drilled test plugs for field testing. Meter shall have a calibration vane so adjustments can be made in the field. Change gears are not acceptable.

The meter registers shall be straight reading U.S. gallons. All registers are to be hermetically sealed, complete with neutral gears and impact resistant glass. Registers must be programmable encoder adaptable without service interruption. Encoder registers shall not include batteries due to loss of power and causing inadequate meter readings.

4. **GROUP 3 -- Fire Service Meters**

Must be U.L. listed and FM approved. Shall meet A.W.W.A. standards C703-86 or latest revision. Fire service side to be Class II turbine, and domestic side shall be a disc meter. The measuring element must come equipped with a calibration vane for in-line testing. All meters must be furnished with U.L. and FM approved strainers. Additionally, all meters must be programmable encoder adaptable for automatic reading or central meter reading. Encoder registers shall not include batteries due to loss of power and causing inadequate meter readings.

Minimum flow requirements for fire service meters are as follows:

4"	3/4-1200 GPM
6"	1-1/2-3000 GPM
8"	2-4000 GPM
10"	2-6500 GPM

These flows are to be measured at 100% + or - 1.5% accuracy.



5. **GROUP 4 -- Fire Service Turbine Meters**

Must be U.L. listed and FM approved. Measuring element must be a Class II turbine and be equipped with calibration vane. All meters are to be furnished with U.L. and FM approved strainers. All meters must be adaptable to programmable encoder registers.

Minimum flow requirements for fire service turbine meters are as follows:

3"	5-450 GPM
4"	10-1200 GPM
6"	20-3000 GPM
8"	35-4000 GPM
10"	50-6500 GPM

These flows are to be measured at 100% + or -1.5% accuracy.

Additionally, all meter registers must be encoder adaptable without service interruption for automatic or central meter reading systems. Encoder registers shall not include batteries due to loss of power and causing inadequate meter readings.

6. **GROUP 5 -- Turbine Meters**

Meter shall have a Class II turbine, cast bronze maincase, interchangeable measuring element for in-line service, roll sealed register, direct coupling of gear train to rotor, calibration vane, and programmable encoder adaptable without service interruption. Register shall read in U.S. gallons, meter serial number on meter maincase and register box cover.

7. **GROUP 6 -- Water Meter Strainers**

Strainers shall be 150 psi working pressure plate-type for use with meters of 2" through 8" pipe size. The strainer screen shall be made of perforated 18-8 stainless steel plate and be shaped for maximum rigidity against forces exerted by the flow stream. The effective straining area shall be at least double that of the meter maincase inlet area. The 2" strainer shall be furnished with elliptical two-bolt flanged connections. Strainers 3" and larger shall be furnished with round connections. Bolt circle, bolt hole diameters, and flange dimensions shall be in compliance with meter connection specifications contained in ANSI/AWWA C701-78 or latest revision thereof.

The strainer bodies and covers in sizes 2" through 6" shall be made of cast bronze. Bodies and covers for 8" shall be cast iron. The manufacturer's name, strainer pipe size, and direction of flow (if required) shall be cast in raised letters and shall be clearly visible.

Cover bolts shall be made of 18-8 stainless steel. Strainer cover castings shall be equipped with a vent screw to remove trapped air at installation. Head loss through the strainer shall not exceed 3.0 psi at maximum meter flow rates specified in ANSI/AWWA C701-78 or latest revision.

8. **Meter Parts**

All bidders are requested to submit price information regarding their entire line of meter repair parts. This pricing for meter parts will not be considered as a basis for bid award. The City will establish contracts based upon the parts pricing offered in this bid for the purchase of parts from all current vendors, and if applicable, from manufacturers which are not current suppliers, but have supplied meters to the City in the past, which are still in service. Discounts offered and accepted will remain in effect for entire contract period.

Current published price list shall be furnished with your bid proposal and shall remain in effect for the period of the contract. Discounts proportional parts shall be included as part of this contract. In their proposal, bidders must specify the date/edition/etc. of the price list to be used, and should submit a copy of this price list with their bid. Bidders must state the discount from this price list that will be allowed for City purchases of parts.

SECTION II - GENERAL CONDITIONS

- 1. Submission and Receipt of Bids
  - 1.1. Bidders must use the form furnished by the City.
  - 1.2. Bids having any erasures or corrections must be initialed by the bidder in ink. Bid shall be typewritten or filled in with pen and ink. Manual signature must be in ink.
  - 1.3. It will be the sole responsibility of the bidder to have their bid delivered to the Purchasing office before the closing hour and date shown for receipt of bids.
  - 1.4. Bid envelopes are provided with the bid forms. Your bid should be returned in the envelope (with the correct postage affixed if the bid is mailed) and should show the following information:
    - 1.4.1. Your return mailing address in the upper left-hand corner.
    - 1.4.2. Bid Number - write or type the bid number that appears on the first page of the bid form on the line for it on the front of the envelope.
    - 1.4.3. Bid Items - write or type the title of the bid on line "Sealed bid for: \_\_\_\_\_".
  - 1.5. If not using the City-provided envelope to mail your bid, or if using a delivery service other than the U.S. Post Office, use the following address:
 

City of Pompano Beach  
Purchasing Division  
1190 N.E. 3rd Avenue, Building C  
Pompano Beach, FL 33060  
(or) P.O. Box 1300  
Pompano Beach, FL 33061
  - 1.6. Late bids will not be considered and will be returned unopened.
  - 1.7. Bids transmitted by facsimile will not be accepted.
- 2. Completion of Bid Forms
 

Bidder is to fill in all of the blank spaces on the bid forms and return all numbered pages. Bidder should initial each page at the bottom to indicate he has read and understands the provisions contained on that page.
- 3. Signature Required
 

All bids must show the company name and be signed by a company officer or employee who has the authority to bind the company or firm by their signature. **UNSIGNED BIDS WILL BE REJECTED.**

- 4. Prices to be Firm
 

Bidder certifies that prices, terms and conditions in the bid will be firm for acceptance for a period of ninety (90) days from the date of bid opening unless otherwise stated by the City. Bids may not be withdrawn before the expiration of ninety (90) days. Prices shall be firm, with no escalator clauses unless specified by the City. Bids may be withdrawn after ninety (90) days only upon written notification to the City.
- 5. Extensions
 

If there is an error in extensions (mathematical calculations), unit prices will prevail.
- 6. Delivery
  - 6.1. All items are to be bid F.O.B. delivered with freight charges prepaid and included, to designated addresses as specified by the City on its purchase order(s) or in letter(s) of authorization.
  - 6.2. Bidder must state specific number of calendar days required for delivery of each item bid in appropriate space on the bid pages for consideration of award of this bid.
  - 6.3. Delivery time will be a factor for any orders placed as a result of this bid. The City reserves the right to cancel such order(s) or any part thereof, without obligation, if delivery is not made within the time(s) specified herein and hold the vendor in default. (See Section 10.)
- 7. Signed Bid Considered an Offer
 

This signed bid is considered an offer on the part of the bidder, which offer shall be considered accepted upon approval by the City Commission of the City of Pompano Beach (if required). The City of Pompano Beach will issue a purchase order or a letter of authorization to the successful bidder, as authorization for delivery of the items awarded subject to requirements of detailed specifications and those contained herein.

In the event of default on the part of the bidder after such acceptance, the City may take such action as it deems appropriate including legal action for damages or specific performance.
- 8. Quality
 

All materials used for the manufacture or construction of any supplies, materials or equipment covered by this bid shall be new. The items bid must be new, the latest model, of the best quality and highest grade workmanship unless otherwise specified in this bid by the City.

9. **Brand Names**
- Whenever proprietary names are used, (whether or not followed by the words "or approved equal"), the item(s) will be subject to acceptance and/or approval by authorized City personnel, and said personnel will deem it their prerogative to select the item(s) which are lowest bid, item by item, meeting specifications from the information furnished by the bidder with the bid and/or sample inspection or testing of the item(s) called for herein.
10. **Default Provisions**
- In the event of default by the bidder, the City reserves the right to procure the item(s) bid from other sources and hold the bidder responsible for excess costs incurred as a result. A contractor who defaults on a City contract may be banned from doing business with the City for a period of 36 months from the date of default.
11. **Samples**
- Samples, when requested, must be furnished at, or before, bid opening, (unless otherwise specified), and will be delivered at no charge to the City. If not used and/or destroyed in testing, said sample(s) will, at bidder's request, be returned within thirty (30) days of bid award at bidder's expense. If requested by the City, samples and/or inspection of like items are to be made available in the southeast Florida area.
12. **Acceptance of Materials**
- The material delivered as a result of this bid shall remain the property of the seller until a physical inspection and actual usage of the item(s) is made and thereafter deemed acceptable to the satisfaction of the City, in compliance with the terms and specifications contained herein. In the event that the item(s) supplied to the City is/are found to be defective, or does/do not conform to specifications, the City reserves the right to cancel the order upon written notice to the seller and return the item(s) to the seller at the seller's expense.
13. **Manufacturers' Certifications**
- The City reserves the right to obtain separate manufacturer certification of all statements made in the bid.
14. **Copyrights and Patent Rights**
- Bidder warrants that there has been no violation of copyrights or patent rights in manufacturing, producing and/or selling the item(s) ordered or shipped as a result of this bid, and successful bidder agrees to hold the City harmless from any and all liability, loss or expense by any such violation.
15. **Laws and Regulations**
- All applicable laws and regulations of the Federal government, the State of Florida, and ordinances of the City of Pompano Beach will apply to any resulting bid award.

16. **Taxes**
- The City of Pompano Beach is exempt from any taxes imposed by the State and Federal government. Exemption certificates will be provided upon request. State sales tax exemption certificate #16-08-196489-54C and Federal exemption tax #59-74-0083K apply and appear on each purchase order.
17. **Conflict of Instructions**
- If a conflict exists between the General Conditions and instructions contained herein, and the Specific Conditions and instructions contained herein, the specifics shall govern.
18. **Exceptions to Specifications**
- For purposes of evaluation, bidder must indicate any exception to the specifications, terms, and/or conditions, no matter how minor. This includes any agreement or contract forms supplied by the bidder that are required to be signed by the City. If exceptions are not stated by the bidder, in his bid, it will be understood that the item(s)/services fully comply with the specifications, terms and/or conditions stated by the City. Exceptions are to be listed by the bidder on an attachment included with his bid. The City will not determine exceptions based on a review of any attached sales or manufacturer's literature.
19. **Warranties**
- The City of Pompano Beach will not accept any disclaimer of the warranties of merchantability and fitness for a particular purpose for the product(s) offered. Proposals will clearly state any additional warranties and guarantees against defective materials and workmanship. A copy of the complete manufacturer's warranty statement is to be submitted with the bid.
20. **Retention of Records and Right to Access Clause**
- The successful bidder shall preserve and make available all financial records, supporting documents, statistical records, and any other documents pertinent to this contract for a period of five (5) years after termination of this contract; or if an audit has been initiated and audit findings have not been resolved at the end of these five (5) years, the records shall be retained until resolution of audit finding.
21. **Facilities**
- The City reserves the right to inspect the bidder's facilities at any time, without prior notice.
22. **Anti-collusion Statement**
- By submitting this bid, the bidder affirms that this bid is without previous understanding, agreement, or connection with any person, business, or corporation submitting a bid for the same materials, supplies, or equipment, and that this bid is in all respects fair, and without collusion or fraud.

Additionally, bidder agrees to abide by all conditions of this bid and certifies that they are authorized to sign this bid for the bidder. In submitting a bid to the City of Pompano Beach, the bidder offers and agrees that if the bid is accepted, the bidder will convey, sell, assign or transfer to the City of Pompano Beach all rights, title and interest in and to all causes of action it may now or hereafter acquire under the Anti-trust laws of the United States and the State of Florida for price fixing relating to the particular commodities or services purchased or acquired by the City of Pompano Beach. At the City's discretion, such assignment shall be made and become effective at the time the City tenders final payment to the bidder.

23. Indemnification

Contractor covenants and agrees that it will indemnify and hold harmless the City and all of the City's officers, agents, and employees from any claim, loss, damage, costs, charge or expense arising out of any act, action, neglect or omission by contractor during the performance of the contract, whether direct, or indirect, and whether to any person or property to which the City of said parties may be subject, except that neither the contractor nor any of its sub-contractors will be liable under this section for damages arising out of injury or damage to persons or property directly caused or resulting from the sole negligence of City or any of its officers, agents, or employees.

24. Reservation for Rejections and Award

The City reserves the right to accept or reject any or all bids or parts of bids, to waive irregularities and technicalities, and to request re-bids. The City also reserves the right to award the contract on such items the City deems will best serve the interests of the City. The City further reserves the right to award the contract on a "split order" basis, or such combination as shall best serve the interests of the City unless otherwise specified.

25. Interpretations

Any questions concerning the conditions and specifications contained in this bid should be submitted in writing and received by the Purchasing Division no later than five (5) working days prior to the bid opening. The City of Pompano Beach shall not be responsible for oral interpretations given by any City personnel or representative or others. The issuance of a written addendum is the only official method whereby interpretation, clarification or additional information can be given.

26. Failure to Respond

If you elect not to bid, please return enclosed "Statement of No Bid" card by the bid due date, and state your reason(s) for not bidding. Failure to respond, either by submitting a bid, or by submitting a "Statement of No Bid" card, three (3) times, will result in your name being removed from our mailing list.

27. Bid Tabulations

Bidders who wish to receive a copy of the bid tabulation should request it by enclosing a stamped, self-addressed envelope with their bid, or by requesting a tabulation be sent to their fax machine. Bid results will not be given out by telephone. The City does not notify unsuccessful bidders of contract awards.

28. Assignment

Successful bidder may not assign or transfer this contract, in whole or part, without prior written approval of the City of Pompano Beach.

29. Termination for Convenience of City

Upon seven (7) calendar days written notice delivered by certified mail, return receipt requested, to the successful bidder, the City may without cause and without prejudice to any other right or remedy, terminate the agreement for the City's convenience whenever the City determines that such termination is in the best interest of the City. Where the agreement is terminated for the convenience of the City the notice of termination to the successful bidder must state that the contract is being terminated for the convenience of the City under the termination clause and the extent of the termination. Upon receipt of such notice, the contractor shall promptly discontinue all work at the time and to the extent indicated on the notice of termination, terminate all outstanding sub-contractors and purchase orders to the extent that they relate to the terminated portion of the contract and refrain from placing further orders and subcontracts except as they may be necessary, and complete any continued portions of the work.

30. Conflict of Interest

For purposes of determining any possible conflict of interest, all bidders must disclose if any City of Pompano Beach employee is also an owner, corporate officer, or employee of their business.

Indicate either "Yes" (a City employee is also associated with your business), or "No". If yes, give person(s) name(s) and position(s) with your business.

No  Yes  Name & position \_\_\_\_\_

(Note: If answer is "Yes", you must file a statement with the Supervisor of Elections, pursuant to Florida Statutes 112.313.)

31. Public Entity Crimes

In accordance with Florida State Statute 287.133 (2)(a): A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor or consultant under a contract with any public entity, and may not

transact business with any public entity in excess of the threshold amount provided s. 287.017 for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

32. Governing Procedures

This bid is governed by the applicable sections of the City's General Services Procedures Manual. A copy of the manual is available for review at the City Purchasing office.

33. Identical Tie Bids

In accordance with Section 287.087, State of Florida Statutes, preference shall be given to businesses with Drug-free Workplace Programs. Whenever two or more bids which are equal with respect to price, quality, and service are received for the procurement of commodities or contractual service, a bid received from a business that certifies that it has implemented a Drug-free Workplace Program shall be given preference in the award process.

Established procedures for processing tie bids will be followed if none of the tied vendors have a Drug-free Workplace Program. In order to have a Drug-free Workplace Program, a business shall:

- 1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
- 2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
- 3) Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
- 4) In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States of any State, for a violation occurring in the workplace no later than five (5) days after such conviction.
- 5) Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.

- 6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

If bidder's company has a Drug-free Workplace Program, so certify below:

AS THE PERSON AUTHORIZED TO SIGN THE STATEMENT, I CERTIFY THAT THIS FIRM COMPLIES FULLY WITH THE ABOVE REQUIREMENTS.

\_\_\_\_\_  
Bidder's Signature

34. Invoicing/Payment

All invoices should be sent to: City of Pompano Beach, Accounts Payable, P.O. Drawer 1300, Pompano Beach, Florida, 33061. In accordance with Florida Statutes, Chapter 218, payment will be made within 45 days after receipt of merchandise and a proper invoice. The City will attempt to pay within fewer days if bidder offers a payment discount. The City cannot make advance payments, make deposits in advance of receipt of goods, or pay C.O.D. Bidders should state any payment discount in space provided on Proposal form.

