

AN ORDINANCE AUTHORIZING IMPROVEMENTS FOR THE MUNICIPAL WATER UTILITY, AND APPROPRIATING \$215,000.00 THEREFOR FROM THE WATER-SEWER UTILITY CAPITAL IMPROVEMENT FUND FOR THE FINANCING THEREOF.

BE IT ORDAINED by the Municipal Council of the City of Vineland, in the County of Cumberland, New Jersey, as follows:

Section 1. The improvement described in Section 2 of this Ordinance is hereby authorized as a general improvement to be made or acquired by the City of Vineland Water-Sewer Utility, in the City of Vineland, New Jersey. For the said improvement or purpose stated in said Section 2, there is hereby appropriated the sum of \$215,000.00 from the City of Vineland Water-Sewer Utility Capital Improvement Fund, said sum being inclusive of all appropriations heretofore made therefor.

Section 2. The improvement hereby authorized and the purpose of the appropriation therefor is:

A. For the redevelopment of Well No. 9 and Well No. 11, which is required to regain the maximum flow capacity, at an estimated cost of \$80,000 each; and

B. For the purchase of valve installation equipment for emergency and routine situations in the distribution system, estimated at \$55,000.00. The equipment allows the Water Utility to install valves in the water main while it is under pressure thereby avoiding a disruption of service to customers within the affected area and also allowing the Utility the ability to quickly isolate a water main break when an existing valve fails;

together with all necessary and incidental miscellaneous equipment, apparatus, appliances, appurtenances, safety equipment and insurance.

Section 3. The following matters are hereby determined, declared, recited and stated:

The said purpose described in Section 2 of this Ordinance is not a current expense and is a property or improvement which the City of Vineland Water-Sewer Utility, in the City of Vineland, New Jersey, may lawfully acquire or make as a general improvement, and no part of the cost thereof has been or shall be specially assessed on property specially benefitted thereby.

Section 4. The capital budget is hereby amended to conform with the provisions of this ordinance to the extent of any inconsistency therewith and the regulations promulgated by the Local Finance Board showing full detail of the capital budget and capital program as approved by the Director, Division of Local Government Services, and as on file with the City Clerk and available for public inspection.

Section 5. This ordinance shall take effect upon its publication and passage in the manner provided by law.

Passed first reading:

Passed final reading:

President of Council

Approved by the Mayor:

Mayor

ATTEST:

City Clerk



Michael Lawler
VMWU Superintendent
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To: Joe Isabella, Yolanda Hill
CC: Denise Monaco, Roxanne Tosto
From: Michael S. Lawler, VMWU Superintendent, CPWM.
Date: 9/9/14
Re: Capital Improvement Request 2014

The Water Utility respectfully requests a capital improvement authorization in the amount of \$215,000.00 for improvements as follows:

1. Redevelopment of Wells 9 and 11 at an estimated of \$80,000.00 each - The redevelopment of the aforementioned wells is required to regain the maximum flow capacity.
2. Purchase valve installation equipment for emergency and routine situations in the distribution system. Estimated at \$55,000.00 - The valve insertion equipment allows the Water Utility to install valves in the water main while it is under pressure thereby avoiding a disruption of service to customers within the affected area. In addition, it allows the Utility the ability to quickly isolate a water main break when an existing valve fails. We currently have to pay a contractor to perform this work when needed.

Joseph Isabella

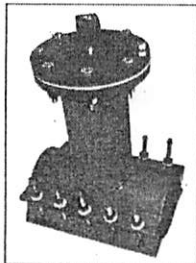
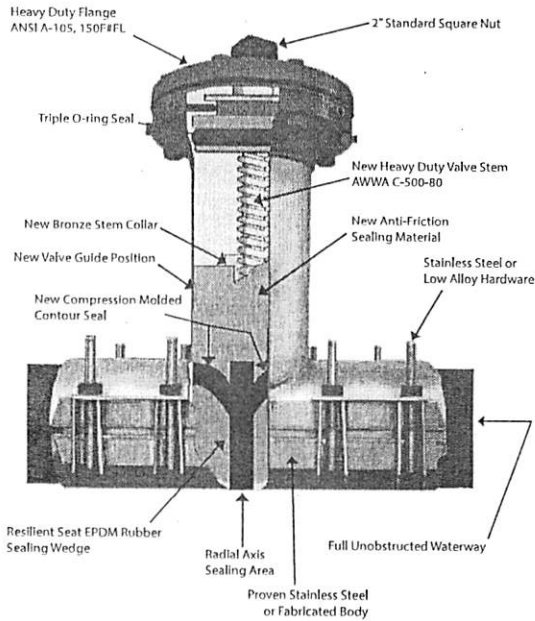
Thank You

Michael Lawler, Superintendent, CPWM



135,000

Hydra-Stop's Insta-Valve Plus provides a means to install a permanent valve into a water main with no interruption of flow through the pipe and no reduction of line pressure (up to 150 psi). The insertion of an Insta-Valve Plus is accomplished through a single circular hole cut (under full line pressure) into the top of the pipe with no reaming. The Insta-Valve Plus permanently remains in the water distribution piping to allow system repair in the same manner as any gate valve which would have been originally installed with the water main.



