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Welcome to Galiso, Incorporated Montrose Colorado USA

Dear Customer, Thank you for choosing us to be a part of your success and future. We are dedicated to supporting your needs by helping you select the proper equipment, providing comprehensive training, and unparalleled customer service

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Hydrostatic Cylinder Testing











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Becoming a Professional Hydrostatic Tester

Making the right equipment decisions	Experience counts		
Making the right equipment decisions at the outset often determines just how successful you will be. Since 1962 Galiso has manufactured and installed thousands of the finest, most reliable hydrostatic systems and support equipment for customers like the largest major cylinder manufacturing facilities, to the smallest start-up operations. Our interest in your business is in helping you select the right tools to maximize labor and profitability	Over the years we listened, watched, and responded with answers to many commonly asked questions. From this, we helped thousands of re-qualifiers succeed in their businesses. We have also watched people stumble down the wrong path so we can help you avoid many pitfalls. We have summarized some of these questions to help you in your equipment decision-making process:		
What costs are involved	A local company is selling their old system. Should I start out that way?		
You can <u>fully</u> equip your shop for under \$16,000 including the test system <u>and</u> support equipment. That is about \$550.00 per month on a 36 month lease purchase plan. Please see our " <u>Leasing Opportunities</u> " page.	Often it costs little more to purchase new equipment. Galiso equipment comes with a standard one year warranty and most importantly training and the experience our customers need to run a succesful business.		
Customers Service Support	Help Us Help You!		
Our field service technicians perform on-site start-up installation and training (in some cases a fee may be assessed), or training is available at Galiso at no cost. We are known for offering excellent assistance with our toll free 800 854-3789 number from 7 AM to 4 PM Mountain Standard Time. We also have a combined total of 54 years experience working on and troubleshooting Galiso equipment!	Please fill out the Hydrostatic Test System Survey page, and see our <u>System Selection Guide</u> in the catalog. To further assist in making the right steps, Galiso offers a free "Getting Started" booklet that will show how to plan the pit area, select the proper air system, electrical requirements, and point out other useful details.		
Have you conta	cted <u>DOT</u>		
Do you know about third party site inspections? Are your employees functioning specific certified to test cylinders? Where do you get HAZMAT training? Is leasing a favorable option? It's all contained in the information available from Galiso. As you progress in your planning, call us with you questions. Our Sales Department can offer ideas and suggestions that will help you step through start-up with minimal errors and confusion.			

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Cylinder Testing Methods

Water Jacket Method

The water jacket method for hydrostatic testing consist of loading a water filled cylinder into a sealed chamber (test jacket) filled with water and connected to a calibrated glass tube (burette) or Galiso's Electronic Expansion Measuring System (the expansion bowl was invented to replace the burette). The burette or Expansion Bowl is first zeroed and the cylinder is then pressurized to its specified test pressure (test pressure requirements are contained in the U.S. Code of Federal Regulations, 49 CFR 180.205). This test pressure is held for a minimum of thirty seconds.

As pressure is applied to "inflate" the cylinder, the cylinder expands and forces water out of the test jacket and up into the Expansion Bowl or burette. After the thirty second test time has elapsed, the Expansion Bowl or burette is read to determine the Total Expansion (in cubic centimeter) of the cylinder under test pressure. The test pressure is released and the cylinder "deflates". As the cylinder shrinks to its approximate original size, water is allowed to drain back into the test jacket from the burette or Expansion Bowl. In most cases the cylinder will not return to its original size, having been slightly stretched by the pressurization process. This stretching is called the Permanent Expansion. The difference between the "Total Expansion" and the "Permanent Expansion" is called the "Elastic Expansion". The Percent Permanent Expansion of the cylinder is determined by the following formula:

Percent Permanent Expansion = (Permanent Expansion÷Total Expansion) X100

When the Percent Permanent Expansion exceeds the predetermined limits for the cylinder being tested, (REE), the cylinder must be condemned and removed from service. A high percent permanent expansion value is an indication that the cylinder metal has lost it's elasticity, or that there has been excessive thinning of the cylinder wall and that the cylinder is no longer safe for use. All test records must be saved and maintained for the duration of the re-qualification.

Plus (+) stamped cylinders may be filled to an additional 10 percent beyond the service pressure that is stamped on the cylinder shoulder for certain specified gases. The Water Jacket Method of testing compressed gas cylinders is the only hydrostatic test method that qualifies for filling to 10% over service pressure. Star (*) stamping makes the cylinder eligible for an extended ten year re-test interval.

The procedures of requirements for plus stamping and star stamping are found in 49 CFR 180.209 (c) for plus stamping and 173.34 (e) (16) for the star. REE values for common cylinder can be found in compressed Gas Association Pamphlet C-5, "Cylinder Service Life, Seamless High Pressure Cylinders". This pamphlet is available from Galiso or go directly from the Compressed Gas Association.

Direct Expansion Method

During the direct expansion test, the cylinder is completely filled with water and the test connection is then screwed into the cylinder neck. Water is pumped into the cylinder until the desired test pressure is achieved. (Test pressure requirements are contained in the U.S. Code of Federal Regulations 49 CFR 180.205).

The Volume of water that is pumped into the cylinder to reach the test pressure is measured to determine the Total Expansion. The Volume of the water that is expelled from the cylinder when pressure is released is measured to determine the Permanent Expansion.

Because air has a different compressibility factor than water, air trapped inside the cylinder will cause inaccurate test results so it is very important that the cylinder is completely filled with water to eliminate trapped pockets of air. The weight of the water contained in the cylinder, the test pressure, test volume (s) and temperature are used to determine the compressibility factor for calculation of the expansion values.

DOT regulations prevent the Direct Expansion Method from being used to qualify cylinders for filling to 10% over service pressure and therefore forbid the Direct Expansion test method to be used to re qualify plus (+) stamped cylinders. The Direct Expansion test method is discussed in detail and example calculations are given in CGA pamphlet C-1, "Methods for Hydrostatic Testing of Compressed Gas Cylinders".

Next >>



While not generally practiced in this country, the U.S Code of Federal Regulation permit that certain specified cylinders (used exclusively in non-corrosive service) do not require the total and permanent expansion to be calculated. For such cylinders, the Proof Pressure method may be used.

Proof Pressure Method

The Proof Pressure Test involves pressurizing a cylinder to the appropriated test pressure and then thoroughly inspecting the cylinder, while under pressure, for indications of leaks, deformations, or other indication of possible failure.

Ultrasonic Testing (UT) Method

This method of cylinder testing was introduced in the U.S on exemption basis in 1994. UT differs from other test methods in that the cylinder valve and contents remain intact as no water is used to pressurize the cylinder in this testing procedure.

The UT test involves positioning the cylinder on a rack of rollers that rotate the cylinder, or full immersion of the cylinder in water. Each cylinder is rotated where the entire cylinder sidewall is examined by the inspection probe sensor. This transmits Ultrasonic energy into the cylinder in the form of 'ping-like- sonar soundings from multiple transducers.

A longitudinal beam transducer sends a pulse that echoes straight off the back wall of the cylinder, measuring the time it takes the echo to return, thus measuring the thickness of the cylinder wall.

Shear wave or angle beam transducers send sound waves diagonally through the cylinder wall detecting any cracks, pits, or flaws. These 'soundings' are recorded electronically and reviewed to ensure that each cylinder is safe for continued use.

Certain new UT technology methods are being employed and recently have been granted exemptions for both steel and aluminum cylinders.



DOT Regulation / CGA Pamphlets

DOT - accordance with regulations specified in the United States by the U.S Department of Transportation (DOT) and in Canada by Transport Canada (TC), certain cylinders must be periodically re-qualified and certified safe for use.

The re-qualification procedures and regulations are discussed in detail in the U.S Code of Federal Regulations (CFR), Title 49 Section 180, and Transport Canada (TC) in B339 and B340. You will find a link to the U.S Code of Federal Regulations, available on-line for your review, by visiting <u>Galiso's (DOT)</u> link page at our web site.

Hard copies of the CFR may be obtained directly from Galiso. Telephone us with your request at 1 800 854-3789 or (970) 249-0233 and ask fro Customer Service, or you can mail a written request to:

Superintendent of Documents U.S Government Printing Office Washington D.C. 20402

CGA Pamphlets - The specifications and procedures for the hydrostatic testing methods are outlined in Compressed Gas Association Pamphlet C-1, "Methods for Hydrostatic Testing of Compressed Gas Cylinders". A series of pamphlets pertaining to certain cylinder types and uses have been compiled for compliance with DOT standards and regulations. Copies of these pamphlets are available from Galiso or by writing to:

> Compressed Gas Association 1725 Jefferson Davis Highway, Suite 1004 Arlington, Virginia 22202-4102

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Section 2 Hydrostatic Testing Systems













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Features of the Console

General Specifications

Design Features

Test Pump Support Package





GALÍSO

REC 4 CYCLE TEST SYSTEM:



The Recortest 4 Cycle Test System incorporates PLC and computer technology to provide fast, accurate, and reliable testing. The flexible Recortest 4 platform with PLC controls accommodates a variety of system component options. The Rec 4 Steel Jacket System can accommodate up to 4 jackets, which can be tested simultaneously.



FEATURES OF THE CONSOLE:

DL205 PLC with 1 Ethernet port, 9 RS232 ports, 8 analog inputs, 8 analog outputs, 32 digital inputs and 32 digital outputs.

