



DRIPPING SPRINGS
Texas

**REQUEST FOR BIDS
CITY OF DRIPPING SPRINGS, TEXAS
CELLULAR-ENABLED WATER METERS**

Sealed Bids, one (1) original, (3) copies, and one (1) electronic copy (in PDF format) on CD or flash drive shall be delivered to the City of Dripping Springs, City Administrator, 511 Mercer St, Dripping Springs, TX 78620, at or before: 4 p.m. on October 22, 2021, at which time bids will be publicly opened and read. Bids received after the opening date and time will not be considered.

NOTICE TO BIDDERS

Bidder shall provide all equipment necessary to provide cellular-enabled water meters for the City of Dripping Springs. Sealed bids addressed to the City of Dripping Springs, 511 Mercer Street, Dripping Springs, Texas, 78620 or mailed to Post Office Box 384, Dripping Springs, Texas 78620. Bids will be received from Bidders interested in providing cellular-enabled water meters as specified by the City of Dripping Springs, Texas for NON-EXCLUSIVE CONTRACT DURATION OF ONE (1) YEAR, WITH THE OPTION TO RENEW FOR (2) ADDITIONAL ONE (1) YEAR PERIODS.

THE AGREEMENT SHALL BE A NON-TRANSFERABLE AGREEMENT.

Electronic submission is also allowed in lieu of paper submissions at kcampbell@cityofdrippingsprings.com. Sealed bids must be submitted by 4 p.m. on October 22, 2021, at which time the sealed bid statements will be publicly opened and read aloud. Statements received after the opening date and time will not be considered.

The City will award the contract to the bidder who provides the goods at the best value to the City. The selection will be based on price, reputation of the bidder, quality of the products, performance, and reliability of the Bidders.

Contract awards for the cellular-enabled water meters will be made to the bidder who provides the best value to the City. The lowest and best value bids are those, which result in the lowest cost to the City of Dripping Springs for the complete cellular-enabled meters and who meet the criteria listed above. The City reserves the right to reject any and all bids and to waive any and all irregularities. Evaluation criteria are below.

1. TIME SCHEDULE.

It is the City's intent to follow the following process and timetable, resulting in the selection of a vendor. At the City's discretion, it may change the estimated dates and the process set forth below, as it deems necessary including, but not limited to interviews.

City issues RFB.	September 30, 2021
Deadline for Bidders to submit questions/clarification request in writing to City by 4:00pm.	October 15, 2021
Deadline for City to respond to written questions to all parties receiving RFB	October 18, 2021
Deadline for Submittal of Bids 4:00 pm.	October 22, 2021
Notice of Intent to Award. (Proposed)	October 29, 2021
Award of Contract by Dripping Springs City Council. (Proposed)	November 2, 2021

2. GENERAL CONTRACT REQUIREMENTS

CONFLICTION OF INTEREST: A statement indicating the Applicant has no conflict of interest with the City of Dripping Springs, including any past or present employees or past or present elected officials of the City. **THE CIQ FORM MUST BE SUBMITTED WITH THE SEALED BID PROPOSAL. THE FORM IS AVAILABLE HERE: <https://www.ethics.state.tx.us/forms/ciq.pdf>**

Applicants will also be required to complete a 1295 form from the Texas Ethics Commission available at https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

3. CONTRACTOR'S RESPONSIBILITY FOR CLAIMS

In the event a written claim for damages against the Bidder remains unsettled at the time payment for the goods is pending, City is authorized to withhold from said payment, at City's discretion, the amount of said claim, unless the Bidder shall submit written evidence satisfactory to City that the claim has been settled and a release has been obtained from the claimant involved, or good faith efforts have been made to settle such outstanding claims, and such good faith efforts have failed. Any retainage will comply with Texas law.

4. EVALUATION CRITERIA

Selection of the Bidder will be based on qualifications and rates. Criteria shall include:

- a) The purchase price;
- b) The reputation of the Bidder and of the Bidder's provision of goods;
- c) The quality of the Bidder's goods;
- d) The extent to which the equipment meets the City's need;

- e) Ability to provide the goods withing a certain time period; and
- f) The Bidder's experience in providing cellular-enabled water meters.

Should this solicitation fail to contain sufficient information in order for interested bidders to obtain a clear understanding of the services required by the City, or should it appear that the instructions outlined in the solicitation are not clear or are contradictory, any interested bidders may in writing request clarification from Aaron Reed, Public Works Director, no later than seven (7) days prior to the required time and date for sealed bid proposal submission. The interested bidder shall email a copy of the written clarification request to the Public Works Director, Aaron Reed at areed@cityofdrippingsprings.com. Written requests from interested firms and written responses by the City will be provided to all Applicants. Besides the pre-bid conference listed above, this is the only permissible contract with the City regarding this bid process until the bids are opened and the Applicant is contacted by the City.

5. TERMS AND CONDITIONS

- A.** The City reserves the right to reject any and all bids, and to waive minor irregularities in any bids.
- B.** The City reserves the right to request clarification of information submitted, and to request additional information from any Bidder.
- C.** The City reserves the right to award any contract to the next most qualified Bidder if the successful Bidder does not execute a contract within fifteen (15) days after contract award.
- D.** The City reserves the right to award all or a portion of the required goods to more than one qualified Bidder at the City's sole discretion. The City reserves the right to postpone the time of award if postponement is determined to be necessary by the City.
- E.** The contract resulting from acceptance of a bid by the City shall be in a form supplied or approved by the City and shall reflect the specifications in this RFB. If a Bidder has any exceptions to the terms of the contract, these must be submitted for consideration with the bids. Otherwise, the Bidder will be deemed to have accepted the form of the Agreement. The City will not consider changes to its indemnification and insurance.
- F.** The City shall not be responsible for any costs incurred by firm in preparing, submitting, or presenting its response to this RFB.

