

<b>QUOTATION NO 500HP14S</b>
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This quotation list all of the equipment required by the U.S. Department of Transportation and Transport Canada to properly re qualify cylinders used to transport hazardous materials (pressurized gas).

This equipment will allow you to re qualify "portable size" cylinders to 36" tall. Options are listed at the end of the quotation that will offer faster, easier and more accurate cylinder testing.

***Please see last page for important Training-Licensing and Leasing Information***

Part No.	Description	Price
<a href="#">500-HP-14S-M</a>	<p><b>Hydrostatic Water Jacket Cylinder Test Station</b></p> <ul style="list-style-type: none"> <li>• Manually Operated</li> <li>• Test Range of 2000 – 10,000 psi</li> <li>• Exceeds U.S. D.O.T. Requirements for Accuracy &amp; Readability</li> </ul> <p><b><u>Includes:</u></b></p> <p>⇒ <b>Air Operated Pressure Test Pump</b></p> <ul style="list-style-type: none"> <li>✓ Stainless Steel Water Section</li> <li>✓ Soft Seated Check Valves</li> <li>✓ Contaminant Free Design (for testing of O<sub>2</sub> cylinders)</li> </ul> <p>⇒ <b>14" Dia x 40" Tall Water Jacket ( Test Chamber )</b></p> <ul style="list-style-type: none"> <li>✓ Accepts Cyls. Up To 12"Dia x 36" Tall</li> <li>✓ High &amp; Low Pressure Air Bleed Valves</li> <li>✓ Quick Acting Manual Cam Clamps Lid Closure</li> <li>✓ Floor Mounted Drain Pan – <b>No Pit Required</b></li> </ul> <p>⇒ <b>Calibrated Pressure Gauge</b></p> <ul style="list-style-type: none"> <li>✓ 11,000 psi x 20 psi Increments</li> <li>✓ Class 3A, 1/4% Full Range Accuracy</li> <li>✓ 8.5" Diameter</li> </ul> <p>⇒ <b>Calibrated Cylinder for Full Test Range</b></p> <p>⇒ <b>Four - Manifolder, Valved Burette Tubes</b></p> <ul style="list-style-type: none"> <li>✓ 0-25cc, 0-50cc, 0-125cc, 0-360cc</li> <li>✓ Zero Reference Point Marker</li> </ul> <p>⇒ <b>Training Seminar at our Facility</b></p> <ul style="list-style-type: none"> <li>✓ Receive D.O.T. required training for up to 4 of your employees</li> <li>✓ Valid for up to 90 days after purchase of test system</li> </ul> <p>⇒ <b>Enamel Painted Steel Cabinet</b></p> <p>⇒ <b>Set of 7 Test Adapters</b></p> <p>⇒ <b>Video and Written Instructional Manuals</b></p> <p>⇒ <b>Calibration Certificates</b></p>	\$ 9995.00
<a href="#">510-010</a>	<p><b>Pneumatic Operated Vise Station</b></p> <ul style="list-style-type: none"> <li>✓ Air Operated ( 60 psi )</li> <li>✓ Rubber Belted to Protect Cyls.</li> <li>✓ Accepts Cyls. to 14" Diameter</li> <li>✓ Adjustable / Removable Shelf Plate</li> <li>✓ 24" Square Steel Base Plate</li> </ul>	1475.00
<a href="#">530-020</a>	<p><b>Cylinder Hot Air Dryer - Designed for Cylinders <u>Under 36" Tall</u></b></p> <ul style="list-style-type: none"> <li>✓ Heavy Duty Design</li> <li>✓ 115VAC Electrical</li> <li>✓ Six Cylinder Capacity</li> <li>✓ Stainless Steel Heating Element</li> </ul>	1600.00
<a href="#">540-003</a>	<p><b>Inversion Rack</b></p> <ul style="list-style-type: none"> <li>✓ Designed for Inversion of Portable Size Cyls. to Expel Test Water</li> <li>✓ Adjustable for Cylinders 24" to 32" Tall</li> <li>✓ Adjustable Safety Strap</li> <li>✓ Steel Construction</li> </ul>	590.00