Windows XP professional PC operator interface and data collection computer networked to PLC control and customer network

0% to +1% Target Pressurization accuracy

Hot swappable duplicate SATA hard drive for rapid recovery from drive failure

17" Flat panel display monitor

Waterproof keyboard and mouse

Barcode test operation control and cylinder serial number entry

USB webcam and speakerphone for operator instruction and internet video conferencing

Remote high visibility LED status light array

Test information is easily imported into Excel spreadsheet

Audio and visual text alarm for error notification.

GENERAL SPECIFICATIONS:

Console Dimensions	
Electrical	110 - 240 vac 50 - 60hz
Pneumatic	8.3 bar (120 psi) @ 1274 liters per minute (45 cfm).
System actual footprint	510.5 cm L x 122 cm W x 266 cm H
System working floor space needed	

DESIGN FEATURES:

1. The Rec 4 Water Jacket Testing System features automated calibration / digital instrumentation to reduce calibration time and provide improved accuracy, calibration and maintenance.

2. The Rec 4 can accommodate up to 4 jackets simultaneously with precise pressure control.

3. Computer keyboard data entry or optional barcode method for cylinder S/N and date of manufacture.

4. Network provides additional recording of test information on a remote file location.

5. Cylinder information: Serial number, manufacturer, manufacture date, lot number, liner type, and all cylinder specific data pertinent to the test is entered for all cylinders during the hydro testing of 4 cylinders.

6. At the end of each qualification test, the Rec 4 displays a high visibility LED array for pass / fail status on each cylinder tested.

7. Test results data is automatically recorded to local and remote file locations.

RSP 10-DA WATER JACKET TEST PUMP SUPPORT PACKAGE:

Please click <u>HERE</u> or on the picture below to view an Interactive, 3-D "eDrawing" of the RSP-10DA.



The RSP-10DA Recortest 4 Pump Support Package provides accurate automatic pressurization.

Features:

A dual action air-operated water pump provides water pressure.

An air storage reservoir is utilized as a mounting base for the Recortest 4 pump equipment.

Digital transducer with .1% accuracy.

Specifications:

Dimensions	79 cm L x 71 cm W x 142.2 cm H.
Air Requirements	6.2 - 7.6 bar (90-110 psi) @ 425 liters per minute (15 cfm).
Air Reservoir	113.6 liters (30 gallons) @ 12.06 bar (175 psi) maximum.
Air Filtration	
6	Contact Us 1-800-854-3789/+970-249-0233

RSP-10 Recortest 4 Utility Support Package

The RSP-10D Recortest III Utility Support Package provides the necessary filtered air, water, and pressurization equipment to perform exceptional hydrostatic testing within the Recortest 4 System.

FEATURES

- A dual action 10,000 PSI air operated water pump provides water pressure.
- Ordinary service provided utilities, compressed air and water, are filtered to insure the longevity of the equipment.
- A 30-gallon air storage reservoir is utilized as a mounting base for the Recortest 4 pump equipment. This provides a filtered air source for the PCT-122 ADW.

SPECIFICATIONS



Recortest 4 & Recortest/Open Systems

Test Results Report Log

Both of the Recortest Systems provide the operator with the first-class test reporting. Not only are the tests easier to perform, but also the results are well written and documentation of just what was accomplished
<u>Test Results are No Longer Subject to Interpretation!</u>

Test Results are No Longer Subject to Interpre

FEATURES

- Each cylinder to be tested includes a log of the cylinder serial number, size, and rating manufacture, date of manufacture cylinder service, and capacity
- Tested cylinders will have recorded the test pressure, test duration, reject elastic expansion, REE source, and a short character remarks section.
- Results for cylinders include: total expansion, permanent expansion, percent permanent expansion, elastic expansion and a disposition code that indicates the status of the cylinder at test end.
- Test reports may be printed at the end of each work period, stored for a longer period and printed later or archived to another media. Recortest Systems will notify the operator if a cylinder must be retested or rejected.

• At the end of a test period, the Recortest Test Report will print a report that includes test specifications and results for each cylinder tested.

196	PRESSURE CYLINDER RET PTP - Pass Visual,	EBT REPORT Passed X Permy	assed REE Fat -	Failed Visual,	Abort I P	era, Abort	NEE I	PF - Pasi	Visual, Pr	uss 101 Pere	sposition Cod Fail REE	<u>85</u>
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A Proven Windows based, PLC controlled hydrostatic test system; the REC 4 Open is designed for fast, accurate testing of compressed gas cylinders up to 10,000 psi.



View Large Picture

Features

- Each component of the REC 4 Open Test System has been carefully designed to reduce the time required to perform one or more steps of the re-qualification process, insuring significantly greater productivity and accuracy than is possible withmanual cylinder testing equipment.
- Increased productivity: Operator has the ability to add cylinder test data while running the current test.
- The REC 4 Open will test up to 20 medium sized cylinders per hour when manned by one skilled operator
- Test results are no longer subject to operator interpretation or written errors.
- Tests Steel, Aluminum, Composite and Exemption Cylinders
- PLC CONTROL SYSTEM-Extremely durable and industry proven, expandable to include many functions (temp, barcode, etc.)
- DIGITAL INSTRUMENTATION High accuracy digital instruments for pressure and expansion measurements provide superior accuracy and reliability. The digital transducer is rated for 50 million cycles and is accurate to 0.1%.
- **OPERATING ENVIRONMENT**

- User friendly Windows based software allowing point and click operations
- Drop down menus allow for quick data entry of cylinder manufacturers, cylinder codes, gas service and cylinder batches.
- 17" flat panel monitor, Dell computer, and laser printer
- · Visual and/or audible system notifications of errors, alerts, cylinder pass/fail and safety issues
- · Allows for entry of Pass/Fail of "Eddy Current" information
- · Pass/Fail results are immediately calculated and displayed.
- Operator is free to perform other tasks or prepare another cylinder for the next test while tests are being performed.
- Network capable connecting to your local Domain or Workgroup network.
- Test results are stored on the local hard drive and can also be stored in a centralized corporate network location for backing up and sharing.
- · Remote support Galiso is able to operate, service and support networked REC 4 systems from its office in Montrose CO, USA
- · Password protected login screens with login history
- Powder coated console for durability
- 3 day on-site installation and operator training is included in the cost of the REC 4 Open system.
- Full time Customer Service hardware and software support

Options

 BAR CODE OPTION – Allowing the entry of cylinder information to preclude mistakes on the part of the testing operators and speeding up the test procedure

- WEBCAM free internet video calls for REC 4 Open users to other camera equipped computer users worldwide.
- The REC 4 Open can be configured as a dual test system with the addition of a second test jacket
- For low pressure applications, the REC 4 Open can be set up using a low-pressure intensifier pump
- To allow for expansion measurements exceeding 600 cubic centimeters (i.e., one ton containers) a larger capacity scale can be used.
- Automatic pump speed controls

Specifications

- RSP-10D Utility Support Package 31" L x 28" W x 60" H
- 50/60 Hz
- Air10 120 PSI, 10 CFM

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GTC Mod-II Manual Test System

The GTC Mod-II is an economical yet full-featured manual test system designed for smaller volume cylinder testing facilities. This test console is economical, easy to use, accurate and reliable..

FEATURES

- Manually tests up to 10-12 high or low pressure cylinders of all types per hour.
- Expansion measured with electronic accuracy to 1/10 CC by the EEMS (Electronic Expansion Measuring System) system by LCD display.
- The console footprint is approximately 5 sq. ft.
- Can be configured to a 1 or 2 test jacket system.
- Tests to pressures of 400psi to 10,000pi.
- Use for Steel, Aluminum, Composite Exemption cylinder testing.
- Low maintenance powder coated cabinet
- Highly reliable air driven intensifier pump.
- No cost operator training at the Galiso facility.
- One year warranty. Extended to 18 months when installed by a Galiso Field Service Technician.

OPTIONS

- The flexibility afforded by the GTC Mod-II allows it to be used for Direct Expansion and/or Proof Pressure testing with the associated components.
- When used in high/low pressure combinations, an additional pressure gauge is required.
- A Hydrolog software package is available to calculate and record test results electronically for use with a customer supplied PC.
- On-site installation assistance and operator training is available on a fee basis.
- Test Jackets sized for a variety of applications come in 12, 14, 18, 24, 30, and 36 inch diameters.
 - A Quick Connect spud stem on the "G" style head eliminates laborious spud changes for differing size cylinder neck threads.

SPECIFI	CATIONS
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Dimensions	
W x 64" H	
Electrical	
Volt, 50 Hz	
• Air	
@ 10 CFM	
Water	
GPH @ 60 PSI	



Section 3

Test System Components









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GHH and OHH Test Heads

The GHH, (Clean), and OHH, (Dirty) Hydraclose Test Heads are designed to reduce the set-up time for testing by pneumatically sealing the head to the test jacket, and sealing the cylinder test connection.

FEATURES

- With a slight turn, the test head locks safely into place. The rubber boot portion of the test head expands to create a leak-proof closure when the low pressure air line is attached. This simultaneously activates a diaphragm to compress the speed seals in the cylinder neck ensuring a fast leak-proof connection.
- With a slight turn, the test head locks safely into place. The rubber boot portion of the test head expands to create a leak-proof closure when the low pressure air line is attached. This simultaneously activates a diaphragm to compress the speed seals in the cylinder neck ensuring a fast leak-proof connection.
- The GHH (Clean) Hydraclose Test Head is offered for general cylinder testing of "clean" cylinders such as oxygen, specialty gases, or argon where the presence oil contamination is absent.
- The OHH (Dirty) Hydraclose Test Head is offered for systems that will be testing both "clean" and "dirty" cylinders, this head will reduce the possibility of cross contamination between clean and dirty cylinders.
- Test heads come as the standard "H" (threaded) configuration or the innovative "G" style configuration. This "G" style uses a quick- connect spud that simply snaps a spud in placesaving countlesshours. Hydraclose Test Heads are available in 12", 14", 18", 24", 30" & 36" nominal diameter.