6. COMPENSATION

- A.** Present detailed information the contractor's costs for cellular-enabled water meters proposed and for any variation for amounts or types of goods, inclusive of any applicable governmental charges. Provide specifics as to definitions of specific

goods, what is fixed as opposed to variable, and how costs are adjusted according to amount, timing, and type.

- B.** Payment by the City for the goods will only be made when the goods have been delivered and accepted by authorized City representatives. The City requires that all its vendors have a Department of Treasury Internal Revenues Service Form W-9 on file with the City to accommodate payment. Monthly statements shall be submitted by the 30th of each month with a listing of all cellular-enabled water meters, costs, and dates identified. Payment will be made thirty (30) days after receipt and approval of monthly statement. Discount periods must be extended if the billing invoice is returned for credit or correction.

7. COST OF DEVELOPING SEALED BIDS

All costs related to the preparation of the sealed bids and any related activities are the sole responsibility of the applicant. The City assumes no liability for any costs incurred by the Bidders throughout the entire selection process.

EXHIBIT A A SCOPE OF GOODS

GENERAL PROVISIONS

The successful Bidder must be able to provide cellular-enabled water meters (Smart Meters). Parts and Equipment specifications have been attached. The City's preference is for the Bidder to have the ability to supply all required equipment. However, provision of goods may be subcontracted. When subcontractors are used, the Bidder is responsible for provision of goods including but not limited to, billing, reporting, scheduling, delivery, product quality, and warranty.

A. Existing Water Meters

Existing Water Meters that are incompatible with advanced metering analytic (AMA) software must be replaced.

B. Real-Time Data Transmission

The Smart Meters being installed must be able to transmit data in near real time. This would allow for City representatives, customers, businesses, and utilities to monitor usage remotely and detect leaks or abnormal water usage in near real time.

C. Benefits of Smart Meters Sought

The benefits of Smart Meters that the City is looking to achieve includes, but is not limited to:

- Allowance of integration with back-end management, billing and analytics
- Secure and future-proof cellular networks
- Lower costs for utilities as compared to labor intensive drive-by methods
- Lower asset costs such as vehicle expenditures and maintenance
- The ability to quickly identify leaks, breaks, theft and inefficiencies
- Encrypted software to keep data secure and safe
- The ability for consumers to better monitor water usage daily
- Enhanced customer service and satisfaction

**EXHIBIT B
SPECIFICATIONS**



Badger Meter

E-Series® Ultrasonic Meter

Cold Water Stainless Steel Meter, 5/8, 5/8 x 3/4, 3/4 and 1 inch
NSF/ANSI Standard 61 Certified, Annex G

DESCRIPTION

The E-Series® Ultrasonic meter uses solid-state technology in a compact, totally encapsulated, weatherproof, and UV-resistant housing, suitable for residential and commercial applications. Electronic metering provides information—such as rate of flow and reverse flow indication—and data not typically available through traditional, mechanical meters and registers. Electronic metering eliminates measurement errors due to sand, suspended particles and pressure fluctuations.

Offered in four sizes and lay lengths, the Ultrasonic meter features:

- Minimum extended low-flow rate lower than typical positive displacement meters.
- Simplified one-piece electronic meter and register that are integral to the meter body and virtually maintenance free.
- Sealed, non-removable, tamper-protected meter and register.
- Easy-to-read, 9-digit LCD display presents consumption, rate of flow, reverse-flow indication, and alarms.
- High resolution industry standard ASCII encoder protocol.

The Ultrasonic meter is available with an in-line connector for easy connection and installation to AMR/AMI endpoints. It is also available with a flying lead for field splice connection.

APPLICATIONS

Use the Ultrasonic meter for measuring potable cold water in residential, commercial and industrial services. The meter is also ideal for non-potable, reclaimed irrigation water applications or less than optimum water conditions where small particles exist.

The Ultrasonic meter complies with applicable portions of ANSI/AWWA Standard C700 and NSF/ANSI Standard 61, Annex G. There is currently no AWWA standard that specifically addresses ultrasonic meters for residential applications.

OPERATION & PERFORMANCE

As water flows into the measuring tube, ultrasonic signals are sent consecutively in forward and reverse directions of flow. Velocity is then determined by measuring the time difference between the measurement in the forward and reverse directions. Total volume is calculated from the measured flow velocity using water temperature and pipe diameter. The LCD display shows total volume and alarm conditions and can toggle to display rate of flow.



In the normal temperature range of 45...85° F (7...29° C), the Ultrasonic “new meter” consumption measurement is accurate to:

- $\pm 1.5\%$ over the normal flow range
- $\pm 3.0\%$ from the extended low flow range to the minimum flow value

CONSTRUCTION

E-Series Ultrasonic meters feature a stainless steel, lead-free meter housing, an engineered polymer and stainless steel metering insert, a meter-control circuit board with associated wiring, LCD, and battery. Wetted elements are limited to the pressure vessel, polymer/stainless steel metering insert and the transducers. The electronic components are housed and fully potted within a molded, engineered polymer enclosure, which is permanently attached to the meter housing. The transducers extend through the stainless steel housing and are sealed by O-rings.

The metering insert holds the stainless steel ultrasonic reflectors in the center of the flow area, enabling turbulence-free water flow through the tube and around the ultrasonic signal reflectors. The metering insert's patented design virtually eliminates chemical buildup on the reflectors, ensuring long-term metering accuracy.

METER INSTALLATION

The meter is completely submersible and can be installed using horizontal or vertical piping, with flow in the up direction. The meter will not measure flow when an “empty pipe” condition is experienced. An empty pipe is defined as a condition that occurs when the flow sensors are not fully submerged.

