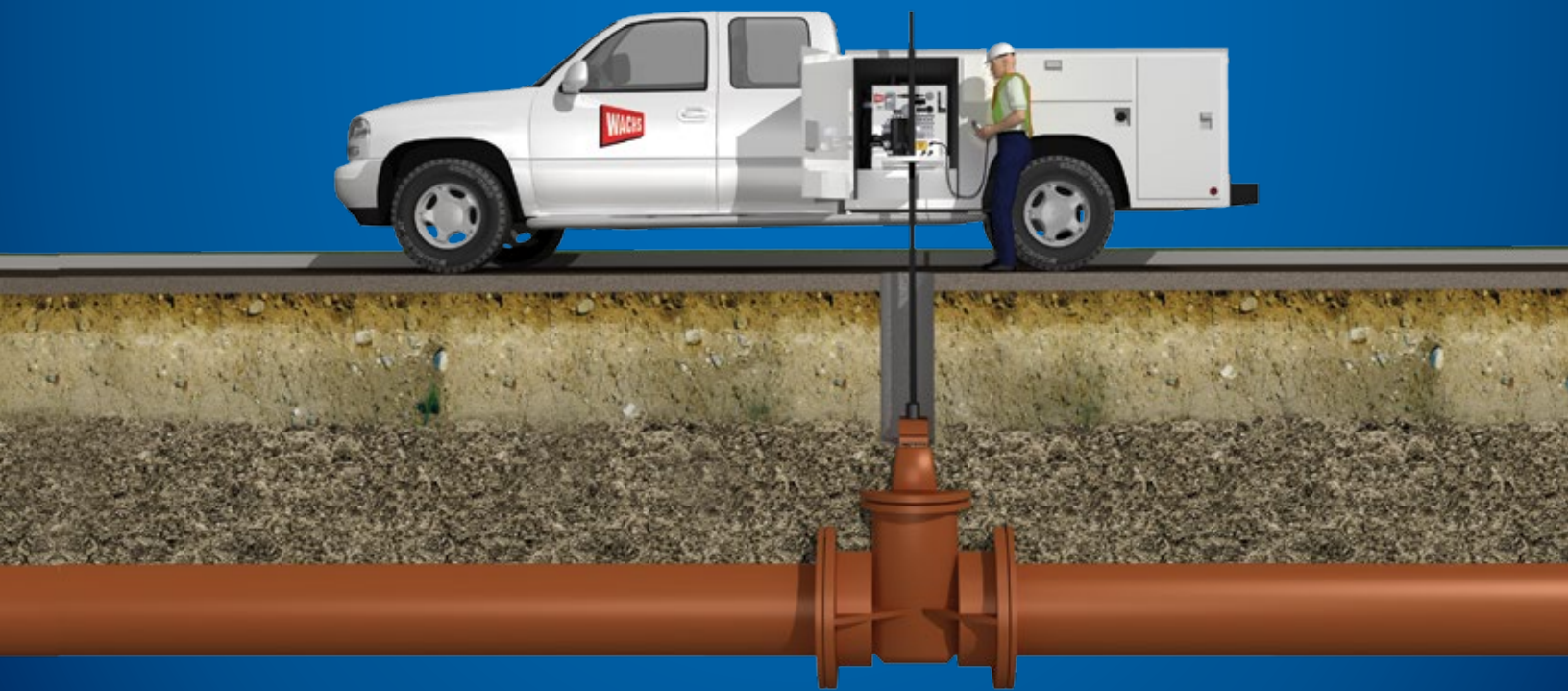


W A T E R
UTILITY
P R O D U C T S



WACHS E.H.WACHS®
Superior Equipment. Complete Support.™

SUPERIOR EQUIPMENT



Early model truck mount valve exerciser

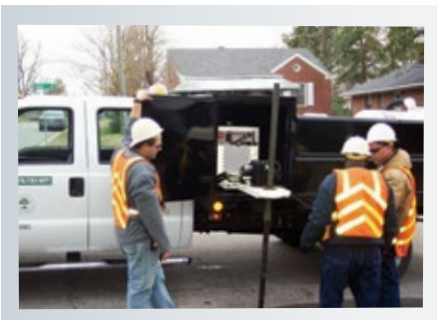
For over 125 years E.H.Wachs has manufactured the world's finest portable pipe machining tools and valve exercisers. Specially designed for water and gas distribution system operators, our products are solidly built to help you maintain these systems, year after year, with greater efficiency and safety.

Built to Last

We design and build all our products to last a lifetime. E.H. Wachs is ISO 9001 certified, and reflecting our manufacturing excellence was named one of the "Ten Best Machine Shops" by American Machinist Magazine. Sold and supported worldwide, each and every product is individually hand assembled and fully tested by our master craftsmen before shipment.



1970's model truck mount exerciser



Newest TM-7 with VITALS™

Superior Equipment

Wachs offers municipalities, utilities and contractors a full line of valve exercising machines and vacuum evacuation products for valve box and vault cleanout. These include our handheld exercisers Pow-R-Drive 2™ and Rising Stem RS-2™, our workhorse truck or trailer mounted ERV-750™ and the Wachs powerhouse TM-7™. These machines feature our industry exclusive, patented Intelligent Automation to virtually eliminate valve breakage. The competition doesn't have anything like it!

Wachs line of portable pipe machining tools include pipe cutters, pipe bevelers, pumps and power units, all designed to maintain your systems at peak efficiency. Don't just take our word for it, call us today for a no cost, no obligation demonstration and let us come out and turn your toughest valve, or make a difficult cut. Once you see a Wachs machine in action and compare them to lesser products and imitations, you'll agree with us when we say Superior Equipment. Complete Support.

COMPLETE SUPPORT

Today's managers ask themselves: What's the most important consideration when I purchase valve maintenance machines? Quality hardware, or state of the art software and controllers that talk with my existing water management system?

Superior Hardware and Software

The good news is with E.H. Wachs, you get the best of both. Our hardware is demonstrably superior – just see these machines in action and compare them side by side to the competition. Now ask your IT specialist to review the functionality, precision control and communication that our Intelligent Automation and VITALS™ software offers, and it's game over. Nobody else in the industry has anything like it – nobody.

Wachs has again taken a quantum leap past the competition with our new advanced VITALS Mobile software. VITALS gathers and synchronizes critical valve information with your water management software. Coupled with our new HC-100 Controller, this means that you now have your entire system information available in the palm of your hand!

