Valve Exercising

Hurco Technologies has what you need in rugged, dependable exercising solutions. The Spin Doctor® offers a safe and easy solution to keep your valve and hydrant inventory in perfect condition. Quick set up means more valves and hydrants per day. Finger tip control means little or no risk of operator fatigue or injury. Spin Doctor® boasts the industry’s greatest range of motion; no one comes close. Rugged construction means years of service and only Hurco offers a Lifetime Warranty against boom damage caused by torque.

Data Collection

Hurco’s Valve Star® offers more integrated capabilities than any other valve exerciser available. Valve Star® automatically gives GPS position on all valves and hydrants and is compatible with most mapping systems. Valve Star® also collects critical information on your valve and hydrant operations as well as fire flow capabilities that are unmatched by any competitor. Extensive reporting capabilities and work order imports will make your job easier, faster and more accurate.
Maintenance and Repair

Now you can clean and repair valve boxes in minutes rather than hours. Quick and powerful, the Valve & Vac™ system will make cleaning a valve box a snap! Eliminate the need to bring in outside repair crews to fix broken valve boxes. When combined with hydraulic power tools, you can cut pavement, excavate, repair, compact back fill and patch pavement in just one hour!

Problem Valve

Improve your chances of repairing those tough, hard to move valves with a high torque impact wrench and Hurco’s Slick Stick™! Applying straight line torque to a valve stem can damage or destroy the valve when the valve manufacturer’s torque specifications are exceeded. The Slick Stick™ with special penetrating oil will usually do the trick, but when excessive torque is necessary, a high torque impact wrench will improve your chance of success.

“When we order a machine we really work it hard. When we have something that lasts as long as the Spin Doctor has, we know we really got our money’s worth.”

Paul Durham
Water One
Lenexa, KS
Spin Doctor® Valve and Hydrant Exercising System

Safely exercise more valves per day.

With the Spin Doctor, if you’re close to the valve, your close enough. The Spin Doctor’s unmatched range of motion can reach multiple valves in close proximity or reach a valve or hydrant behind the curb. There is no need for critical alignment of your utility vehicle to reach a valve. With the Spin Doctor you will do more valves per day!

No more back injuries caused from handheld mechanical valve exercisers or hand operated wrenches. The Spin Doctor will help reduce injuries leading to workers compensation claims and will increase worker productivity.

“With the Spin Doctor you’ve got about a 13-foot reach. Some intersections will have 2 or 3 valves and you can actually reach them from one spot. It saves us a lot of time because you don’t have to position your truck perfectly to get to the valve. It’s a pretty neat unit because everything you need is right there on the same trailer-mounted unit. You just hook up to it with a small pickup and move it around and it does everything you need it to do.”

RON KEY
City of Grand Junction Water Dept.
Grand Junction, CO

Avoid Valve Breakage

Feather Touch Torque Control™ means less chance of damaging a valve. Torque is applied in gentle increments by the operator, eliminating slamming of the valve. Used with Hurco’s Slick Stick™ and a patented application wand, you can greatly reduce the chance of ever breaking a valve. Application of excessive force, greater than specified by the valve manufacturer, will most assuredly damage the valve.

Learn more at: 1-800-888-1436

Patents Pending
University Tested Strong
The Spin Doctor® boom was engineered to be light weight but very strong. The unique steel design of the Spin Doctor® boom was tested at over 2000 ft-lbs of torque and showed no signs of failure. The Spin Doctor® boom is strong enough to handle the toughest valves and backed by a limited Lifetime Warranty.

Range of Motion
Exercise up to 60% more valves per day. Reach valves and hydrants behind curbs, in boulevards and multiple valves in close proximity without repositioning the vehicle. No other competitor’s exercisers come close to the Spin Doctor’s range of motion.

Ease of Use
Spin Doctor® is fingertip light and easy to position over the valve or hydrant. The Spin Doctor® defies gravity with its unique gas spring design.

Safety
With its unique combination of strength and flexibility, the Spin Doctor® is designed to reduce injury by absorbing torque when turning the valve or hydrant. This feature also acts as a shock absorber to help reduce damage that can occur due to slamming of the valve or hydrant by rigidly mounted exercisers.

User Friendly Controls and Gauges
The Spin Doctor® utilizes an easy to read pressure gauge that reads in ft-lbs of torque. There is no need for a reference chart to convert pressure to torque. Other unique features include a digital counter with a quick reset button, easy torque control knob and easy reach control lever.
Valve Star® Data Collection and Management System

Saves time and labor for data input and retrieval by logging valve and hydrant exercising information.

Valve Star® has unparalleled data logging and operation capabilities. You can import work orders, accurately operate valves and hydrants, capture GPS, and create numerous reports.

The Valve Star® is the only computerized valve exerciser with fire flow capabilities. This critical task is recommended by the National Fire Protection Association and gives your fire fighters the confidence that they have an adequate supply of water to fight a fire. Combined with the Hose Monster® UL and FM approved flow measuring diffusers, the Valve Star® gives you the most accurate fire flow and water usage reports.

“If you’re looking to just exercise valves, that’s one thing. If you’re looking at a machine that’s going to allow you to record the data, download it to your data base and help you schedule your maintenance, then the Valve Star equipped Spin Doctor is the machine, absolutely.”