H Head

Air Requirements	90PSI (Head Seal Pressure)
Maximum Test Pressure	10,000 PSI



GTJ Hydraclose Test Jackets

The GTJ, Galiso Hydraclose Test Jacket is an integral component of all Galiso test systems. The GTJ water jacket is specially designed to accommodate the Hydraclose Test Head.

Features

- The Hydraclose Test Jacket contains a safety locking device, one or more burst disk crystals, (depending on the diameter of the jacket), a drain valve, a splash shield and connection hoses that attach to the Hydraclose Test Head.
- The Hydraclose Test Jacket contains a safety locking device, one or more burst disk crystals, (depending on the diameter of the jacket), a drain valve, a splash shield and connection hoses that attach to the Hydraclose Test Head.
- The Hydraclose Test Jacket is available in 12", 14", 18", 24", 30' & 36' nominal diameters.

Options

- The Hydraclose Test Jacket is available in Stainless Steel by special order.
- An OTJ (dirty) plumbing option is available to accommodate testing dirty cylinders using the OHH (dirty) Test Head.

SPECIFICATIONS

Max Test
Pressure.....11,000psi



SCC and LCC Calibrated Cylinders

Galiso supplies calibrated cylinders in 2 size groups; SCC (Short Calibrated Cylinder), and LCC (Long Calibrated Cylinder).

In accordance with D.O.T regulations, hydrostatic test systems must be checked daily to assure the accuracy of the test results. The calibrated cylinder is a special steel or aluminum cylinder with a predetermined expansion rate, which is calibrated by Galiso, to be used to check the precision of the hydrostatic test system expansion readings.

FEATURES

- Galiso calibrated cylinders are specially prepared to provide years of dependable service. Each calibrated cylinder is pre-stressed to eliminate permanent expansion and protect calibration points.
- The calibration run is checked by a specialized computer program to insure the linearity of calibration points .
- A Stainless steel adapter is included to protect the cylinder neck threads and prolong the life of the calibrated cylinder.
- Galiso calibrated cylinders provide stable consistency with calibration points of 400 to 2,500psi, or 3,000 to 10,000psi pressure ranges

Calibrated Cylinder Specifications

1.0 Galiso Model LCC-LP, Part Number 01-51-2342:

Spec: DOT 3AA240 Material: Steel Max. Test Press: 4,000 psi ; 275.79 bar Nom. Exp. @ Test Press: 225 cc Dry Weight: 139 lbs; 63.04 kg Internal Volume: 2640 cu in. ; 43.26 liter Neck Thread: 3/4" - 14 NGT Adapterr: 3/4" F port, 01-32-2635D 1/2" F port, 01-32- 2607D

Calibrat	ion Points
PSI	(bar)
400	(27.58)
450	(31.03)
500	(34.47)
600	(41.37)
700	(48.26)
800	(55.16)
900	(62.05)
1,000	(68.95)
1,200	(82.74)
1,400	(96.53)
1,600	(110.32)
1,800	(124.11)
2,000	(137.90)
3,000	(206.84)
4,000	(275.79)



2.0 Galiso Model LCC-HP, Part Number 01-51-2378:

Spec: DOT 3AA600 Material: Steel Max. Test Press: 10,000 psi ; 689.48 bar Nom. Exp. @ Test Press: 193 cc Dry Weight: 267 lbs ; 121.11kg Internal Volume: 2285 cu in. ; 37.44 liter Neck Thread: 3/4" - 14 NGT Adapterr: 3/4" F port, 01-32-2635D 1/2" F port, 01-32-2607D

Calibration Points

PSI (bar) 3,000 (206.84) 4,000 (275.79) 5,000 (344.74) 6,000 (413.69) 7,000 (482.63) 8,000 (551.58) 9,000 (620.53) 10,000 (689.48)



3.0 Galiso Model SCC-HP, Part Number 01-51-2352: **Calibration Points** Spec: DOT E 9909 PSI (bar) Material: Steel Max. Test Press: 9,000 psi ; 620.53 bar 3,000 (206.84) 3,500 (241.37) Nom. Exp. @ Test Press: 160 cc Dry Weight: 120 lbs ; 23.92 liter 4,000 (275.79) 5,000 (344.74) Internal Volume: 1460 cu. in.; 23.92 liter 6,000 (413.69) Neck Thread: 3/4" - 14 NGT 7,000 (482.63) Adapterr: 3/4" F port, 01-32-2635D 8,000 (551.58) 1/2" F port, 01-32-2607D 9,000 (620.53)

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762			
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4.0 Galiso Model SCC-MP, Part Number 01-51-2340:

Calibration Points

Spec: DOT 3AA2015 Material: Steel Max. Test Press: 3,360 psi ; 231.66 bar Nom. Exp. @ Test Press: 67 cc Dry Weight: 41 lbs ; 18.60 kg Internal Volume: 995 cu. in. ; 16.30 liter Neck Thread: 3/4" - 14 NGT Adapter: 3/4" F port, 01-32-2635D 1/2" F port, 01-32-2607D

Adapter: 3/4" F port, 01-32-2635D

1/2" F port, 01-32-2607D

PSI	(bar)
1,000	(68.95)
1,200	(82.74)
1,400	(96.53)
1,600	(110.32)
1,800	(124.11)
2,000	(137.90)
2,500	(172.37)
3,000	(206.84)



5.0 Galiso Model SCC-LP, Part Number 01-51-3800: Spec: None Material: Steel Max. Test Press: 750 psi ; 51.71 bar Nom. Exp. @ Test Press: 33.2 cc and @ 750 psi ; 65 cc Dry Weight: 51.5 lbs ; 23.36 kg Internal Volume: 2200 cu in. ; 36.05 liter Neck Thread: 3/4" - 14 NGT

Calibrat	ion Points
PSI	(bar)
400	(27.58)
450	(31.03)
500	(34.50)
600	(41.37)
700	(48.26)
750	(51.71)



6.0 Galiso Model SCC-MP-A, Part Number 01-51-2343:	Calibration Points
Spec: DOT 3AL Material: Aluminum	PSI (bar)
Max. Test Press: 5,000 psi ; 344.74 bar	3,000 (206.84)
Nom. Exp. @ Test Press: 3,000 psi: 42.8 cc	4,000 (275.79)
5,000 psi: 79.1 cc	5,000 (344.74)
Dry Weight: 31.7 lbs.; 14.38 kg	
Internal Volume: 678 cu. in. ; 11.11 liter	
Neck Thread: 0.75 - 14 NPSM - 2B	
Adapter: 3/4" FPT, 01-32-2540F, 40-87-6214 w/Oring	
1/2" FPT, 01-32-2642F, 40-87-6214 w/Oring	



7.0 Galiso Model LCC-100, Part Number 01-51-3804:

Calibration Point

Spec: DOT 4BA/4BW Material: Steel Max. Test Press: 800 psi ; 55.16 bar Nom. Exp. @ Test Press: 400 psi: 51 cc 800 psi: 102 cc Dry Weight: 45 lbs ; 20.4 kg Internal Volume: 2587 cu. in. ; 42.39 liter Neck Thread: 3/4" - 14 NGT Adapter: 3/4" FPT, 01-32-2635D 1/2" FPT, 01-32-2607D

PSI	(bar)
400	(27.58)
450	(31.03)
500	(34.47)
600	(41.37)
700	(48.26)
800	(55.16)

Calibration Points



8.0 Galiso Model LCC-250, Part Number 01-51-3802:

Spec: DOT 4BA/4BW	PSI (bar)
Material: Steel	400 (27 59)
Max. Test Press: 850 psi ; 58.61 bar	400 (27.58)
Nom. Exp. @ Test Press: 400 psi: 131.5 cc	450 (31.03)
800 psi: 255.5 cc	500 (34.47)
Dry Weight: 105 lbs ; 47.6 kg	600 (41.37)
Internal Volume: 6583.5 cu. in. : 107.88 liter	700 (48.26)
Neck Thread: 3/4" - 14 NGT	850 (58.61)
Adapter: 3/4" FPT, 01-32-2635D	
1/2" FPT, 01-32-2607D	

9.0 Galiso Model LCC-500, Part Number 01-51-3803:

Spec: DOT 4BA/4BW Material: Steel Max. Exp. @ Test Press: 800 psi ; 55.15 bar Nom. Exp @ Test Press: 300 psi: 300.3 cc 800 psi: 600.8 cc Dry Weight: 202 lbs

Internal Volume: 57 gal ; 215.76 liter Neck Thread: 3/4" - 14 NGT Adapter: 3/4" FPT, 01-32-2635D 1/2" FPT, 01-32-2607D

Calibration Points

PSI	(bar)
400	(27.58)
450	(31.03)
500	(34.47)
600	(41.37)
700	(48.26)
750	(51.71)



10.0 Galiso Model SCC-210-0680, Part Number 01-51-3805:

Calibration Poitns

Calibrated Cylinder Specs

Spec: DOT 3AL2015 Material: Aluminum Max. Test Press: 3350 psi ; 230.97 bar Nominal Expansions: @ 2350 psi: 20.5 cc @ 3350 psi: 29.5 cc Dry Weight: 8 lbs ; 3.63 kg Internal Volume: 283 cu. in. ; 4.64 liter Neck Thread: 3/4" - 16UNF-2B Adapter: 3/4" FPT, 01-32-2798 (3/4") 1/2" FPT, 01-32-2447 (1/2")

PSI (bar

2350	(162.03)
2850	(196.50)
3350	(230.97)



11.0 Galiso Model SCC-3000-7500, Part Number 01-51-2384:

Spec: EEC Directive 97/23 Material: Graphite Epoxy Wound Plastic Liner, Aluminum Neck Max. Exp. @ Test Press: 7500 psi; 517.10 bar Nom. Exp @ Test Press: 4,000 psi: 83.7 cc 6,000 psi: 124.5 cc

Dry Weight: 7.5 lbs ; 3.40 kg Internal Volume: 415 cu. in. ; 6.8 liter Neck Thread: M18 - 1.5 Adapter: 3/4" FPT, 01-31-3186 (3/4")

Calibrati	on Points
DCI	(har)
P31	(bar)

(206.84)
(275.79)
(344.74)
(413.69)
(482.63)
(517.11)





MGA Master Gauge Assemblies

The Master Gauge Assemblies are used for the verification and calibration of the pressure transducer on the Recortest III and Recortest/Open Systems. A Master Gauge Assembly may also be used to extend the recalibrating period for an Analog working gauge to 1 year--instead of 6 months.