Complete Support

When you purchase an E.H. Wachs machine, you're partnering with the industry leader that's been building Superior Equipment for 125 years. That partnership means the equipment you buy today will be supported with the training, service, parts and upgrades that will be "vital" in the years ahead. With Wachs powerful combination of hardware and software, you no longer need to choose between them. Choose Superior Equipment. Complete Support.

“A reliable water system is critical to Las Vegas, and so is our valve management program. Using Wachs equipment and VITALS™ software that interfaces with our GIS, we have a clear picture of our system at all times. Fewer complaints, better water quality, more satisfied customers with Wachs.”

MARCELLUS JONES, JR.

Distribution Systems Manager, Las Vegas Valley Water District

THE WACHS ADVANTAGE

- Newest VITALS™ Software
- New HC-100 Controller
- Sub-Meter and Deci-Meter GPS Controller options
- Industry Exclusive: Synchronize Information
- Patented Exclusive: Intelligent Automation
- Full Integration: All Leading GIS Systems
- Complete Customization Options
- Complete Warranty
- Full Upgrade Path
- Sold and Serviced Worldwide



Intelligent AUTOMATION

E.H. Wachs offers the industry's leading fully automated system of safely exercising valves that's so unique, it's patented. Wachs Intelligent Automation equipped tools are safer and easy to use, and is available on all our power truck or trailer mounted valve exercisers.

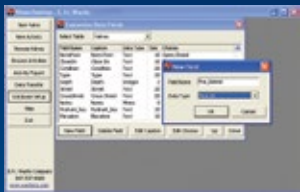
Intelligent Automation

E.H. Wachs combination of Intelligent Automation, VITALS™ software and the Recon controller offers users the most precise microprocessor control of valve operation ever invented. Here's how it works: Wachs Intelligent Automation equipped machines contain the necessary motors and sensors, our VITALS software contains the operating system, and our new HC-100 Controller provides the microprocessor brains and memory. Now you have the ability to safely and remotely exercise valves, capture the information and synchronize it with your desktop. Nobody else has anything like it!

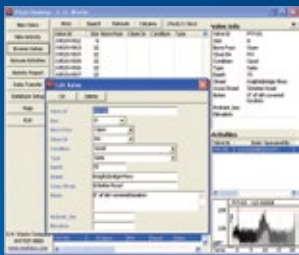
When Intelligent Automation and VITALS are combined, they become a powerful diagnostic tool. Digital torque and turn displays provide clear insight into a valve's condition, while the electronic torque sensor records the torque chart. Adjustable torque control limits include indicators that signal when preset limits are reached, and trigger auto shut down or auto reverse to prevent valve damage.

Intelligent Handhelds

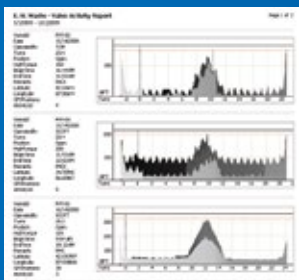
E.H. Wachs makes it easy in implementing a valve maintenance program. Locate, operate, record valve maintenance with our valve exercisers, HC-100 data logger and VITALS software that syncs directly to your desktop GIS.



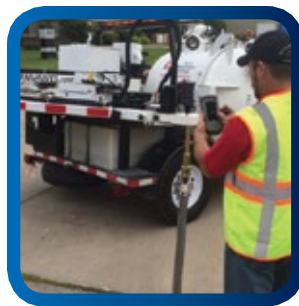
Custom Data Fields



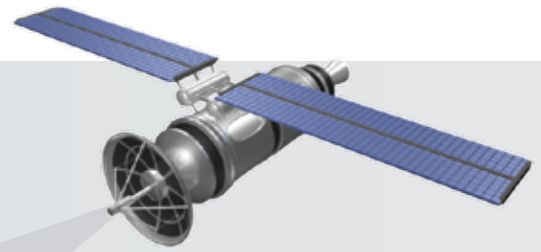
Browse and Edit Valves



Valve Activity Report



VITALS™ Software



Intelligent Automation Equipped



Communicates with
HC-100 and VITALS Mobile



Synchs with VITALS
Desktop and your GIS System

VITALS™

E.H. Wachs has long been an innovator in the field of computerized data collection. An industry first, VITALS™ Mobile features the ability to synchronize with your desktop and communicate with all leading GIS Systems. Residing on your system computer, VITALS Desktop enables the two way synchronizing between the HC-100 and your GIS system. With VITALS, you can import all your existing data labels and categories. There's no forcing your existing data into static predefined fields, so it's all very user friendly. It's now possible to carry your entire system's data right in the palm of your hand!

Wachs VITALS is an acronym for Valve Information Tracking And Logging System. VITALS software allows you to view and log critical information on valve performance and operation, all in real time. This information allows the operator to visualize exactly what's happening at the valve. Adjustable torque control limits include indicators that signal when preset limits are reached, and trigger auto reverse or auto shut down to prevent valve damage.

HC-100 Handheld Controller

The HC-100 is the ideal companion to the Wachs ERV-750™ and the TM-7™ truck and trailer mounted valve exercisers. This handheld computer delivers maximum performance and reliability in a lightweight, rugged design that's easy to carry.

Submeter and Decimeter GPS Available

Upgrade GPS capabilities to Submeter accuracy in real time with integrated antenna or Decimeter accuracy with Floodlight Technology.

Available in a standard configuration, an upgraded GPS version or with the latest highly precise Sub Meter GPS, our GPS HC-100 controllers allow you to automatically gather longitude and latitude coordinates of valve locations.