ROBERT GARDNER
Wannacomet Water Company
Nantucket, MA

GPS equipped for recording accurate location information.
Valve Star® saves time and labor for data input and retrieval by capturing critical valve and hydrant exercising activities. Data is recorded and easily transferred to your office computer or laptop via a standard SD Card. This data can be imported into commonly used spreadsheets like Excel, Access based software programs and most mapping applications.

Valve Star® data integrates with Valve Star® Track One™ software to give you informative and analytical reports. Graphs and historical data will help you analyze your distribution system and assure your customers of a safe and reliable water supply.

With Valve Star® Track One™ software, you can create a list of valves for a work order and send it to the Valve Star® with a standard SD Card. This eliminates errors in the field and automatically sets the Valve Star® for your valve and hydrant activities.
Clean and repair valve boxes in minutes rather than hours.

Have you ever opened a valve box only to find it full of dirt? Or, the valve box has been damaged or knocked off alignment? These problems occur all too often and can delay your valve exercising activities.

The Valve & Vac™ system will quickly clean valve boxes making access to the valve a snap! No more calling in the sewer cleaning crew with their $250 - 300K vacuum trucks. The Valve & Vac™ is only a fraction of the cost of these giants, yet it has all the power needed to get the job done.

Misaligned or damaged valve boxes can be quickly repaired with the Valve & Vac™ system. There is no need to bring in a backhoe to do the repair and risk hitting buried utilities and disrupting traffic.

“With the Spin Doctor Valve & Vac, we’re able to stay on top of routine maintenance and valve exercising. When we come across a valve box that is full of debris, we have the vacuum unit there to quickly clean it. This allows us to quickly exercise the valve and move on to the next.”

STEVE HOWELL
Operations Director,
Roxborough Water & Sanitation District
Littleton, CO
HURCO’s Method for Repairing or Straightening Valve Boxes

1) Vacuum water and debris from valve box.

2) Utilize a jackhammer or concrete saw to remove blacktop or concrete around the valve box.

3) The Valve & Vac™ high pressure emulsifying wand sends out a swirling stream of water at 3,000 p.s.i. that easily emulsifies surrounding soil and can be quickly removed with the Valve & Vac’s powerful vacuum.

4) After the valve box is repaired, use a power tamper to re-compact the excavation and blacktop.

Debris in Valve Box?
The Valve & Vac™ has powerful suction and high pressure water that will clean valve boxes in seconds. No waiting for an expensive sewer cleaning vacuum.

The Valve & Vac™ 150 is our most popular valve maintenance system.

The Valve & Vac™, combined with hydraulic tools, make dealing with damaged or misaligned valve boxes quick and easy. This function alone makes the Valve & Vac™ worth the investment, but Valve & Vac™ has much more to offer. You can clean meter pits, dig post holes for street signage, clean debris pits in your service garage and much more. Valve & Vac™ will help reduce the risk of damaging costly underground utilities.

The Valve & Vac™ is available in 150, 250 and 530 models and utilizes a powerful positive displacement high performance blower. Other standard features include high pressure water, emulsifying wand, cleaning wand, auto-re-coil hose reel, anti-freeze tank, Hose Monster™ flow measuring water diffuser and much more. Available with gas or diesel engines.

Start to finish - in approximately one hour!

Hurco’s Valve and Vac can be configured for hydraulic power tools.
Hurco® utilizes a patented wand that releases a precise amount of a special penetrating fluid with trace amounts of silicone. This special fluid helps loosen corrosion around the valve stem at the valve body. The penetrating fluid evaporates, leaving the silicone to help keep the valve stem lubricated between exercise intervals.

Valve manufacturers do not allow operating their valves above their rated torque specifications; it can be dangerous and almost certainly damage the valve. We know from experience that cities will try just about anything to break a stuck valve loose including application of excessive torque. If this is the city’s choice, then a simple three step approach, including the use of a special penetrating fluid and impact wrench, will increase their chance of success.

“We had a 12” valve that wouldn’t budge. In a remote area along a landscaped bike trail, this was going to be a very expensive valve replacement. Thanks to Hurco’s system of using their Slick Stick to lubricate the valve stem and working the valve with the Spin Doctor, we were able to bring that valve back to new operating condition saving thousands of dollars.”

RAY GAUTHIER
Operations Manager
Rancho Sahuarita Water Company
1) Once you have identified the problem valve, use the Slick Stick™ to lubricate the valve stem.

2) Let the valve sit for a few minutes, then try again to loosen the valve with the Spin Doctor®. If you reach the valve manufacturer's maximum torque specification, stop immediately.

3) If you choose to apply excessive torque to break the valve loose, use a high torque impact wrench. You can apply as much as 3,500 ft-lbs of torque, depending on the impact wrench used. Impact torque applies short bursts of impact to break the valve loose, increasing your chance of success over the use of straight line torque.
Spin Doctor® Configurations

The Spin Doctor® can be mounted on any portable unit or truck. A popular configuration is the Spin Doctor® trailer mounted system. This system can be configured to meet your specifications and can be towed at highway speeds.

Shown with Hose Monster™ flow diffuser

Shown with boom parked for towing or storage

Rear hitch receiver mount

Front hitch receiver mount

For more on these products go to: GetHURCO.com

HURCO TECHNOLOGIES, INC.

1-800-888-1436

Patents Pending