FEATURES

- The Master Gauge Assembly features a mirror dial face and a fine pointer needle for increased accuracy and legibility.
- The Master Gauge Assembly also includes a Calibration Certificate. All Galiso Mater Gauge Assemblies are certified as having a quality rating (0.25%) of full-scale accuracy.

OPTIONS

• A 20,000 PSI Gauge is available by Special Order.

SPECIFICATIONS

Dimensions6" Di	ial Face
-----------------	----------

• Pressure Ranges Available From 0 PSI to 1,500; 2,500 ; 6,600; and 11,000 PSI



Section 4

Test System Support Equipment









Galiso, Incorporated

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GVM-16G Tunair Valving Machine

The GVM-16G Turnair Valving Machine removes and installs cylinder valves quickly and efficiently. This GVM workhorse continues to serve users with an unprecedented record of reliability and is legendary in the cylinder maintenance workplace.

FEATURES

- A powerful high quality Air Motor ensures long life and maintenance free operation.
- The patented Valve Tongs automatically adjust to grip valve flats from 7/8" to 1 7/8".
- The Valve tong assembly features a power multiplier to increases grip strength as torque increases to hold the valves securely from remova or insertion.
 This eliminates slippage and valve damage caused by conventional methods.
- Cylinders can be left or right side loaded (optional) into the GVM-16G for fast handling.
- Available in 2 models: Caster mounted for portability, or mounted on a stationary base plate.

OPTIONS

- An optional Small Cylinder Left Assembly is available for loading cylinders into position for the valving operation.
- term to provide precise
- The GVM-16G can be specially equipped with an Electronic Torque Transducer System to provide precise measurement of torque, conforming to current EC directives and safety standards.

Dimensions	48" L x 36" W x 114" H
• Air	15 CFM at 120 PSI at maximum torque.
Max Torque	700 Ft. Lbs. fully adjusted.
Max Clamping Force	3,000 Lbs. fully adjusted.
Max Cylinder Size	

REV-12 Electric Valving Machine

This durable REV-12 brings a 30-year history of trouble-free performance to the Galiso line of support products at an affordable price. Manufactured by L. Ronning AB in Sweden, this unit efficiently removes/installs valves within a range of standard height and diameter steel cylinders.

FEATURES

- The REV-12 valver can be wall or pillar mounted and consists of 4 components: Electric motor and torque plate; safety cage and clamping assembly; control box; and telescoping shaft with wrench and counterweight.
- The telescoping shaft permits users to service valves on cylinders from 12" to 55" tall. This is variable, according to how each component is space mounted on the wall or pillar.
- Cylinders with diameters of 4" to 12" are pneumatically clamped and held firmly in place by non-slip rubber clamp arms.



- Adjustable torque settings up to 430 foot lbs. Enable users to reinstall valves to proper torque values.
- A set of 7 removable valve wrench inserts allow the REV-12 to grip most standard US valve flats, from 7/8" to 1 3/4".
- The REV-12 is NOT explosion-proof. NOT for acetylene plant applications.

OPTIONS

- A small cylinder lift is available by special order only.
- The REV-12-AL Electric Valving Machine is for use with aluminum cylinders only.
- The REV-12_EP Explosion-Proof Valving Machine is available by special order only.
- A Torque setting Chain and Chain Wheel Kit is available for frequent torque adjustment requirements.

Dimensions	Approx. 6ft. Wide X 11ft. Tall
Electrical	
• Air	
Maximum Torque	
Cylinder Clamping Range	4" to 12" Diameter
Cylinder Height Range	12" to 55" Tall. (depending on wall mou

Pneumatic Cylinder Belt Vise

The Belt Vise is a well constructed, base-plate mounted pneumatic cylinder vise, a must for those shops where an efficient means of valve removal is critical to testing and maintenance.

FEATURES

- The non-slip durable rubber belting eliminates cylinder scratching, and prevents cylinder movement while performing the valving and devalving operations.
- The standard 28" length belt adjusts to fit and firmly grip 4-1/4" to 10-5/8" diameter cylinders. A handy tool and stamp tray is conveniently mounted on the vise.

OPTIONS

 An optional 60" belt is available for gripping cylinders up to 15" diameter



• Dir	nensions	24"	L x 18"	W x 37" H
• Air	Requirements		1	00-120 PSI

CIV-16G Acetylene Inspection Inverter & Valver

The CIV-16G-I Inverter & Valver is designed specifically for servicing acetylene cylinders. This unit combines features of the GVM-16 Turn air Valving Machine and the PCT Cylinder Inverter to provide inspection of the cylinder bottom, porous filler and fusible plugs, and also devalves cylinders when required.

FEATURES

- The CIV-16G-I is designed for ease of valve removal and proper inspection, of the acetylene cylinder (as described in CGA pamphlet, C-13) by inverting the cylinder to a provide an unobstructed view of the cylinder bottom, fusible metal plugs and foot ring.
- The CIV 16G-I is completely air powered to eliminate the risk of explosion due to electric spark. The system is mounted on heavy-duty casters to allow the unit to be moved from one workstation to another.



OPERATION

• Operation of the CIV-16G-I is simple. Cylinders are positioned into the clamp jaws and at the push of a button, the cylinder is lifted to the horizontal position to allow visual inspection of the cylinder, Next, the cylinder swings to the inverted position to allow the fusible plugs to be removed for maintenance, or for inspection of the bottom of the internal porous filler. The cylinder is then returned to the upright position and the counter balanced Turn air Valver Head is lowered to remove the valve from the cylinder neck. Once the valve has been removed, the top of the internal porous fill may be inspected and repaired as necessary. After inspection is complete, the Turn air Valve Tongs are used to replace the valve in the cylinder neck.

Dimensions	24" L x 18" W x 37" H
Air Requirements	120 PSI @ 20 CFM at max torque.
Maximum Torque	(Valving) 630 ft/lbs. (Fully Adjustable).
Maximum Clamping Force 3000 lbs	(Fully Adjustable).
Maximum Cylinder Size	3" to 16" Diameter x 58" Tall.
Maximum Acceptable Cylinder Weight	400 lbs.

PCT 15-ADW / 122-ADW Cylinder Inverter Driers

The PCT-15ADW is a single cylinder Inverter Drier. The PCT-122 ADW inverts and dries 2 cylinders per cycle. Filtered air in injected into the inverted cylinder, purging out water from the hydrostatic test. To rapidly heat the cylinder walls, hot water (180°) is introduced into they cylinder, followed by a final burst of clean air to produce a 'fresh dried' cylinder ready for inspection.

FEATURES

- The PCT/ADW (Automated Dry & Wash) models can invert, wash, drain, and dry up to 2 water-filled cylinders in 3 minutes or less depending on cylinder size.
- The PCT/ADW is microcomputer controlled, freeing the operator to perform other duties during the purge/dry process. The time value for any cycle is easily programmed via the keypad to match the cylinder sizes or for particular applications.
- This PCT/ADW makes efficient use of workspace by eliminating the need for a cylinder vise, dump rack, and hot air drying manifold.

NOTE: The PCT/ADW Inverter Drier requires a Commercial Hot Water heater capable of supplying 180° water and having a minimum capacity of 90 gallons.



OPERATIONS

- When equipped with a detergent supply line the PCT/ADW acts as an internal washer to cleanse cylinders of oils, scale, or other foreign substances.
- A PCT-I (inspection) model is available to simply clamp and invert cylinders to inspect the bottoms and exterior walls, or for draining only.

Dimensions	PCT-15ADW 40" L x 36" W x 40" H
Dimensions	PCT-122ADW 56" L x 36" W x 40" H
Electrical	
• Air	90PSI @ 7-10 CFM
• Water	
Hot Water	
Maximum Allowable Cylinder Dimensions:	PCT-15-ADW: 4" to 15" diameter to 60" Tall
Maximum Allowable Cylinder Weight	

HDD-8RB Heavy Duty Cylinder Drier

The **HDD-8RB** Heavy Duty Drier is a rugged, hot air manifold type drier with the capacity to dry as man as 8 drained 9" by 51" cylinders in approximately 25 minutes.