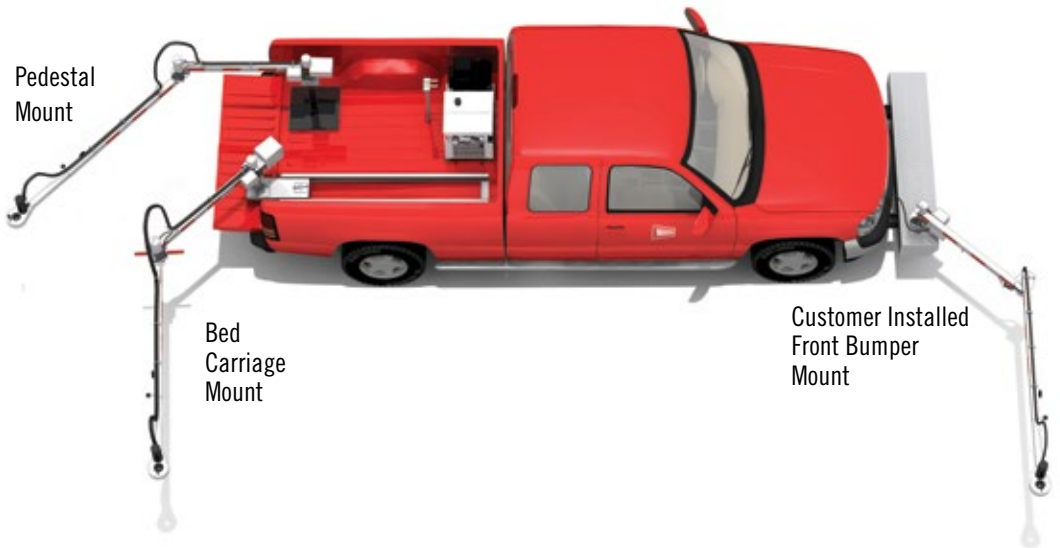
A VITAL Advantage – Synchronizing.

- VITALS™ Mobile offers the ability to Sync with your desktop
- Vitals diagnostics
- VITALS™ is capable of full integration with all leading GIS systems
- Import all your existing data fields unchanged, including labels
- User Defined Fields, choose what works best for you
- Compact HC-100 with touch screen, bright display and Bluetooth® makes synchronizing a snap!

ERV-750™

Extended Reach

Prior to the ERV-750™ extended reach valve turning systems were fragile and could not develop the necessary torque to free stuck valves. Competing products promise flexibility, but no matter how they spin it are fragile and prone to bucking.



For powering a pickup truck mounted ERV-750, use our HPU-750 or a PTO. There are four configurations to choose from:

- Customer installed front bumper mount, where the entire truck bed is free for use.
- Pedestal Mount, most space efficient of bed mounts, unit stows lengthwise along the bed sidewall
- Bed Carriage Mount, allows unit to slide and store totally inside the bed. Its low profile design allows the use of a cap

Hands Free Operation

Competitor's designs typically require the operator to physically hold the machine down on the valve to prevent it from jumping off - a crude and tiring procedure at best. Any claimed advantage in ease of use or range of motion is meaningless if the machine jumps off the valve under torque. Wachs offers an easier, safer and more productive alternative - true hands free operation with Intelligent Automation.



Wachs Extended Reach

E. H. Wachs has perfected Extended Reach Valve turning and maintenance systems with our ERV-750. The Wachs ERV-750 allows a single operator to quickly and easily reach and turn any valve from 6" to 60" (DN150-1500), including inaccessible and obstructed valve boxes. With a 13 foot (3.96 meters) reach, it will apply up to 750 ft-lbs of torque (1015 Nm) in a graduated sequence, using our patented Intelligent Automation. The competition doesn't have anything like it – not even close.

The Wachs design offers flexibility without compromises, and far greater effective power. Simply place the articulated ERV-750 arm near the valve, insert the telescoping or jointed keyway, and remotely and safely exercise the valve using our handheld HC-100 controller.

Without Compromise

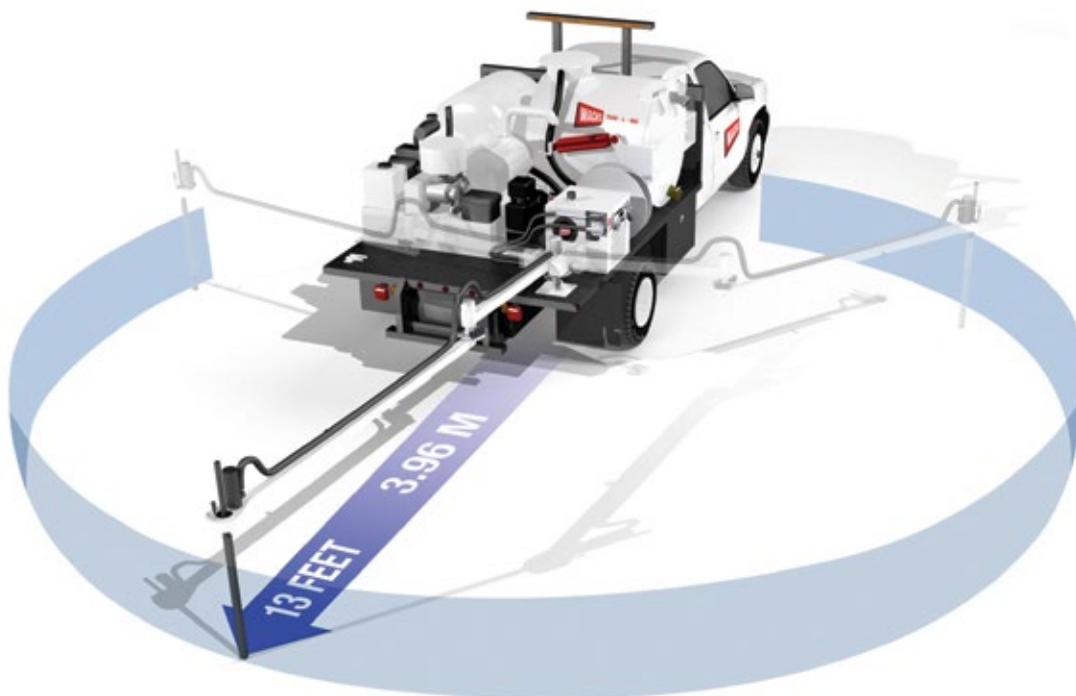
Patented Intelligent Automation

With Intelligent Automation, only the minimum amount of torque necessary is applied, virtually eliminating valve breakage. It's fully automated, so even inexperienced operators can quickly and safely free stuck and neglected valves. Using our industry leading VITALS software, users can obtain critical information on valve health, such as valve type, open/close status, turn direction and torque requirements. All of this information is easily logged, uploaded, stored and synchronized.