35. Optional Contract Usage

As provided in Section 287.042(17), Florida Statutes, State of Florida agencies may purchase from a contract resulting from this solicitation, provided the Department of Management Services, Division of Purchasing, has certified its use to be cost effective and in the best interest of the State. Contractor(s) may sell such commodities or services certified by the Division to State of Florida agencies at the contractor's option.

36. Non Discrimination

There shall be no discrimination as to race, color, religion, gender, national origin, ancestry, and physical or mental disability in the operations conducted under this contract. Included as applicable activities by the contractor under this section are the solicitation for, or purchase of, goods or services, or the subcontracting of work in performance of this contract.

37. Notice To Contractor

The employment of unauthorized aliens by any contractor is considered a violation of Section 274A(e) of the Immigration and Nationality Act. If the contractor knowingly employs unauthorized aliens, such violation shall be cause for unilateral cancellation of the contract.

SECTION III - PROPOSAL

IMPORTANT!!!

PAGE 18 MUST BE SIGNED FOR BID TO BE  
CONSIDERED, PER GENERAL CONDITIONS SECTION 3

(Note: The eleven-digit number in parentheses is the City's inventory number for each item.)

GROUP 1 -- DISC METERS, 5/8"-2"  
PRICING -- NEW METERS

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1.	1500	5/8" x 3/4" (890-044-32520) Mfg. and part number quoted: _____	\$ _____	\$ _____
2.	700	1" (890-044-32540) Mfg. and part number quoted: _____	\$ _____	\$ _____
3.	60	1-1/2" (890-044-32560) Mfg. and part number quoted: _____	\$ _____	\$ _____
4.	30	2" (890-044-32570) Mfg. and part number quoted: _____	\$ _____	\$ _____
5.	100	5/8" x 3/4" with integrated double check backflow preventer Mfg. and part number quoted: _____	\$ _____	\$ _____
Total, new meters				\$ _____

For Group 1, new meters, state delivery time after receipt of order: \_\_\_\_\_ days

Bidder Name \_\_\_\_\_

**GROUP 1 -- DISC METERS, 5/8"-2"**  
**PRICING -- TRADE-IN ALLOWANCE**

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
6.	1500	5/8" x 3/4", used meter	<\$ _____ >	<\$ _____ >
			credit each	
7.	700	1", used meter	<\$ _____ >	<\$ _____ >
			credit each	
		Total, trade-in allowance		<\$ _____ >
		<b>NET TOTAL, GROUP 1 (total new meters, less total trade-in allowance)</b>		\$ _____

**GROUP 2 -- COMPOUND METERS**

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1.	2	3" (890-044-32580) Mfg. and part number quoted: _____	\$ _____	\$ _____
2.	2	4" (890-044-32590) Mfg. and part number quoted: _____	\$ _____	\$ _____
3.	1	6" (890-044-32601) Mfg. and part number quoted: _____	\$ _____	\$ _____
		<b>TOTAL, GROUP 2</b>		\$ _____

For Group 2, state delivery time after receipt of order: \_\_\_\_\_ days



Bidder Name \_\_\_\_\_

**GROUP 3 -- FIRE SERVICE METERS**

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1.	1	4" x 1" (890-044-32606) Mfg. and part number quoted: _____	\$ _____	\$ _____
2.	3	6" x 1-1/2" (890-044-32607) Mfg. and part number quoted: _____	\$ _____	\$ _____
3.	1	8" x 2" (890-044-32608) Mfg. and part number quoted: _____	\$ _____	\$ _____
4.	1	10" x 2" (890-044-32609) Mfg. and part number quoted: _____	\$ _____	\$ _____
<b>TOTAL, GROUP 3</b>				\$ _____

For Group 3, state delivery time after receipt of order: \_\_\_\_\_ days

Bidder Name \_\_\_\_\_

**GROUP 4 -- FIRE SERVICE TURBINE METERS**

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1.	1	3" (890-044-32585) Mfg. and part number quoted: _____	\$ _____	\$ _____
2.	2	4" (890-044-32589) Mfg. and part number quoted: _____	\$ _____	\$ _____
3.	3	6" (890-044-32600) Mfg. and part number quoted: _____	\$ _____	\$ _____
4.	2	8" (890-044-32610) Mfg. and part number quoted: _____	\$ _____	\$ _____
5.	1	10" Mfg. and part number quoted: _____	\$ _____	\$ _____
<b>TOTAL, GROUP 4</b>				\$ _____

For Group 4, state delivery time after receipt of order: \_\_\_\_\_ days

Bidder Name \_\_\_\_\_

**GROUP 5 -- TURBINE METERS**

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1.	1	3" Mfg. and part number quoted: _____	\$ _____	\$ _____
2.	1	4" Mfg. and part number quoted: _____	\$ _____	\$ _____
3.	1	6" Mfg. and part number quoted: _____	\$ _____	\$ _____
4.	1	8" Mfg. and part number quoted: _____	\$ _____	\$ _____
<b>TOTAL, GROUP 5</b>				\$ _____

For Group 5, state delivery time after receipt of order: \_\_\_\_\_ days

**GROUP 6 -- STRAINERS**

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1.	10	2" x 7" x 2-1/8" Mfg. and part number quoted: _____	\$ _____	\$ _____
2.	10	3" x 6" x 3-3/4" Mfg. and part number quoted: _____	\$ _____	\$ _____
3.	10	4" x 7-1/2" x 4-1/2" Mfg. and part number quoted: _____	\$ _____	\$ _____
4.	10	6" x 9" x 5-1/2" Mfg. and part number quoted: _____	\$ _____	\$ _____
5.	10	8" x 10" x 6-3/4" Mfg. and part number quoted: _____	\$ _____	\$ _____
<b>TOTAL, GROUP 6</b>				\$ _____

For Group 6, state delivery time after receipt of order: \_\_\_\_\_ days

Bidder Name \_\_\_\_\_

**CONTINGENT PRICING -- METER PARTS**

Note: Pricing for meter parts will not be considered as a basis for bid award. Current published price list shall be furnished with your bid proposal and shall remain in effect for the period of the contract.

Price List effective date: \_\_\_\_\_

Discount allowed on published prices (from the above list) \_\_\_\_\_ %

**Bidders shall submit the following with their bid proposal:**

- 1.) Copy of complete manufacturer's warranty for all meters bid.
- 2.) An accuracy chart showing loss of head in psi at maximum flows for each size and type of meter bid.
- 3.) Current published price list for entire line of water meter parts.

Prompt Payment Discount: \_\_\_\_\_ (payment will be made within 45 days after receipt of merchandise and a proper invoice, unless payment discount is offered.)

State location for obtaining parts and service during and after the warranty period:

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Contact: \_\_\_\_\_

If awarded the contract resulting from this bid, will your company agree to extend the same prices, terms and conditions to other governmental entities? (Note -- Optional, agreement not required for contract award.)

\_\_\_\_\_ Yes    \_\_\_\_\_ No

Bidder Name \_\_\_\_\_

Name & address of company submitting bid:

.....  
.....  
..... zip .....

Federal Employer Identification # or Social Security #:

.....

Telephone number: .....

"Fax" number: .....

Acknowledgment of the following Addenda is noted:

Addendum Number(s) \_\_\_\_\_ Date(s) Issued \_\_\_\_\_

**Manual signature of company officer:** .....

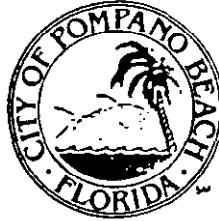
IMPORTANT!!! -- SIGN IN BOX ABOVE ↑, TYPE OR PRINT NAME BELOW ↓

Signer's name (typed or printed): .....

Title of signer: .....

GENERAL SERVICES DEPARTMENT

Purchasing Division  
1190 NE 3 Avenue  
PO Drawer 1300  
Pompano Beach, FL 33061



Phone: (954) 786-4098  
FAX: (954) 786-4168

City of Pompano Beach, Florida

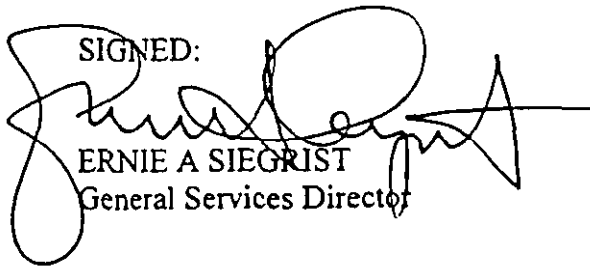
**VOLUNTARY SBE PROGRAM**

The Pompano Beach City Commission has passed Resolution 98-18 that established a voluntary Small Business Enterprise (SBE) Program to encourage and foster the participation of Small Business Enterprises (SBE's) in the central procurement activities of the City. A copy of this resolution is available for review in the Purchasing Division office.

The definition of a Small Business Enterprise (SBE), for the purpose of the Pompano Beach voluntary program, is defined in Florida State Statute 288.703(1) as follows:

*"Small Business" means an independently owned and operated business concern that employs 100 or fewer permanent full-time employees and that, together with its affiliates, has a net worth of not more than \$3 million and an average net income after federal income taxes. Excluding any carryover losses, for the preceding 2 years of not more than \$2 million. As applicable to sole proprietorships, the \$3 million net worth requirement shall include both personal and business investments.*

SIGNED:



ERNIE A SIEGRIST  
General Services Director

**SBE GOAL ANNOUCEMENT**

**BID # H-14-00**

The City of Pompano Beach is strongly committed to insuring the participation of Small Business Enterprises (SBE's) as contractors and subcontractors for the procurement of goods and services. The SBE criteria being used is as stated in FSS 288.703.

Bidders are encouraged to participate in the City of Pompano Beach's Voluntary SBE Program by including as part of their bid package the SBE Participation Form (Exhibit "A"), and the Letter of Intent Form (Exhibit "B"). Bidders who are unable to meet the recommended voluntary goals should also provide the SBE Unavailability Form and Good Faith Effort Report (Exhibits "C" and "D").

The recommended, voluntary goals for this bid are 3% for Small Business Enterprises.

sbe1.doc

CITY OF POMPANO BEACH FLORIDA  
SMALL BUSINESS ENTERPRISE  
PARTICIPATION FORM

Bid Number & Title: H-14-00, Water Meters

Contractor's Name: \_\_\_\_\_

<u>Name of Firm</u>	<u>Contact Person Telephone Number</u>	<u>Type of Work To Be Performed</u>	<u>Contract Amount</u>

FOR CITY USE ONLY

Total Contract Amount \_\_\_\_\_

Total SBE Contract Amount \_\_\_\_\_

Are documents requested submitted accordingly

YES  NO

EXHIBIT "A"



**LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR**

Bid Number H-14-00

TO: \_\_\_\_\_  
(Name of Prime or General Bidder)

The undersigned intends to perform subcontracting work in connection with the above contract as (check below)

\_\_\_\_\_ an individual

\_\_\_\_\_ a corporation

\_\_\_\_\_ a partnership

\_\_\_\_\_ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

at the following price: \_\_\_\_\_

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Name of SBE Contractor)

BY: \_\_\_\_\_

**SBE EXHIBIT "B"**

**SMALL BUSINESS ENTERPRISE (SBE)**  
**UNAVAILABILITY FORM**

**BID # H-14-00**

I, \_\_\_\_\_  
(Name and Title)

of \_\_\_\_\_, certify that on the \_\_\_\_\_ day of

\_\_\_\_\_, I invited the following SBE CONTRACTOR(s) to bid work items to be performed in the City of Pompano Beach:

<u>SBE Contractor</u>	<u>Work Items</u>	<u>Form of Bid Sought</u>
<u>Address</u>	<u>Sought</u>	<u>(i.e., Unit Price, Materials/Labor Labor Only, etc.)</u>

Said SBE CONTRACTOR(s):

\_\_\_ Did not bid in response to the invitation

\_\_\_ Submitted a bid which was not the low responsible bid

\_\_\_ Other: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Attached additional documents as available.

**SBE EXHIBIT "C"**

**GOOD FAITH EFFORT REPORT**

**BID #** H-14-00

1. What portions of the contract have you identified as SBE opportunities?

_____	_____	_____
_____	_____	_____
_____	_____	_____

2. Did you provide adequate information to identified SBE? Please comment on how you provided this information.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. Did you send written notices to SBEs?

\_\_\_\_\_ Yes          \_\_\_\_\_ No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

\_\_\_\_\_ Yes          \_\_\_\_\_ No

If yes, please attach copies of the ads, including name and dates of publication.

5. Did you contact any organizations with large constituents of SBE members for possible sub-contractors? Please attach list of resource organizations used.

6. What type of efforts did you make to assist SBEs in contracting with you ?

\_\_\_\_\_

\_\_\_\_\_

7. List the SBEs you will utilize and subcontract amount.

_____	\$ _____
_____	\$ _____
_____	\$ _____

8. Other comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Note: Please attach the unavailability letters with this report.**

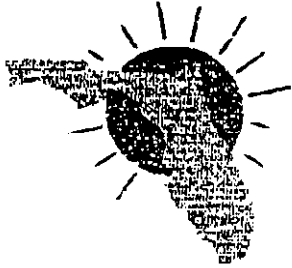
**SBE EXHIBIT "D"**

Feb 10 03 05:04p

Jay H. Meyers

352-377-2464

p. 2



## SUNSTATE METER & SUPPLY, INC.

14001 W. NEWBERRY RD.  
NEWBERRY, FLORIDA 32669-2710

February 10, 2003\

Mr. Jim Balmer  
Lee County Environmental Services  
5180 Tice Street  
Fort Myers, FL 33905

Subject: Neptune Water Meter Pricing.

Dear Mr. Balmer:

Sunstate Meter and Supply, Inc. and Neptune are pleased to allow Lee County Utilities to "Piggy-Back" the City of Pompano Beach Bid # H-14-00. For your convenience I have listed their 5/8"x3/4"-2" Pricing below. I have also included a copy of their price sheet for your review. These prices are good through February 21, 2004. If you have any questions please feel free to call me anytime.

Neptune	5/8"x3/4"	T-10 EnviroBrass Meter	\$24.25
Neptune	1"	T-10 EnviroBrass Meter	\$67.00
Neptune	1 1/2"	T-10 EnviroBrass Meter	\$167.00
Neptune	2"	T-10 EnviroBrass Meter	\$233.00

Sincerely,

A handwritten signature in black ink, appearing to read "Jay H. Meyers", with a long horizontal flourish extending to the right.

Jay H. Meyers  
Sales

Delivery is Stock - 3 Weeks ARO  
Freight Allowed  
Prices Good through February 21, 2004

**GENERAL SERVICES DEPARTMENT**

Purchasing Division  
1190 NE 3 Avenue  
PO Drawer 1300  
Pompano Beach, FL 33061



Phone: (954) 786-4098  
FAX: (954) 786-4168

**City of Pompano Beach, Florida**

February 18, 2003

Attn: Earl Pflaumer, CPPB  
Purchasing Agent  
**Lee County Purchasing**  
P O Box 398  
Ft Myers, Florida 33902

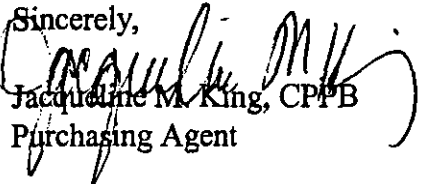
03 FEB 24 PM 12:35

Pursuant to your letter of February 13, 2003, requesting information needed for Bid H-14-00, Water Meters, I am sending the information you rested under separate cover. The documentation is too large to fax, so it is being mailed today, February 18, 2003.

Item #5 of your letter requesting permission from us to piggyback this bid is not enclosed, as it is not up to our city who can piggyback this bid. You will have to get in touch with Terry Gullett, Territory Manager of Neptune Technology Group, Inc. requesting that information. His voice mail is 800-448-2943, Ext. 1540.

In the meantime, if you need any further information, please feel free to let me know.

Sincerely,

  
Jacqueline M. King, CPPB  
Purchasing Agent

PC: Terry Gullett, Neptune Technology Group, Inc.

GENERAL SERVICES DEPARTMENT

Purchasing Division  
1190 NE 3 Avenue  
PO Drawer 1300  
Pompano Beach, FL 33061



Phone: (954) 786-4095  
FAX: (954) 786-4165

City of Pompano Beach, Florida

February 23, 2000

L.M. Russo, Controller  
Schlumberger Resource Management Services, Inc.  
1600 Alabama Hwy. 229 South  
Tallasse, Alabama 36078

Via Fax to (334) 283-7299

Dear Mr. Russo,

The City Commission, at their February 22 meeting, agenda item 8, approved award of an open-end contract at the unit prices bid to your company for the following:

Bid H-14-00, Water Meters

The contract period shall be one year, through February 21, 2001. The City will place orders for water meters, as needed, at the unit prices bid, throughout the contract period. The specifications, terms and conditions of the Bid shall remain firm for the initial contract period, and any renewal period. Contract renewal may be made as per the terms contained in the bid document.