FEATURES

- HDD driers features a thermostatically controlled 8KW heating element.
- A 1.5 HP (1125 watt) brushless regenerative blower motor moves hot air through each cylinder
- at 106 CFM.
 The brushless motor provides quiet, maintenance free operation without the need to periodically replace worn brushes.
- The blower assembly features a convenient 110 Volt outlet to operate the Galiso Opti-Lite for timely inspection of cylinders.
- The HDD driers are thermally insulated to assure maximum heating efficiency.
- HDD driers are shipped partially assembled with easy-to-follow set-up instructions.



Dimensions	122" L x 18" W x 78" H
Electrical	
■ Blower Motor	1.5 HP, 1125 Watt, Brushless, 106 CFM
Heater Elements	
Drier Tubes	

GCI / IDS Manual Inverter Drier Station

The new **GCI/IDS** manually inverts, drains and dries cylinders from the short 20 lb. CO2, SCBA and scuba to the largest industrial cylinders like the 100 lb. CO2



FEATURES

- The GCI has a 5 selectable pivot points and a locking containment arm to provided balance and safety to avoid injuries that can occur when employees use makeshift cylinder handing equipment.
- The GCI is characteristic of all Galiso products: Versatile. Durable. Efficient. Constructed of heavy-duty 1/4" carbon steel, the frame, platform, and cylinder cradle (coated to protect your cylinder) provide stability and long life service in any hydro shop environment.
- The small footprint conserves workspace so the GCI can be located near the test station to maximize time and labor savings.

OPERATIONS

- The GCI is available with the **IDS wash/dry** feature that serves as a cylinder drying station, converting the GCI into a duel function support product.
- Load a cylinder onto the compact GCI/IDS to invert the cylinder, insert the air/water probe into the cylinder neck and –
- A burst of air purges test water from the cylinder.
- Hot water is injected to speed drying.
- Another burst of air "flash dries" the cylinder, so in minutes it is dry and ready for final inspection.
- Convenience at low cost. Affordable to the smallest test facility with limited budgets.
- The GCI/IDS is built to Galiso's high standard of excellence and durability and comes with a 2 year warranty.

Centering Pivot Points for	
Dimensions	
Minimum Cylinder Size	
Maximum Cylinder Size	
Weight:	160 LBS

GCD-4 Light Duty Drier

FAST, EFFICIENT, LOW COST. Ideal for Medical D & E's, SCBA's, Scuba and small CO2 cylinders.

FEATURES

- Powered by a heavy -duty blower, the GCD-4 generates 95 CFM of hot or cold air to efficiently dry small cylinders.
- Drain, invert and place up to 4 cylinders on the drier probes.
- Cylinders are properly dried in a matter of minutes, ready to be inspected and placed back into service.
- The built-in drier motor is quiet, producing temperatures to 175° to accelerate the dying of steel and aluminum cylinders.
- Select the "cool" setting to protect fiber wrapped or composite cylinder, or to simply refresh others.

- Capacity up to 4 35 lb. CO2 Cylinders



LCR-4-WT & LCR-6-WT Loading Cylinder Rollers



FEATURES

- The LCR simplifies the process of cylinder rolling and tumbling by eliminating the need to lift heavy cylinders onto a stationary machine. The base of the unit is made of structural steel.
- The cylinder rack of the LCR pivots up to allow standard 10 5/8" diameter by 62" tall cylinders to be easily loaded onto the rack. When loaded the rack tilts down into the horizontal rolling position.
- The loading cylinder rollers are equipped with a timing device that controls the duration and direction of cylinders rotation to more efficiently accomplish cleaning and mixing operations.

OPERATIONS

- A heavy-duty air piston lifts the cylinder rack into the vertical position for loading.
- After the cylinders are placed, the operator pushes a control valve and the rack pivots to the horizontal position for tumbling.
- Cylinders are rolled in either direction on 8-inch diameter neoprene rollers mounted on heavy steel shafts driven by a powerful motor.
- White rollers are available for sensitive applications.

OPERATIO	Maximum Cylinder Load			
	LCR-4-WT	LCR-6-WT		
	4 ea. 10 5/8" Diameter x 62 " Tall	6 ea. 10 5/8" Diameter x 62 " Tall		
	4 ea. 9 1/2 " Diameter x 55 " Tall	6 ea. 10 5/8" Diameter x 62 " Tall		
	8 ea. Scuba Size Cylinders	12 ea. Scuba Size Cylinders		

Dimensions	LCR-4-WT	
Dimensions	LCR-6-WT	
Operating Pressure		5 Amps, 440 Volt, 50/60 Hz 3-Phase
Air Requirement	90 PSI @ 17 CFM (Inter	mittent) Filtered and Lubricated

VST-9 Cylinder Tumbler

The **VST-9 Cylinder Tumbler** is designed for effortless internal dry cleaning of cylinder using abrasive media. The VST-9 works well in conjunction with the ISB-1D Internal Shot Blaster.

FEATURES

- The entire structure of the VST-9 is fabricated from heavy, 10-gauge steel for rigidity and long life.
- Neoprene rollers cushion the tumbling cylinder, reducing noise and eliminating cylinder marring.
- The direction of cylinder rotation may be reversed easily.
- The VST-9 tumbles cylinders up to, 10 5/8" Diameter x 60" Tall.

OPERATIONS

- Cylinders can be rolled into the VST-9 and easily tilted to the horizontal position for tumbling.
- The VST-9 is also capable of tumbling 2 or 3 smaller cylinders simultaneously when the machine is loaded in the horizontal position.

SPECIFICATIONS

Dimensions	. Loading Position	
Dimensions	Tumbling Position	61" L x 15 3/4" W x 43" H
Electrical Requirements		. 5.7 Amps, 115 Volt, 60 Hz, Single Phase
	or 1.5 Amp	s, 208-230/440 Volt, 50/60 Hz, Three Phase

ISB Internal Shot Blaster System

The combination of the **ISB-1 Internal Shot Blaster** with shot catcher and dust collector system and the VST-9 (Cylinder Tumbler) is designed to provide a fast means for cleaning the interior of steel cylinders.

FEATURES

- The ISB thoroughly and efficiently cleans the cylinder interior in two to ten minutes.
- The ISB-1D also protects cylinder life by removing only the rust, scale and corrosion

from the cylinder interior, leaving the cylinder wall intact

OPERATIONS

- Pour steel shot into the ISB-1 shot reservoir, and now load they cylinder on the VST-9 tumbler and rotate into position for the blasting process.
- Insert the ISB blasting probe into the cylinder and depress the blasting trigger. As the VST-9 rolls the cylinder to allow all the internal surfaces to be blasted clean, the dust collector sucks away the dirt and residue being expelled from the cylinder.
- After the blasting process is complete the VST-9 cylinder roller/ rack is rotated to the shot draining position allowing shot re-cycling. The VST-9 is rotated back to the loading/ unloading position and the cylinder removed, ready for internal inspection.



Dimensions	ISB: 30" L x 24" W x 54" H
Air Requirements	90-120 PSI (60 SCFM) NOTE: Clean Dry Air Required!
Operating Pressure	Dust Collector: Set on 55 Gallon drum supplied by customer.
WeightWarranty	



PCT 15-ADW

The PCT-15ADW is a single cylinder Inverter Drier. The PCT-122 ADW inverts and dries 2 cylinders per cycle. Filtered air in injected into the inverted cylinder, purging out water from the hydrostatic test. To rapidly heat the cylinder walls, hot water (180°) is introduced into they cylinder, followed by a final burst of clean air to produce a 'fresh dried' cylinder ready for inspection.

FEATURES

- The PCT/ADW (Automated Dry & Wash) models can invert, wash, drain, and dry up to 2 water-filled cylinders in 3 minutes or less depending on cylinder size.
- The PCT/ADW is microcomputer controlled, freeing the operator to perform other duties during the purge/dry process.
 The time value for any cycle is easily programmed via the keypad to match the cylinder sizes or for particular applications.
- This PCT/ADW makes efficient use of workspace by eliminating the need for a cylinder vise, dump rack, and hot air drying manifold.

NOTE: The PCT/ADW Inverter Drier requires a Commercial Hot Water heater capable of supplying 180° water and having a minimum capacity of 90 gallons.



OPERATIONS

- When equipped with a detergent supply line the PCT/ADW acts as an internal washer to cleanse cylinders of oils, and residue.
- A PCT-I (inspection) model is available to simply clamp and invert cylinders to inspect the bottoms and exterior walls, or for draining only.

Dimensions	PCT-15ADW 40" L x 36" W x 40" H
Electrical	110 Volts, 60 Hz., or 220 Volts, 50 Hz
• Air	
• Water	10 GPM @ 60 PSI.
Hot Water	10 GPM @ 60 PSI.
Maximum Allowable Cylinder Dimensions:	PCT-15-ADW: 4" to 15" diameter to 60" Tall
Maximum Allowable Cylinder Weight	400 Lbs.



PCT 15-ADW / 122-ADW Cylinder Inverter Driers

The PCT-122 ADW inverts and dries 2 cylinders per cycle.

Filtered air in injected into the inverted cylinder, purging out water from the hydrostatic test. To rapidly heat the cylinder walls, hot water (180°) is introduced into they cylinder, followed by a final burst of clean air to produce a 'fresh dried' cylinder ready for inspection.

FEATURES

- The PCT/ADW (Automated Dry & Wash) models can invert,wash,drain, and dry up to 2 water-filled cylinders in 3 minutes or less depending on cylinder size.
- The PCT/ADW is microcomputer controlled, freeing the operator to perform other duties during the purge/dry process. The time value for any cycle is easily programmed via the keypad to match the cylinder sizes or for particular applications.
- This PCT/ADW makes efficient use of workspace by eliminating the need for a cylinder vise, dump rack, and hot air drying manifold.
- **NOTE:** The PCT/ADW Inverter Drier requires a Commercial Hot Water heater capable of supplying 180° water and having a minimum capacity of 90 gallons.