Truck or Trailer Mounting

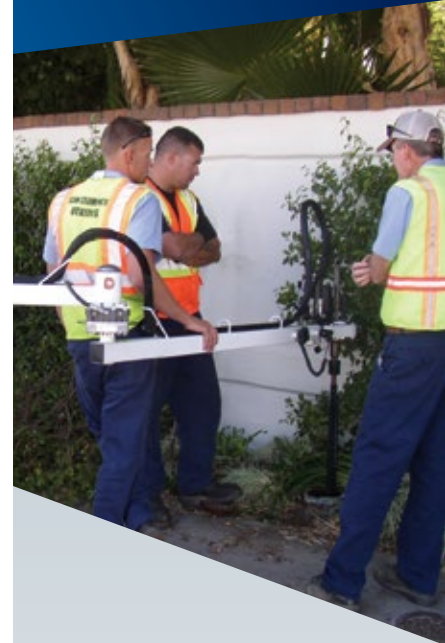
The ERV-750 offers a wide range of trailer or truck mounting options. Trailers are self-contained with the power supply on board, while truck mounting can use a PTO for power. Whichever configuration you choose, like all E.H. Wachs products the ERV-750 is virtually bulletproof and built to last a lifetime.

Your choice in extended reach valve exercising machines just got a lot easier - reach for the phone and call your local E.H. Wachs representative for a side by side demonstration. See how the Wachs ERV-750 is Superior Equipment that puts the competition on the trailer.



The ERV-750™ works equally well on either a truck or trailer, and its mounting options are virtually limitless.

The ERV-750 does not require the operator to physically hold it down on the valve.



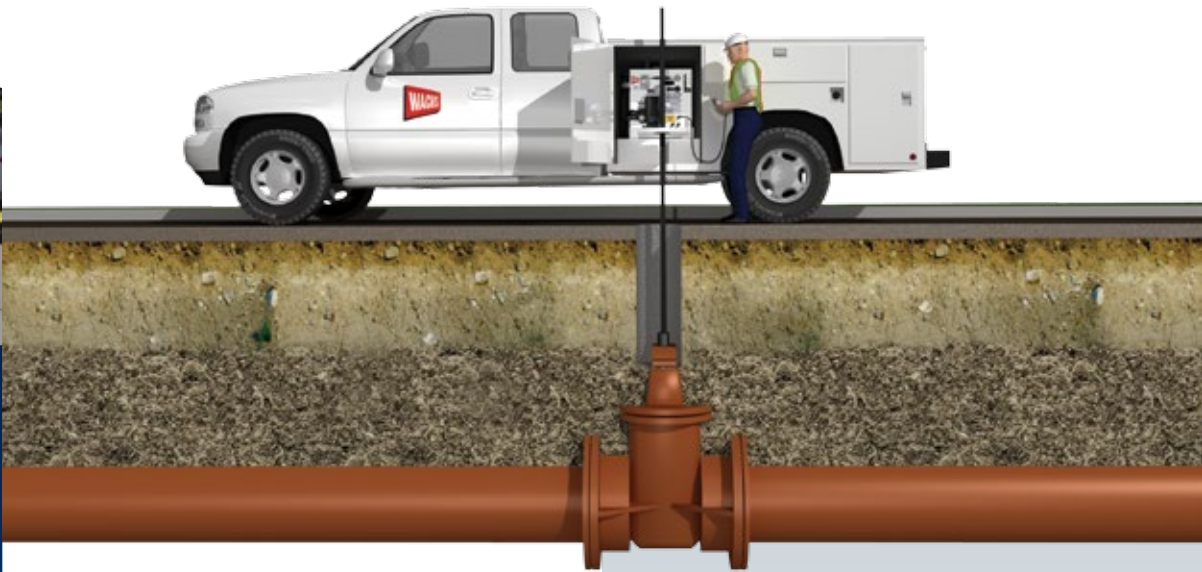
“Like most municipalities, we face a smaller workforce, shrinking budgets, and growing needs. We rely on Wachs VITALS™ software to fully integrate with our GIS and Computerized Maintenance Management System (CMMS) to meet those needs. It's flexible and seamlessly transfers data with a very high level of accuracy.”

DOUG ZWAHLEN
*Utilities Field Supervisor,
City of Akron, OH
Water Department*

TM-7™

Industry Leading Power and Intelligence

If you have valves that are old, corroded and resist turning by ordinary exercisers, consider an E.H. Wachs TM-7™. Using our patented Intelligent Automation, it can apply up to a massive 2500 ft-lbs (3390 Nm) of torque. With a large variety of truck and trailer mounting options to choose from, the TM-7 is the ultimate in power operated valve operators.



WACHS TM-7™

- Ideal for larger, older systems
- Industry leading torque
- Newest design single drive
- Case hardened, torque accepting construction
- Multiple truck and trailer mount options
- Patented Intelligent Automation
- VITALS™ Compatible



Tough but Smart

We build the TM-7 with hardened components for brute strength, and then add smarts with our patented Intelligent Automation. At its maximum torque output the TM-7 could easily break most valves, but Wachs Intelligent Automation monitors torque and gently applies the minimum force required in a gradual sequence. Equipped with our HC-100 handheld controller and VITALS™, the TM-7 will remotely exercise the valve, capture the data and activate auto reverse and auto shut down as needed. Valve breakage is virtually eliminated – there's nothing else like it in the industry!

“We use a Wachs valve exerciser with VITALS™ and GPS to help manage our water system of 9,000 valves and 26,000 connections. San Jose gets lower maintenance costs and improved operations by combining GPS technology, GIS mapping and Wachs data collection to support our long term system objectives.”

MANSOUR NASSER, P.E.

*Division Manager
Water Resources Division
Environmental Services Department
City of San Jose, CA*

Our HC-100 GPS handheld controller allows the user to stand clear of the keyway for safety. The operator can monitor the turning sequence on the VITALS™ Mobile screen in real time, while the HC-100 captures the information to synchronize with your water management system.



Upgrade your existing Wachs™ to a fully automated VITALS™ system.

Add electric control of torque, direction and revolution counting. For additional details contact your Wachs representative.



Designed for Stubborn Valves

Using a TM-7 to safely implement AWWA valve exercising procedures on large valves is easy, even for an inexperienced operator, as the TM-7 fully conforms to the AWWA Valve Exercising Standard.

Available with truck and trailer mounting options, the TM-7 is self contained, modular and will fit almost any vehicle or trailer. Mounting a TM-7 to our GRAND LX™ Trailer offers a huge range of motion, for unparalleled productivity.

Designed for stubborn valves, even ones you may already have scheduled for replacement, if it's not broken the TM-7 will likely turn it. If you don't believe it's possible, call your Wachs representative for a free demonstration and show us your toughest valve.