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<a href="#">230-206</a>	<b>Internal Cylinder Cleaning Whip</b> <ul style="list-style-type: none"> <li>✓ Removes loose rust and oxide coating</li> <li>✓ Designed for cyls up to 36" Tall</li> <li>✓ Fits onto 3/8" drill</li> <li>✓ Stainless steel wire</li> </ul>	88.00
<a href="#">230-033</a>	<b>1000 lb. Capacity Electric Hoist</b> <ul style="list-style-type: none"> <li>✓ 115VAC – ½ HP</li> <li>✓ 16 ft. / minute Lift Speed</li> <li>✓ Push Button Control</li> </ul>	1995.00
<a href="#">230-037</a>	<b>Chain Bucket for Hoist</b>	96.00
<a href="#">230-040</a>	<b>Trolley for Hoist</b>	225.00
<a href="#">240-140</a>	<b>Adjustable Valve Removal Wrench</b> <ul style="list-style-type: none"> <li>✓ Fits Valves with 2 Flat Sides</li> <li>✓ Designed for Industrial Gas Valves</li> <li>✓ Manufactured of Hardened Machined Steel</li> </ul>	89.95
<a href="#">240-143</a>	<b>Wrench for Medical Post Valves</b> <ul style="list-style-type: none"> <li>✓ Replaceable Durable Delrin Insert – Protects Valve Finish</li> <li>✓ ½" Opening for Torque Wrench</li> <li>✓ Fast and Easy Fitting</li> </ul>	240.00
<a href="#">240-145</a>	<b>Wrench for SCBA Air Pak Valves</b> <ul style="list-style-type: none"> <li>✓ Machined to Fit Snug Over Valve</li> <li>✓ 3/4" Male Hex on Top - Allows Use of 3/4" Socket</li> <li>✓ Fast and Easy to Use</li> <li>✓ Use With Torque Wrench to Tighten To Manufacturers Specs.</li> </ul>	85.00
<a href="#">230-064</a>	<b>5/16" Characters, 0-9 Stamp Set (1/2" shank)</b> <ul style="list-style-type: none"> <li>✓ Best Grade for Marking of Steel and Aluminum Cylinders</li> </ul>	55.00
<a href="#">230-063</a>	<b>1/4", Characters, 0-9 Stamp Set ( Low Stress ) (1/2" shank)</b> <ul style="list-style-type: none"> <li>✓ For Marking of Specification 3HT Cylinders</li> </ul>	60.00
<a href="#">230-136</a>	<b>Pneumatic Stamping Gun</b> <ul style="list-style-type: none"> <li>✓ Accepts ½" Shank Size Stamps</li> <li>✓ Air Operated on 40 psi</li> <li>✓ Saves the Life of Your Stamps</li> <li>✓ Easy – Fast and Safe</li> <li>✓ Operates Similar to an Air Chisel</li> </ul>	259.00
<a href="#">69-099</a>	<b>Internal Cylinder Inspection Light (white light &amp; ultraviolet)</b> <ul style="list-style-type: none"> <li>✓ Long life LED for complete illumination of cyls.</li> <li>✓ 13.5" Length of wand</li> <li>✓ Warm white LEDs best simulate incandescent light</li> <li>✓ Ultra-violet light source meets CGA G-4.1 for O<sub>2</sub> cyl. inspection</li> <li>✓ Low voltage for use in hazardous locations</li> </ul>	275.00
<a href="#">69-058</a>	<b>Inspection Mirror for Cylinder Threads ( 3/8" diameter)</b>	17.00
<a href="#">69-075</a>	<b>Optical Plus Thread Magnifier ( for cylinder thread inspection )</b> <ul style="list-style-type: none"> <li>✓ Battery Operated</li> <li>✓ Rugged, anodized, aluminum construction.</li> <li>✓ Adjustable focusing for clearer and brighter viewing.</li> <li>✓ Adjustable light intensity for differing surface reflectivity.</li> <li>✓ 4X magnification for the closest thread view possible.</li> <li>✓ Single unit capable of inspecting: SCUBA, Medical, SCBA, AFV, Industrial Specialty Gas and CO<sub>2</sub>.</li> </ul>	410.00
<a href="#">69-050</a>	<b>Combination Dial Caliper &amp; Pit Gauge</b> <ul style="list-style-type: none"> <li>✓ 2 tools in one</li> <li>✓ Allows measuring of pits/gouges as required by CGA C-6 pamphlet</li> <li>✓ Allows measuring of valves and test adapters</li> <li>✓ Steel construction</li> <li>✓ Easy to read dial gauge</li> </ul>	49.50