SPECIFICATIONS

E-Series Ultrasonic Meter Size	5/8 in. (16 mm)	5/8 x 3/4 in. (16 x 19 mm)	3/4 in. (19 mm)	1 in. (25 mm)
Operating Range	0.1...25 gpm (0.02...5.7 m ³ /hr)	0.1...25 gpm (0.02...5.7 m ³ /hr)	0.1...32 gpm (0.02...7.3 m ³ /hr)	0.4...55 gpm (0.09...12.5 m ³ /hr)
Extended Low-Flow Rate	0.05 gpm (0.01 m ³ /hr)	0.05 gpm (0.01 m ³ /hr)	0.05 gpm (0.01 m ³ /hr)	0.25 gpm (0.06 m ³ /hr)
Maximum Continuous Operation	25 gpm (5.7 m ³ /hr)	25 gpm (5.7 m ³ /hr)	32 gpm (7.3 m ³ /hr)	55 gpm (12.5 m ³ /hr)
Pressure Loss	4.3 psi at 15 gpm (0.3 bar @ 3.4 m ³ /hr)	2.3 psi at 15 gpm (0.16 bar @ 3.4 m ³ /hr)	2.0 psi at 15 gpm (0.14 bar @ 3.4 m ³ /hr)	1.8 psi at 25 gpm (0.12 bar @ 5.7 m ³ /hr)
Reverse Flow - Maximum Rate	4 gpm (0.9 m ³ /hr)	4 gpm (0.9 m ³ /hr)	4 gpm (0.9 m ³ /hr)	9 gpm (2.0 m ³ /hr)
Operating Performance	In the normal temperature range of 45...85° F (7...29° C), new meter consumption measurement is accurate to: <ul style="list-style-type: none"> • ±1.5% over the normal flow range • ±3.0% from the extended low flow range to the minimum flow value 			
Storage Temperature	- 40...140° F (- 40...60° C)			
Maximum Ambient Storage (Storage for One Hour)	150° F (72° C)			
Measured-Fluid Temperature Range	34...140° F (1°...60° C)			
Humidity	0...100% condensing; meter is capable of operating in fully submerged environments			
Maximum Operating Pressure of Meter Housing	175 psi (12 bar)			
Register Type	Straight reading, permanently sealed electronic LCD; digits are 0.28 in. (7 mm) high			
Register Display	<ul style="list-style-type: none"> • Consumption (up to nine digits) • Rate of flow • Alarms • Unit of measure factory programmed for gallons, cubic feet and cubic meters 			
Register Capacity	<ul style="list-style-type: none"> • 10,000,000 gallons • 1,000,000 cubic feet • 100,000 cubic meters 			
Totalization Display Resolution	<ul style="list-style-type: none"> • Gallons: 0.XX • Cubic feet: 0.XXX • Cubic meters: 0.XXXX 			
Battery	3.6-volt lithium thionyl chloride; battery is fully encapsulated within the register housing and is not replaceable; 20-year battery life			

MATERIALS

Meter Housing	316 stainless steel
Measuring Element	Pair of ultrasonic sensors located in the flow tube
Register Housing & Lid	Engineered polymer
Metering Insert	Engineered polymer & stainless steel
Transducers	Piezo-ceramic device with wetted surface of stainless CrNiMo

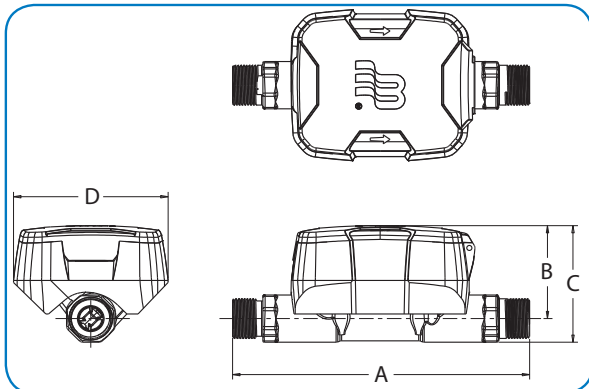
PHYSICAL DIMENSIONS

E-Series Ultrasonic Meter Size	5/8 in. (16 mm)	5/8 x 3/4 in. (16 x 19 mm)	3/4 in. (19 mm)	1 in. (25 mm)
Size Designation X Lay Length	5/8 x 7-1/2 in. (16 x 191 mm)	5/8 x 3/4 x 7-1/2 in. (16 x 19 x 191 mm)	3/4 x 7-1/2 in. or 3/4 x 9 in. (19 x 191 mm or 19 x 229 mm)	1 x 10-3/4 in. (25 x 273 mm)
Weight (without AMR)	2.2 lb (1 kg)	2.1 lb (.95 kg)	3/4 x 7-1/2 in.: 2.1 lb 3/4 x 9 in.: 2.4 lb (20 x 190 mm.: 0.95 kg or 20 x 229 mm.: 1.08 kg)	3.1 lb (1.4 kg)

See illustration below for Measurement Designations.

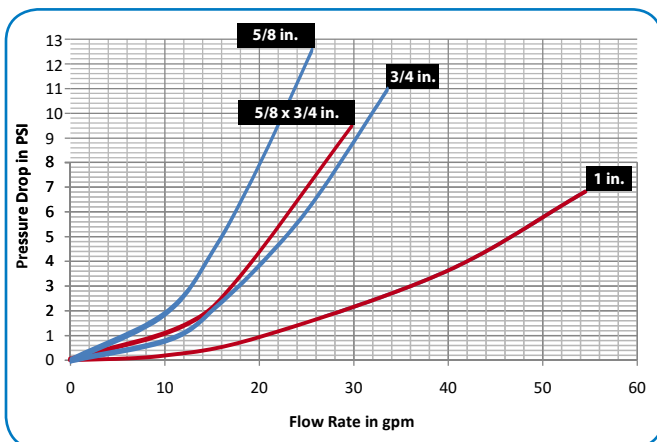
Length (A)	7.5 in. (191 mm)	7.5 in. (191 mm)	7.5 in. or 8.98 in. (191 mm or 228 mm)	10.745 in. (273 mm).
Height (B)	2.404 in. (61 mm)	2.404 in. (61 mm)	2.404 in. (61 mm)	2.529 in. (64 mm)
Height (C)	3.014 in. (77 mm)	3.014 in. (77 mm)	3.094 in. (79 mm)	3.359 in. (85 mm)
Width (D)	3.898 in. (99 mm)	3.898 in. (99 mm)	3.898 in. (99 mm)	3.898 in. (99 mm)
Bore Size	5/8 in. (16 mm)	3/4 in. (19 mm)	3/4 in. (19 mm)	1 in. (25 mm)
Coupling Nut & Spud Thread	3/4 in. x 14 NPSM	1 in. x 11-1/2 NPSM	1 in. x 11-1/2 NPSM	1-1/4 in. x 11-1/2 NPSM
Tailpiece Pipe Thread (NPT)	1/2 in. (13 mm)	3/4 in. (19 mm)	3/4 in. (19 mm)	1 in. (25 mm)
Service Pipe Thread (NPT)	1/2 in. (13 mm)	3/4 in. (19 mm)	3/4 in. (19 mm)	1 in. (25 mm)