GRAND LX™

Ultimate Power and Versatility

Every Wachs GRAND LX™ trailer is solidly constructed with:

- Compliant with NATM (National Association of Trailer Manufacturers)
- Fully welded high strength steel box section frame
- Dexter torsion axle rated @ 7000 lbs GVWR
- Choice of ball or pintle hitch
- Bulldog super duty platform jack stand (extendable by hand crank)
- Painted steel road wheels and heavy duty tires

Optional 45 pound Hydraulic Breaker with EZ Ride and 1-1/8" hex bit capacity:

- Operates from any HTM Class 2 hydraulic circuit
- 1,800 blows per minute
- Perfect for cutting curbs, sidewalks and asphalt

The GRAND LX™ (Valve Maintenance Trailer) with the ERV-750™ and TM-7™ onboard is the industry leader in maintaining water distribution systems designed to transport all the valve maintenance and vacuum tools needed in the field. Built for years of reliable service, it's the perfect solution for municipalities or contractors looking for a rugged, long lasting self contained system.



Our most popular configuration, a fully optioned GRAND LX shown with ERV-750 boom extended.

Standard Features

The GRAND LX is impressively equipped with the Wachs power pack consisting of 27 HP gas engine and vacuum pump of 500 CFM for light excavation and valve box clean out. To fully access the valve, a 2.5 GPM @ 3,000 PSI pressure washer system removes stubborn debris. Also included in the power pack is the Wachs HPU-750 providing hydraulic power to the ERV-750 and TM-7 rated for 8GPM @ 1800 PSI.

Removal of debris in the 250 gallon spoils tank is effortless utilizing the slide and tilt hydraulic system. Utility crew can safely operate all functions of the GRAND LX using the side control panel. Additional features of the LX Package:

- Heavy duty locking diamond plate job box.
- Programmable arrow board service lighting.
- 50' hydraulic hose reel for auxiliary hydraulic power.
- Operate ERV-750 and TM-7 wirelessly with a secure Bluetooth connection.

Municipalities can safely and efficiently perform valve maintenance programs to be ready in any emergency and prevent costly utility repairs.

Optional Features

- Upgrade to the powerful Kubota 1.1L, I-3 4-stroke, liquid cooled diesel engine.
- Hot Water Kit.
- Expand GPS capabilities to either Submeter or Decimeter accuracy on the HC-100 controller.

Carry your entire system information in the palm of your hand! Wachs HC-100 and VITALS™ Mobile software synchronizes with your water management software to share information in two directions. Shown is the GPS HC-100 that records longitude and latitude information on your valves.



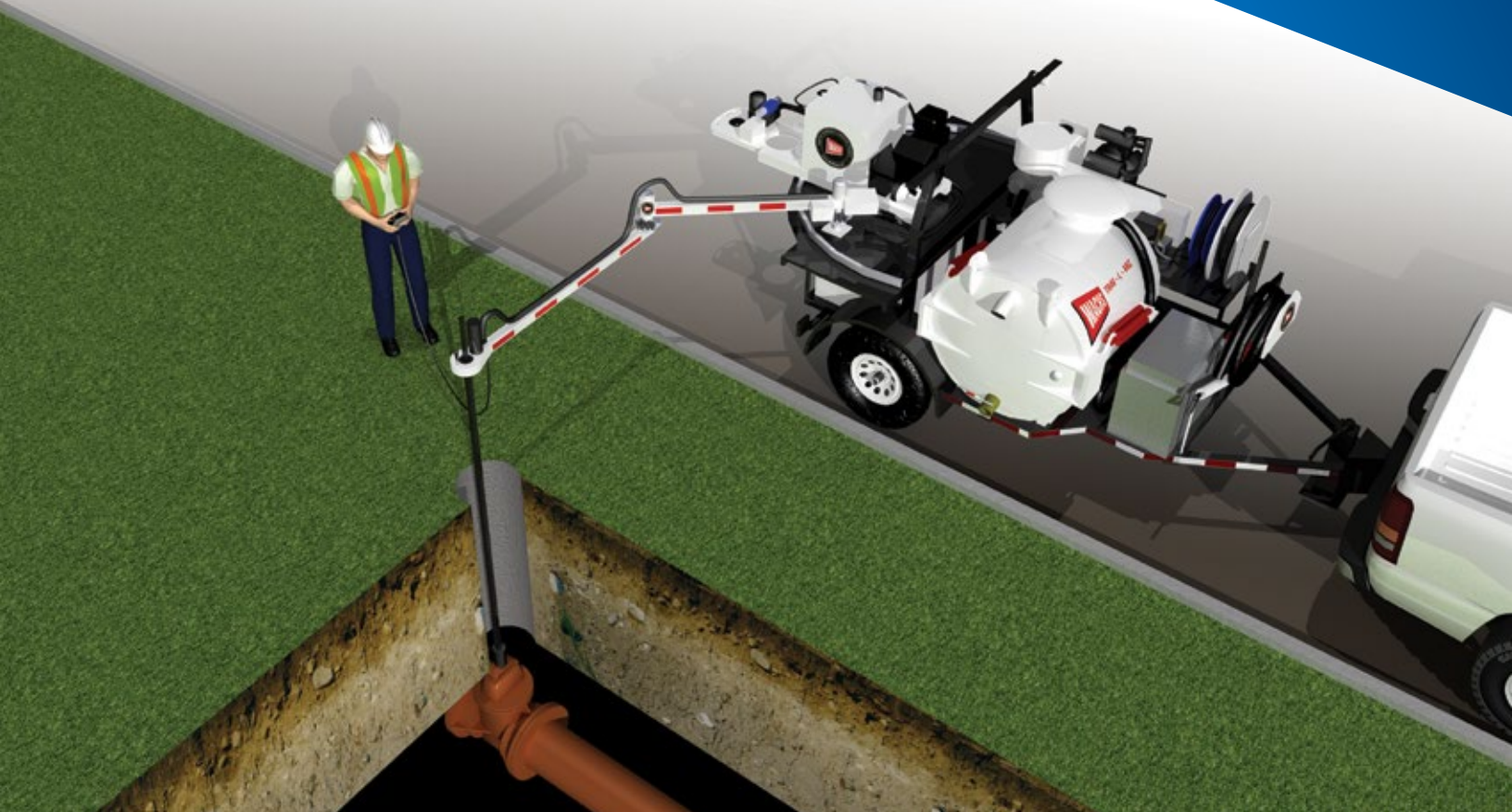
Truck Mounted Valve & Vacuum Components

Customize your utility truck system configuration with Wachs Components. Combine the versatility of the Utility Hydro Vac (diesel or gas engine) with the options of the TM-7 and ERV-750 valve exercisers. Design your utility equipment specifically to fit your custom valve maintenance system.