OPERATIONS

- When equipped with a detergent supply line the PCT/ADW acts as an internal washer to cleanse cylinders of oils, scale, or other foreign substances.
- A PCT-I (inspection) model is available to simply clamp and invert cylinders to inspect the bottoms and exterior walls, or for draining only.

Dimensions	PCT-122ADW: 60" L x 36" W x 40" H
Electrical	110 Volts, 60 Hz., or 220 Volts, 50 Hz
• Air	90PSI @ 7-10 CFM
Water	10 GPM @ 60 PSI
Hot Water	10 GPM @ 60 PSI
Maximum Allowable Cylinder Dimensions:	PCT-122ADW: 3" to 12" Diameter to 60" Tall
Maximum Allowable Cylinder Weight	400 Lbs.



SCD-4W Small Cylinder Drier P/N 25-54-3148



FEATURES

- The SCD-4 Small cylinder drier provides a fast, efficent means of draining and drying small compressed gas cylinders after hydrostatic testing.
- The SCD uses compressed air and hot water to drain and flash dry cylinders in under 2 minutes.
- Timer controls allow for individual adjustments
 - 0 60 seconds Drain Air
 - 0 60 seconds Hot Water
 - 0 60 seconds Detergent
 - 0 120 seconds Dry Air

Dimensions	60" L x 13" W x 30" H
Electrical Requirements:	90 - 264 VAC to 12vdc, 50/60 Hz
Capacity	Up to 4 Cylinders
Max Cylinder Size	10" dia x 30" tall
Air Requirements contaminant. (reommend 80-11-0046 filter package - 0.01 ppm)	10.cfm@90psi with <0.03 ppm
Hot Water Required	5.0 gpm@60 psi, 180°F Max filtered

Opti-Lite Cylinder Inspection Kit

The **Opti-Lite** is a fiber optic projected light system used to inspect the interior of compressed gas cylinders for pitting, cracks, rust and/or corrosion. Fiber optic light transmission delivers maximum brilliance inside the cylinder.

FEATURES

- The Opti-Lite provides a margin of safety. Since light is transferred through glass fibers, all heat and electrical current is isolated from potentially flammable gases within the cylinder. The fiber optic illuminator cable is encased in a rugged, silicone wrapped flex line for increased durability.
- Ease of use insert the light guide into a cylinder neck and one can quickly and easily observe/inspect the condition of a cylinders interior surfaces.

SPECIFICATIONS



Black Light Cylinder Inspection Kit

CAUTION – Guessing **is** hazardous to your personnel! Was the oxygen or breathing air cylinder you just tested exposed to hydrocarbons (oil)?

FEATURES

- The Black Light Kit confirms oil residue in a cylinder by inserting the ultra-violet light-emitting probe into the cylinder to inspect the neck and interior walls.
- Any trace of hydrocarbons become readily visible by appearing white, in sharp contrast to the purple Illumination generated by the light probe.
- When the Black Light Kit is in use, UV coated safety glasses are recommended.
- The probe cable is 12 feet in length making it easy to inspect cylinders of all sizes, yet can be stored out of the way or wall mounted for convenience.

SPECIFICATIONS

• Dimensions 4 1/2" L x 4" W x 3" H



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Automatic Cylinder Filling Systems

The **RCSG** has been designed to keep pace with the Galiso Test Systems by rapidly and automatically filling cylinders with water in preparation for hydrostatic testing. The RCSG is designed for smaller capacity cylinders.

FEATURES

- The RCSG cylinder fill system is economical, simple to operate and easy to maintain.
- The RCSG is available in configurations of 1, 2, 3, 4 spouts, for quickly filling cylinders. Each configuration is shipped ready to install, with a 10 foot hose and regulator.

OPERATION

The operation of the RCSG is as simple as inserting the spout into the cylinder neck and triggering the start lever. The RCSG will fill the cylinder and automatically shut off when the cylinder is full.

This frees the test operator to perform other test-related duties while the cylinder is being filled.

SPECIFICATIONS

- Flow Rate RCSG 2 GPM per nozzle @ 50 PSI
- Minimum Neck Size RCSG 11/16" ID

The **CFS** has been designed to keep pace with the Galiso Test Systems by rapidly and automatically filling cylinders with water in preparation for hydrostatic testing. The CFS is designed for large neck, large volume cylinders.

FEATURES

- The CFS cylinder fill system is an economical, simple to operate, and easy to maintain.
- The CFS is available in configurations of 1 or 2 spouts for quickly filling a large quantity of cylinders. Combining with an RCSG is also available. Each CFS is shipped ready to install, with a 12 foot hose.

OPERATION

Operation of the RCSG and CFS is as simple as inserting the spout into the cylinder neck and triggering the start lever. The RCSG and into the cylinder and automatically shut off when the cylinder is full. This frees the test operator to perform other test-related duties while the cylinder is being filled.

SPECIFICATIONS

٠	CFS	12' Hoses, 13' with fill gun
•	Water Requirements 30 PSI to	0 80 PSI Maximum CFS
•	Flow Rate CFS	up to 12 GPM @ 80 PSI
	N/: · NI / O' OFO	7/0110

Minimum Neck Size CFS 7/8" ID





External Shot Blasters

Galiso makes available a variety of External Shot Blasters that are the most effective and efficient method for removing paint, rust, scale and other surface impurities form the exterior walls of cylinders, from Medical D & E to acetylene to large one-ton containers.

FEATURES

- These cylinder cleaning systems are chemical-free creating no disposal problems.
- Maximum Safety: -entry door safety lock-out
 - -guarded cylinder lift table
- Easy Load/Unload
- pneumatic door, cylinder loader and ejector.
- Low Maintenance /Long Life
 - Manganese alloy wear liners
 - variable speed tumbler
- Fast and Efficient
 - One operator can clean 15 average size cylinders per hour.



		GC-301	GC- 110	GC110/30	GC-111	GC-112	GC-113	GC-500	GC- 1000
Overall Dimensions:	Length	72"	107"	107"	112"	112"	114"	204"	258"
	Depth	50"	42'	55"	80"	93"	42"	90"	90"
	Height	74"	73"	84"	87"	109"	119"	111"	107"
Cylinder	Min. Diameter 1	6"	6"	6"	6"	6"	12"	12"	12"
Capacities:	Max. Diameter	30"	20"	30"	20"	30"	36"	44"	44"
	Max. Length 2	30"	72"	72"	72"	72"	96"	120"	192"
Blast Wheels:	No. of Wheels	2	2	2	2	2	4	6	8
	Diameter	18"	18"	18"	18"	18"	18"	18"	18"
	Horsepower	10	10	10	10	10	10	10	10
	R.P.M.	1725	1725	1725	1725	1725	1725	1725	1725
Features:	Pneumatic Door	Opt.	Opt.	Opt.	Std.	Std.	Std.	Opt.	Opt.
	Cylinder Loader	n/a	Opt.	Opt.	Std.	Std.	Opt.	n/a	n/a
	Cylinder Ejector	n/a	n/a	n/a	Std.	Std.	Opt.	n/a	n/a
	Var. Speed Tumbler	Opt.	Opt.	Opt.	Std.	Std.	Opt.	Opt.	Opt.
Electrics:	Digital Timer	Opt.	Opt.	Opt.	Std.	Std.	Std.	Std.	Std.
	Analog Timer	Std.	Std.	Std.	n/a	n/a	n/a	n/a	n/a
	Ammeters	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.
Electrical	Blast Motor - H.P. - RPM	2 @ 10	2 @ 10	2 @ 10	2 @ 10	2 @ 10	4 @ 10	6 @ 10	8 @ 10
Requirements.		1725	1725	1725	1725	1725	1725	1725	1725
	Tumbler Dr H.P.	1/2	1/2	1/2	1 1/2	1 1/2	1	2@1	2@1
	- RPM	1725	1725	1725	1725	1725	1725	1725	1725
	Dust Coll H.P.	3	3	3	3	3	3	5	2@3
	- RPM	3450	3450	3450	3450	3450	2265	1980	2265
	F/L Amps - 220v	61.6	61.6	61.6	64.6	64.6	117.2	177.8	234.4
	- 440v	30.8	30.8	30.8	32.3	32.3	58.6	88.9	117.2

GTK Cylinder Collar Tool Kit

GTK Cylinder Collar Tool Kit

The **GTK**, **Galiso Cylinder Collar Tool Kit** makes cylinder collar replacement easy because of loose collars, worn cap threads and recently, the high number of ownership changes. The Galiso Cylinder Collar Tool Kit has been carefully engineered to streamline the process of cylinder collar maintenance

FEATURES

- One man can remove and replace up to sixty collars per eight hour shift.
- These tools can be purchased separately or in the GTK kits.
- Both the GTK-8 and GTK-10 include the CRT-1 Collar Removing Tool, Foot pump the CCR-75" M-Pactor", the NDS-5 De-scaling Tool, the
- NPT-1010 Collar Attachment Tool and the GLS-12 Cylinder Turntable.
- The GTK-10 also contains the CST-2 Collar Sizing Tool in addition to the tools listed above.
- Both kits include a heavy duty tool storage box, face shield, ear protector headset, leather gauntlet gloves, tools, and connections and spray lubricant for safe operation and maintenance of the collar tools.

