



SOLUTION

High Pressure Technology

40
ANS / YEARS
2020 !



HEBDRAULIQUE®
HIGH PRESSURE TECHNOLOGY & HOSE ASSEMBLY SYSTEMS

Always give
people
MORE than
what they
expect to
get



SERVICES

State-Of-The-Art After-Sales Service



- ✚ Maintenance
- ✚ Repairs
- ✚ Calibration
- ✚ Spare Parts
- ✚ Training
- ✚ Project Management
- ✚ Rentals
- ✚ Pressure Testing



ABOUT US

Hebdraulique has been established in Montreal, QC since 1980. With 11 service centers and over 40 sub-distributors, we have gained considerable experience in the field of hose assembly systems.

We source machines and equipment worldwide from leading manufacturers in the industry. We aim to offer to our clients the best value for money on the market, alongside the best after-sales service.

Our mission is to meet and exceed our customers' expectations in making their daily operations easier.

1 TEST



2 CONTROL



3 COMPONENTS



The company

Resato is a Dutch provider of smart high pressure solutions with the aim to increase the productivity of its worldwide customers. It is our mission to meet and exceed the expectations of our customers. With more than 25 years of experience in high pressure technology, we are equipped with the knowledge to provide reliable and safe solutions. Our product range includes high pressure technology waterjet cutting systems as well as components and systems for testing, injection, controlling that operate up to 14,000 bar. On the road to a greener future we have further extended our product range with hydrogen refueling stations, boosters and testing systems. You can find Resato products in the oil & gas industry, hose industry, glass industry, mining industry, automotive industry, aerospace industry, and many more.

High pressure technology

With high-pressure technology, high force is applied to a certain surface. With selection of fluids as a medium, a pressure of up to 14,000 bar can be used. A common application is the testing of objects with regards to working and or burst pressure. Pressure testing is not the only application where high pressure is used. Our product and application ranges include various components and systems for pressure testing, injection, filling, compression and controlling. We are active in several markets, for example the oil and gas, hose testing, automotive, public sector and general industry.

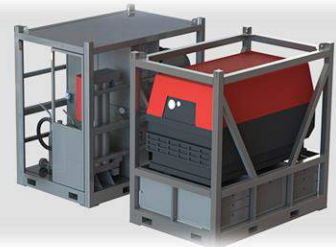


Pressure Testing

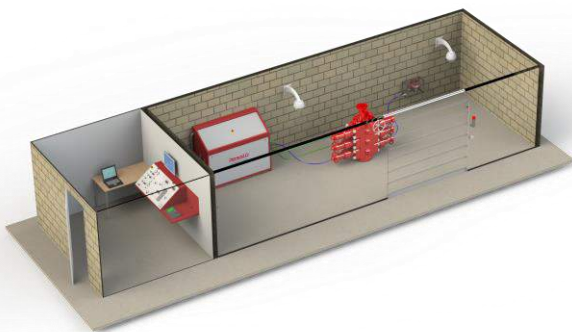


In pressure testing, the safety and integrity of components is tested. A gas or liquid is used to test the components. There are three types of tests: a leak test, a proof test and a burst test. A leak test indicates weaknesses in the product design and points out any cracks or holes. A proof test is used to determine the manufacturing or assembly quality and reliability of a product. A burst test shows the pressure at which a product fails. Hebdrraulique supplies various systems and components to carry out these pressure tests.

FIELD PRESSURE TESTING



TEST BAY & PRODUCTION WORKSHOP



LIGHT WEIGHT PORTABLE MINI PUMP type MPS



The MPS is a handy portable air driven mini pump that can be easily carried, even on stairs, because of its weight (less than 17 kg with a filled tank) and size (405x308x365 mm).

Although this mini pump is small and low in weight it is very suitable for the pressure testing of objects for pressure ranges up to 1800 bar at 7 bar air drive pressure and 2500 bar at 10 bar air drive pressure. Through its pressure supply capacity, it is possible to manually drive the pump through a detachable hand lever if you are in a situation when air pressure is not available. The medium for pressurizing objects with this test system can be a fluid such as water or oil.

KEY FEATURES

- ⊕ Light weight, easy to carry
- ⊕ Suitable for pressurizing oil, water or other fluids
- ⊕ All operating features panel mounted
- ⊕ Several pressure ranges available
- ⊕ All parts are made of non-corrosive materials
- ⊕ Air and hand lever operation

PORTABLE HIGH PRESSURE POWER PACK type RPS



Resato's portable power pack type RPS is a self-contained air-driven unit of proven design.