- Highly efficient.
- Easy to maintain.
- Completely dependable.

A list of standard features on the GRAND LX

- Hydraulic Power Unit for Powering Additional Tools
- Telescoping Valve Key
- Excavating and Wash Down Wands
- DOT approved lights
- Compliant with NATM (National Association of Trailer Manufacturers)
- Dexter torsion axle rated @7000 lbs GVWR
- Choice of ball or pintle hitch
- Bulldog super duty platform jack stand (extendable by hand crank)
- Painted steel road wheels and heavy duty tires



STANDARD LX™

Curbside Control, Powerful Flexibility

Power, features, flexibility and robust construction are what make E.H.Wachs the industry leader in valve maintenance systems. The new Wachs STANDARD LX™ features a large power tilting rear facing spoils tank and an aft-mounted ERV-750™ valve exerciser as standard equipment. Designed for curbside usage, it sets new standards for operator safety and convenience.



Single User Operation

The ERV-750 extended reach exerciser included with the STANDARD LX has a 13 foot (3.96 meters) reach, and a powerful and fully usable 750 ft-lbs of torque (1015 Nm). Self contained and requiring no power from the towing vehicle, it includes the HPU-750™ (Hydraulic Power Unit) to power the ERV and an included auxiliary tool circuit.

The Wachs ERV-750 is designed for remote operation where the user does not have to physically hold the machine down on the valve. Equipped with our industry exclusive Intelligent Automation and VITALS™ software, a single person, even an inexperienced one, can successfully implement your valve turning program.

Power & Convenience

The STANDARD LX features electro-hydraulic powered dumping, which moves the tank 12" (305mm) prior to tilting 60 degrees for dumping. This automatically positions the tank clear of the trailer for easy clean out through the 42" (1067mm) top hinged door opening. With the included pressure washer it adds the capability to perform light excavation and line location.



STANDARD LX™ Features:

- Safe Curbside Operation and Controls
- Powerful 27 HP Gasoline or Kubota 1.1L diesel engine NATM compliant
- Large 250 Gallon (946L) Spoils Tank
- Optional High Capacity 350 Gallon (1325L) Spoils Tank
- 3 Stage Filtration, Washable Filters
- Unique Spoils Electro-Hydraulic Dumping System
- Fully Welded Steel Box Section Frame

COMPACT LX™

Powerful, Portable, Affordable

The COMPACT LX™ trailer is the perfect platform for your ERV-750™ when no vacuum is needed, space is an issue and you prefer a light trailer to our truck mounted solutions. The complete trailer weighs less than 1400 lbs (635 kg), measures a compact 63” wide x 105” long overall (160 cm x 267 cm) and is easily pulled with light duty vehicles.



With its small footprint, the COMPACT LX is ideal for narrow city streets and tight alleys, for fragile or forested landscapes or anywhere a large and heavy trailer or truck won't fit.

Compact and Lightweight

E.H. Wachs COMPACT LX (Valve Maintenance Trailer) is designed to carry our powerful ERV-750 (Extended Reach Valve) valve exerciser. It's compact, lightweight and easily transportable by even the lightest vehicle. At only 63” wide (160 cm) and weighing only 1400 lbs (635 kg), the COMPACT LX will fit into some mighty “compact” areas. Conforming to AWWA valve exercising procedures is easy with our patented Intelligent Automation and HC-100 handheld controller.

Self Contained

Self contained and requiring no power from the tow vehicle, it includes our powerful HPU-750™ hydraulic power unit, which powers the ERV and its included auxiliary hydraulic tool circuit. Add an optional hose reel to conveniently connect additional hydraulic tools. Water options are available for cleaning and light evacuation of vaults, as are lightweight vacuum units.

Like our larger trailers, the Compact LX is solidly constructed with:

- Fully welded high strength steel box section frame
NATM compliant
- Dexter torsion axle rated @ 2000 lbs. GVWR
- Choice of ball or pintle hitch
- Swivel jack stand (extendable by hand crank)
- Painted steel road wheels and heavy duty tires
- Built in keyway storage



TRAV-L-VAC 300™

The Trav-L-Vac 300™ is a lightweight, portable vacuum system ideal for use with smaller vehicles, positioning in tight quarters or for use in high density or fragile landscapes. It allows system managers and contractors to do much of the work of large, heavy vacuums at a fraction of the cost.

Trav-L-Vac 300™

- Affordable and fully customizable
- Small footprint, easily transportable
- Lightweight, ideal for fragile landscapes
- Cleans out debris from valve boxes quickly and easily
- Cleans up sludge and industrial spills fast
- Powerful – vacuum water @ 100 GPM (378L/min)
- Lifts solids as heavy as 25 lbs (11.35 kg)

Easily Transportable

Designed for valve box cleanout and light to medium duty vacuum tasks, the Trav-L-Vac 300 will safely and quickly handle liquid debris and lift solids up to 25 lbs (11.35 kg). Compact at only 40" (102 cm) wide by 60" (152 cm) long and weighing only 950 lbs (431 kg), it's easily towed by even the smallest vehicle. The Trav-L-Vac 300 is an ideal complement to our COMPACT LX™ extended reach valve operator, offering the same advantages of affordability and portability.

Custom Built

As the leading manufacturer of valve exercisers and vacuum systems, Wachs will custom build a Trav-L-Vac 300 with exactly the options and equipment that best suits your needs. If you prefer, it's also available in a skid mount configuration for pickup truck use.



Most E.H. Wachs Water Utility Products can be truck or trailer mounted to best suit your needs.



HYDRO-VAC™

The UTILITY HYDRO-VAC™ is designed for the toughest jobs and to endure the harshest environments in hydro-excavation. This heavy-duty vacuum system is versatile in trailer or truck configuration. The UTILITY HYDRO-VAC™ is completely equipped with Spoils Tank, Fresh Water Tank, Suction Wands, Wash-Down Guns and a 20' suction hose.



Versatility

Valve Box/Vault Clean Out

Pot Holing

Line Locating

Additional Features

27 HP (20 kW) Kohler gas engine
Tier 4F Kubota 1.1L, I-3 4-stroke,
liquid cooled diesel engine

350 gallon spoils tank



“Wachs sales, training and service has been impeccable. Knowledgeable salespeople, great equipment and in-depth training are exactly what we were looking for.”