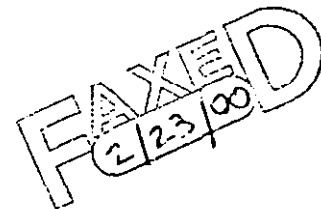
Please call me if you have any questions at (954) 786-4098. Thank you for your cooperation in this matter.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Leeta Hardin".

Leeta Hardin, CPPB  
Purchasing Supervisor

pc: Terry Gullett, Client Services Manager, Schlumberger  
Mark Eddington, Water Distribution Supervisor  
file



**GENERAL SERVICES DEPARTMENT**

Purchasing Division  
1190 NE 3 Avenue  
PO Drawer 1300  
Pompano Beach, FL 33061



Phone: (954) 786-4098  
FAX: (954) 786-4168

**City of Pompano Beach, Florida**

February 10, 2003

Terry D. Gullett, Territory Manager  
Neptune Technology Group, Inc.  
1600 Alabama Highway 229  
Tallasse, Alabama 36078

Dear Mr. Gullett,

This letter is to confirm the City of Pompano Beach is exercising the contract renewal option with your company for "Water Meters" issued pursuant to Bid #H-14-00. This renewal will be for one (1) year, from February 22, 2003 to February 21, 2004. The prices, terms and conditions of the original bid and contract period remain unchanged for this renewal period. Meters will be ordered as needed throughout the contract.

Thank you for your continued cooperation.

Very truly yours,

Leeta Hardin  
Purchasing Supervisor

pc: file  
Frankie Chevere, Central Stores  
Mark Eddington, Water Distribution

**FAXED**  
2/10/03





**To:** Ms. Leeta Hardin  
City of Pompano Beach  
Purchasing Division  
1190 NE 3<sup>rd</sup> Ave.  
Pompano Beach, FL 33061  
FAX: 954-786-4168

**From:** Joe Bridges  
V. P. Sales

**Date:** December 7, 2001

**Subject:** Name Change

HTE vendor # 32180

Effective November 1, 2001, Schlumberger RMS – Water Division has changed their name. Our new name is **Neptune Technology Group, Inc.** Our new federal ID# is **13-4192672**. Please remit payments to the following address:

Neptune Technology Group, Inc.  
Dept 3321  
P. O. Box 2153  
Birmingham AL 35287-3321

Our physical address has not changed. It remains 1600 Alabama Hwy 229, Tallassee AL 36078. All written correspondence should also go to this address.

Please call me if you have any questions.

Best Regards,

*Joe Bridges* (10)

Joe Bridges  
V. P. Sales

JB/ss

# ATTACHMENT # 8

Bidder Schlumberger Resource Management Services, Inc.  
1600 Alabama Hwy. 229 South  
Tallasse, AL 36078

## SECTION III - PROPOSAL

**IMPORTANT!!!**  
PAGE 18 MUST BE SIGNED FOR BID TO BE  
CONSIDERED, PER GENERAL CONDITIONS SECTION 3

(Note: The eleven-digit number in parentheses is the City's inventory number for each item.)

### GROUP 1 -- DISC METERS, 5/8"-2" PRICING -- NEW METERS

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1.	1500	5/8" x 3/4" (890-044-32520)	\$ 24.50	\$ 36,750.00
		Mfg. and part number quoted:	SCHLUMBERGER NEPTUNE T-10 <u>ED2B31R8G1</u>	
2.	700	1" (890-044-32540)	\$ 67.00	\$ 46,900.00
		Mfg. and part number quoted:	SCHLUMBERGER NEPTUNE T-10 <u>ED2F21R8G1</u>	
3.	60	1-1/2" (890-044-32560)	\$ 167.00	\$ 10,020.00
		Mfg. and part number quoted:	SCHLUMBERGER NEPTUNE T-10 <u>ED2H11R8G2</u>	
4.	30	2" (890-044-32570)	\$ 233.00	\$ 6,990.00
		Mfg. and part number quoted:	SCHLUMBERGER NEPTUNE T-10 <u>ED2J11R8G2</u>	
5.	100	5/8" x 3/4" with integrated double check backflow preventer	\$ 115.00	\$ 11,500.00
		Mfg. and part number quoted:	SCHLUMBERGER DOUBLE CHECK T-10 <u>EB1B31R8G1</u>	
		Total, new meters		\$ 112,160.00

For Group 1, new meters, state delivery time after receipt of order: 30 days

**GROUP 1 -- DISC METERS, 5/8"-2 1/2"**  
**PRICING -- TRADE-IN ALLOWANCE**

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
6.	1500	5/8" x 3/4", used meter	<\$ <u>1.50</u> >	<\$ <u>2,250.00</u> >
			credit each	
7.	700	1", used meter	<\$ <u>4.00</u> >	<\$ <u>2,800.00</u> >
			credit each	
		Total, trade-in allowance		<\$ <u>5,050.00</u> >
		<b>NET TOTAL, GROUP 1 (total new meters, less total trade-in allowance)</b>		<b>\$ <u>107,110.00</u></b>

**GROUP 2 -- COMPOUND METERS**

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1.	2	3" (890-044-32580)	\$ <u>1,140.00</u>	\$ <u>2,280.00</u>
		Mfg. and part number quoted:	<u>SCHLUMBERGER NEPTUNE TRU/FLO COMPOUND EC3BR8G</u>	
2.	2	4" (890-044-32590)	\$ <u>1,407.00</u>	\$ <u>2,814.00</u>
		Mfg. and part number quoted:	<u>SCHLUMBERGER NEPTUNE TRU/FLO COMPOUND EC3CR8G</u>	
3.	1	6" (890-044-32601)	\$ <u>2,741.00</u>	\$ <u>2,741.00</u>
		Mfg. and part number quoted:	<u>SCHLUMBERGER NEPTUNE TRU/FLO COMPOUND EC3DR8G</u>	
		<b>TOTAL, GROUP 2</b>		<b>\$ <u>7,835.00</u></b>

For Group 2, state delivery time after receipt of order: 30 days

Bidder Name: Schlumberger Resource  
 Schlumberger Resource  
 Management Services, Inc.  
 1600 Alabama Hwy. 229 South  
 Tallahassee, AL 38078

**GROUP 3 -- FIRE SERVICE METERS**

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1.	1	4" x 1" (890-044-32606)	\$ <u>3,360.00</u>	\$ <u>3,360.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE HP PROTECTUS</u> <u>EP4C1R8G</u>		
2.	3	6" x 1-1/2" (890-044-32607)	\$ <u>5,145.00</u>	\$ <u>15,435.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE HP PROTECTUS</u> <u>EP4D1R8G</u>		
3.	1	8" x 2" (890-044-32608)	\$ <u>6,353.00</u>	\$ <u>6,353.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE HP PROTECTUS</u> <u>EP4E1R8G</u>		
4.	1	10" x 2" (890-044-32609)	\$ <u>9,765.00</u>	\$ <u>9,765.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE HP PROTECTUS</u> <u>EP4F1R8G</u>		
<b>TOTAL, GROUP 3</b>				\$ <u>34,913.00</u>

For Group 3, state delivery time after receipt of order: 30 days

**GROUP 4 -- FIRE SERVICE TURBINE METERS**

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1.	1	3" (890-044-32585)	\$ <u>1,590.00</u>	\$ <u>1,590.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE HP FIRE SERVICE TURB</u> <u>ET5B1R8G</u>		
2.	2	4" (890-044-32589)	\$ <u>1,900.00</u>	\$ <u>3,800.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE HP FIRE SERVICE TURBI</u> <u>ET5C1R8G</u>		
3.	3	6" (890-044-32600)	\$ <u>3,000.00</u>	\$ <u>9,000.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE HP FIRE SERICE TURBIN</u> <u>ET5D1R8G</u>		
4.	2	8" (890-044-32610)	\$ <u>4,050.00</u>	\$ <u>8,100.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE HP FIRE SERVICE TURBI</u> <u>ET5E1R8G</u>		
5.	1	10" Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE HP FIRE SERVICE TURBI</u>	\$ <u>5,600.00</u>	\$ <u>5,600.00</u>
		<u>ET5F1R8G</u>		
<b>TOTAL, GROUP 4</b>				\$ <u>28,090.00</u>

For Group 4, state delivery time after receipt of order: 30 days

**GROUP 5 -- TURBINE METERS**

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1.	1	3"	\$ <u>415.00</u>	\$ <u>415.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE HP TURBINE ET4BR8G</u>		
2.	1	4"	\$ <u>750.00</u>	\$ <u>750.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE HP TURBINE ET4CR8G</u>		
3.	1	6"	\$ <u>1,420.00</u>	\$ <u>1,420.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE HP TURBINE ET4DR8G</u>		
4.	1	8"	\$ <u>2,010.00</u>	\$ <u>2,010.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE HP TURBINE ET4ER8G</u>		
<b>TOTAL, GROUP 5</b>				\$ <u>4,595.00</u>

For Group 5, state delivery time after receipt of order: 30 days

**GROUP 6 -- STRAINERS**

<u>Item No.</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1.	10	2" x 7" x 2-1/8"	\$ <u>112.00</u>	\$ <u>1,120.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE STRAINER 53120-000</u>		
2.	10	3" x 6" x 3-3/4"	\$ <u>259.00</u>	\$ <u>2,590.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE STRAINER 53107-000</u>		
3.	10	4" x 7-1/2" x 4-1/2"	\$ <u>348.00</u>	\$ <u>3,480.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE STRAINER 53107-100</u>		
4.	10	6" x 9" x 5-1/2"	\$ <u>762.00</u>	\$ <u>7,620.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE STRAINER 52000-201</u>		
5.	10	8" x 10" x 6-3/4"	\$ <u>907.00</u>	\$ <u>9,070.00</u>
		Mfg. and part number quoted: <u>SCHLUMBERGER NEPTUNE STRAINER 52000-301</u>		
<b>TOTAL, GROUP 6</b>				\$ <u>23,880.00</u>

For Group 6, state delivery time after receipt of order: 30 days

**CONTINGENT PRICING -- METER PARTS**

Note: Pricing for meter parts will not be considered as a basis for bid award. Current published price list shall be furnished with your bid proposal and shall remain in effect for the period of the contract.

Price List effective date: JANUARY 1, 1997 (FORM U676-6)

Discount allowed on published prices (from the above list) 15 %

**Bidders shall submit the following with their bid proposal:**

- 1.) Copy of complete manufacturer's warranty for all meters bid.
- 2.) An accuracy chart showing loss of head in psi at maximum flows for each size and type of meter bid.
- 3.) Current published price list for entire line of water meter parts.

Prompt Payment Discount: N/A (payment will be made within 45 days after receipt of merchandise and a proper invoice, unless payment discount is offered.)

State location for obtaining parts and service during and after the warranty period:

Company: \_\_\_\_\_  
Address: Schlumberger Resource  
Management Services, Inc.  
1600 Alabama Hwy. 229 South  
Tallasse, AL 36078  
Phone: 334-283-6555 OR 1-800-633-8754  
Contact: CUSTOMER SERVICE

If awarded the contract resulting from this bid, will your company agree to extend the same prices, terms and conditions to other governmental entities? (Note -- Optional, agreement not required for contract award.)

Yes  No

Name & address of company submitting bid:

.....  
Schlumberger Resource  
Management Services, Inc.  
.....  
1600 Alabama Hwy. 229 South  
Tallasse, AL 36078  
..... zip .....

Federal Employer Identification # or Social Security #:

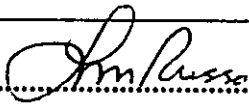
..... 51-0204865 .....

Telephone number: ..... 334-283-6555 .....

"Fax" number: ..... 334-283-7299 .....

Acknowledgment of the following Addenda is noted:

Addendum Number(s) \_\_\_\_\_ Date(s) Issued \_\_\_\_\_

Manual signature of company officer:  .....

IMPORTANT!!! -- SIGN IN BOX ABOVE ↑. TYPE OR PRINT NAME BELOW ↓

Signer's name (typed or printed): ..... L. M. RUSSO .....

Title of signer: ..... CONTROLLER .....



CITY OF POMPANO BEACH FLORIDA  
SMALL BUSINESS ENTERPRISE  
PARTICIPATION FORM

Schlumberger Resource  
Management Services, Inc  
1600 Alabama Hwy. 229  
Tallassee, AL 36078

Bid Number & Title: H-14-00, Water Meters

Contractor's Name: Schlumberger Resource Management Services, Inc

<u>Name of Firm</u>	<u>Contact Person Telephone Number</u>	<u>Type of Work To Be Performed</u>	<u>Contract Amount</u>
<i>N/A - Sole Supplier</i>			

FOR CITY USE ONLY

Total Contract Amount \_\_\_\_\_

Total SBE Contract Amount \_\_\_\_\_

Are documents requested submitted accordingly

YES  NO

EXHIBIT "A"

**LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR**

Bid Number H-14-00

TO: \_\_\_\_\_  
(Name of Prime or General Bidder)

The undersigned intends to perform subcontracting work in connection with the above contract as (check below)

\_\_\_\_\_ an individual

\_\_\_\_\_ a partnership

*N/A*

\_\_\_\_\_ a corporation

\_\_\_\_\_ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

at the following price: \_\_\_\_\_

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Name of SBE Contractor)

BY: \_\_\_\_\_

**SBE EXHIBIT "B"**

**SMALL BUSINESS ENTERPRISE (SBE)**  
**UNAVAILABILITY FORM**

**BID # H-14-00**

Schlumberger Resource  
Management Services, Inc.  
1600 Alabama Hwy. 229 South  
Talladega, AL 36078

I, \_\_\_\_\_  
(Name and Title)

of \_\_\_\_\_, certify that on the \_\_\_\_\_ day of

\_\_\_\_\_, I invited the following SBE CONTRACTOR(s) to bid work items to be performed in the City of Pompano Beach:

SBE Contractor Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor Labor Only, etc.)
---------------------------	----------------------	--

N/A

Said SBE CONTRACTOR(s):

- Did not bid in response to the invitation
- Submitted a bid which was not the low responsible bid
- Other: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Attached additional documents as available.

**SBE EXHIBIT "C"**

Schlumberger Resource  
Management Services, Inc.  
1600 Alabama Hwy. 229 South  
Tallahassee, AL 36078

**GOOD FAITH EFFORT REPORT**

BID # H-14-00

1. What portions of the contract have you identified as SBE opportunities?

_____	_____	
_____	_____	
_____	_____	

2. Did you provide adequate information to identified SBE? Please comment on how you provided this information.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. Did you send written notices to SBEs?

\_\_\_\_ Yes      \_\_\_\_ No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

\_\_\_\_ Yes      \_\_\_\_ No

If yes, please attach copies of the ads, including name and dates of publication.

5. Did you contact any organizations with large constituents of SBE members for possible sub-contractors? Please attach list of resource organizations used.

6. What type of efforts did you make to assist SBEs in contracting with you?

\_\_\_\_\_

\_\_\_\_\_

7. List the SBEs you will utilize and subcontract amount.

_____	\$ _____
_____	\$ _____
_____	\$ _____

8. Other comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Note: Please attach the unavailability letters with this report.**

**SBE EXHIBIT "D"**

# Neptune® T-10®

Sizes: 5/8", 3/4", and 1"

## Features & Benefits

### Roll-Sealed Register

- Magnetic drive, low torque registration ensures accuracy
- Impact-resistant register design with flat glass for legibility
- 1:1 ratio, low flow indicator detects leaks
- Bayonet mount allows in-line serviceability
- Tamperproof seal pin deters theft
- Date of manufacture, size, and model stamped on dial face

### Cast Bronze Maincase

- Sturdy, durable, corrosion resistant
- Resists internal pressure stresses and external damage
- Handles in-line piping variations and stresses
- Residual value
- Electrical grounding continuity

### Nutating Disc Measuring Chamber

- Positive displacement
- Widest effective flow range for greater utility revenue
- Extended low flow accuracy
- Corrosion resistant
- Floating chamber design is unaffected by meter position or in-line piping stresses

### Systems Compatibility

- Adaptability to all Schlumberger systems for flexibility

## Performance

Every Neptune T-10 water meter meets or exceeds the latest AWWA C700 Standard. Its nutating disc, positive displacement principle is time proven for accuracy and dependability since 1892, ensuring maximum utility revenue.

## Construction

The Neptune T-10 water meter consists of three major assemblies: a roll-sealed

register, a cast bronze maincase, and a nutating disc measuring chamber.

The roll-sealed register eliminates lens fogging, uses naturally lubricated molded gears, and contains a low flow indicator for leak detection. For reading convenience, the register can be mounted in one of four positions on the meter. All T-10 water meters can accommodate standard or remote reading registers for the Neptune ARB<sup>2</sup> (Automatic Reading and Billing) System, ProRead<sup>™</sup> ARB, Pulser-RM visual remote system, TRICON-S<sup>2</sup>, TRICON-E2<sup>2</sup> and FloSearch<sup>™</sup> Systems.