Not only can it be used to pressurize valves, fittings, hoses, piping, vessels and wellhead equipment, but it is also suitable for supply of hydraulic power to operate cylinders, presses, rams, jacks, bolt tensioners and actuators. Water, oil or an emulsion of both can be used as the high pressure medium. Other applications such as chemical injection can be carried out as the unit is suitable for a wide range of chemicals. The portable power pack is available with direct water feed or with integrated reservoir. The RPS as standard is available in 14 pressure ranges in a single-acting or double-acting pump configuration. As an option, the units can be fitted with a chart recorder. The resultant chart can be used as a test certificate.

KEY FEATURES

- ⊕ Portable and easy to move
- ⊕ Modular design
- ⊕ Suitable for pressurizing oil, water or other fluids
- ⊕ Atex version available
- ⊕ Panel mounted operating features
- ⊕ Stainless steel wetted parts
- ⊕ Pressures up to 4200 bar / 60,000 psi
- ⊕ Flow up to 50 l/min
- ⊕ Stainless steel frame

HIGH FLOW HIGH PRESSURE PUMP type BMS



When you have to test objects on different locations within your workshop, the mobile pump system BMS gives you the possibility to test adequately on different sites.

Through its wheels (or forklift pockets) the BMS can in comparison to a workshop unit more easily be moved. Which gives you the opportunity to be flexible in the layout of your workshop. Furthermore, the pump system is an ideal pump to adapt to your specific requirements for testing large volumes at high pressure. The BMS is often equipped with two air driven pumps. Hence, if you want to speed up your operation process by testing objects more quickly a high flow low pressure air driven pump can be added to the high flow high pressure pump that is standard part of the BMS.

KEY FEATURES

- ⊞ Mobile pressure unit
- ⊞ Robust design
- ⊞ Suitable for pressurizing with oil, water or an emulsion of both
- ⊞ Modular design with numerous options
- ⊞ Max. flow up to 50 L/min
- ⊞ Max. pressure 3650 bar/52,200 psi
- ⊞ Stainless steel construction
- ⊞ All parts are made out of non-corrosive materials

PORTABLE AIR-DRIVEN GAS BOOSTER UNIT type DBS



Resato gas booster units type DBS can be used for gas filling and pressure testing.

Compressed air used as a power drive offers enormous advantages over use of other power drives: risk of excessive heat, flame, spark or shock are reduced considerably.

KEY FEATURES

- ⊞ Suitable for a wide range of gases
- ⊞ Long working life of seals
- ⊞ Proven reliability under severe conditions
- ⊞ Excellent control of flow and output pressure
- ⊞ Low noise level
- ⊞ Easy, low costs maintenance.
- ⊞ Single-acting, double-acting or two-stage gas booster
- ⊞ Bleed valve
- ⊞ Output pressure gauge, stainless steel 100 mm
- ⊞ Start stop valve
- ⊞ Air regulator.

OPTIONS

- ⊞ Pneumatic high pilot valve
- ⊞ Pneumatic low pilot valve
- ⊞ Gas supply valve
- ⊞ Gas supply gauge
- ⊞ Inter stage gauge.
- ⊞ Air relieve valve in air supply
- ⊞ Common leak hole connection
- ⊞ Atex

RESATO-WIT HP PUMP SKID type AIR 15K 10-1

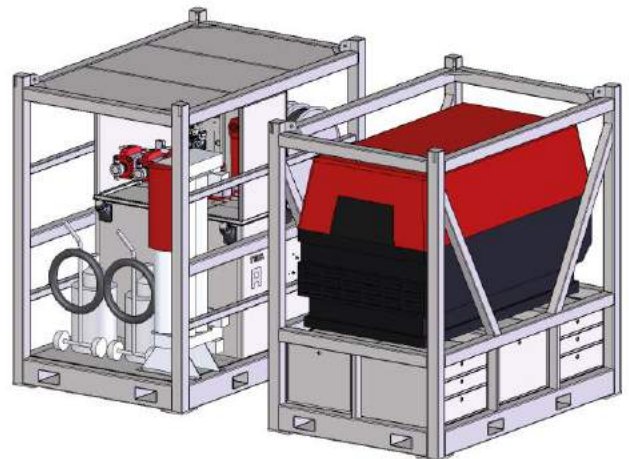


The RESATO-WIT SKID type air 15K 10/1 is an air driven multipurpose pump unit. It can pump fluids between high volume, 40 LPM / 10 GPM at low pressure 1,000 psi and low volume, 4 LPM / 1 GPM at high pressure 15,000 psi.