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<a href="#">240-150</a>	<b>Breaker Bar</b> Tool designed for inserting and removing tapered thread test adapters and socket type valves safely – easily and efficiently <ul style="list-style-type: none"> <li>✓ 18" Total length</li> <li>✓ ½" drive head swivels 180°</li> <li>✓ 376 ft-lbs maximum torque</li> <li>✓ 3-way ratcheting action: Right or Left handed thread, or lock</li> </ul>	45.00
<a href="#">240-160</a>	<b>1 ½" Impact Socket x ½" Drive</b> <i>For use with #240-150 Breaker Bar</i>	20.00
<a href="#">393-001</a>	<b>Test Record Forms</b> (50 sheets/pad)	12.00
<a href="#">393-018</a>	<b>Test Label for Composite Wrapped SCBA Cylinders</b> (50 labels / Roll)	15.00
<a href="#">393-020</a>	<b>Epoxy Kit for SCBA Test Labels</b>	13.95
<a href="#">500-RBLD</a>	<b>Spare Parts Kit of Typical Consumable Items</b> ( O-rings, seals, valves, couplers ... )	650.00
<a href="#">393-290</a>	<b>C.G.A. Pamphlets</b> <ul style="list-style-type: none"> <li>✓ Set of 7</li> <li>✓ C-1, C-5, C-6, C-6.1, C-6.2, C-6.3, C-8</li> <li>✓ Required if Licensed by US D.O.T. or Transport Canada</li> </ul>	755.00
<a href="#">393-185</a>	<b>DOT Title 49 Parts 100-185 Code of Federal Regulations Book</b> <ul style="list-style-type: none"> <li>✓ Required if licensed by US D.O.T.</li> </ul>	60.00

**Total: \$19,175.40**

<b><i>Test System Pressure Range Options</i></b>	<b>Price:</b>
<b>Low Pressure Test Capabilities Allows for adding testing in a range of 200-1400 psi</b> <i>Includes:</i> <ul style="list-style-type: none"> <li>✓ Additional pressure gauge, 0-1500 psi x 2psi increments</li> <li>✓ Isolation valve mounted on cabinet</li> <li>✓ Additional verification points on calibrated cylinder</li> <li>✓ Tubing – valves and fittings installed on cabinet</li> </ul>	\$1100.00
<b>Downgrade Useable Maximum Test Pressure from 10,000 psi to 8000 psi</b> <ul style="list-style-type: none"> <li>• Allowable test range of 2000 – 8000 psi</li> <li>• Allows testing of 4500 psi SCBA cylinders</li> <li>• Includes carbon fiber reconditioned calibrated cylinder</li> </ul>	<b>Deduct</b> <\$ 900.00>
<b>Downgrade Useable Maximum Test Pressure from 10,000 psi to 5500 psi</b> <ul style="list-style-type: none"> <li>• Allowable test range of 2000 – 5500 psi</li> <li>• Allows testing of 3500 psi SCUBA cylinders</li> <li>• Includes aluminum calibrated cylinder</li> </ul>	<b>Deduct</b> <\$ 1300.00>