Measurement Designations



PRESSURE LOSS CHART

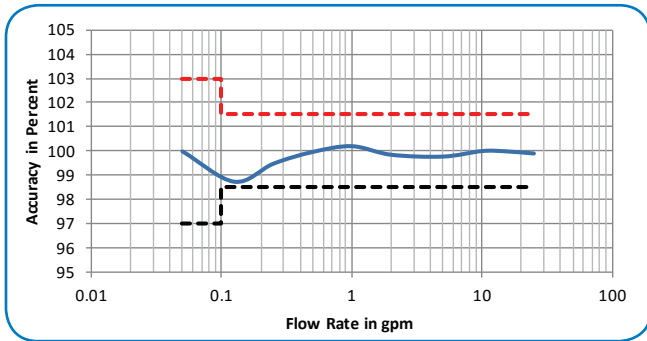
Rate of Flow in gallons per minute (gpm)



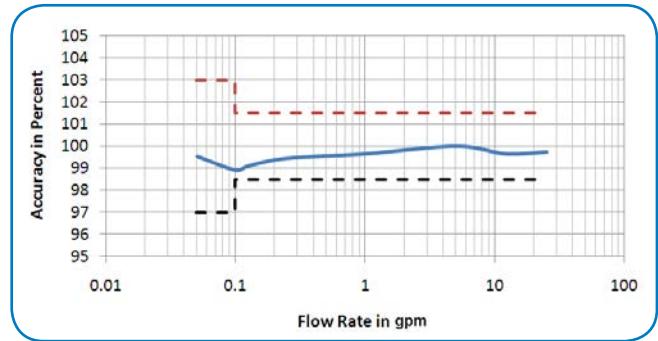
ACCURACY CHARTS

Rate of Flow in gallons per minute (gpm)

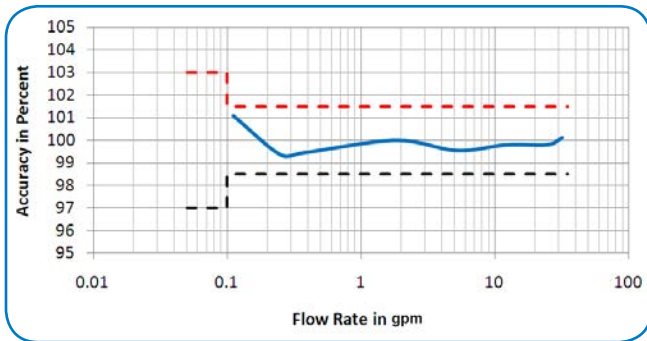
5/8 in. Meter



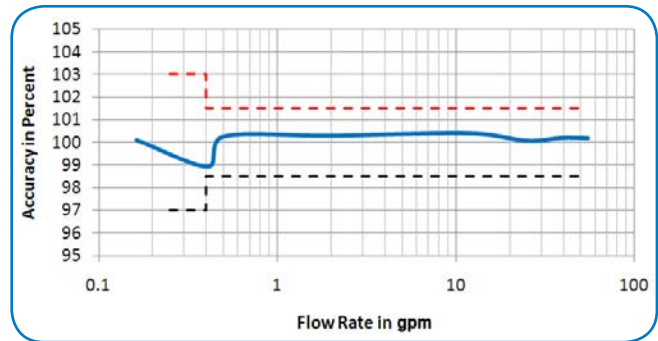
5/8 x 3/4 in. Meter



3/4 in. Meter



1 in. Meter



Making Water Visible®

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The Americas | Badger Meter | 4545 West Brown Deer Rd | PO Box 245036 | Milwaukee, WI 53224-9536 | 800-876-3837 | 414-355-0400
 México | Badger Meter de las Americas, S.A. de C.V. | Pedro Luis Ogazón N°32 | Esq. Angelina N°24 | Colonia Guadalupe Inn | CP 01050 | México, DF | México | +52-55-5662-0882
 Europe, Eastern Europe Branch Office (for Poland, Latvia, Lithuania, Estonia, Ukraine, Belarus) | Badger Meter Europe | ul. Korfantego 6 | 44-193 Knurów | Poland | +48-32-236-8787
 Europe, Middle East and Africa | Badger Meter Europa GmbH | Nurtinger Str 76 | 72639 Neuffen | Germany | +49-7025-9208-0
 Europe, Middle East Branch Office | Badger Meter Europe | PO Box 341442 | Dubai Silicon Oasis, Head Quarter Building, Wing C, Office #C209 | Dubai / UAE | +971-4-371 2503
 Slovakia | Badger Meter Slovakia s.r.o. | Racianska 109/B | 831 02 Bratislava, Slovakia | +421-2-44 63 83 01
 Asia Pacific | Badger Meter | 80 Marine Parade Rd | 21-06 Parkway Parade | Singapore 449269 | +65-63464836
 China | Badger Meter | 7-1202 | 99 Hangzhong Road | Minhang District | Shanghai | China 201101 | +86-21-5763 5412
 Switzerland | Badger Meter Swiss AG | Mittelholzerstrasse 8 | 3006 Bern | Switzerland | +41-31-932 01 11



Badger Meter

ORION® Water Endpoints

Cellular LTE Endpoint

DESCRIPTION

The ORION® Cellular endpoint is an innovative, two-way water endpoint that utilizes existing cellular infrastructure to efficiently and securely deliver meter reading data to the utility via the reliable cellular network.