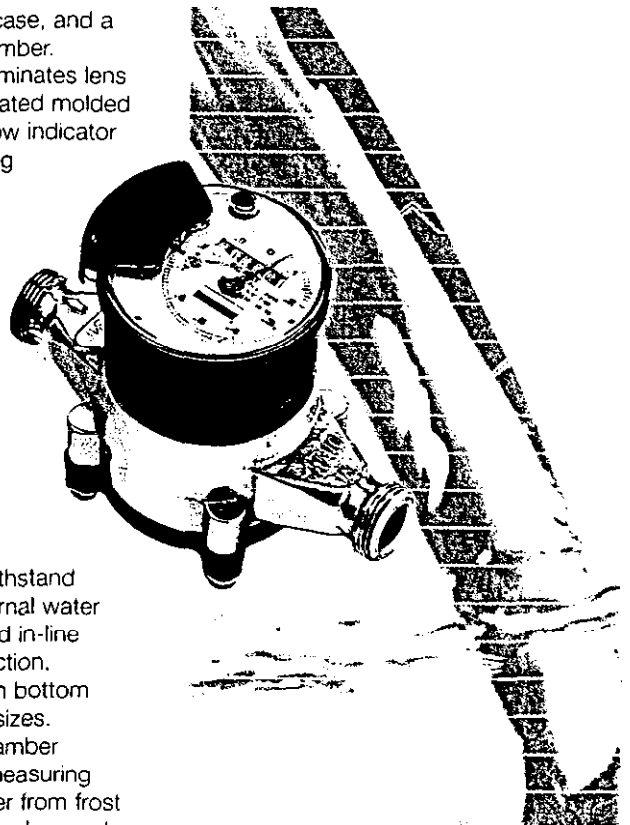
The corrosion-resistant cast bronze maincase will withstand most service conditions: internal water pressure, rough handling, and in-line piping stress. For frost protection, synthetic polymer or cast iron bottom caps are available in certain sizes.

The innovative floating chamber design of the nutating disc measuring element protects the chamber from frost damage while the unique chamber seal extends the low flow accuracy by sealing the chamber outlet port to the maincase outlet port. The nutating disc measuring element utilizes corrosion-resistant materials throughout and a thrust roller to minimize wear.

## Warranty & Maintenance

Neptune T-10 water meters are warranted by Schlumberger for performance, materials, and workmanship. Schlumberger further offers an optional post-warranty maintenance program for extended service life.

When desired, maintenance is easily accomplished either by replacement of major assemblies or individual components.



Residential  
Meter

### Guaranteed Systems Compatibility

All Neptune T-10 meters are guaranteed adaptable to our Pulser-RM, ARB<sup>1</sup>, ProRead<sup>1</sup> ARB<sup>1</sup>, CMR, TRICON-S, TRICON-E2<sup>1</sup>, ADVANCE<sup>1</sup>, and MAPS<sup>1</sup> systems without removing the meter from service.

### Specifications

#### Applications

Cold water measurement of flow in one direction

#### Maximum Operating Pressure

150 psi (1034 kPa)

#### Maximum Operating Temperature

80°F

#### Register

Direct reading, center sweep, roll-sealed, magnetic drive with low flow indicator

#### Measuring Chamber

Nutating disc, synthetic polymer

### Options

#### Sizes

5/8", 5/8" x 3/4"  
3/4", 3/4" SL, 3/4" x 1"  
1", 1" x 1 1/4"

#### Units of Measure

U.S. Gallons      Cubic Feet  
Imperial Gallons      Cubic Metres

#### Register Types

##### Direct Reading:

Synthetic polymer box and cover  
Bronze box and cover

##### Remote Reading:

ARB, ProRead ARB  
Pulser-RM  
TRICON-S  
TRICON-E2

#### Reclaim

#### Bottom Caps

Synthetic Polymer (5/8" only)  
Cast Iron  
Bronze, Ductile Iron

#### Connections

Bronze, straight or bent

### Operating Characteristics: Neptune T-10

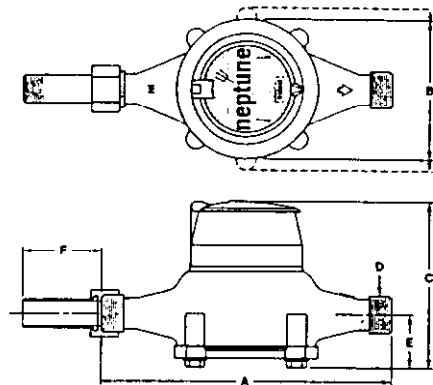
Meter Size	Normal Operating Range @100% Accuracy (±1.5%)	AWWA Standard	Low Flow @95% Accuracy
5/8"	1/2 to 20 U.S. gpm 0.11 to 4.55 m <sup>3</sup> /h	1 to 20 U.S. gpm 0.23 to 4.5 m <sup>3</sup> /h	1/8 U.S. gpm 0.03 m <sup>3</sup> /h
3/4"	3/4 to 30 U.S. gpm 0.17 to 6.82 m <sup>3</sup> /h	2 to 30 U.S. gpm 0.45 to 6.8 m <sup>3</sup> /h	1/4 U.S. gpm 0.06 m <sup>3</sup> /h
1"	1 to 50 U.S. gpm 0.23 to 11.36 m <sup>3</sup> /h	3 to 50 U.S. gpm 0.68 to 11.4 m <sup>3</sup> /h	3/8 U.S. gpm 0.09 m <sup>3</sup> /h

### Registration

Registration (per sweep hand revolution):			
	5/8"	3/4" & 1"	
10 U.S. Gallons	✓	✓	
10 Imperial Gallons	✓	✓	
1 Cubic Foot	✓	✓	
0.1 Cubic Metre	✓	✓	
0.01 Cubic Metre	✓	✓	

Registration Capacity (6-wheel odometer):			
	5/8"	3/4" & 1"	
10,000,000 U.S. Gallons	✓	✓	
10,000,000 Imperial Gallons	✓	✓	
1,000,000 Cubic Feet	✓	✓	
100,000 Cubic Metres	✓	✓	
10,000 Cubic Metres	✓	✓	



### Dimensions

Meter Size	A		C			D		E	F	Approx. Weight lbs/kg
	in/mm	in/mm	Std. in/mm	ARB in/mm	Pul in/mm	Threads per inch	OD in/mm	in/mm	in/mm	
5/8"	7 1/2 191	3 3/8 92	4 7/8 124	5 3/8 137	6 3/4 171	14	1.030 26	1 7/8 41	2 1/2 64	3 3/4 1.7
5/8" x 3/4"	7 1/2 191	3 3/8 92	4 7/8 124	5 3/8 137	6 3/4 171	11 1/2	1.290 33	1 7/8 41	2 5/8 67	4 1.8
3/4"	9 229	4 3/8 111	5 1/2 140	5 13/16 148	7 3/8 187	11 1/2	1.290 33	1 7/8 48	2 5/8 67	6 2.7
3/4" SL	7 1/2 191	4 3/8 111	5 1/2 140	5 13/16 148	7 3/8 187	11 1/2	1.290 33	1 7/8 48	2 5/8 67	5 1/2 2.5
3/4" x 1"	9 229	4 3/8 111	5 1/2 140	5 13/16 148	7 3/8 187	11 1/2	1.626 41	1 7/8 48	2 3/4 70	6 1/2 2.9
1"	10 3/4 273	6 1/2 165	6 3/8 162	6 5/8 168	8 3/16 208	11 1/2	1.626 41	2 1/8 54	2 3/4 70	9 3/4 4.4
1" x 1 1/4"	10 3/4 273	6 1/2 165	6 3/8 162	6 5/8 168	8 3/16 208	11 1/2	1.865 47	2 1/8 54	2 13/16 71	10 1/4 4.6

For more free information by fax, call Schlumberger Water Division, FAX-BACK System: 1-800-823-4417 and select the document you wish to order.

**Customer Service/  
Direct to Factory**  
1600 Alabama Highway 229  
Tallahassee, AL 36078  
Toll Free 1-800-645-1892  
FAX (334) 283-7434  
Customer Service E-mail:  
trident\_order@slb.com  
Customer Support E-mail:  
trident\_support@slb.com

Your Local Schlumberger Representative:

**International Sales**  
Tallahassee, AL  
1-800-645-1892  
(334) 283-6555  
FAX (334) 283-7299

# Neptune® T-10®

Sizes: 1½" and 2"

## Features & Benefits

### Roll-Sealed Register

- Magnetic drive, low torque registration ensures accuracy
- Impact-resistant, flat, glass lens for legibility
- 1:1 Ratio, low flow indicator detects leaks
- Bayonet mount allows in-line serviceability
- Tamperproof seal pin deters theft
- Date of manufacture, size, and model stamped on dial face

### Cast Bronze Maincase

- Sturdy, durable, corrosion resistant
- Resists internal pressure stresses and external damage
- Handles in-line piping stress
- Electrical grounding continuity
- Residual value

### Nutating Disc Measuring Chamber

- Widest effective flow range for greater utility revenue
- Excellent low flow accuracy
- Corrosion resistant
- Floating chamber design is unaffected by meter position or in-line piping stress
- Three-piece chamber for easy serviceability

### Systems Compatibility

- Adaptability to all Neptune Systems provides flexibility

## Performance

Every Neptune T-10 water meter meets or exceeds the latest AWWA C700 Standard. Its nutating disc, positive displacement principle is time proven for accuracy and dependability since 1892, ensuring maximum utility revenue.

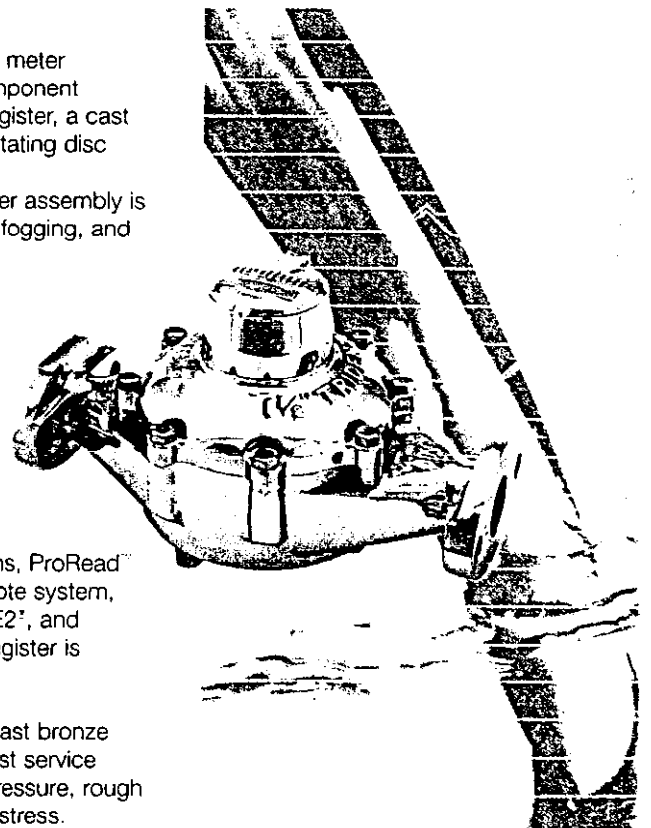
## Construction

The Neptune T-10 water meter consists of three major component assemblies: a roll-sealed register, a cast bronze maincase, and a nutating disc measuring chamber.

The direct-reading register assembly is roll-sealed, eliminating lens fogging, and is coupled magnetically to the measuring chamber. The register contains a low flow indicator for leak detection, and for reading convenience, can be mounted on the meter in any of four positions. Also available are remote reading registers for the Neptune ARB<sup>2</sup> (Automatic Reading and Billing) Systems, ProRead™ ARB, Pulser-RM visual remote system, and TRICON-S<sup>1</sup>, TRICON-E2<sup>2</sup>, and FloSearch™ systems. The register is secured to the maincase via a tamperproof seal pin.

The corrosion-resistant cast bronze maincase will withstand most service conditions: internal water pressure, rough handling, and in-line piping stress.

The innovative floating chamber design of the nutating disc measuring element protects the chamber from frost damage while the unique chamber seal extends the low flow accuracy by sealing the chamber outlet port to the maincase outlet port. The nutating disc measuring element utilizes corrosion-resistant materials throughout and a thrust roller to minimize wear.



Residential  
Meter



**Warranty & Maintenance**

Neptune T-10 water meters are warranted by Schlumberger for performance, materials, and workmanship. Schlumberger further offers an optional post-warranty maintenance program for extended service life.

When desired, maintenance is easily accomplished either by replacement of major assemblies or individual components.

**Guaranteed Systems Compatibility**

All Neptune T-10 meters are guaranteed adaptable to our Pulsar-RM, ARB<sup>®</sup>, ProRead<sup>™</sup> ARB<sup>®</sup>, CMR, TRICON-S, TRICON-E2<sup>®</sup>, ADVANCE<sup>®</sup>, and MAPS<sup>™</sup> systems without removing the meter from service.

**Specifications**

**Application**

Cold water measurement of flow in one direction.

**Maximum Operating Pressure**

150 psi (1034 kPa)

**Maximum Operating Temperature**

80°F

**Register**

Direct reading, center sweep, roll-sealed, magnetic drive with low flow indicator.

**Measuring Chamber**

Nutating disc, synthetic polymer

**Options**

**Sizes**

- 1 1/2" Flanged or screw end
- 2" Flanged or screw end

**Units of Measure**

- U.S. Gallons      Imperial Gallons
- Cubic Feet        Cubic Metres

**Register Types**

Direct Reading:

- Bronze box and cover (standard)

Remote Reading:

- Pulsar-RM      ARB, ProRead ARB
- TRICON-S       TRICON-E2

Reclaim

**Measuring Chamber**

Synthetic Polymer

**Companion Flanges**

Cast Iron or Bronze

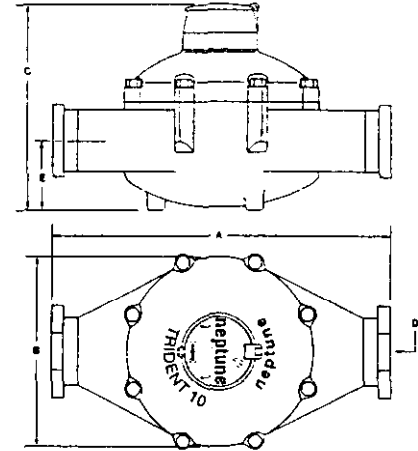
**Operating Characteristics: Neptune T-10**

Meter Size	Normal Operating Range @100% Accuracy (±1.5%)	AWWA Standard	Low Flow @95% Accuracy
1 1/2"	2 to 100 US gpm 0.46 to 22.73 m <sup>3</sup> /h	5 to 100 US gpm 1.1 to 22.7 m <sup>3</sup> /h	3/4 US gpm 0.17 m <sup>3</sup> /h
2"	2 1/2 to 160 US gpm .57 to 36.36 m <sup>3</sup> /h	8 to 160 US gpm 1.8 to 36.3 m <sup>3</sup> /h	1 US gpm 0.23 m <sup>3</sup> /h

**Registration**

Registration (per sweep hand revolution):		
	1 1/2"	2"
100 US Gallons	✓	✓
100 Imperial Gallons	✓	✓
10 Cubic Feet	✓	✓
1 Cubic Metre	✓	✓
0.1 Cubic Metre	✓	✓

Register Capacity (6-wheel odometer):		
	1 1/2"	2"
100,000,000 US Gallons	✓	✓
100,000,000 Imperial Gallons	✓	✓
10,000,000 Cubic Feet	✓	✓
1,000,000 Cubic Metres	✓	✓
100,000 Cubic Metres	✓	✓



**Dimensions**

Meter Size	A		B			C			D		E	Approx. Weight lbs/kg
	in/mm	in/mm	Std in/mm	ARB in/mm	Pul in/mm	Threads per inch	Thread Type	in/mm				
1 1/2" Screw End	12 <sup>5</sup> / <sub>8</sub> 321	8 <sup>1</sup> / <sub>16</sub> 205	8 <sup>1</sup> / <sub>8</sub> 206	8 <sup>9</sup> / <sub>16</sub> 217	9 <sup>5</sup> / <sub>16</sub> 237	11 1/2	1 1/2" NPT	2 <sup>9</sup> / <sub>16</sub> 65	31 14.1			
1 1/2" Flanged End	13 330	8 <sup>1</sup> / <sub>16</sub> 205	8 <sup>1</sup> / <sub>8</sub> 206	8 <sup>9</sup> / <sub>16</sub> 217	9 <sup>5</sup> / <sub>16</sub> 237	—	—	2 <sup>9</sup> / <sub>16</sub> 65	35 15.9			
2" Screw End	15 <sup>1</sup> / <sub>4</sub> 387	9 <sup>7</sup> / <sub>16</sub> 240	9 <sup>5</sup> / <sub>16</sub> 237	9 <sup>3</sup> / <sub>4</sub> 248	11 <sup>1</sup> / <sub>8</sub> 283	11 1/2	2" NPT	3 <sup>1</sup> / <sub>8</sub> 79	40 18.1			
2" Flanged End	17 432	9 <sup>7</sup> / <sub>16</sub> 240	9 <sup>5</sup> / <sub>16</sub> 237	9 <sup>3</sup> / <sub>4</sub> 248	11 <sup>1</sup> / <sub>8</sub> 283	—	—	3 <sup>1</sup> / <sub>8</sub> 79	44 20.0			