Insta-Valve Plus is now available with a weld-on nipple and full encirclement in sizes 4" thru 16" and can be used on:

- Steel
- Cast Iron
- Ductile Iron
- Asbestos cement
- PVC
- PE

Custom sizes available on request.

Insta-Valve Plus Specifications

Insta-Valve Plus can be installed using existing Hydra-Stop equipment or as a stand-alone system. The high quality Insta-Valve Plus meets or exceeds industry standards for years of trouble-free service.

Insta-Valve Plus Insertable Valves

Part Numbers	Size
IV A 04.00	4in/100mm
IV A 06.00	6in/150mm
IV A 08.00	8in/200mm
IV A 10.00	10in/250mm
IV A 12.00	12in/300mm
IV A 14.00	14in/350mm
IV A 16.00	16in/400mm

All sizes are approximate. Custom sizes available on request.

The Hydra-Stop Insta-Valve Plus includes:

1. Standard valve nut
2. Valve body made of 304 stainless steel
3. Valve gate made of EPDM rubber
4. Valve stem made to AWWA C-500-93 Section 3.12 specifications
5. ANSI A-105, 150 lbs. rated flange
6. Available in:

Weld On - Nozzle or Split Tee
Clamp On - Standard or Extra Heavy

HYDRA-STOP®

A Division of ADS LLC

ADS, An IDEX Water & Wastewater Business. **IDEX**

11700 S. Cicero Avenue, Alsip, IL 60803
Phone: 708-389-5111 / Fax: 708-389-5125
Toll Free: 1-800-538-7667

Insta-Valve PLUS

Hydra-Stop Insertable Valve

Insta-Valve® Plus, the award-winning, easy-to-install, easy-to-use insertable valve, gives professionals unprecedented control of their distribution systems. Imagine inserting valves wherever you need them, in a fraction of the time it used to take, without disrupting service. Take control with the patented and award-winning Insta-Valve Plus. It has never been easier. Patent # 6,810,913

The award-winning Insta-Valve Plus from Hydra-Stop® is a resilient seat wedge valve that uses bullet stopper technology to stop flow in all types of pipe and can be installed under pressure, up to 150 psi. The Insta-Valve Plus exceeds industry standards and provides a safer, more economical way of inserting valves in your system. The Insta-Valve Plus is easy to use and even easier to install. They install in half the time, without service disruption, providing immediate system control with only one cut.

The Insta-Valve Plus design includes the industry standard bronze stem collar and a heavy duty stem for the strongest of valve operators. Insta-Valve Plus stops flow in all types of pipe 4" to 16" including potable water mains, wastewater force and gravity mains, and industrial applications. It can be installed using existing Hydra-Stop equipment or as a stand alone system.

The sealing surfaces of the Insta-Valve Plus consists of a compression molded contour seal joined to the radial axis sealing area that optimizes the seal at both the pipe and the coupon removed location.

Insta-Valve Plus Features

Insta-Valve Plus provides:

- Constant flow
- Peace of mind
- System control
- Immediate results
- Value added options
- Clean drinking water
- Safe working conditions
- A water conservation measure
- Employee efficiency, reducing employee overtime

Insta-Valve Plus eliminates:

- Boil orders
- Complicated planning
- Loss of fire protection
- Large street excavations and street patches
- Working in unsafe trenching and knee-high mud
- Reaming the pipe wall or completely severing the pipe
- Not having isolation zones in the event of contamination

Insta-Valve Plus Applications

- Potable water mains
- Wastewater force mains
- Industrial

Insta-Valve Plus is not guaranteed to provide 100% shutdown. Insta-Valve Plus will provide a workable shutdown for pipeline maintenance, often achieving 100%.



Insta-Valve Plus can be installed with your existing Hydra-Stop equipment or as a stand alone system. Easy installation makes the Insta-Valve Plus a versatile part of the Hydra-Stop System.