The Cellular endpoint is a member of the time-tested ORION family of products from Badger Meter, designed for maximum flexibility. Since 2002, the ORION product family has provided comprehensive Advanced Metering Analytics (AMA) for interval meter reading and data capture using both one-way and two-way communications.

FUNCTIONALITY

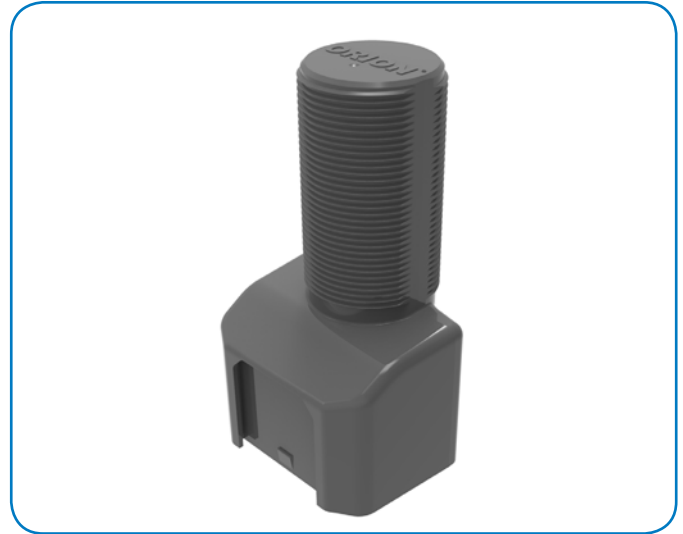
Operation: The endpoint communicates with the encoder and captures readings and meter status information. At a predetermined interval, the endpoint broadcasts readings, status, and event data via the cellular network, and the information is captured and analyzed using BEACON AMA software.

Activation: All ORION Cellular LTE endpoints are shipped in an inactive, non-transmitting state. The endpoints offer a Smart Activation feature. After the endpoint is installed, it begins broadcasting data when the encoder senses the first usage of water. No field programming or tools are required to activate the endpoint. Alternatively, an IR fob can be used to activate the endpoint and verify the encoder connection. With proper installation, successful endpoint function can be confirmed through a web app demonstrating that communication has been verified to both the encoder and to the network.

Broadcast Mode: The endpoint broadcasts fixed network reading data through the secure existing cellular network within the service area. The endpoint also transmits a mobile message to support troubleshooting in the field.

Data Storage: The endpoint stores 42 days of 15-minute data.

Output Message: The endpoint broadcasts its unique serial number, meter reading data, and applicable status indicators. Each message is encrypted to meet Advanced Encryption Standard (AES) 256.



APPLICATION

Configurations: The endpoint is a multi-purpose endpoint that can be deployed in indoor, outdoor and pit applications. The electronics and battery assembly are fully encapsulated in epoxy for environmental integrity. The endpoint is available with a connector assembly for ease of installation.

Meter Compatibility: When attached to a Badger Meter high resolution encoder, the endpoint is compatible with all current Badger Meter Recordall® Disc, Turbo Series, Compound Series, Combo Series and Fire Service meters and assemblies, and with E-Series® Ultrasonic, E-Series® Ultrasonic Plus, and M-Series® Electromagnetic flow meters.

Encoder Compatibility: The endpoint is suitable for use with Badger Meter high resolution encoders as well as the following Badger Meter approved three-wire encoder registers that have a manufacture date of 2005 or newer, are programmed into the AMR/AMI three-wire output mode, and have three-wires connected: Elster InVISION and ScanCoder® encoders and evoQ4 meter (encoder output); Hersey® Translator; Master Meter® Octave® Ultrasonic meter encoder output; Metron-Farnier Hawkeye; Mueller Systems 420 Solid State Register (SSR) LCD; Neptune® ProRead, E-Coder® and ARB-V®; and Sensus® Electronic Register encoder (ECR) and ICE.

SPECIFICATIONS

Dimensions	5.125 in. (130 mm) (H)
	1.75 in. (44 mm) Diameter at top
	2.625 in. (W) x 2.875 in. (D) at base 67 mm (W) x 73 mm (D) at base
Broadcast Network	LTE cellular network, with fallback to 3G where LTE is unavailable. Mobile backup frequency is FCC-regulated 902...928 MHz frequency hopping modulation
Operating Temperature Range	
• Storage, Meter Reading and Mobile Backup	-40...60° C (-40...140° F)
• Cellular Communications	-20...60° C (-4...140° F)
Humidity	0%...100% condensing
Battery	One (1) lithium thionyl chloride D cell (nonreplaceable)

FEATURES

Communication Type	Two-way
Application Type	Control/Monitor
Reading Interval Type	15-minute
Encoder Compatibility	Absolute
Fixed Network Reading	✓
Premise Leak Detection	✓
Cut-Wire Indication	✓
Reverse Flow Indication	✓
No Usage Indication	✓
Encoder Error	✓
Low Battery Indication	✓
Remote Programming	✓
Remote Clock Synchronization	✓
Firmware Upgrades	✓

Construction: All ORION Cellular endpoints are housed in an engineered polymer enclosure with an ORION RF board, battery and antenna. To ensure long-term performance, the enclosure is fully potted to withstand harsh environments and to protect the electronics in flooded or submerged pit applications.

Wire Connections: ORION Cellular endpoints are available with in-line connectors (Twist Tight or Nicor®) for easy installation and connection to compatible encoders/meters. The endpoints are also available with flying leads for field splice connections. Other wire connection configurations may be available upon request.

License Requirements: ORION Cellular endpoints comply with Part 15, Part 22 and Part 24 of the FCC Rules. No license is required by the utility to operate an ORION meter reading system. This device complies with Industry Canada license-exempt RSS standard(s).