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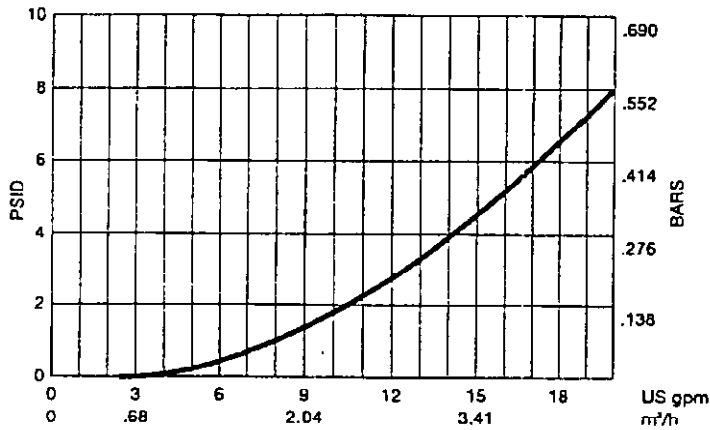
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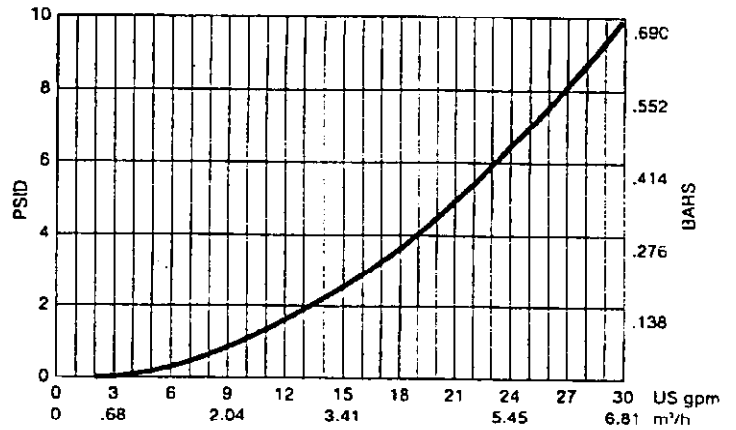
# Neptune<sup>®</sup> T-10<sup>®</sup>

Sizes: 5/8", 3/4", and 1"

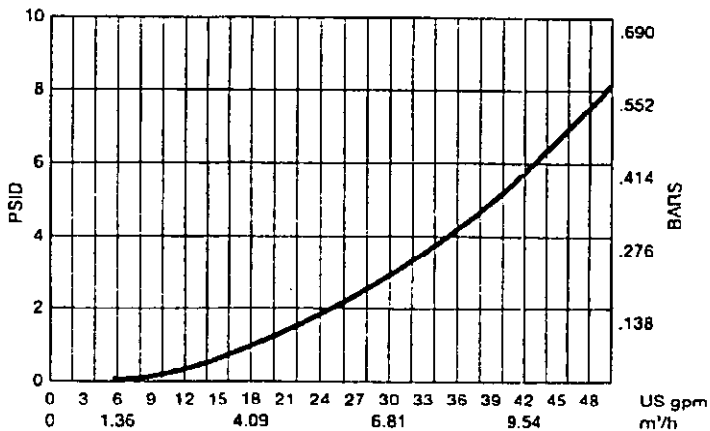
**5/8" Pressure Loss**



**3/4" Pressure Loss**



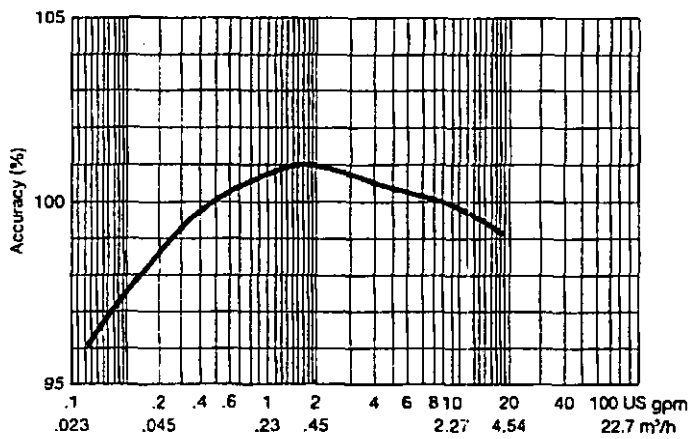
**1" Pressure Loss**



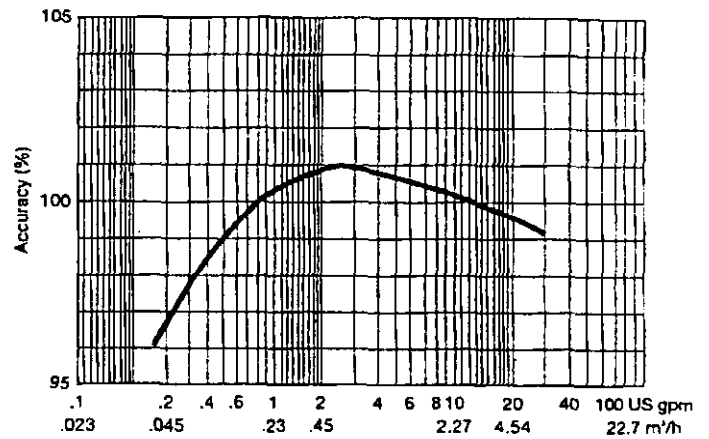
# Neptune<sup>®</sup> T-10<sup>®</sup>

Sizes: 5/8", 3/4", and 1"

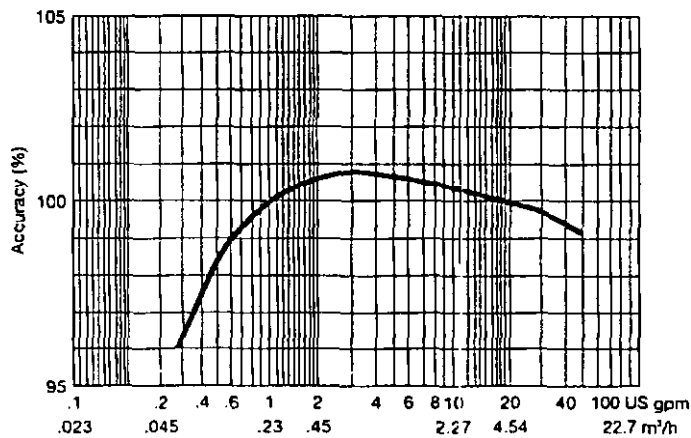
**5/8" Accuracy**



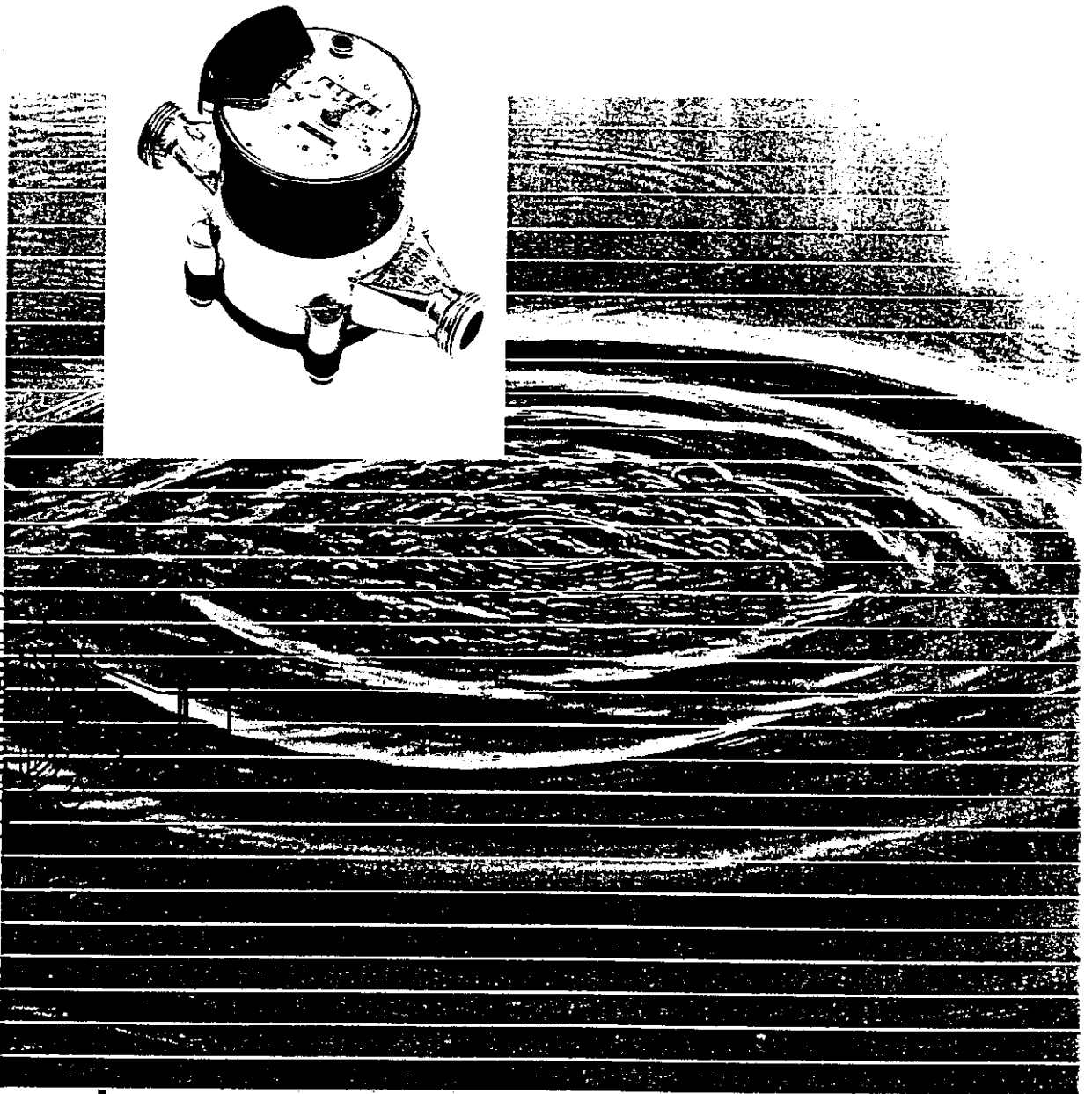
**3/4" Accuracy**



**1" Accuracy**

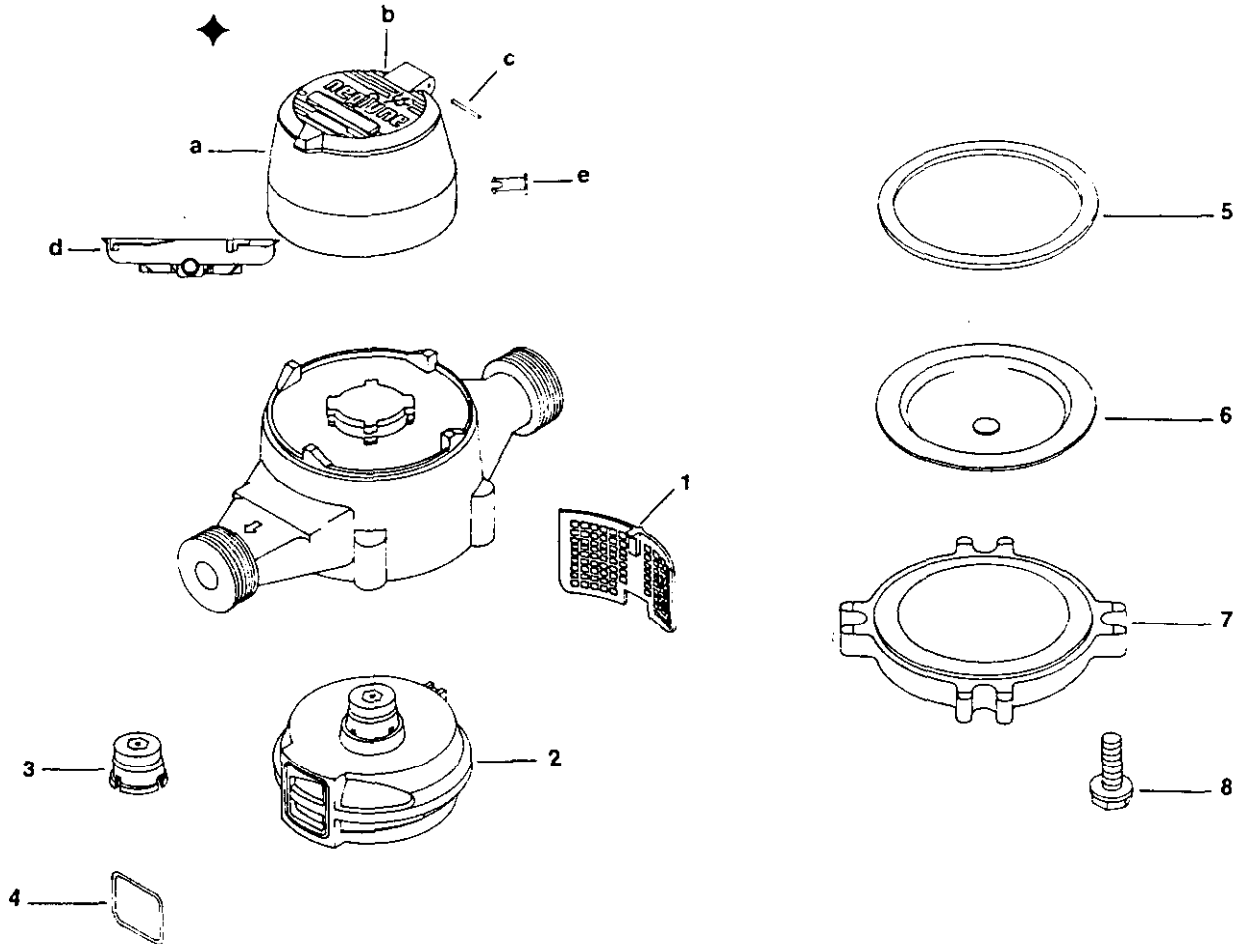


# Neptune<sup>®</sup> T-10<sup>®</sup>



## Parts Catalog

5/8" through 1"

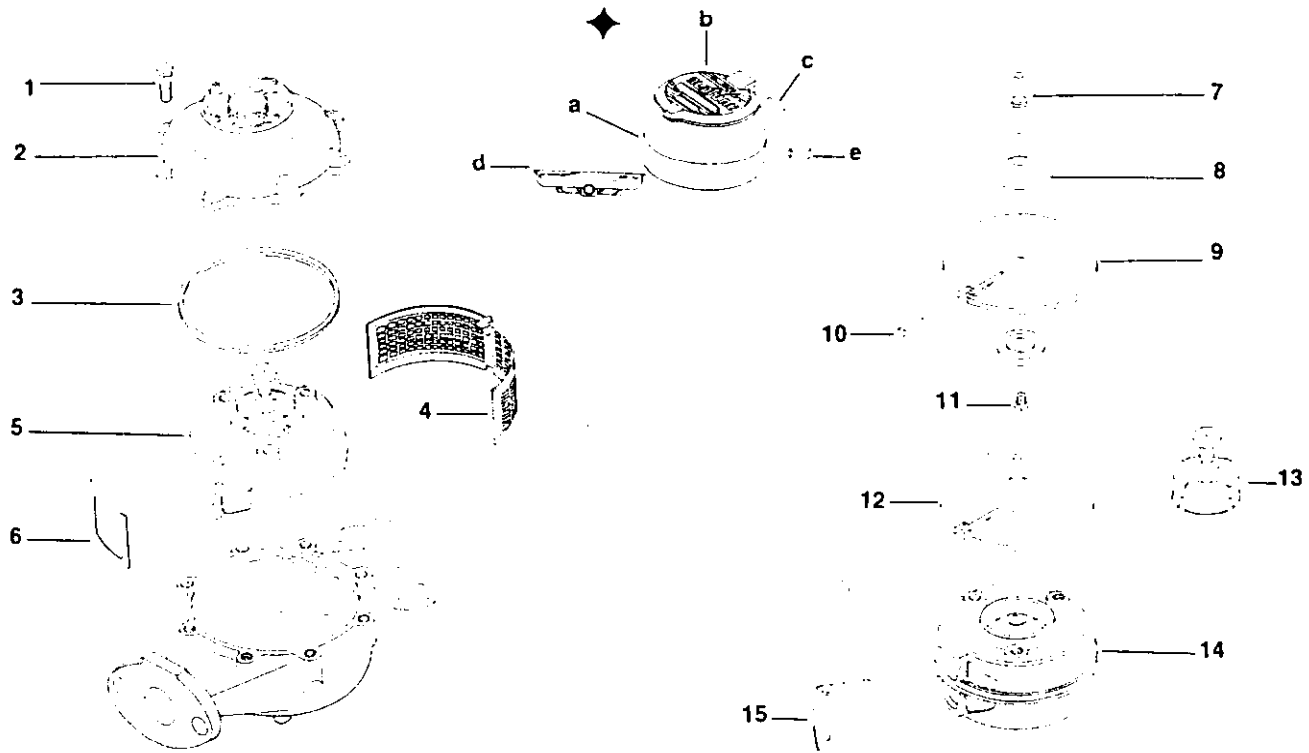


ITEM NO.	DESCRIPTION	PART NUMBER		
		5/8", 5/8" X 3/4"	3/4"	1"
1	Register*			
1	Strainer	9399-004	9831-001	9831-002
2	Measuring Chamber Assembly	9400-000	9826-000	9826-100
3	Control Block Assembly	9415-000	9830-000	9231-004
4	O-Ring, Measuring Chamber	9386-001	9386-002	9386-003
5	Gasket, Bottom Cap	8340-028	8340-034	8340-038
6	Liner, Bottom Cap*	9398-001	9832-001	9841-001
7	Bottom Cap, SP	9397-501	—	—
	Bronze	9397-003	9833-004	9842-004
	Cast Iron	9397-010	9833-010	9842-010
8	Bolt and Washer			
	SST-302 (w/ washer)	8353-102	8353-102	8353-102
	SST-316 (w/ washer)	8353-101	8353-101	8353-101

\*Refer to back page for additional register information.