CHARLES CLINEMEYER
*District Superintendent,
Greenwood, SC CPW*

Standard Equipment

- Hydraulic Pump/Reservoir HTMA Class II
- Positive displacement blower 500 CFM (14.2 cmm)-11" (280mm)Hg vacuum
- 250 gallon (960 L) spoils tank
- Hydraulic slide and tilt dump system
- 2.5 gpm (9.5 LPM) @ 3000 PSI (210 bar) pressure washer system
- Fresh Water Tank
- Suction wands & wash down wands

Optional Equipment

- Hydraulic Hose Reel Kit
- Hot Water Heater
- Diamond Plate Job Box
- Deluxe Service Light Package

POW-R-DRIVE 2™

The Pow-R-Drive 2™ is the industry's leading handheld exerciser, and no wonder. Offered in pneumatic, hydraulic and our hugely popular electric drive, the Pow-R-Drive 2 is the ultimate handheld for increased productivity, operator safety and valve protection.



Wachs Pow-R-Drive 2™

- Lightweight Yet Powerful
- Ease of Set Up and Use
- Safe, Finger Tip Control
- One Man Setup and Operation
- Superior Ergonomics
- Data Collection
- New Higher Operating Speeds

Easy One Man Operation

A lightweight handheld tool, the Pow-R-Drive 2™ features finger tip control, and is designed to reduce operator fatigue by resting the weight of the machine on the valve key – not on the operator's arms. Now faster and more powerful than any other tool of its kind, the Pow-R-Drive 2 sets up in seconds and requires only one person to operate.

With our patented Intelligent Automation onboard, even an inexperienced operator can effectively and safely exercise the toughest valves without damage. The Pow-R-Drive 2 has user adjustable torque control limits, including indicators that signal when preset limits are reached. Wachs Intelligent Automation will automatically trigger auto reverse or auto shut down to prevent valve damage.

Light Yet Powerful

The Wachs Pow-R-Drive 2 features the ideal combination of light weight (35 lbs 16 kg), power and ease of use. It's perfect for hard to reach valves and fast shut downs, delivering controlled power to operate valves from 6" to 60" (DN150-1500). Contact your Wachs representative today for a free demonstration of this remarkable machine.



RS-2™

Rising and Non Rising Valve Exerciser

E.H. Wachs RS-2™ is a handheld exerciser designed to operate both rising and non rising stem valves (with the appropriate adaptors), delivering up to a powerful 800 ft-lbs (1085 Nm) of torque to exercise valves from 6" to 60" (DN150-1500). It's the most versatile and powerful machine of its kind.



New Higher Speeds

Available with our popular electric drive option, the RS-2 is also offered in pneumatic and hydraulic drive versions. All now run at higher speeds for increased productivity and faster, more reliable exercising and opening/closing of water, wastewater, pipeline and petro-chemical valves.

The Wachs RS-2 is available with our patented Intelligent Automation, with its user adjustable torque control limits including indicators that signal when preset limits are reached, and trigger auto reverse or auto shut down as needed to prevent valve damage.

The One to Own

If your system is equipped with both rising and non rising valves and you only want to own one handheld exerciser, the Wachs RS-2 is the one to own. Ask your Wachs representative for a free demonstration, try it for yourself and order one today.



Wachs RS-2™

- Versatile and Powerful
- Operates Rising and Non Rising Valves
- One Man Setup and Operation
- Universal Handwheel Adaptor
- Intelligent Automation
- Torque Accepting, Rugged Construction
- New Higher Operating Speeds



GUILLOTINE®

Reciprocating Saws

The E.H. Wachs family of portable Guillotine® reciprocating saws are reciprocating designs, built to efficiently cut 2" through 32" (DN50-800) pipe of all materials*, as well as solids such as bar stock and rails. Their compact design and ease of use provide fast, accurate cutting of pipe for contractors, water departments, gas companies and most industrial piping applications.



Available in four different size models:

- Super C, cuts 2" to 12" (DN50-300)
- Model D, cuts 6" to 18" (DN150-450) or up to 16" (DN400) on ductile pipe
- Super D, cuts 10" to 24" (DN250-600) or up to 22" (DN550) on ductile pipe

Quick and Easy Setup

Setup is quick and easy - the chain mounting system utilizes a machined cast iron "V"-saddle base that assures perfectly square cuts. Mounting horizontally or vertically, the Wachs guillotine saws require minimal clearance and combine light weight with simple, rugged construction for quick setup, low maintenance and a long service life.

Fast Cutting Action

All models feature finger tip feed control and a fast cutting action, with easily changed blades. The Wachs guillotine cutting action lifts the blade from the cut on the return stroke, dramatically extending blade life. Auto-clamp, auto-feed and remote control options are available for difficult or hazardous environments.

Diamond Wire **GUILLOTINE**[®]

Wachs Diamond Wire Guillotine[®] pipe saw is designed to safely cold cut Steel, Ductile and Cast Iron pipe from 4" to 16" O.D. (DN100-400).

Motion of cutting media is limited by mechanical devices enclosed in the stainless steel housing, protecting the operator and preventing any uncontrolled movement of the tool for operator safety.



Easy To Use

The light weight durable construction allows for quick and easy set up. Operation is easy with one person manual control. Choice of horizontal or vertical mounting. Connect directly to Wachs TM-7 or standard HPU.

Diamond Wire Guillotine[®] pipe saw package comes complete with Diamond Wire, Shipping/Storage Skid, Water Delivery System, Operating Hand Tools and Manual.



DW Guillotine

- Cuts from 4"-16" pipe (DN100-400)
- Lightweight and portable, weighs only 75 pounds (34kgs)
- Quick and easy setup, one man operation
- Does not bind like traditional saws



TRAV-L-CUTTER™

For over 60 years the E.H. Wachs Trav-L-Cutter™ has been recognized worldwide as the most versatile machine of its kind. The Trav-L-Cutter is a portable milling machine capable of simultaneously cold cutting and beveling on all machinable pipe materials, schedules and sizes from 6" up to 72" O.D. (DN150-1800).



The Trav-L-Cutter cuts and bevels simultaneously, and can be fitted to most diameter pipe and vessels.