Transportation: The Federal Aviation Administration prohibits operating transmitters and receivers on all commercial aircraft. The ORION Cellular endpoint is considered an operating transmitter and cannot be shipped by air.

Warning: To reduce the possibility of electrical fire and shock hazards, never connect the cable from the endpoint to any electrical supply source. The endpoint cable provides SELV low voltage limited energy power to the load and should only be connected to passive elements of a water meter register.

Caution: The endpoint batteries are *not* replaceable. Users should make no attempt to replace the batteries. Changes or modifications to the equipment that are not expressly approved by Badger Meter could void the user's authority to operate the equipment.

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 Switzerland | Badger Meter Swiss AG | Mittelholzerstrasse 8 | 3006 Bern | Switzerland | +41-31-932 01 11



**CITY OF AUSTIN
STANDARD PRODUCTS LIST
for
PRESSURE REDUCING VALVES**

USING DEPARTMENT: Water Utility **ISSUED:** 12/24/80 **REVIEWED:** 10/01/12 **REVISED:** 10/01/12

PREPARED BY: Bill Teltow **CITY STOCK NUMBER:**

DESCRIPTION: Pressure Reducing Valves for waterworks service. Effective January 1, 2013, valves purchased for City forces shall be “lead free” and marked by stamping, etching, or casting “NL” in the main body or by other methods acceptable to City. Effective January 4, 2014, all valves must be “lead free.”

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT	APPROVAL
04/01/98	CLA - VAL P.O. Box 1325 Newport Beach, CA 92659	90G - 01ABCS See notes below	W. Flynn
04/01/98	WATTS ACV P.O. Box 752289 Houston, TX 77275-2289	No. 115 Series See notes below	W. Flynn
07/01/01	BERMAD 4070 Leaverton Ct. Anaheim, CA 92807	Model No. 720 Part No. 720-I-V-PG-PG-CV-X See notes below	W. Flynn
07/01/03	SINGER VALVE INC. C/O Valve & Equipment Consultants, Inc. P.O. Box 1249 Huffman, TX 77336	Model 106 - PR See notes below	R. Lamb

- NOTE:**
- Valves shall be designed to automatically reduce a higher inlet pressure to a lower, adjustable maximum outlet pressure regardless of fluctuations in demand.
 - Automatic control valves shall be fluid-actuated, having a single moving assembly. A flexible, nylon fabric reinforced synthetic elastomer diaphragm shall be integral with this assembly to form a sealed chamber, operating free of drag or wear. The diaphragm shall not be used as a seating surface. This assembly shall have a stem that is fully guided by separate upper and lower bearings to preclude binding or deflection. When the valve is closed, sealing at the seat shall be by contact between one edge of a securely retained elastomer rectangular seal and a smooth seat surface. The seat shall be removable and not have edges that will induce seal cutting or wear at low flows. Progressive throttling of flow shall be accomplished by a characterized profile seal retaining washer. All internal valve components shall be removable and repairable while the valve body remains in line. The main valve shall be equipped with a position indicator with an air bleed for priming the main valve and for checking the main valve diaphragm for leakage. The main valve body shall be equipped with inlet and outlet gauges having stainless steel exterior casing and internal trim. Gauges shall have a 2 1/2-inch diameter face, shall be glycerin-filled, and shall have a range of 0 - 300 psi on high side with 5 percent accuracy over spectrum, and 0 - 160 psi on low side in 2 psi increments with 3 percent accuracy over spectrum. Valve internal trim (seat and seal retainer plate) shall be stainless steel, and all valve elastomers shall be FDA approved. An FDA and NSF-61 approved epoxy coating shall be heat-fusion bonded to all internal and external ferrous valve surfaces. The pilot system shall include a fixed orifice opening speed flow control with copper tubing and brass fittings. On 3" and smaller valves, add opening speed flow control. The reducing pilot shall be stainless steel or bronze with an adjustment range suitable for the pressure conditions at the installation location. Isolation ball valves with stainless steel ball and handle for the pilot system shall be furnished on all sizes and include a y-strainer with blow-down ball valve.



**CITY OF AUSTIN
STANDARD PRODUCTS LIST**

for

WATER METER AND WASTEWATER CLEANOUT BOXES AND LIDS

USING DEPARTMENT: Austin Water **PREPARED BY:** David Rinn **ISSUED:** 08/05/85

REVISED BY: Jeff A. Kyle, P.E. **REVISED:** 07/01/21

- DESCRIPTION:** Boxes and lids for water meters, wastewater service cleanouts, and force main cleanouts shall comply with the following:
1. Minimum Tier 8 load rating (per ANSI/SCTE 77) or equivalent.
 2. Manufactured using recycled material with the *RECYCLED* logo and the *AUSTIN WATER* logo molded into the lid.
 3. Boxes shall be a single molded piece.
 4. Lids shall contain a UV inhibitor, a molded key hole, and a molded tread pattern for skid resistance.
 5. For Potable and Reclaimed Meters (5/8", 3/4", 1", 1 1/2" and 2"):
 - a. Lids shall contain: AMI radio-frequency transparency (as certified by AW approved vendor); A locking mechanism (for 1" or smaller meters) or anti-float material with SG>1 (for 1 1/2" or 2" meters); Universal AMI mounts (with specification of mount configuration under lid).
 - b. Potable Meters: Box and lid shall be black with "WATER METER" molded into the lid.
 - c. Reclaimed Meters: Box shall be black with purple lid that has "RECLAIMED METER" molded into the lid.
 - d. Key shall be locally available.
 6. For Wastewater Service Line Cleanouts: Box and lid shall be green; Lid shall have "SEWER" molded into the lid.
 7. For Force Main Cleanouts: Box and lid shall be black; Lid shall have "SEWER" molded into the lid.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT	APPROVAL
04/01/10	DFW PLASTICS, INC. P.O. Box 648 Bedford, TX 76095	Potable Water Meter Box with AMI Lid <u>Sizes 5/8", 3/4" and 1"</u> Single: Lid DFW37C-AF1QAF AW-LID Body DFW37C-14-BODY Combination DFW37C-14-AF1QAF AW Double: Lid DFW38C-AF1QAF AW-LID Body DFW38C-14-BODY Combination DFW38C-14-AF1QAF AW <u>Size 1 1/2" (Single meter only)</u> Lid DFW65C-AF1QAF AW-LID Body DFW65C-14-BODY Combination DFW65C-14-AF1QAF AW <u>Size 2" (Single meter only)</u> Lid DFW1730F-AF1QAF AW-LID Body DFW1730F-12-BODY Combination DFW1730F-12-AF1QAF AW	R. Lamb