\*Not required with SP or bronze bottom caps.

1½" and 2"



ITEM NO.	DESCRIPTION	PART NUMBER	
		SP Chamber	
		1½"	2"
1	Register*		
1	Bolts	8307-005	8307-005
2	Cover, Maincase	9082-001	9080-001
3	Gasket, Maincase	9083-001	9083-002
4	Strainer	9084-001	9084-002
5	Measuring Chamber Assembly	9098-500	9098-510
6	Outlet Gasket/O-Ring	8316-607	8316-606
7	Disc Spindle	9091-003	9091-003
8	Disc Half-Ball (two required)	n/a	n/a
9	Disc Plate	n/a	n/a
10	Thrust Roller	9850-100	9850-100
11	Screw	n/a	n/a
12	Ball & Disc Assembly	n/a	n/a
13	Control Block Assembly	9097-000	9097-010
14	Disc Chamber	9090-500	n/a
15	Diaphragm	9086-101	9086-102

\*Refer to back page for additional register information.

## Register Box Parts

ITEM NO.	DESCRIPTION	Bronze	Plastic	Gold Color
a	Register Box Assembled	9131-100	9131-000	9106-002
	Register Box	9133-202	9133-001	
b	Register Cover	9132-202	9132-001	
c	Hinge Pin, Register	8313-403	8350-007	
d	Retainer Ring	9105-001	9105-001	
e	Seal Pin, D/R Register	-	9106-001	
	Seal Pin, ARB Register	-	9309-501	
	Screw, Pulser Register	8460-011	-	

## Roll-Sealed Register Assemblies

Registration	¾"	¾"	1"	1½"	2"
Cu. Ft.	9107-012	9107-022	9107-032	9107-042	9107-052
Gal.	9107-011	9107-021	9107-031	9107-041	9107-051
M <sup>3</sup>	9107-013	9107-023	9107-033	9107-043	9107-053

## Register Assemblies

Size	Registration	Direct Read	ARB* 4-Wheel Encoder	ARB* 6-Wheel Encoder	ProRead* 4-Wheel Encoder	ProRead* 6-Wheel Encoder	Pulser*
¾"	Cu. Ft.	R82F11	R52F11	R52F12	R62F11	R62G12	R22F1
	Gal.	R82G11	R52G11	R52G12	R62G11	R62G12	R22G1
	M <sup>3</sup>	R82M11	R52M11	R52M12	R62M11	R62M12	R22M1
¾"	Cu. Ft.	R82F21	R52F21	R52F22	R62F21	R62F22	R22F2
	Gal.	R82G21	R52G21	R52G22	R62G21	R62G22	R22G2
	M <sup>3</sup>	R82M21	R52M21	R52M22	R62M21	R62M22	R22M2
1"	Cu. Ft.	R82F31	R52F31	R52F32	R62F31	R62F32	R22F3
	Gal.	R82G31	R52G31	R52G32	R62G31	R62G32	R22G3
	M <sup>3</sup>	R82M31	R52M31	R52M32	R62M31	R62M32	R22M3
1½"	Cu. Ft.	R82F42	R52F41	R52F42	R62F41	R62F42	R22F4
	Gal.	R82G42	R52G41	R52G42	R62G41	R62G42	R22G4
	M <sup>3</sup>	R82M42	R52M41	R52M42	R62M41	R62M42	R22M4
2"	Cu. Ft.	R82F52	R52F51	R52F52	R62F51	R62F52	R22F5
	Gal.	R82G52	R52G51	R52G52	R62G51	R62G52	R22G5
	M <sup>3</sup>	R82M52	R52M51	R52M52	R62M51	R62M52	R22M5

\*Registers do not include ARB<sup>®</sup> remote receptacles or Pulser remote odometers.

When ordering registers for 10 Cu. Ft. registration, add SA68.

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# Double Check T-10<sup>®</sup>

## Features and Benefits

### Double Check T-10

- Integral unit design (meter and double check)
- Fits in any standard meter setting (7½")
- 175 psi rated working pressure
- Sturdy, durable, and corrosion resistant
- Test cocks are vertically orientated for ease of testing in tight areas
- Easy-to-follow installation and service procedures
- Built-in strainer standard
- Cartridge check assembly for ease of serviceability
- Positive displacement, nutating disc measurement chamber
- Extended T-10 low flow accuracy
- Bronze maincase for sturdy, durable, and corrosion-resistant dependability
- Adaptable to Schlumberger systems
- Stainless steel check valve assembly spring
- Helps to eliminate in-line piping stresses and external damage
- Widest effective flow range for greater utility revenue
- Low flow indicator for leak indication
- Interchangeable meter parts
- Provides significant labor savings in retrofit installations

## Application

The Schlumberger 5/8" Double Check T-10 delivers a positive drip-tight seal for protection from the reverse flow of nonpotable liquids brought about by a cross connection. The 5/8" Double Check T-10 may be used in the following applications:

- Fire protection systems
- Residential services
- Plumbing systems
- Other systems requiring low hazard protection

## Operation

In normal flow conditions, the independently operating check valves remain closed until there is a demand for water. Each of the checks is designed to open at approximately one (1) psi pressure differential in the direction of flow. At cessation of flow or under a back pressure condition, both checks will close until normal flow is resumed.

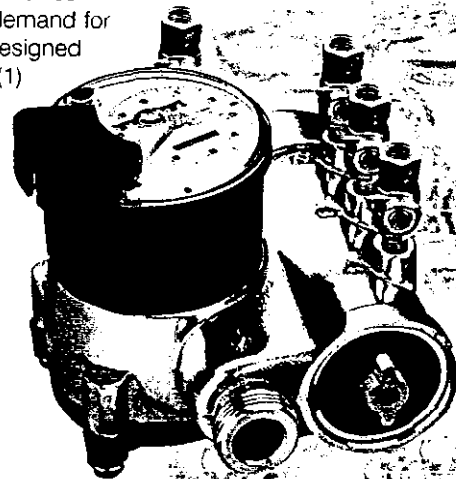
The measuring element in the Double Check T-10 is the same as in our standard T-10 water meter. Its accuracy meets or exceeds the latest AWWA C700 standard. Its nutating disc, positive displacement principle is time proven for accuracy and dependability since 1892 and ensures maximum utility revenue.

## Installation

The Schlumberger Double Check T-10 should be installed with adequate clearance and easy accessibility for maintenance and testing. Refer to local codes for specific installation requirements.

## Approvals

- ASSE 1015 approved
- CSA B64.5 - M88 approved
- Rated as 1/2" backflow device
- For other approvals, please contact factory



New  
Products



**Guaranteed Systems Compatibility**

All Neptune T-10 meters are guaranteed adaptable to our Pulsar-RM, ARB<sup>2</sup>, ProRead<sup>™</sup> ARB<sup>2</sup>, CMR, TRICON-S, TRICON-E2<sup>2</sup>, ADVANCE<sup>2</sup>, and MAPS<sup>™</sup> systems without removing the meter from service.

**Specifications**

**Maximum Operating Pressure**

175 psi

**Maximum Operating Temperature**

T-10 Meter Accuracy rated to 80° F  
Backflow Assembly rated to 110° F

**Backflow Protection**

Two stainless steel spring-loaded check valves

**Measuring Chamber**

Positive displacement, nutating T-10 disc

**Register**

Direct Reading:

- Synthetic polymer box and cover
- Bronze box and cover

Remote Reading:

- ARB<sup>2</sup>, ProRead<sup>™</sup> ARB
- Pulsar-RM
- TRICON-S<sup>2</sup>
- TRICON-E2<sup>2</sup>

**Bottom Caps**

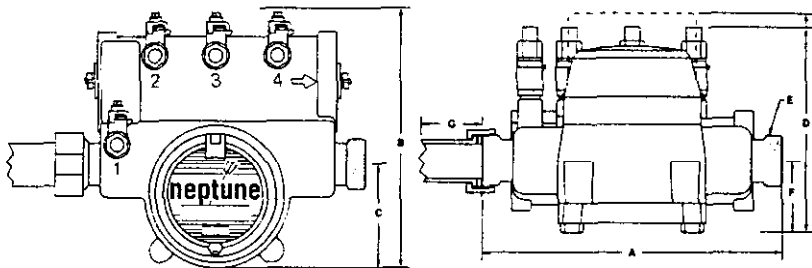
- Synthetic Polymer
- Cast Iron
- Bronze

**Operating Characteristics: Double Check T-10**

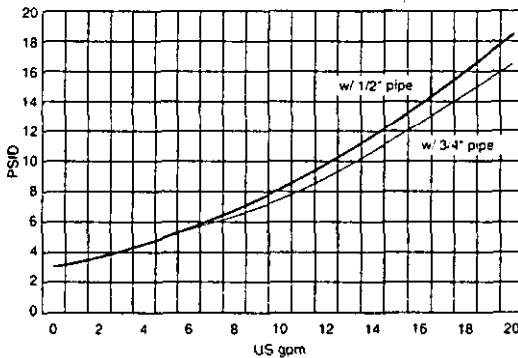
Meter Size	Normal Operating Range @ 100% Accuracy (±1.5%)	AWWA Standard	Low Flow @ 95% Accuracy
5/8"	1/2 to 20 U.S. gpm 0.11 to 4.55 m <sup>3</sup> /h	1 to 20 U.S. gpm 0.23 to 4.5 m <sup>3</sup> /h	1/8 U.S. gpm 0.03 m <sup>3</sup> /h

**Dimensions**

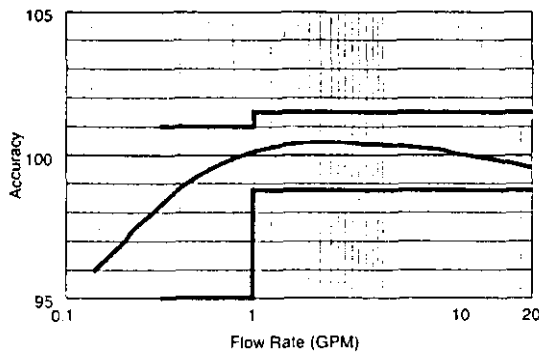
Meter Size	A		B		C		D			E		F		G		Approx Weight lbs/kg
	in/mm	in/mm	in/mm	in/mm	Std in/mm	ARB in/mm	Pul in/mm	Threads per inch	OD in/mm	in/mm	in/mm	in/mm	in/mm			
5/8"	7 1/2 191	5 7/8 150	2 3/8 60	4 7/8 124	5 3/8 137	6 3/4 171	14	1.030 26	1 3/4 44	2 5/8 67	8 3.6					
5/8" x 3/4"	7 1/2 191	5 7/8 150	2 3/8 60	4 7/8 124	5 3/8 137	6 3/4 171	11 1/2	1.290 33	1 3/4 44	2 5/8 67	8 3.6					



**5/8" Double Check T-10 Pressure Loss**



**5/8" Double Check T-10 Accuracy**



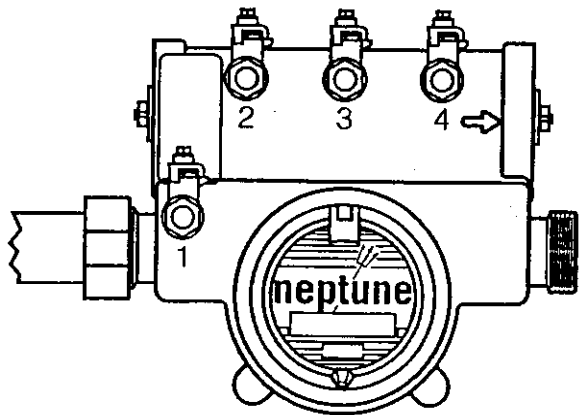
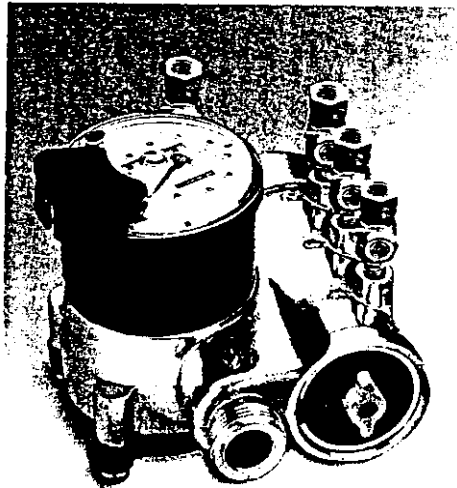
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# Double Check T-10<sup>®</sup>





## 5/8" T-10 Double Check Backflow Meter

### Bill of Materials

Item	L/C	Part No.	Description	Qty	Price
1	P	8579-308	Retaining Ring, End Plate	2	2.75
2	P	11918-002	Knob, Shut-Off	2	.30
3	P	8579-032	Retaining Ring, Stem	2	.90
4	P	11919-001	End Plate w/ Hole	2	1.10
5	P	8316-121	O'ring, End Plate	2	1.00
6	P	8316-046	O'ring, Stem	2	.20
7	P	8316-120	O'ring, Housing	4	.80
8	P	11937-001	Stem	2	5.60
9	A	11950-000	Poppet Valve Assembly	2	1.80
10	A	11951-000	Shut-Off Valve Assembly	2	5.00
11	P	11922-001	Housing, Universal	3	1.00
12	P	11923-001	Hoop, Test Port	2	.30
13	P	8356-534	Spring	2	1.60
14	P	11926-001	Retainer Guide, Spring	1	.50
15	P	11927-001	Strainer, 5/8" Meter/Backflow	1	.25
16	P	8368-816	Test Cock	4	12.00
17	P	8315-023	Pipe Plug, 1/4" NPT, Plastic	4	1.80
18	P	8340-028	Gasket	1	*
19	P	9398-001	Liner	1	*
20	P	9399-004	Strainer, 5/8" T-10	1	*
21	A	9400-000	Chamber Assembly, 5/8" T-10	1	*
22	P	9397-XXX	Bottom Cap (See Bottom Cap Chart)	1	*
23	P	8353-XXX	Bolt ( See Bolt Chart)	4	*
24	A	11959-000	Inlet Module	1	19.50
25	A	11959-100	Check #1 Module	1	5.40
26	A	11959-200	Check #2 Module	1	5.70
27	A	11959-300	Outlet Module	1	19.00
28	P	5500-163	Check Valve Removal Tool	1	50.00
29	P	11977-001	Rubber Repair Kit**	1	8.00

