



R.A. "Tony" Rojas
Executive Director & President

Macon Water Authority
790 Second Street * P.O. Box 108
Macon, GA 31202-0108
(478) 464-5600 * FAX (478) 750-2007
Visit Us @ www.maconwater.org

Members

Samuel F. Hart, Sr., Chairman
Frank Patterson, Vice-Chairman
Javors J. Lucas
Dorothy "Dot" C. Black
Dwight Jones
Bert Bivins, III
Gary Bechtel

December 1, 2017

Bid Department,

The Macon Water Authority has requested that sealed bids be received in the Purchasing Department for 1(One) "Valve Insertion Machine" in accordance with the attached specifications.

It is emphasized that sealed bids must be received by the Purchasing Department of the Macon Water Authority no later than 10:00 a.m., Thursday, December 28, 2017. Bids will be publicly opened and read in the Authority's Board Room, 790 Second Street, Macon, GA. at 10:00 a.m., Thursday, December 28, 2017. Your attendance is encouraged but not required.

It will not be sufficient to mail your sealed bid and depend upon the postal services for on time delivery. Bids received after 10:00 a.m., Thursday, December 28, 2017, will not be accepted. Your bid must be sealed and marked "Sealed Bid – "Valve Insertion Machine".

Please review the attached bid documents. All appurtenances must be fully executed for proper consideration, acceptance, and award by the Macon Water Authority. Those not responding to this sealed bid request may be removed from the List of Bidders for a period of 60 days.

Should any questions arise regarding this proposal, please feel free to contact me at (478) 464-5629.

Sincerely,

Mary Brezial
Buyer

Enclosures

TO:		*REMARKS BID TITLE: VALVE INSERTION MACHINE BID DUE: DECEMBER 28, 2017 @ 10:00 a.m. THIS IS A FORMAL SEALED BID YOU MUST SUBMIT TWO (2) COPIES OF EACH BID			
FOR TECHNICAL QUESTIONS CALL: Darryl Macy 478-478-464-5673 SEND SEALED BIDS MARKED - "SEALED BID - "VALVE INSERTION MACHINE" MACON WATER AUTHORITY MARY BREZIAL PURCHASING DEPARTMENT 790 SECOND STREET P.O. BOX 108 MACON, GEORGIA 31202-0108		REQUEST FOR QUOTATION THIS IS NOT AN ORDER			
PLEASE QUOTE THE FOLLOWING ITEMS. WE WILL CONSIDER SUBSTITUTE OFFERS.		DATE ISSUED December 1, 2017	DELIVERY WANTED 6 WEEKS		
QTY.	UOM	DESCRIPTION	UNIT PRICE	LESS DISC	NET
1	EACH	VALVE INSERTION MACHINE SEE ATTACHED SPECIFICATIONS TECHNICAL QUESTIONS CALL: DARRYL MACY 478-464-5673 MAIL SEALED BID LABELED: "SEALED BID - VALVE INSERTION MACHINE MARY BREZIAL MACON WATER AUTHORITY P.O. BOX 108 790 SECOND STREET MACON, GA 31202-0108			
WE QUOTE YOU AS ABOVE F.O.B. MACON. SHIPMENT CAN BE MADE IN _____ DAYS FROM RECEIPT OF ORDER. PAYMENT TERMS _____, DATE _____ COMPANY QUOTING _____ OFFICIAL SIGN _____ PLEASE PRINT NAME OF SIGNEE _____ RETURN THIS QUOTATION TO THE ABOVE ADDRESS — ATTENTION PURCHASING					

VALVE INSERTION EQUIPMENT SYSTEM

SECTION V

A. Intent

It is the intent of this specification to provide for the purchase of one (1) new and unused Valve Insertion System with hydraulic drive motor, additional base tapping machine, hydraulic power pack and qik kit system, or approved equal.

The system shall meet the specifications contained herein. These capabilities specified herein are mandatory requirements that must be met by any equipment offered.