OPERATIONS

• Galiso air powered Collar Tools, provide easy operation, concentrated force and maximum safety. The GTK is a profitable addition to any cylinder service facility.

CRT-1 Collar Removing Tool

The **CRT-1** is a tool deigned to remove steel collars from a cylinder within 30 seconds, by use of hydraulic ram force.

FEAUTURES

• The CRT-1 is provided with a lifting eye for use with an overhead hoist. **Note:** The CRT-1 requires the Galiso 10,000-PSI Turbo Air Foot Pump to operate.

OPERATIONS

- Place the CRT-1 over the collar to be removed rotating the CRT-1 counter-clockwise and clockwise to ensure seating on the collar.
- Apply hydraulic pressure to the CRT-1 by actuating the 10,000psi foot pump, extending the ram and removing the collar.
- Lift the CRT-1 and extracted collar off the cylinder and move the release handle outward to release the collar from the CRT-1

Dimensions	
Air Requirements	See Galiso 10,000PSI Turbo Air Pump, (foot pump)
Operating Pressure	
• Weight	
• Warranty	





NDS-5 Cylinder De-Scaling Tool

The **NDS-5 Cylinder Neck De-Scaling** tool is a fast and effective means for removing corrosion and scale from the exterior of compressed gas cylinders.

FEATURES

- Pneumatically driven de-scaling needles rapidly chew away rust and scalefrom the cylinder neck/collar area leaving a bare metal surface, ready to be repainted.
- The NDS-5 can also be used to remove paint from cylinder exteriors to reveal cylinder data, or as medium duty impactor to vibrate loose seized threaded assemblies.

OPERATION

• THE NDS-5 is easy to operate. Simply position the de-scaling needles on the surface of the cylinder you wish to remove rust, scale, or paint from and squeeze the handle.

SPECIFICATIONS:



Dimensions	15"L X 2 1/2"W X 2 1/2" H
Air Requirements	
Weight	
• Warranty	Six months

CST-2 COLLAR SIZING TOOL

The **CST-2** provides a fast, effective method to conform the height of the collar to properly fit the cylinder neck height. To allow proper attachment of the collar to the cylinder.

FEATURES

• The CST-2 uses a hydraulic ram to stretch or crush the collar from 1.79" to 2.10" tall without damaging the collar threads. **Note:** The CST-2 requires the Galiso 10,000-PSI Turbo Air Foot Pump to operate.

OPERATION

• To lower collar height place the collar in the non-tapered side of the Stretcher/Crusher Block, positioned in the CTS-2 with the bottom of the collar facing toward the hydraulic ram. To raise the collar height place the collar in the tapered side of the Stretcher/Crusher Block, positioned in the CST-2 with the bottom of the collar facing toward the Hydraulic Ram. When activated, this will stretch the cylinder collar to the desired height.



Dimensions	12 3/4" L X 6 1/2 W X 7 5/8" H
Air Requirements	See Galiso 10,000PSI Turbo Air Pump, (foot pump)
Operating Pressure	
Weight	
Warranty	Six months

CCR-75 Cylinder Swaging Tool

The **CCR-75 Cylinder Neck Swaging Tool** is a "M-Pactor" multipurpose, impacting device with many applications in the compressed gas industry. When servicing cylinder collars, the CCR-75 reshapes the distorted metal that is left around the cylinder neck after the removal of the collar.

FEATURES

 The CCR-75 will also perform a variety of tasks not related to collar maintenance such as loosening cylinder caps, valves, pipe joints, and other threaded assemblies, which have become corroded or frozen in place.

OPERATION

• The CCR-75 is placed over the cylinder neck and slowly rotated 360 degrees, while hammering back the metal around the top edge of the neck, to allow the new collar to be slipped into place.



SPECIFICATIONS

•	Dimension
•	Air Requirements
•	Weight Six months

NPT-1010 Collar Attachment Tool

The NPT-1010 speeds cylinder collar maintenance by rapidly installing the collar on the cylinder neck.

FEATURES

- The NPT-1010 uses a lightweight air driven ram to securely attach the collar in less than one minute.
- The NPT-1010 is adjustable to fit 1/2" and 3/4" and 1" NPT cylinder neck threads. Adapters
 to fit other size neck threads are available from Galiso.

FEATURES

- Position a pre-sized collar on the cylinder neck and insert the NPT-1010 into the cylinder opening.
- Activate the pneumatic ram to rapidly peen the outer edge of the cylinder neck over the inner lip of the collar. This creates an even, professional looking attachment which holds the collar in place on the cylinder neck.

- Dimensions 14 1/2"L X 7"W X 2 1/2"
- Air Requirements 90psi clean filtered air
- Warranty Six months





GMAH Galiso Mini Air Operated Hoist

The GMAH (Galiso Mini Air Operated Hoist) is an air driven hoist that is preferred to meet the high production rate of the Recortest III Test System, and is also ideal for the Recortest/Open and the GTC Test Systems.



Features

- The GMAH comes with a standard 10 foot chain assembly.
- The GMAH Hoist Assembly includes a chain container and pendant control
- The GMAH is capable of lift speeds up to 130 feet per minute.
- The GMAH has a 100% Duty Rating
- Very Low Headroom, and Variable Speed Control
- Patented Wear Resistant Brake System

Specifications

•Dimensions	. (incl. Hooks) 15 3/8" L x 6" W x 5" H
Dimensions	Lift Chain: 10 feet
Air Requirements	
Model Numbers: GMAH-275, 0 Maximum Rated Capacity: 275	GMAH-550, GMAH-1100, GMAH-2200 5 lbs., 550 lbs., 1,100 lbs., 2,200 lbs



The World Class Hydrostatic Cylinder Test Facility

At the heart of the modern hydrostatic test facility is the patented **Recortest III Automated Test System** from Galiso, Inc. Along with a full complement of technologically advanced support equipment, one will obtain unbeatable testing speed, accuracy, and simplicity of operation. With the benefit of Galiso's test systems one can truly maximize the number of cylinders tested—each and every shift.

Every Galiso component is engineered and manufactured to be highest quality standard thus ensuring trouble free operation. When operational, service, or equipment training questions arise, Galiso has the best Customer Support group in the industry—ready to help you!

The Complete Galiso Test Facility Begins with the Recortest III System and is Supported by:

- GVM-16G High Speed Turn air Valving Machines
 - RCSG or CFS Automatic Cylinder Filling Systems
 - GAH Air Operated Hoist
 - PCT Cylinder Inverter and Drier
 - ISB Internal Shot Blasting and VST-9 Tumbling Systems
 - External Shot Blaster
 - Opti-Life Inspection Light Kit
 - GTK Cylinder Tool Kit

Suggested Test Pit Layouts

Before installing hydrostatic testing systems for compressed gas cylinders, Galiso suggest facility preparations similar to the following basic pit configurations for optimum performance.



Illustration 1

Suggested for a standard tall test jacket installation, with ample room to add a second test jacket at a later date without additional construction cost.



Illustration 2

This extended pit is for a standard tall test jacket(s) installation, but accommodates the PCT Inverter Drier series with a dump area, complete with steam barrier.

Hydrostatic Equipment Set-Up Checklist

Please consult the <u>Systems Selection Guide</u> and complete the Hydrostatic Test Systems Survey to help us evaluate your needs.

To Keep On-Target Use This Handy Checklist

- 1. D Place System Order
- 2. Schedule Installation and Training
- 3. Contact D.O.T. for Application
- 4. Order 49 CFR Booklet, Parts 100-185
- 5. Order CGA Pamphlets
- 6. Complete Function Specific Hazmat Training
- 7. Schedule IIA Inspection

- 8. Test Pit Completed
- 9. 🛛 Air, Water, Electrical in Place
- 10. Set-up and Operator Training Completed
- 11. On-Site IIA System Inspection
- 12. \Box Submit Application to D.O.T.
- 13.
 Receive Retest Identification Number
- 14. Hold Open House!

Customer Service.

Galiso Customer Service Department is renowned for its dedication to customer support, employing five full-time customer service representatives. Occasionally you may have a question regarding compliance or an operator may have some difficulty with a particular cylinder.

By phoning Galiso, Inc. there is immediate help and direction to get you back on track. Our Customer Service Department will step you through a procedure, analyze and troubleshoot a problem, and offer the solution.

We are pleased that you have chosen Galiso, Inc. products for your test system and we are ready to provide qualified assistance. As your partner, we can help you make informed decisions about your future. We pledge to you our full support in getting you started on the right foot and staying with you in the future.

THE IMPORTANCE OF SET-UP AND TRAINING

To ensure customer satisfaction and minimize start-up difficulties, our policy is to include set-up and training with each automated system sale.

This procedure is user proven, and when your system is professionally set-up, trouble-free performance ensures a faster return on investment.

Purchasing a Galiso automated test system or Galiso's new manual test system represents a major step forward for companies that have hydrotested with the old manual systems for many years. Upgrading to this technology means better productivity, greater accuracy, and eliminations of calculation errors in test results.

To accomplish this, Galiso Inc. has introduced electronics and computer automation into the process. Experience convinces us that regardless of the level of competence with the hydrostatic process, and the understanding of computers, using this modern test process is greatly enhanced with proper set-up and training by Galiso's technical field staff.

Galiso Inc. is committed to furthering its dominant role in this industry through the manufacture of quality products that bring productivity to our valued customers. Customers are vital to this commitment, and set-up and training is an integral part of serving our customer.

COMMITTED TO SERVICE AND CUSTOMER SUPPORT!!!