\* These parts are standard 5/8" T-10 water meter parts

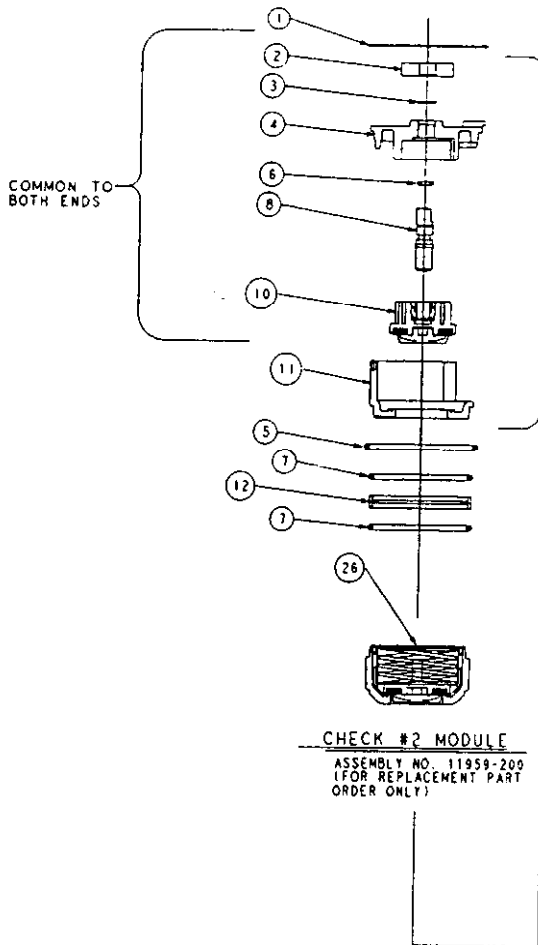
\*\*Item 29 includes item 5 (qty 2), item 7 (qty 4) & item 9 (qty 2)

#### Bottom Cap

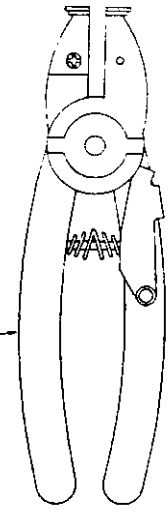
1	Cast Iron	9397-010
2	Bronze	9397-002
3	Plastic	9397-501

#### Bolt

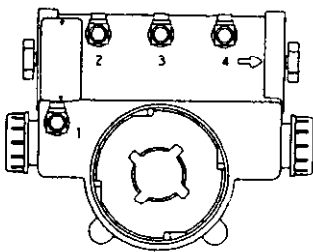
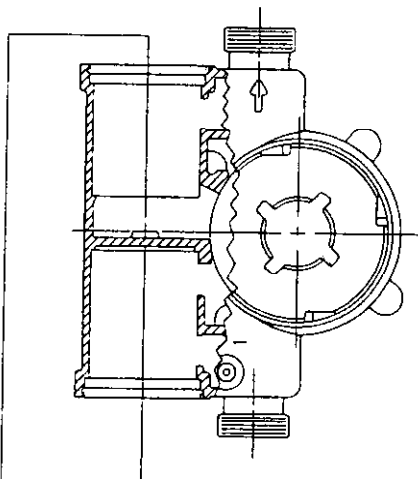
1	302 SST 8353-106
2	316 SST 8353-105



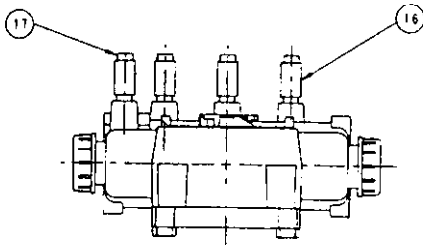
**OUTLET MODULE**  
ASSEMBLY NO. 11959-300  
(FOR REPLACEMENT PART ORDER ONLY)



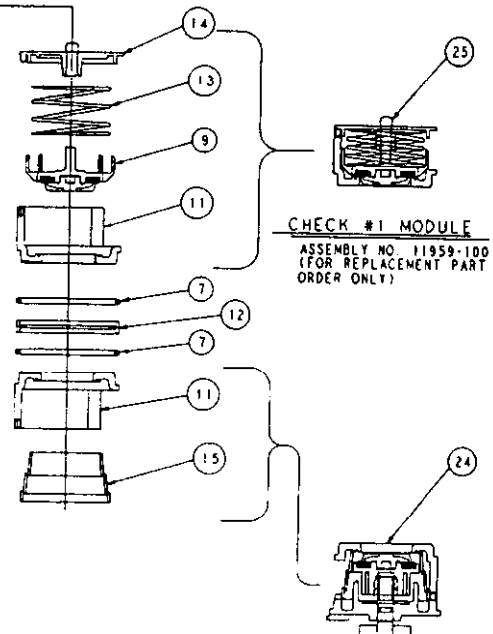
**CHECK #2 MODULE**  
ASSEMBLY NO. 11959-200  
(FOR REPLACEMENT PART ORDER ONLY)



TOP VIEW



SIDE VIEW



**CHECK #1 MODULE**  
ASSEMBLY NO. 11959-100  
(FOR REPLACEMENT PART ORDER ONLY)

**INLET MODULE**  
ASSEMBLY NO. 11959-000  
(FOR REPLACEMENT PART ORDER ONLY)

# Testing

## Differential Gauge Method

Test: To test check valve #1 (#2) for 1.0 psi in the direction of flow under normal no backpressure conditions.

the instructions for check valve #2 are provided in parentheses.

- 1) Before conducting testing, the customer should be contacted and a testing date scheduled. Just prior to testing, the customer should be notified that water service will be temporarily discontinued.
- 2) Verify that the appropriate backflow preventer is being tested and note the general conditions of the backflow preventer and the surrounding area.
- 3) Flush the testcocks. This is done to remove any lodged foreign materials that might interfere with the test.
- 4) Install flair fittings on testcock #2 and #3.
- 5) Maintain test kit and low pressure hose at **same level** as check valve. Close all needle valves.
- 6) Attach high pressure hose from test kit to testcock #2 (#3).
- 7) Close No. 2 shutoff valve (outlet).
- 8) Open testcock #2 (#3). Open the high bleed needle valve and bleed all air from hose and test kit. Close high bleed needle valve.
- 8) Close service shutoff valve then Close No.1 shutoff valve (inlet).
- 9) Open testcock #3 (#4).
- 10) Observe whether the needle on the gauge is maintained at 1.0 psi or above.
- 11) Record the results.
- 12) Close testcocks #2 (3#) and #3 (#4), disconnect the high pressure hose, and **open No.1 shutoff valve, No.2 shutoff valve, before opening the service shutoff valve.**

## Sight Tube Method

Test: To test check valve #1 (#2) will hold back 1.0 psi in the direction of flow under normal no backpressure conditions.

The instructions for check valve #2 are provided in parentheses.

- 1) Before conducting testing, the customer should be contacted and a testing date scheduled. Just prior to testing, the customer should be notified that water service will be temporarily discontinued.
- 2) Verify that the appropriate backflow preventer is being tested and note the general conditions of the backflow preventer and the surrounding area.
- 3) Flush the testcocks. This is done to remove any lodged foreign materials that might interfere with the test.
- 4) Install adapter (tee with ball valve) on testcock #2 (#3).
- 5) Attach a sight tube to testcock #2 (#3).
- 6) Attach a short sight tube or ell to test cock #3 (#4).
- 7) Close No. 2 shutoff valve (outlet).
- 8) Open testcock #2 (#3) and fill the sight tube so that the water level in the sight tube will be at least 28 inches above the water level at sight tube or ell attached to testcock #3 (#4), Close testcock #2 (#3).
- 8) Close service shutoff valve then Close No.1 shutoff valve (inlet).
- 9) Open testcock #3 (#4) and open testcock #2 (#3).
- 10) Observe whether the level in the sight tube is maintained at least 28 inches above the water level at testcock #3 (#4).
- 11) Record the results.
- 12) Close testcocks #2 (3#) and #3 (#4), disconnect the sight tube, and **open No.1 shutoff valve, No.2 shutoff valve, before opening the service shutoff valve.**

For more information by fax, call Schlumberger Water Division, FAX-BACK System: 1-800-823-4417 and select the document you wish to order.

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# SCHLUMBERGER CERTIFICATE OF LIMITED WARRANTY

## Neptune® T-10 Cold Water Meters

1. **Terms of Warranty.** With respect to its Neptune T-10 Water Meters, Schlumberger Resource Management Services, Inc., Water Division ("Schlumberger") warrants the following on meters sold on or after 11/1/92:

(A) The Neptune T-10 Water Meter will be, at the later of (i) the date of original shipment from Schlumberger or (ii) the date of original shipment from Schlumberger-authorized distributor of Neptune T-10 Water Meters (that later date is referred to in this Certificate of Limited Warranty as "the Date of Shipment") and will not exceed two years from the original Date of Shipment, and will remain for a period of 18 months from the Date of Shipment, or 12 months from date of installation, free from manufacturing defects in workmanship and material. Meters are warranted to meet or exceed, as listed herein, accuracy standards of the AWWA Standard C700-95. Repaired meter accuracies shall be warranted according to AWWA Manual M-6 Chapter 5 (1986) Table 5.3.

(B) **Meter Accuracy.** Schlumberger guarantees that its 5/8" Neptune T-10 Water Meters are factory tested to perform to AWWA Standard C700-95 performance accuracies. In addition, a low flow accuracy of 1/8 gpm at 95% for a period of five years from the date of Schlumberger's shipment or the registration of 500,000 gallons, whichever occurs first, will be guaranteed. Schlumberger further guarantees that its 5/8" Neptune T-10 Water Meters will perform to AWWA Manual M-6 repaired meter accuracy for 10 years from the date of Schlumberger's shipment or the registration of 1,500,000 gallons, whichever occurs first. (C) Schlumberger guarantees that its 3/4" Neptune T-10 Water Meters are factory tested to perform to AWWA Standard C700-95 performance accuracies. In addition, a low flow accuracy of 1/4 gpm at 95% for a period of five years from the date of Schlumberger's shipment or the registration of 750,000 gallons, whichever occurs first, will be guaranteed. Schlumberger further guarantees that its 3/4" Neptune T-10 Water Meters will perform to AWWA Manual M-6 repaired meter accuracy for 10 years from the date of Schlumberger's shipment or the registration of 2,250,000 gallons, whichever occurs first.

(D) Schlumberger guarantees that its 1" Neptune T-10 Water Meters are factory tested to perform to AWWA Standard C700-95 performance accuracies. In addition, a low flow accuracy of 3/8 gpm at 95% for a period of five years from the date of Schlumberger's shipment or the registration of 1,000,000 gallons, whichever occurs first, will be guaranteed. Schlumberger further guarantees that its 1" Neptune T-10 Water Meters will perform to AWWA Manual M-6 repaired meter accuracy for 10 years from the date of Schlumberger's shipment or the registration of 3,000,000 gallons, whichever occurs first.

(E) **Extended Low Flow Warranty.** In addition to performing AWWA accuracy specifications for new meters, Neptune 1 1/2" and 2" T-10 Water Meters will, on the date of shipment, perform at the following extended low flow rates at 95-101.0% accuracy:

1 1/2" 3/4 U.S. gpm  
2" 1 U.S. gpm

(F) **Normal Operating Range.** Schlumberger further guarantees that the T-10 Water Meters will on the date of shipment perform in the "normal operating range" at 100± 1.5% accuracy in sizes:

5/8" 1/2-20 gpm      1 1/2" 2-100 gpm  
3/4" 3/4-30 gpm      2" 2 1/2-160 gpm  
1" 1-50 gpm

(G) **Maincase.** The bronze maincase of the Neptune T-10 Water Meter 5/8", 3/4", 1", 1 1/2" and 2" will be at the date of shipment, and

will remain free from manufacturing defects in workmanship and material for the life of the meter. (H) Register. Standard, roll sealed registers of the Neptune T-10 Water Meter will be at the date of shipment, and shall remain for the following periods, free from manufacturing defects in workmanship and material for a period of 10 years. All other components and parts are covered under Schlumberger's standard one year material and workmanship guarantee.

(I) **Frost Protection.** All Neptune T-10 Water Meters shipped with a synthetic polymer or cast iron bottom cap will, commencing upon the date of shipment, be warranted against chamber freeze damage for a period of 10 years.

(J) **System Compatibility Guarantee.** The Schlumberger Neptune T-10 Water Meter is guaranteed adaptable to Pulsar-RM, ARB® ProRead™, MAPS® products, FloSearch™, TRICON-S®, and TRICON-E2® without removing the meter from service.

2. **Product Return.** If a Schlumberger Neptune T-10 Water Meter fails an accuracy test during an applicable warranty period, it may be returned to Schlumberger for repair or replacement at Schlumberger's option. The accuracy test shall be conducted by the customers according to AWWA standards. If foreign material causes the meter not to perform appropriately, all such material shall be removed prior to the customer conducting the test. Any meter being returned for repair to Schlumberger under this performance guarantee must be returned with a copy of the customer's test results. If the meter is returned to Schlumberger without a copy of the test results, under a performance guarantee claim or if Schlumberger's factory test shows the meter to meet current AWWA accuracy standards, Schlumberger will repair or replace the meter at Schlumberger's option after the meter has been tested by Schlumberger. The customer will be charged a nominal testing fee by Schlumberger in such cases. Meters repaired or replaced under the performance guarantee will be guaranteed to perform to AWWA repaired meter accuracy standards at the time of Schlumberger's shipment.

3. **Warranties made only to persons purchasing from Schlumberger or its authorized distributor.** The warranties set forth in this Certificate of Limited Warranty are made by Schlumberger only those persons and entities that purchase Neptune T-10 Water Meters directly from Schlumberger or authorized distributors of Schlumberger's Neptune water meters. Any Neptune T-10 Water Meter obtained in any manner from any person or entity other than purchase from Schlumberger or an authorized distributor of Neptune water meters shall not be covered by the warranties set forth in this Certificate of Limited Warranty; Schlumberger makes no warranties, guarantees, or representations with respect to any Neptune T-10 Water Meter so obtained. The names and addresses of the authorized distributors of Neptune water meters can be obtained by writing to Schlumberger's Customer Relations Department.

4. **Warranties are exclusive: THE WARRANTIES SET FORTH IN THIS CERTIFICATE OF LIMITED WARRANTY ARE IN LIEU OF ANY OTHER WARRANTY, GUARANTEE, OR REPRESENTATION, WHETHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, THE WARRANTY OF MERCHANTABILITY OR THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.**

No warranties are made through or by any means of communication other than this Certificate of Limited Warranty. No employee, agent, or other representative of Schlumberger or any authorized distributor of Neptune products is authorized to make any warranty, guarantee or representation respecting Neptune T-10 Water Meters.

5. **Damages limited to cost of replacement and repair.** If the

Neptune T-10 Water Meter fails to meet the warranties set forth in Paragraph 1 of this Certificate of Limited Warranty, Schlumberger, at its option shall, without charge of labor or materials, repair or replace the Neptune T-10 Water Meter or part thereof, provided that (a) the Neptune T-10 Water Meter is delivered to a Schlumberger service center, (b) the Neptune T-10 Water Meter is accompanied by a Material Return Authorization, and (c) all costs of delivery to the service center are assumed by the purchaser of the Neptune T-10 Water Meter. The address of the nearest Schlumberger service center may be obtained by writing to the Customer Relations Department whose address is set forth below. Schlumberger's liability is limited to its costs of replacement and repair of the defective Neptune T-10 Water Meter or damages resulting from miscalculation of water usage or lost revenue or profit are not recoverable from Schlumberger. It is the responsibility of the customer to periodically verify the operation and accuracy of its meters.

6. **Warranties are inapplicable under certain conditions.** The warranties set forth in this Certificate of Limited Warranty do not apply to any Neptune T-10 Water Meter that has been damaged by, or subjected to, conditions which, in the opinion of Schlumberger, have affected the Neptune T-10 Water Meter's ability of performance, including but not limited to; misuse, improper handling, application, or installation; excessive operating conditions; foreign materials in the water, aggressive water conditions; tampering or unauthorized repairs or modifications; accidental or intentional damage; or acts of God. This Certificate of Limited Warranty shall not apply if product is placed in non-recommended installation, is connected or altered by other than Schlumberger recommended procedures, is used with other than genuine Schlumberger meter registers and components or read by equipment not approved or licensed by Schlumberger. Schlumberger makes no claims concerning operability and/or compatibility or third party reading systems. In addition, this Certificate of Limited Warranty shall not apply if third party reading equipment is believed to have caused damage to the meter or register. In order to determine its liability, if any, under this Certificate of Limited Warranty, Schlumberger shall have the right to inspect any Neptune T-10 Water Meter or part thereof that is claimed to be defective at a Schlumberger service center or other location designated by Schlumberger.

7. **Governing Law.** This Certificate of Limited Warranty shall be governed in all respects by the laws of the State of Alabama, U.S.A. (excluding any conflicts of laws principles that would lead to the application of another state's laws). The headings in this Certificate of Limited Warranty are inserted for convenience only and shall not be used in the interpretation hereof.

8. **Purchasers' rights vary from state to state.** This Certificate of Limited Warranty provides qualified purchasers of Neptune T-10 Water Meters with specific legal rights; however, those purchasers may have other rights which vary from state to state.