**Utilities Required to Operate Equipment:** ([click here for floor plan](#))

- Stable and consistent air and water temperatures
- 8CFM of 100 psi pre regulated shop air (3 drops)
- Inlet water supply
- 12' Ceiling height
- Overhead I-Beam for hoist and trolley
- 115V-20amp electrical (4 drops)



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<b>OPTIONS:</b>		<b>Add:</b>
<a href="#">500-014</a>	<b>Digital Readout Scale of Expansions</b> (with burette tubes as backup) <ul style="list-style-type: none"> <li>✓ Allows for easier – faster reading of cylinder expansions</li> <li>✓ Digital scale with 330g net expansion capacity</li> <li>✓ Readable accuracy to .1g</li> <li>✓ Steel platform attaches to side of test cabinet</li> <li>✓ 115V electrical with battery backup</li> </ul>	\$ 895.00
<a href="#">393-507</a>	<b>Record Keeping Software</b> <ul style="list-style-type: none"> <li>✓ Takes the place of hand written test record forms</li> <li>✓ Easy to enter data screen</li> <li>✓ Allows for set up of popular user defined cylinder templates</li> <li>✓ Generates all math calculations (elastic expansion &amp; % permanent)</li> <li>✓ Calibrated cylinder recording – History sort / print report screen</li> <li>✓ DOT warning setting – warns if cal. Cylinder is not run properly</li> <li>✓ Supplied on USB drive</li> <li>✓ Requires Windows 7.0 or newer operating system</li> </ul>	\$ 295.00
<a href="#">500-199</a>	<b>Pneumatic Lid Closures on Water Jacket in Place of Manual Closures</b> <ul style="list-style-type: none"> <li>✓ Fast – easy to operate air powered clamps</li> <li>✓ On / off control valve panel - Operates on 100 psi of shop air</li> <li>✓ Generates a more positive seal than manual clamps</li> </ul>	\$ 2200.00
<a href="#">500-889</a>	<b>Multi Cylinder Lid Assembly</b> A Tremendous Time Saver and Productivity Enhancer. Is a Great Way to Enhance Your Hydro-Test Profitability. Designed for Those Companies Testing A Quantity Of Similar Size Cylinders. <b>Features:</b> <ul style="list-style-type: none"> <li>✓ 14" Lid with three outside spuds to accept 3 cylinders to 4.25" dia.</li> <li>✓ Also has one open middle spud for testing 1 cylinder to 12" diameter</li> <li>✓ Cylinders are tested individually</li> <li>✓ Allows loading / un-loading of 3 cylinders at one time</li> <li>✓ Eliminates 2/3rds of time-consuming loading / un-loading procedure</li> <li>✓ Includes quick disconnect couplers &amp; high/low-pressure bleed valves</li> <li>✓ For use with Hydro-Test Products brand 14" diameter water jacket</li> </ul>	\$ 1600.00
<a href="#">393-450</a>	<b>On Site Assistance</b> with Set up and Operational Training <u>Includes:</u> <ul style="list-style-type: none"> <li>✓ Hydro-Test technician onsite for 1 day at your location</li> <li>✓ Verification of proper setup of equipment</li> <li>✓ Operational training on running daily verification</li> <li>✓ Operational training on testing cylinders</li> <li>✓ Trouble shooting of potential problems</li> <li>✓ Review of proper record keeping</li> <li>✓ If required DOT Hazmat training is needed an additional day is required and additional charge will apply</li> </ul> <b>Prior to Hydro-Tests technician arrival the following must be prepared;</b> <ul style="list-style-type: none"> <li>✓ Utilities as described in quotation in place and operational</li> <li>✓ Two hookups from test console to water jacket in place</li> <li>✓ Water jacket in pit (if required)</li> <li>✓ Water jacket and calibrated cylinder filled with water 48 hours prior to technician's arrival.</li> <li>✓ Please allow a minimum of 30 day advance notice to schedule on-site training</li> </ul>	Typically \$3000 - \$4500 depending upon location in the USA  Foreign locations will be at a significantly higher cost  <a href="#">Contact us</a> for pricing based on training location