Model HE Hydraulic



Model E Pneumatic

Wachs Trav-L-Cutter™ features:

- Safe, Effective Cold Cutting
- Cutting and Beveling in One Operation
- Compact Design, Easy Set-Up
- Horizontal and Vertical Cutting
- Pneumatic or Hydraulic Drive



Simple Operation, Rugged Construction

Secured by its own drive and tensioning chain, the Trav-L-Cutter drives itself around the pipe as it machines. Extremely versatile, by adding extra drive chain lengths the Trav-L-Cutter can tackle larger pipes and vessels, leaving a smooth, machined finish. Weld prep bevels of 30 and 37.5 degrees are standard, with other angles available by special request. Ruggedly built, the Trav-L-Cutter is used in every corner of the world.

Out of Round Compensation

The Trav-L-Cutter chain feed system maintains continuous out of round compensation, while providing positive drive under all conditions. By using an optional guide track and special guide track wheels, accuracy of .005" (0.13mm) can be maintained on all pipe sizes, even in zero visibility conditions. This cutting method facilitates section removal in the field where new sections, pre-cut by the same method, can be easily dropped in place.

Submersible PUMPS



Wachs submersible pumps are lightweight, compact designs built to dewater quickly and efficiently. Featuring reliable and waterproof direct drive hydraulic motors, they can safely be run dry. Available in a compact dewatering pump, and a heavy duty trash pump capable of discharging solids up to 3" (76mm).

Submersible Pump

Model WDP3500 500 GPM (1890 L/min) Hydraulic Pump

A lightweight, compact dewatering pump capable of discharging water quickly and quietly. It features a direct drive hydraulic motor designed for continuous use and can be run dry without damage.



Submersible Pump

MODEL WDP3500

- Compact, light yet powerful
- Hydraulic direct drive motor
- Discharge 500 gpm (1890 L/min) water at a 40 foot head (1220 cm water column)
- A perfect complement to all Wachs utility equipment
- Designed for continuous high speed operation

Submersible Trash Pump

MODEL WTP4800

- Quiet running, powerful free flow impeller resists clogging
- Hydraulic direct drive motor
- Discharge 800 gpm (3028 L/min) water at a 14 foot head (425 cm water column)
- Pumps up to 3 inch (76mm) diameter solids

“Wachs has everything we need to maintain our system, and they trained us how to use their machines. Our Wachs representative was very knowledgeable, and stayed involved with us after the sale. We were up and running right from day one.”

DAN SVESKA

Underground Utilities Foreman, Village of Rolling Meadows, IL Public Works

Submersible Trash Pump

Model WTP4800 800 GPM (3028 L/min) Hydraulic Pump

A heavy duty, compact trash pump capable of discharging sand, gravel, sludge and solids up to 3 inches (76mm) in diameter. It features a “free flow” impeller with a direct drive hydraulic motor designed for continuous use, and can be run dry without damage.

Compact dimensions fit into tight spaces: only 16.5" (419mm) high with a 19" (483mm) diameter.



HPU

Hydraulic Power Units

Hydraulics pack more power in less space than any other source. Completely sealed, hydraulic power is perfect for muddy, dusty, offshore and other challenging or dangerous environments.

Model HPU-750 15 HP gasoline engine, hydraulic skid mounted power unit with electric start, heavy duty oil cooler and auxiliary circuit, used for powering the ERV-750™, rated for 8 GPM @ 1800 PSI (30 LPM @ 124 BAR).

Model HCM-1G 9 HP gasoline engine, hydraulic cart mounted power unit, with electric start and oil cooler for ease of use and long engine life. Rated for 8 GPM @ 1500 PSI (30 LPM @ 103 BAR)

Model HCM-2G 11 HP gasoline engine, hydraulic cart mounted power unit, with electric start and oil cooler, rated for 10 GPM @ 1500 PSI (38 LPM @ 103 BAR).

Model HCM-3G 18 HP gasoline engine, hydraulic cart mounted power unit, with electric start and oil cooler, rated for 14 GPM @ 1500 PSI (53 LPM @ 103 BAR)



E.H. Wachs offers standard gas, diesel and electric units that can be cart, trailer or skid mounted, plus special units built to unique customer requirements.



TURN-N-COUNT™

Turn-N-Count™ is a versatile, lightweight ratcheting “T” wrench designed to quickly and safely turn utility valves and fire hydrants of all types and sizes.

Similar to a conventional “T” handle in appearance only, the Turn-N-Count integrates a ratcheting mechanism and digital counter into its ergonomic design.

The ratchet scientifically reduces back strain by reducing the range of motion necessary to operate the tool, and the telescoping key minimizes bending. The operator can easily reverse rotation with a quick turn of the directional lever.

In this brochure all dimensions shown for pipe diameters are US nominal diameters in inches, plus metric nominal diameters (DN) in parenthesis. Tubing and solid diameters shown are actual US inches plus metric millimeter equivalents.



Count on Wachs Turn-N-Count for:

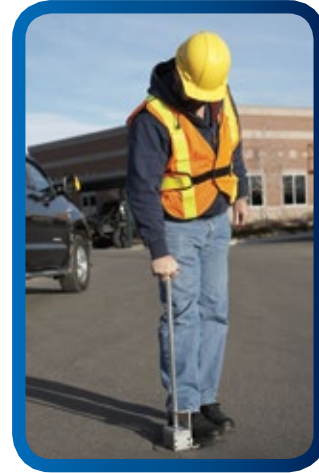
- Easy One Person Operation
- Reduced Risk of Back Injury
- Easily Access to Hard to Reach Valves
- Lightweight Telescoping Key Convenience

VALVE BOX BUDDY

Pick up cast iron utility and valve box covers ergonomically and without having to bend over.

Reduce finger and toe injuries. Instantly attaches to and removes valve box covers up to 60 lbs utilizing a 70mm switchable magnet. Locking on/off handle makes removing covers quick and easy.

- Light-weight magnetic lifter for easy removal of cast iron utility & valve box covers
- Strong magnetic field penetrates textured surfaces
- Allows the operator to ergonomically lift and move covers
- Easy to use on/off locking handle for safety
- Rated for small cast iron covers up to 60 lbs
- Light weight under 11 pounds



THE VALVEID™

Identify Your Municipal Valves




Introducing the ValveID™, an innovative and cost effective product to identify your municipal valves. Whether the need is to identify and delineate valves based on size, function, pressure boundaries, or direction of closure, the ValveID™ is your answer. Engineered and constructed to fit and adhere to various sizes of valves boxes, the ValveID™ is designed to work in your system providing the ultimate solution for in-field valve identification.



- Ensure valve direction, reduce errors
- One size fits all
- Custom colors
- Suitable for water, wastewater & gas valves





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