Manager of Customer Relations  
Schlumberger R.M.S., Inc., Water Division  
1600 Alabama Highway 229  
Tallahassee, Alabama 36078

Revised 2/98 T-10 Warranty

# Neptune<sup>®</sup> Tru/Flo<sup>™</sup> Compound Meter

Sizes: 2"HP, 3", 4", 6" and 6" x 8"

## Features & Benefits

- Patented Hydraulic Valve Design\*
- Minimum loss of accuracy in the crossover range increases revenue
- Spring loaded valve eliminates need for frequent adjustment and service

## Combined Turbine and Disc Measuring Elements

- Industry leading flow ranges at 98.5%–101.5% accuracy ensure maximum revenue
- Direct coupling of rotor to gear train ensures accurate registration
- Unitized Measuring Element (UME) makes maintenance easier and faster with less downtime
- Calibration vane allows in-line service to extend life and ensure accurate registration

## Compact Bronze Maincase

- Compact, lightweight design provides for easy installation and in-line serviceability

\*U.S. patent nos. 4,437,344 and 4,429,571

## Application

The Tru/Flo is designed to register wide-flow ranges where varying flow rates are typical. Tru/Flo meters combine the low-flow sensitivity of a disc-type meter with the high-flow capacity of a turbine-type meter.

## Operation

The hydraulic valve transfers flow smoothly between the disc section and turbine section of the meter, minimizing the loss of accuracy in the crossover range. The turbine measuring element registers high flows and the disc measuring element registers low flows, ensuring accurate measurement at all flow rates.

## Construction

The Tru/Flo consists of a durable bronze maincase, Neptune Turbine measuring element, Neptune T-10<sup>1</sup> chamber, a patented hydraulic valve, and two magnetic-driven, roll-sealed registers.

The 6" x 8" Tru/Flo assembly consists of two 8" x 6" concentric reducers, a 6" Neptune strainer, and a 6" Neptune Tru/Flo Compound meter.

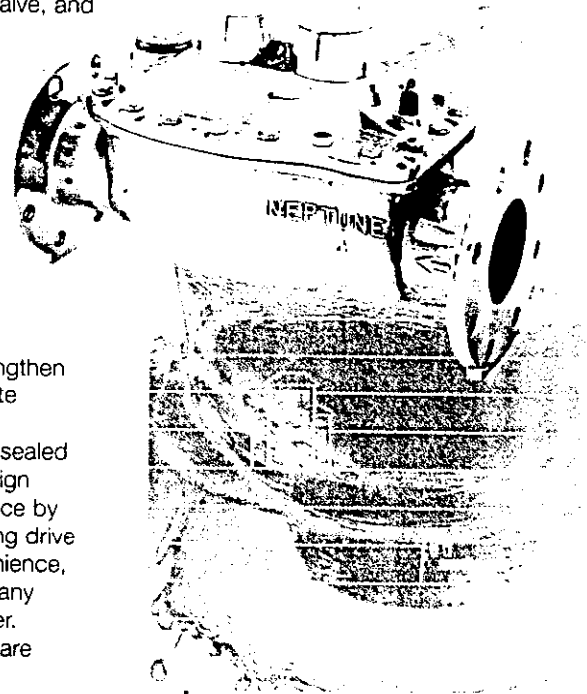
The bronze maincase is corrosion resistant, lightweight, and easy to handle.

A calibration vane allows field calibration of the UME to lengthen service life and to ensure accurate registration.

The two magnetic-driven, roll-sealed registers simplify the meter's design and reduce long-term maintenance by eliminating complicated combining drive mechanisms. For reading convenience, the registers can be mounted in any one of four positions on the meter.

All Tru/Flo Compound meters are adaptable to the Neptune ARB<sup>1</sup> Systems, Pulser-RM Remote System, TRICON-S<sup>2</sup>, and TRICON-E2<sup>3</sup> Transmitter.

All Tru/Flo Compound water meters meet or exceed the latest performance and accuracy requirements set by the AWWA C702, and maximum continuous flow rates may be exceeded by as much as 25% for intermittent periods.



Commercial  
Meter

**Warranty & Maintenance**

Schlumberger provides a limited warranty with respect to its Tru/Flo compound meters for performance, materials, and workmanship. Schlumberger further offers optional post-warranty maintenance and UME Exchange programs for extended service life.

When desired, owner maintenance is easily accomplished by in-line replacement of major components, or a factory-calibrated UME.

**Specifications**

**Application**

Cold water measurement of flow in one direction

**Maximum Operating Pressure**

175 psi (1034 kPa)

**Maximum Operating Temperature**

80°F

**Register**

Direct reading, center sweep, roll-sealed, magnetic drive with low-flow indicator

**Measuring Elements**

AWWA Class II Turbine, dual suspension  
Nutting disc

**Options**

**Register Types**

Direct Reading:

- Synthetic polymer box and cover
- Bronze box and cover

Remote Reading\*:

- ARB, ProRead™ ARB
- Pulser-RM
- TRICON-S
- TRICON-E2

Reclaim

**Companion Flanges**

2", 3", 4" Cast Iron or Bronze

6", 6"x8" Cast Iron

**Units of Measure**

U.S. Gallons      Cubic Feet  
Imperial Gallons      Cubic Metres

**Strainer**

2", 3", 4", 6" Bronze

\*Contact factory for performance specifications

**Operating Characteristics: Neptune Tru/Flo Compound**

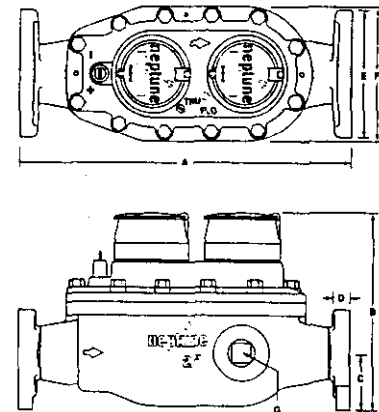
Meter Size	Normal Operating Range @ 100% Accuracy ±1.5%	AWWA Standard	Low Flow @ 95% Accuracy
2"	1/2 to 200 US gpm 0.11 to 45.4 m³/h	2 to 160 US gpm .454 to 36.34 m³/h	1/8 US gpm 0.03 m³/h
3"	1/2 to 450 US gpm 0.11 to 102.2 m³/h	4 to 320 US gpm .91 to 72.68 m³/h	1/8 US gpm 0.03 m³/h
4"	1 to 1000 US gpm 0.23 to 227.1 m³/h	6 to 500 US gpm 1.36 to 113.56 m³/h	1/2 US gpm 0.11 m³/h
6"	1 1/2 to 2000 US gpm 0.34 to 454.2 m³/h	10 to 1000 US gpm 2.27 to 227.12 m³/h	3/4 US gpm 0.17 m³/h
6" x 8"	1 1/2 to 2000 US gpm 0.34 to 454.2 m³/h	16 to 1600 US gpm 3.63 to 363.4 m³/h	3/4 US gpm 0.17 m³/h

**Registration**

Registration (per sweep hand revolution)	Turbine Side		Disc Side	
	2", 3", 4"	6", 6"x8"	2", 3", 4"	6", 6"x8"
1,000 US Gallons		✓		
1,000 Imperial Gallons		✓		
100 US Gallons	✓			
100 Imperial Gallons	✓			
100 Cubic Feet		✓		
10 US Gallons				✓
10 Imperial Gallons				✓
10 Cubic Feet	✓			
10 Cubic Metres		✓		
1 Cubic Foot				✓
1 Cubic Metre	✓			
0.1 Cubic Metre				✓

Register Capacity (6-wheel odometer)	Turbine Side		Disc Side	
	2", 3", 4"	6", 6"x8"	2", 3", 4"	6", 6"x8"
1,000,000,000 US Gallons		✓		
1,000,000,000 Imperial Gallons		✓		
100,000,000 US Gallons	✓			
100,000,000 Imperial Gallons	✓			
100,000,000 Cubic Feet		✓		
10,000,000 US Gallons				✓
10,000,000 Imperial Gallons				✓
10,000,000 Cubic Feet	✓			
10,000,000 Cubic Metres		✓		
1,000,000 Cubic Feet				✓
1,000,000 Cubic Metres	✓			
100,000 Cubic Metres				✓



**Dimensions**

Meter Size	A in/mm	B			C in/mm	D in/mm	E in/mm	F in/mm	G in/mm	Flange Type	Weight lbs/kg
		Std in/mm	ARB in/mm	Pul in/mm							
2" HP	15 1/4 387	8 5/8 219	9 229	10 5/8 270	2 1/2 64	1 3/16 21	5 7/8 149	6 152	1 1/2 NPT 38	2" Oval 150 lb	32 14.5
3"	17 432	10 1/2 267	11 279	13 330	3 3/4 95	5/8 16	7 1/2 191	8 1/2 216	1 1/2 NPT 38	3" ANSI 150 lb	72 32.7
4"	20 508	12 1/2 318	13 330	14 3/4 375	4 1/2 114	1 1/16 17	9 229	9 1/8 232	2 NPT 51	4" ANSI 150 lb	100 45.4
6"	24 610	15 3/4 400	16 1/4 413	17 3/4 451	5 1/2 140	1 25	11 279	12 3/4 324	2 NPT 51	6" ANSI 150 lb	208 94.3
6" x 8"	55 3/8 1407	15 3/4 400	16 1/4 413	17 3/4 451	5 1/2 140	1 25	11 279	12 3/4 324	2 NPT 51	6" ANSI 150 lb	460 208.5

For more free information by fax, call Schlumberger Water Division, FAX-BACK System: 1-800-823-4417 and select the document you wish to order.

**Customer Service/  
Direct to Factory**  
1600 Alabama Highway 229  
Tallahassee, AL 36078  
Toll Free 1-800-645-1892  
FAX (334) 283-7434  
  
Customer Service E-mail:  
trident\_order@slb.com  
  
Customer Support E-mail:  
trident\_support@slb.com

Your Local Schlumberger Representative:

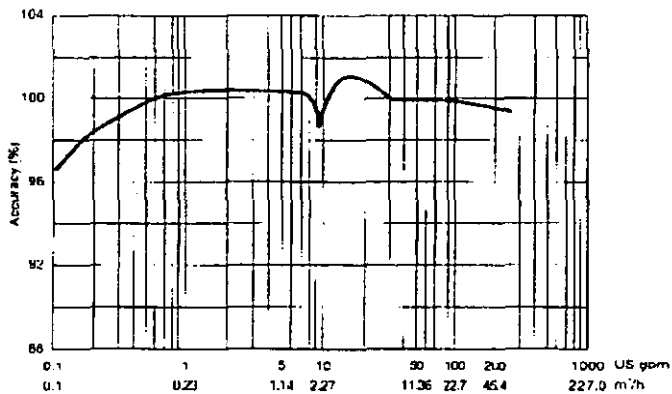
**International Sales**  
Tallahassee, AL  
1-800-645-1892  
(334) 283-6555  
FAX (334) 283-7299



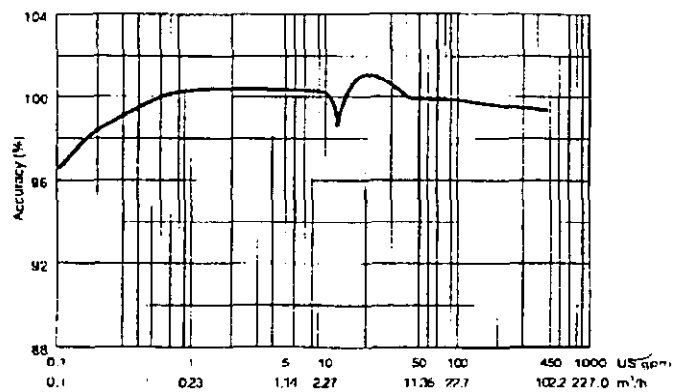
# Neptune<sup>®</sup> Tru/Flo<sup>™</sup> Compound Meter

Sizes: 2" HP, 3", 4", and 6"

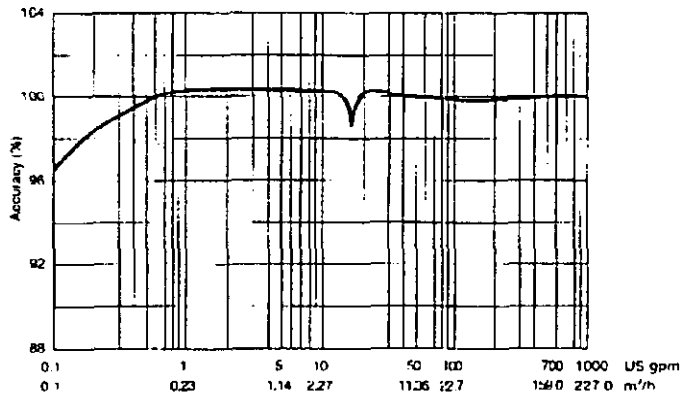
## 2" Accuracy



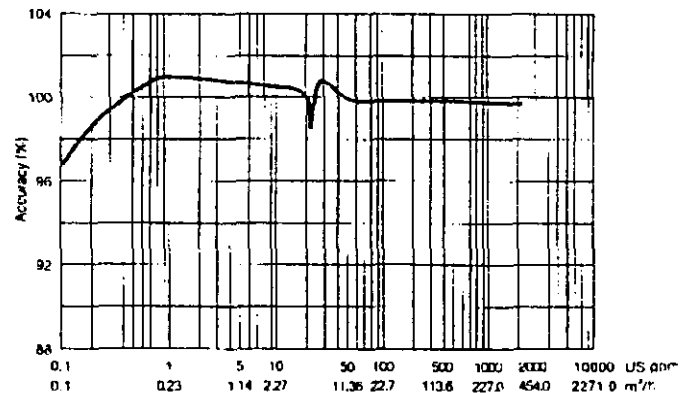
## 3" Accuracy



## 4" Accuracy



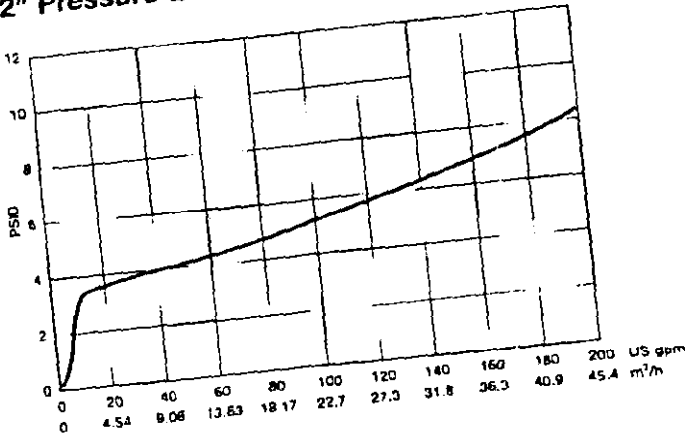
## 6" Accuracy



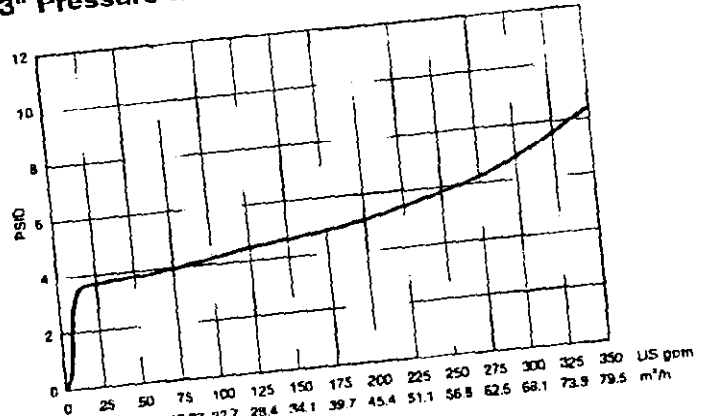
# Neptune<sup>®</sup> Tru/Flo<sup>™</sup> Compound Meter

Sizes: 2" HP, 3", 4", and 6"

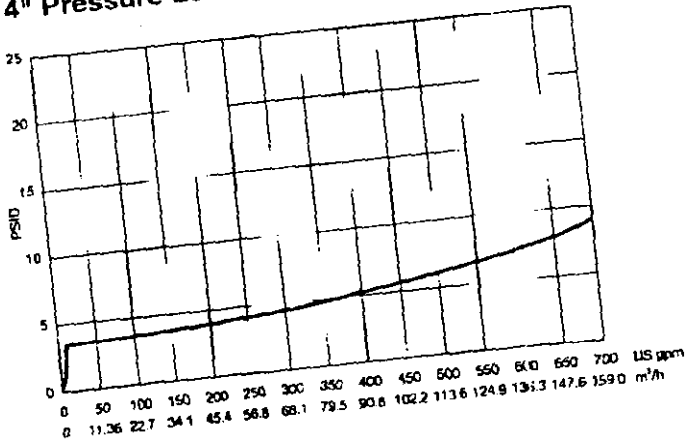
2" Pressure Loss



3" Pressure Loss



4" Pressure Loss



6" Pressure Loss