B. Equipment Capability

The equipment shall be capable of the installation, without shutdown of a valve insertion, in the range of four-inch (4") diameter through twelve-inch (12") diameter. Method of pipe entry shall be made using a carbide tipped cutter and pilot drill retaining wire to retain coupon. Reaming or milling of the pipe shall not be acceptable. This equipment shall be rated for line pressures up to 250 PSI and allow for installation of open left (Clockwise close) and open right (anti-clockwise close) valves without disturbing existing utilities in close proximity to the valve location. The equipment shall allow for expansion to single or double sets of line stopping equipment in sizes four to twenty inches (4" to 20") without factory re-work. The equipment shall allow for expansion to side tapping of three inches to twenty inches (3" to 20") with optional adapter kits. The equipment shall also allow for expansion to valve insertion of sixteen inches (16") with additional adapter kit.

Equipment must include the following.

Quantity	Description
2 each	tapping (Drilling) Machine (4" – 12")
1 each	Drive Motor: Hydraulic
1 each	Shell Cutter: Carbide tooth (4",6",8",10",12") (5 total)
1each	Pilot Drill (4"-6", 8" & 10"-12") (3 total) (
1 each	Saw Mandrel (4"-8") and (10"-12") (2 total)
1 each	Temporary Valve 8" & 12" (2 total)
1 each	OS& Y Top With 30-inch feed screw
1 each	Insertion housing 8" & 12" (2 total)
1 each	20-inch adapter housing
1 each	Insertion tool (4 -8", 10 -12") (2 total)
1 each	Guide Plate
1 each	Blind Flange with test port 8" & 12" (2 total)

1 each qik kit
2 each Insta Valve Insertion guide gauges (4"-8") & (10" – 12")

The size and weights of each Valve Insertion Equipment (4" – 12") shall be such that two (2) workman can assemble the machinery and manually transport it over a level construction site without the use of hoisting equipment. Once lowered into an excavation, two (2) workmen can mount the machinery onto the valve insertion fitting without further hoisting assistance. All requirements expressed as mandatory in this paragraph and all requirements expressed as mandatory in all the sub paragraphs this section i.e., as requirements that "shall" be met are minimum mandatory requirement that must be met by any equipment offered.

INSERTABLE GATE VALVE

Insertion valve shall be an all stainless-steel body Resilient Wedge Gate Valve designed for permanent use in potable water, sewage, raw water, reclaimed water, irrigation and backflow control systems. The design w

Ill allow the valve to be installed into an existing pressurized pipeline while maintaining constant pressure and service without system shutdown. No restraining devices, restraining fasteners, or transition gaskets shall be required for the installation or operation of the valve.

Traditional line tapping methods shall be used for the installation of all insertion valves to allow removal of a single coupon for system evaluation. Reaming the pipe, complete removal of a section of pipe (top & bottom), or milling a slot in the pipe shall be prohibited.

All insertion valves shall have a stainless-steel body, carbon steel epoxy coated bonnet and a reinforced composite polymer valve cartridge to provide superior corrosion resistance, strength and a pressure rating that meets or exceeds the requirements of resilient seated gate valves. The insertion valve shall be stainless steel construction for corrosion resistance maximum toughness and strength.

All insertion valves must be capable of working on Cast/Grey Iron or Ductile Iron Class A, B, C and D, IPS PVC, Steel and AC pipe diameters without changing either top or bottom portion of split valve body or using a transition gasket. All insertion valves must provide a solid support of the host pipe through the entire laying length of the valve body. No gaps or space between the valve body and host pipe shall be accepted. All insertion valves shall be rated for 250 psig maximum working pressure. The pressure rating must be permanently marked into the body.

All insertion valves must be hydrostatically pressure tested to 1.25 times of the system operating pressure (minimum) or 1.5 times of the Insertion Valves 250 psig maximum pressure rating. The test shall be sustained for a minimum of 15 minutes. Once the pressure test is affectively achieved the insertion valve body must not be moved in accordance with AWWA standards. If the insertion valve body is moved the pressure test must be completed again. Any movement, repositioning, loosening and/ or retightening must be retested before the pipe is tapped.

Insertion valves shall have an EPDM molded resilient wedge seal. The resilient wedge seal will be affixed into a re-enforced nylon composite polymer valve cartridge. The entire assembly shall be inert and impervious to corrosion. The nylon composite polymer valve cartridge shall be engineered to come into contact with the interior of the host pipe and an engineered sealing surface in the valve body to create a seal. The resilient wedge shall be reinforced to resist abrasion thus extending the life and quality of the shutdown where the wedge contacts the host pipe.