Customer Support

Galiso's Customer Service Department is renowned for its dedication to customer support, employing five full-time customer service representatives. Occasionally, you may have a question regarding compliance or an operator may have some difficulty with a particular cylinder. By phoning Galiso, Inc., there is immediate help and direction to get you back on track. Our Customer Service Department will step you through a procedure, analyze and troubleshoot a problem, and offer the solution.

We are pleased that you have chosen Galiso, Inc. products for your test system and we are ready to provide qualified assistance. As your partner, we can help you make informed decisions about your future. We pledge to you our full support in getting you started on the right foot and staying with you in the future.

The importance of set-up and training

To ensure customer satisfaction and minimize start-up difficulties, our policy is to include set-up and training with each automated system sale. This procedure is user proven, and when your system is professionally set-up, trouble–free performance ensures a faster return on investment.

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Galiso Inc. is committed to furthering its dominant role in this industry through the manufacture of quality products that bring productivity to our valued customers. Customer support is vital to this commitment, and set-up and training is an integral part of serving our customer.

Committed to service and customer support



Chris Storeng



Steve Hallenborg



Scott Morton



Ricky Wright



Timothy Coughlin Catalog 2007 Home



Section 5

Sales Support and Planning

The World Class Hydrostatic Cylinder Test Facility Galiso Test Systems Selection Guide Hydrostatic Equipment Set-up Checklist Suggested Test Pit Layouts Hydrostatic Test System Survey Leasing Opportunities



Sales, Jon Davignon



Sales Manager , Ray Lesniewski

Galiso, Incorporated

Toll Free: 800/54-3789 Phone: 970/249-0233 Fax: 970/249-0607 E-mail: <u>Sales</u> Web: <u>www.galiso.net</u>

Leasing Opportunities

You can now buy a <u>complete</u> test system with support equipment for under \$16,000. Galiso, Inc. can arrange a third-party lease program tailored to the term and cash flow needs of your company.

OVERCOME BUDGET RESTRICTIONS - Obtain the equipment you need when you need it. Eliminate large down payments!

100% FINANCING - not 20% or 30% down. Let your working capital do what it does best: WORK!

LEAVES BANK CREDIT LINES UNDISTURBED - The credit benefit that doesn't affect your credit!

LOWER TAXES - The entire lease payment may be deducted as an operating expense! Call our Sales Dept. for a review of how leasing can benefit your firm and talk with your accountant about recent government tax incentives. Leasing now is a wise way to maximize your dollars.

HEDGE AGAINST INFLATION - Use the equipment at today's cost while meeting your payments with tomorrow's inflated dollars.

EASIER WAY TO OBTAIN CREDIT - Up to \$75,000 with application only: approved within 24 hours.

FIXED PAYMENTS - With leasing, there is no uncertainty over a floating rate. The monthly payment is fixed and will not change, regardless of future economic conditions.

Look at these examples: low monthly rates: (3 year term - \$1 buy-out)

Purchase Amount	Monthly Lease Rate*
\$10,000	\$343.00
\$15,000	\$515.00
\$20,000	\$687.00

*Subject to current interest rates

(To estimate the cost of a 36 month lease, use this formula:

Equipment cost \$13,750 X \$36.00 per \$1,000 = \$495.00 per month (Rates DO CHANGE)

Galiso, Inc. maintains a relationship with reputable, leasing agents who know and appreciate our equipment and are eager to serve your needs. Please contact our Sales Department to make sure you have included hardware, peripherals, software, and freight charges to determine the actual cost to be funded.

To learn more about leasing with DIMENSION FUNDING, LLC, visit their website at: <u>http://www.dimensionfunding.com/</u> or

please call Naomi McComb at 800-755-0585 ext. 212 // Email: <u>nmccomb@dimensionfunding.com</u> <u>Click here to fill out a Dimension Funding Lease Application Form or Click on there logo below:</u>



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Galiso Test Systems Selection Guide

System	Test Console Type	Test Jackets	Nominal Test Rate	Test Log
Rec 4 - Jacket System	Computer Controlled FULLY-Automated Testing	2 To 4 12 To 36 Inch. Dia.	25 To 30 Cylinders per hour	Printed
Rec 4 - Open Test System	Computer Controlled SEMI-Automated Testing	1 To 2 12 To 36 Inch Dia.	10 To 15 Cylinders per hour	Printed
GTC 10K	Manually Controlled Testing	Single. 12 To 36 inches Dia	6 To 8 Cylinders per hour	Manual *

NOTES:

Software: Both Recortest Test Consoles contain software to compute expansion calculations, notify the operator that the cylinder passed or failed, and prints out a complete and accurate test log of daily test results.

* The GTC Test Console is available with an optional *Hydrolog* software package to use with a customer supplied PC and printer. Information taken from the console is keyed into the PC to perform expansion calculations, indicate test results, and provide a printed daily Test Log.

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Galiso, Inc.® 1-800-854-3789/+970-249-0233

Hydrostatic Test System Survey

YOUR COMPANY:			
LOCATION:			
CONTACT:			
PHONE:		FAX:	
	Are you presently using a l	nydrostatic	test system?
MANUFACTURER:	MODEL:		YEAR:
TEST JACKET(S): DIAM	ETER:	_ LENGTH:	
YOUR PIT DIMENSIONS	ARE: LENGTH:	WIDTH: _	DEPTH:
CURRENT MAXIMUM NU	JMBER OF CYLINDERS TESTED	PER HOUR:	HOUR:
PROJECTED MAXIMUM	NUMBER OF CYLINDERS TESTE	D PER HOUF	R, PER DAY:
HOW MANY CYLINDERS PER H	OUR OR PER DAY DO YOU WISH	TO TEST	
WHAT IS THE TALLEST CYLIND	ER IN INCHES YOU PLAN ON TE	STING	_ WHAT IS THE DIAMETER
Check e	each of the following cyl	nders tha	it you will be testing:
Check e	each of the following cyl	nders tha	n t you will be testing: MINUM
Check of OXYGEN	each of the following cyle	nders tha	NINUM
Check of OXYGEN SCUBA	each of the following cyle STELL MEDICAL "D & E ARGON	nders tha	It you will be testing: MINUM FIRE EXTINGUISHER CO2
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What other support equiptment do you currently have?_____

Cylinder Dryer?_____ Cylinder Vice?_____ Cylinder Valver-De-Valver?_____

Diameter	Thread (NPT, BSP, etc)

Total dimensio	ons of test area	(length and width)		
DO YOU HAVE A	WATER HEATER	RINSTALLED? □Yes □No		
HEATER MAXIMU CAPACITY (GALL	JM TEMPERATUR ONS)	RE (180° F REQUIRED)		
DO YOU HAVE A	N EXISTING COM	IPRESSOR? □Yes □No		
			lf ye	es, Maximum PSI
			Max	ximum SCFM
			Hor	rsepower
neumatic Sup	ply			
Nitrogen 🛛 🗌 Yes	s 🔲 No	CO2 🗌 Yes 🗌 No	Workshop	oAir ⊡Yes ⊡No
Electrical supply _		Cycles (Hz)		
Amps	Volts	Phase		_

Note: On rare occasions Radio Television Towers can cause interference with the Load Cell or Transducer on Computerized Equipment. Are there towers within 1/2 mile of you facility? Yes No

Thank You Again!

INDEPENDENT INSPECTION AGENCIES

DOT Cylinder Requalification Program, August 2001

(1,2,3,4) Arrowhead Industrial Services, Inc.

Mr. T. F. Vassallo Ph: (252) 237-6663 Mr. John P. Vassall Ph: (336) 578-2777 Fax: (336) 578-2929 3537a S.N.C 119 Graham, NC 27253

(1,2,4) T.H. Cochrane Laboratories, Ltd.

Mr. P. A. Harris Mr. John A. Harris Ph: (414) 476-2500 Fax: (414) 476-2542 5803 Wext National Avenue Milwaukee, WI 5321-3491

(1,2,4) Cylinder Services, Inc.

Mr. Russell Stading Ph/Fax: (262) 827-0422 15270 Westover Road, P.O. Box 52 Elm Grove, WI 53122

Robert W. Hunt Company

Mr. Gregory F. Rzonca Ph: (630) 691-4333 580 Waters Edge, Oak Creek Center Lombard, IL 60148

(1) Hydrostatic Pressure Testing

- (2) Acetylene Cylinder Requalification
- (3) Acoustic Emission and Ultrasonic Testing under exemptions.
- (4) DOT 4 Series Cylinder Repair/Rebuild

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(1,2,3,4) Steigerwalt Associates

Mr. E. E. Steigerwalt Ph: (610) 437-1704 Fax: (610) 437-4545 1121 South 24th. Street Allentown, PA 18103

Professional Services, Icn.

Mr. David A. Dunn Ph: (630) 691-1490 1901 S. Meyers Rd, Ste. 400 Oakbrook Terrace, IL 60181

Galiso, Incorporated Building Success One Customer at a Time



For the convenience of our customers, Galiso Incorporated accepts payment by:

Master Card, Visa and American Express



If you wish to pay by Credit Card please let us know at the time the order is placed! Customer Must Specify Exact:

- Account Number
- Expiration Date
- Name as it appears on the card
- Interbank Number, if shown

Credit card Shipments can be made to a street address only.



Notes

Notes

Galiso Inc.





22 Ponderosa Court • Montrose, Colorado 81401 P.O. Box 1468 • Montrose, Colorado 81401 1-800-854-3789 • (970) 249-0233 • fax (970) 249-0607 email: <u>Sales</u>• web: www.galiso.net