About Hydra-Stop

Hydra-Stop is a leading provider of integrated and expandable pipe maintenance equipment and contract services. In business for over 25 years, their experience and commitment are built into every product and every project. The low-cost, lightweight equipment of the innovative Hydra-Stop System provides new solutions to the old dilemma of shutdowns vs. live repairs.



Winner of the Construction Innovation Forum's Prestigious NOVA Award

HYDRA-STOP®
A Division of ADS LLC

Award Winning Valve Insertion

Insta-Valve® Plus from Hydra-Stop has won two prestigious awards for innovation and design.

Winner of CIF's Prestigious NOVA Award



The Statue Presented to
NOVA Award Winner

The Construction Innovation Forum (CIF) began as an idea generated by a handful of people in 1986. It has grown into a worldwide grass roots organization that is known and respected for its NOVA Award, the 'Nobel Prize' for innovation in construction. The NOVA Awards exist to draw attention to innovative thinking and the need for more of it.

Each year, the CIF presents the NOVA Award to honor innovations that have significantly improved construction quality and cost. The NOVA Award has a serious mission: to illuminate the innovations and innovators that have made important contributions to the construction industry.

The NOVA Award is CIF's most distinguished honor. A jury of internationally recognized experts selects NOVA winners after an intense and thorough investigative process.

Hydra-Stop's Insta-Valve Plus is the only insertion valve to be awarded this prestigious honor.

AWWA New Product Technology Showcase Awardee



For the past 125 years, the AWWA Annual Conference and Exposition has served as a source of knowledge and information for water professionals who work to improve the supply and quality of water in North America and beyond.

The New Product Technology Showcase is an exclusive area in the exhibit hall of the ACE event where selected companies showcase their newest products and services. The AWWA Manufacturers/Associates Council (MAC) Ad Hoc Committee reviews numerous new product submissions and carefully selects the featured products, based on whether the product is new or enhanced, its commercial availability in the market, and the impact it has on the industry.

Hydra-Stop's Insta-Valve Plus was featured in the AWWA New Product Technology Showcase.

Featured at the New
Product Technology
Showcase at
AWWA-ACE

Frequently Asked Question's

- 1. What is Insta-Valve® Plus?**
Insta-Valve Plus is a resilient seat wedge valve that uses bullet stopper technology to stop flow allowing you to add control points and isolation zones to your system.
- 2. How does Insta-Valve Plus seal?**
Insta-Valve Plus features a new contour seal design that optimizes the sealing characteristics providing the best performance and reliability of any valve insertion technology available today.
- 3. Is the Insta-Valve Plus installed easily?**
Yes, Insta-Valve Plus can be installed in as little as one hour. Simply mount the Insta-Valve Plus fitting, make a simple tap with your Hydra-Tapper™, and install your Insta-Valve Plus valve cartridge.
- 4. How many excavations are required to install Insta-Valve Plus?**
Only one small excavation is required to install Insta-Valve Plus. The minimum excavation size is 3' x 3'.
- 5. Does it take a lot of hand tools to install Insta-Valve Plus?**
No, the only hand tools needed to install Insta-Valve Plus are two open end wrenches and one allen wrench.
- 6. Can the Insta-Valve Plus be installed off center?**
Yes, Insta-Valve Plus can be installed in any position on the pipe.
- 7. Can the Insta-Valve Plus cartridge be replaced?**
Yes, by reversing the installation process you can simply install a new Insta-Valve Plus valve cartridge if needed.
- 8. Is Insta-Valve Plus a permanent valve?**
Yes, Insta-Valve Plus is a permanent valve and has been designed to provide years of trouble free operation.
- 9. How many turns does it take to open or close the Insta-Valve Plus?**
 - 4" - 12
 - 6" - 18
 - 8" - 24
 - 10" - 30
 - 12" - 36
 - 16" - 48
- 10. Does the Insta-Valve Plus work on all common types of pipe?**
Yes, Insta Valve Plus can be installed on all types of common pipes.
- 11. Can the Insta-Valve Plus be customized for a specific application?**
Yes, Since the Insta-Valve Plus is fabricated epoxy coated carbon steel, or stainless steel Insta-Valve Plus can be customized to fit almost any size or type of pipe.
- 12. Does the Insta-Valve Plus meet AWWA standards?**
AWWA does not have a standards for insertion valves. AWWA C-509-01 and C-515 resilient-seated gate valve standards are not met by any insertion valve on the market today.
- 13. What if my application requires me to use a valve that needs to meet AWWA C-509-01 or C-515-01 standards?**
If your application requires you to use a valve that meets AWWA C-509 or AWWA C-515 you can simply use a line stop to cut-in the AWWA approved valve of your choice.
- 14. Does Hydra-Stop® guarantee 100% shutdown?**
No, Hydra-Stop® does not guarantee 100% shutdown. The advance technology of the Insta-Valve Plus valve cartridge is designed to achieve 100% shutdown but conditions inside the pipe may affect performance up to 5%.
- 15. In which sizes is the Insta-Valve Plus available?**
Currently Insta-Valve Plus is available in sizes 4"-12" & 16". Additional sizes will be available in the future. Sizes 14", 18", & 20" are currently being developed.
- 16. Can my Insta-Valve Plus equipment only be used for valve insertion?**
Insta-Valve Plus equipment is completely modular and expandable. Adding to your existing Insta-Valve Plus equipment with Hydra-Stop Expansion Kits will give you the option of side tapping, line stopping, or both.
- 17. Is Insta-Valve Plus a new product?**
No, Insta Valve Plus is currently in its third generation of evolution. Years of successful installation have enabled Hydra-Stop to perfect Insta-Valve Plus and its installation process.
- 18. What pressure is Insta-Valve Plus rated to?**
Insta Valve Plus is rated to 150psi.