**CITY OF AUSTIN
STANDARD PRODUCTS LIST**
for

WATER METER AND WASTEWATER CLEANOUT BOXES AND LIDS

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT	APPROVAL
01/01/18	DFW PLASTICS, INC. P.O. Box 648 Bedford, TX 76095	Reclaimed Water Meter Box with Purple AMI Lid <u>Sizes 5/8", 3/4" and 1"</u> Lid DFW37C-5MBAF AW-LID Body DFW37C-14-BODY Combination DFW37C-14-5MBAF AW <u>Sizes 1 1/2" and 2"</u> Lid DFW1730F-5MBAF AW-LID Body DFW1730F-12-BODY Combination DFW1730F-12-5MBAF AW	J. Kyle
01/01/19	DFW PLASTICS, INC. P.O. Box 648 Bedford, TX 76095	Box and Lid for Wastewater Service Cleanouts Lid DFW1017-2 SEWER AW-LID Body DFW1017NP2-10-BODY Combination DFW1017NP2-10-2 SEWER AW	J. Kyle
01/01/19	DFW PLASTICS, INC. P.O. Box 648 Bedford, TX 76095	Box and Lid for Force Main Cleanout Lid DFWB40C-1 SEWER AW LID Body DFWB40WBCNP-14-BODY Combination DFWB40WBCNP-14-1 SEWER AW	J. Kyle

NOTES:

1. These products are NOT to be installed in driveways or roadways.

LATEST REVISIONS (since 04/01/19):

1. Removed HDPE.
2. Revised DESCRIPTION.
3. Removed Retrofit AMI Lids.
4. Revised Note 1.



**CITY OF AUSTIN
STANDARD PRODUCTS LIST**
for
POLYETHYLENE TUBING FOR POTABLE WATER SERVICES

USING DEPARTMENT: Water Utility **ISSUED:** 02/03/78 **REVIEWED:** 07/01/15 **REVISED:** 07/01/15

PREPARED BY: Bill Flynn, P.E. **CITY STOCK NUMBER:**

DESCRIPTION: Tubing, polyethylene, meeting AWWA C901 and NSF 61 certified, CTS-OD ¾" thru 2", made of PE 4710, minimum Pressure Class 250 psi (SDR-9), solid blue exterior with clear center and black heat-indented printline or solid blue wall with white heat-indented printline. Only compression fittings recommended by the manufacturer and compatible with stainless steel insert stiffeners may be used.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT	APPROVAL
01/01/10	ENDOT INDUSTRIES, INC. 60 Green Pond Road Rockaway, NJ 07866	EndoPure	R. Lamb
10/01/14	SILVER-LINE PLASTICS CORP. 900 Riverside Drive Asheville, NC 28804	Silver-Line Ultra-Pure	R. Lamb
07/01/15	ADVANCED DRAINAGE SYSTEMS (ADS) 4640 Trueman Boulevard Hilliard, OH 43026	PolyFlex 4710	R. Lamb

NOTE:

1. Printline shall include all markings required by AWWA C901: nominal tubing size and diameter base, SDR, manufacturer's name or trademark, material designation code, pressure class, AWWA standard number, seal of mark of the testing agency that certifies the tubing material for potable water service, date of manufacture that is recognizable as a date, and manufacturer's production code that includes resin source, manufacturing location, and extrusion line.
2. Tracer tape meeting SPL WW-597 to be installed 12 inches above top of tubing.

**EXHIBIT C
BID FORMS**

1. MANAGEMENT INFORMATION

Bidders and any subcontractor must have prior successful experience providing Smart Meters. Bidders must be licensed to conduct business in the State of Texas, and must possess all permits, licenses, certifications, approvals, equipment, materials, and staff necessary to perform and/or carry out the requirements of the contract.

Please supply the information requested below. Attach additional sheets, if necessary, to provide required information.

1. Company Profile

Company Name: _____

Name of Company Owner: _____

Company Address: _____

Phone Number: _____

E-Mail Address: _____

Number of Years in Business: _____

Number of Years in Business at This Location: _____

2. Assigned Contact/Service Representative:

Name: _____

Title/Duties: _____

Years with Bidder: _____

Qualifications: _____

3. Emergency Contact (365 days/year; 24 hours): _____

4. Operating Hours – The Bidder shall be available during regular business hours for contact by city personnel.

2. REFERENCES AND QUALIFICATIONS

1. Describe your company's experience providing Smart Meters and Smart Meter services including the number of years in business, and type of services provided.
2. Please provide 3 commercial client references within the last five years, the goods provided and the frequency of the provision of goods for that client.

Client Name: _____

Client Address: _____

Client Phone: _____

Contact Person: _____

Goods Provided: _____

Frequency of Provision of Goods: _____

Years of Contract: _____

Client Name: _____

Client Address: _____

Client Phone: _____

Contact Person: _____

Goods Provided: _____

Frequency of Provision of Goods: _____

Years of Contract: _____

Client Name: _____

Client Address: _____

Client Phone: _____

Contact Person: _____

Services Provided: _____

Frequency of Services: _____

Years of Contract: _____

3. Approximately what percent of your company's business is derived from Smart Meters?
 _____%

4. Are you currently or have you ever previously provided Smart Meter services to other government entities? Yes No

If yes, please list the entity names, contact person and phone number: _____

3. SUBCONTRACTORS

Bidders unable to provide all goods listed herein may subcontract the provision of the goods. However, the successful Bidder responding to the solicitation shall be considered the prime contractor, and therefore responsible for all services rendered. Bids must include names and addresses of all subcontractors to be used in conjunction with the contract.