Pressure equalization on the down or upstream side of the closed wedge shall not be necessary to open valve. The wedge shall be symmetrical and seal equally well with flow in either direction. The resilient wedge must ride inside a minimum of four body channels to maintain wedge alignment throughout its travel and to achieve maximum fluid control regardless of high or low flow pressure or velocity. Insertion valves shall have a full size, full port flow way that is unobstructed, and free of depressions to provide optimum flow and sealing and not trap tuberculation or debris.

Maximum height of the valve from the center of the host pipe to the top of the operating nut shall not exceed the following dimensions.

4" = 18.6"
6" = 21.5"
8" = 24.6"
10 = 30"
12 = 33"

Maximum laying length of the valve body shall exceed the following dimensions:

4" = 12"
6" = 12"
8" = 16"
10" = 24"
12" = 24"

Maximum weight of the valve shall not exceed the following weight:

4" = 138 lbs.
6" = 173 lbs.
8" = 229 lbs.
10" = 370 lbs.
12" = 425 lbs.

Insertion valves shall have all stainless-steel bodies, fasteners and epoxy coated carbon steel valve bonnet. The use of epoxy coatings for protection against corrosion is deemed insufficient for any component other than the valve bonnet. Insertion valves shall utilize four O-Ring's to seal between valve body to valve bonnet and valve stem. These O-rings shall be located in such a fashion as to insure the 250 psig pressure worthiness and prevent ground water and/ or foreign materials from entering the valve.

Insertion valves shall be NRS (non-rising stem) and operate with standard turns 3 turns per diameter inch to open and close. Insertion valves shall be operated by a 2" square wrench nut – open left or open right. The gate valve stem shall be made of stainless steel. The gate valve stem shall be able to withstand torque of 700 ft. lbs. of torque without compromising operation. The NRS stem must have an integral stem collar manufactured of no lead bronze. Two-piece stem collars are acceptable. The stem shall be affixed into the valve cartridge to maintain stem alignment, low torque and continuous operation of the valve.

All bonnet and valve body fastener hardware shall be stainless steel. Valve cartridge locking pins shall be made of grade 8 Zinc coated carbon steel to prevent galling with stainless steel pin plugs coated to prevent galling. Insertion valves that require the use of external or integral split restraint devices and or restraint fasteners is prohibited.

Insertion valves shall be factory pressure tested and serialized for traceability before leaving the manufacturing facility to assure quality. Proof of successful factory pressure test must be made available upon customer request within three business days.

All moving and operating parts must be removable, repairable and or replaceable under pressure to ensure easy repair of broken or damaged parts. Insertion valves must have the ability to be converted to a line stop fitting in the field without modification.

C. EQUIVALENT PRODUCT

The specifications herein state the minimum requirements of the Macon County Water Authority. Bids will be accepted for consideration on any make or model that is equal or superior to the equipment specified. Decisions of equivalency will be at the sole interpretation of Macon County Water Authority. A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. Original manufacturer's brochures of the proposed unit described in the manufacturer's brochures must be certified by the manufacturer and submitted with the bid, or the bid will be deemed "non-responsive" and rejected without further review. Bidder must be prepared to demonstrate a unit similar to the one proposed, if required.

Any bid lacking sufficient technical literature to enable Macon Water Utilities to make a reasonable determination of compliance to the specification will be consider as “non-responsive” and rejected without further review. It shall be the bidder’s responsibility to carefully examine each item of the specification. Failure to offer a competed bid or failure to respond to each section of the technical specification will cause the proposal to be rejected without further review.

E DELIVERY TIME

The supplier shall deliver the Valve Insertion System with forty -five days of the OWNER placing the order.

All deliveries shall be made during weekdays, OWNER Holidays excluded, between hours of (9:00AM and 3:00 PM).

PROPOSAL FORM

Date: _____

For: **MACON WATER AUTHORITY**
P. O. Box 108
790 Second Street
Macon, GA 31202-0108

Ladies and Gentlemen:

Having carefully examined the Specifications entitled:

Macon Water Authority:
Valve Insertion Machine
And Addendum (a) No. (s)-If applicable

The undersigned proposes to furnish all services, labor and materials called for by Them for the entire work, in accordance with said documents, for

The sum of: _____ Dollars.
(\$ _____)

Which sum is hereinafter called the "Base Bid".

Name: _____

Address: _____

By: _____

Title: _____ Telephone No: _____

END OF SECTION