Ask for our cost comparison sheet and visit us on the Web at www.Hydra-Stop.com

PROJECT BRIEF

Insertable Valve Network Provides Ongoing Solution to Water Loss Orange Cove, California

Insertable Valve Line Stopping

Orange Cove, CA - As the only city in Fresno County that is completely dependent on surface water, the City of Orange Cove had 40% unaccounted for water loss when Bill Little, former City Manager, returned to Orange Cove to address the community's growing water problems... "Our goal is to reduce unaccounted for water loss in Orange Cove down to 3% - 5%," explained Little. "In a city with an old system and a high turnover there are no records or documentation to facilitate the management of the system. If we had a leak in a water main we had to shut the whole town down. We needed a solution that would allow us to make line replacements while the system is hot, rather than shutting it down."

The City was also running into numbers of repair issues with their sixty-year-old system. They needed full control of the water throughout the system to be able to make the repairs without disrupting service to the community. It was determined that all the existing lines in the alleys needed to be replaced. This would require 68 tie-ins and, without the Hydra-Stop solution, approximately four hours of shutdown per tie-in.

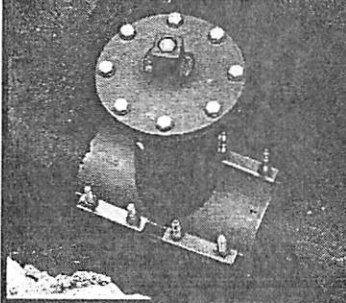
Services Provided by Hydra-Stop

- Replaced, repaired, and retrofitted water lines
- Installed 113 insertable valves
- Trained personnel on equipment for future repairs
- Completed 68 tie-ins

Primary accomplishments:

- Reduced water loss
- Conducted 68 tie-ins without shutting down the system
- Repaired breaks using Insta-Valve Plus without additional costs
- Saved city time and money through tie-in of old system to new one
- Used City-owned Hydra-Tapping machine for installations and future repairs

Insta-Valve Plus insertable valve as installed on a Big Cove line.



The Department of Water Resources provided Orange Cove with a grant based on the benefit to be gained from replacing and retrofitting the lines and reducing the water loss. Determined to update the system without interruption of service to his community, Bill Little outlined a plan for what was required to Ron Yamabe of Yamabe & Horn who is also the City Engineer for the City of Orange Cove. Yamabe identified Hydra-Stop® and Insta-Valve® Plus as the solutions that would provide the equipment and the training to conduct all the replacements, repairs, and retrofits without requiring a shutdown of the system.

During this process they had a couple breaks on the mains due to the age of the line. In these situations they used the same Insta-Valve Plus valves that were already installed to isolate the line and fix the leaks that arose.

"The Insta-Valve Plus is really easy to install. After one day of training with Hydra-Stop the crews were averaging 4-5 valve installations in an 8-hour shift. This makes Hydra-Stop a great solution because they save the city money and time by giving us the capability to tie the new system into the old one without inconveniencing the residents of the City."

David Halopoff, Secretary
Halopoff & Sons, Inc.

Equipment Sales and Contract Services

Hydra-Stop offers a wide variety of equipment purchase programs and/or contract services to meet the individual needs of contractors, municipalities, and agencies along with many growth and expansion options.

About Hydra-Stop

Hydra-Stop is a leading provider of integrated and expandable pipe maintenance equipment and contract services. In business for over 25 years, their experience and commitment are built-in to every product and every project. The low-cost, lightweight equipment of the innovative Hydra-Stop System provides new solutions to the old dilemma of shutdowns vs. live repairs.

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