4. BID TABULATION

<u>Part Description</u>	<u>Size</u>	<u>Quantity</u> <small>These are approximate quantities</small>	<u>Unit Cost</u>	<u>Total</u>
<u>Meters & Accessories Shall Comply with Attached Specifications</u>				
Water Meters	5/8" x 5/8"	_____	\$ _____	\$ _____
	5/8" x 3/4"	_____	\$ _____	\$ _____
	3/4" x 3/4"	_____	\$ _____	\$ _____
	1" x 1"	_____	\$ _____	\$ _____
Cellular Endpoints	N/A	_____	\$ _____	\$ _____
Pressure Reducing Valves (PRVs)	5/8"	_____	\$ _____	\$ _____
	3/4"	_____	\$ _____	\$ _____
	1"	_____	\$ _____	\$ _____
Meter Boxes Meter Sizes: 5/8", 3/4", & 1"	Lid	_____	\$ _____	\$ _____
	Body	_____	\$ _____	\$ _____
	Combo	_____	\$ _____	\$ _____

EXHIBIT D
DRAFT AGREEMENT

**CELLULAR-ENABLED METERS
AGREEMENT**

This Agreement, made and entered into this, the ____ of _____ 2020, and between the **City of Dripping Springs, Texas** (hereinafter referred to as the "City") and _____, (hereinafter referred to as "Contractor"), is understood and agreed to be as set forth herein:

- 1. Description of Goods to be sold to the City can be found in Exhibit "A". The pricing in Exhibit "A" shall be the prices charged as the City for twelve months. Goods shall include items specifically listed in Exhibit "A".**
- 2. Payment for Goods:** The City will compensate Contractor for the goods that the City requests in writing and receives from the Contractor. The City may renew this Agreement for each year through approval by the City Administrator for up to three (3) years. Contractor shall invoice City for all goods requested in writing by the City. The City shall pay all invoices within thirty (30) days of approval by the City.
- 3. Duration:** This Agreement shall be in effect for a period of one year unless terminated as provided below. Time is of the essence with this Agreement. This Agreement may be extended two times for additional 12 months period for a total of three (3) years.
- 4. Renewal:** Contractor may request renewal of this Agreement each year for goods and the City Administrator may renew or not renew the contract.
- 5. Termination:** Either party may terminate this Agreement by a thirty (30) day written notice. Goods shall be compensated on a pro rata basis of the goods ordered and received prior to termination.
- 6. Relationship of Parties:** It is understood by the parties that Contractor is an independent contractor with respect to the City and not an employee of the City. City will not provide fringe benefits, including health insurance benefits, paid vacation, or any employee benefit, for the benefit of Contractor. The City may contract with other individuals for these services.
- 7. Employees:** Contractor employees, if any, who perform services for City under this Agreement shall also be bound by the provisions of this Agreement. At the request of City, Contractor shall provide adequate evidence that such persons are Contractor's employees.
- 8. INDEMNIFICATION:** CONTRACTOR AGREES TO INDEMNIFY AND HOLD CITY HARMLESS FROM ALL CLAIMS, LOSSES, EXPENSES, FEES, INCLUDING ATTORNEY'S FEES, COSTS, AND JUDGMENTS THAT MAY BE ASSERTED AGAINST CITY THAT RESULT FROM ACTS OR OMISSIONS OF CONTRACTOR, CONTRACTOR'S EMPLOYEES, OR CONTRACTOR'S CONTRACTORS.
- 9. Assignment:** Contractor's obligation under this Agreement may not be assigned or

transferred to any other person, firm, or corporation without the prior written consent of City.

- 10. Notice:** All notice required or permitted under this Agreement shall be in writing and shall be delivered either in person or deposited in the United States mail, postage prepaid, addressed as follows:

For the City:

City of Dripping Springs
Attn: Parks and Community Attn:
Services Director
P.O. Box 384
Dripping Springs, TX 78620
(512) 858-4725

For the Contractor:

Either party may change such address from time to time by providing written notice to the other in the manner set forth above. Notice is deemed to have been received three (3) days after deposit in U.S. mail.

- 11. Mandatory Disclosures:** Texas law requires that vendors make certain disclosures. Prior to the effective date of this Agreement, the Contractor has submitted to the City a copy of the Conflict of Interest Questionnaire Form (CIQ Form) approved by the Texas Ethics Commission (Texas Local Government Code Chapter 176) and by signing this agreement agrees to comply with the Prohibition on Contracts with Companies Boycotting Israel (Texas Government Code Chapter 2270). The Contractor must also fill out Form 1295, as required by the Texas Ethics Commission, and submit it to the City. The form may be found here: https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm
- 12. Entire Agreement:** This Agreement and Exhibit "A" contains the entire Agreement of the parties and there are no other promises or conditions in any other Agreement whether oral or written. This Agreement supersedes and prior written agreements between the parties.
- 13. Amendment:** This agreement may be modified or amended only if the amendment is made in writing and is signed by both parties.
- 14. Severability:** If any provision of this Agreement shall be held to be invalid or unenforceable, then such provision shall be deemed to be written, construed, and enforced as so limited.
- 15. Waiver of Contractual Right:** The failure of any party to enforce any provision of this Agreement shall not be construed as a waiver of that party's right to subsequently enforce and compel strict compliance with every provision of the Agreement.
- 16. Applicable Law:** The laws of the State of Texas shall govern this Agreement.

17. Venue: The venue for any and all legal disputes arising under this Agreement shall be Hays County, Texas.

CITY OF DRIPPING SPRINGS: _____:

Bill Foulds, Jr., Mayor

ATTEST:

Andrea Cunningham, City Secretary

DRAFT