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- Terms:** **Discount is available** with prepayment terms (please [contact](#) our sales office for details)
- F.O.B:** [Stow, Massachusetts, USA](#), all freight cost are the responsibility of the purchaser. We will be pleased to offer delivered pricing upon request.
- Delivery:** Typically ship in 5 weeks
- Valid:** For 60 days
- Warranty:** All Hydro-Test Products manufactured equipment is warranted for a period of 12 months under normal usage, commencing after receipt of order. For items not manufactured by Hydro-Test Products the original manufacturer's warranty shall be in effect. Consumable items such as O-rings, Seals, Valves, etc... are warranted for 30 days under normal usage. All warrantee work is provided F.O.B. Stow, Massachusetts, USA.
- Packaging:** Best commercial packaging is included in the pricing. If export crating or other specialized or unique packaging is required an additional charge may apply.

Thank you for the opportunity to offer this quotation. To see pictures on the above products, please click on the **part no's** and you will be redirected to those items.

You can download our complete [catalog at this link](#)

Best regards,

*Jon Gorman*

[Jon Gorman](#)

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*Please see next page for important Training-Licensing and Leasing Information >>>*



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### **Important Informational Links:**

- 1) Please [click here for a list of Independent Inspection Agencies](#) (IIA) for the U.S. Department of Transportation. To requalify cylinders in the USA, or operate outside of the USA and be DOT certified, an inspection of your facility is required after equipment is installed & operational and training has been completed.
- 2) Please [click here for information regarding the training and licensing requirements](#) for Transport Canada (TC). To requalify cylinders in Canada, or operate outside of Canada and be TC certified, an inspection of your facility is required after equipment is installed & operational and training has been completed.
- 3) [Browse all of our training opportunities](#). We offer operational and DOT required hazmat for cylinder re-qualifiers in various ways. Here is a [Training Development Guide](#) to help determine the best training option for your company and employees.
- 4) Leasing of our equipment is available through [www.hcefunding.com](http://www.hcefunding.com). Use this [Leasing Calculator](#) to calculate what your monthly cost will be when leasing through Health Care Equipment Funding (HCE). *Due to special arrangements made between Hydro-Test and HCE Funding, when you lease through them, you will receive a prepayment discount.*

### **Frequently Asked Questions:**

**(Q) Is the equipment difficult to operate?**

**(A)** The test system has been designed for easy operation. Test procedure can be mastered in ½ day

**(Q) Do I need to travel to Hydro-Test's facility in Massachusetts to receive training?**

**(A)** As an option we have provided an estimated quotation for on-site training at your facility. Hydro-Test has technicians that travel extensively around the world installing and providing training on our equipment. The training provided at Hydro-Test in Stow, Massachusetts is included in the price of the test system. Training at your facility is shown as an option and includes travel – hotel and onsite cost.

**(Q) Can I Upgrade My Test Station in 5 Years?**

**(A)** Yes, and it is a very good reason to purchase your cylinder testing equipment from Hydro-Test. We understand that what you are testing today may not be what you want to test in 5 years. Hydro-Test offers larger test jackets – ability to switch from burette tubes to digital readouts – replace manual lid closures with pneumatics ... without reinvesting \$1000's of dollars in duplicate equipment.

**(Q) How Many Cylinders Can I Test in 1 Day?**

**(A)** This is a difficult question to answer as much depends on the operator, type(s) of cylinders, number of operators and more. Typically 1 operator testing portable size cylinders (i.e. 20Lb CO2, SCUBA, SCBA ) should be able to test 6 – 8 cylinders per hour (48-64 per day) on a manual operated system. Typically an automated test system will increase the output by 25%

**(Q) Are there any additional cost involved?**

**(A)** Initially, in the USA, there is a fee for the DOT inspection. Pressure gauge recalibration is required every 6 months (~\$170.00 / year). Consumable test system parts, o-rings, seals, valves ..., are typically \$100.00 - \$300.00 per year depending on your testing volume.



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