It is used in the energy industry for hydraulic pressure testing of tubular, annuli, valves and wellhead equipment to equalize pressures, flush valves, pump chemicals, and more. It is also suitable for the supply of hydraulic power to operate cylinders, actuators, presses, rams, jacks, hydraulic bolting systems and air tools. Fluids can be pumped such as, Water, KCL Water, Water Glycol, hydraulic oil. Other applications such as flushing or chemical injection can also be carried out as the unit is suitable for a wide range of chemicals. The RESATO-WIT HP PUMP Skid type air 15K 10/1 has direct fluid feed capability from i.e. IBC containers or from the three integrated stainless steel reservoirs of 2 x 500 litres / 2x 3 bbls, and 1 x 200 litres / 1.25 bbls. The unit has 2 HP fluid hoses, one for water based fluids and one for hydraulic oil and one LP air hose. The hoses are 20 meter (65ft) long (or as requested) and fitted on reels. A specific area for the grease and sealant pumps, drums and dollies and a small overhead crane is integrated in the pump unit.

KEY FEATURES

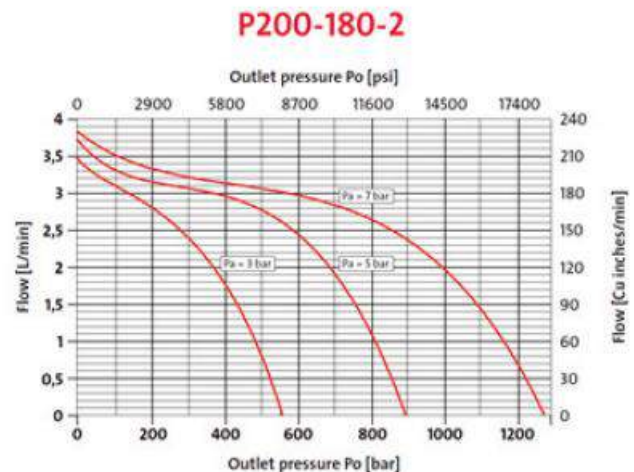
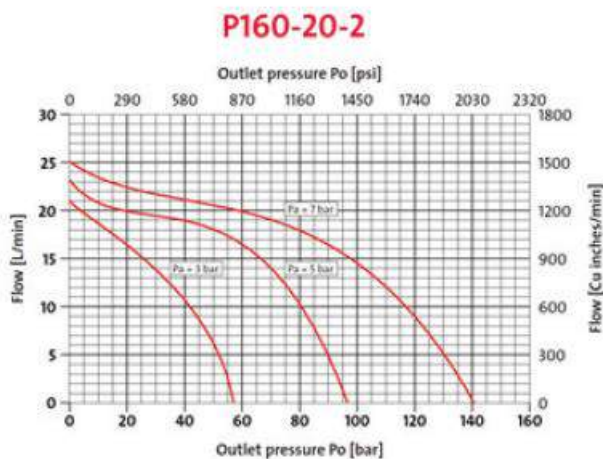
- ⊞ Skid mounted for on- and offshore use
- ⊞ Built-in large toolboxes and grease storage
- ⊞ Practical, easy and safe to operate
- ⊞ Rugged build, easy to maintain
- ⊞ Maximum weight of 2,500 kg per module
- ⊞ Pump module is ATEX, Zone-2
- ⊞ M1 -AMA- Skid size 125" x 96" x 96"
- ⊞ DNV certified
- ⊞ Stainless steel wetted parts



PUMP CURVES

Supply of each double acting pump P160-20-2 & P200-180-2 at 7 bar air supply

The unit contains 2x P160-20-2 pumps and 2x P200-180-2 pumps fed by a 6m³/min 12 bar compressor



SAFETY VALVE TEST KIT type SCSSV test kit



Resato's portable SCSSV test kit is a custom-made solution for testing and actuation of safety valves and tubing reels on-site.

With the manual operated handpump, several objects can be pressurized and monitored on-site without any external power or air supply. Stainless steel wetted parts allow use of both water & mineral oil type fluids. The test kit is a plug & play system for controlling and logging safety valves via the control-line. All test kit components are connected via the Resato quick connector series. The test kit is available in different pressure ranges and can be equipped with two digital gauge types. Both digital gauge types are battery-fed, Atex approved and have different logging functions.

KEY FEATURES

- ⚡ Mounted in a heavy-duty watertight case
- ⚡ Suitable for pressurizing oil, water or other fluids
- ⚡ Designed for use in the field
- ⚡ Manual controlled
- ⚡ Battery-fed pressure logging
- ⚡ Pressures up to 1000 bar / 15,000 psi
- ⚡ 5 liter built-in tank
- ⚡ Robust plastic Pelicase
- ⚡ 1/4" & 3/8" Swage connection adapters
- ⚡ Atex approved components

RESATO COMPUTER RECORDER type RCR / RCR-USB



The Resato plug and play PC data acquisition and recording system, converts pressure transmitter signals into a real-time pressure measurement.

The included software is effortless to use with the intuitive HMI layout. Within the software it's possible to enter customer data and object data and data can also be saved to the RCR database for quick recall. The pressure is real-time displayed in an onscreen auto scaling graph. After a pressure test the system converts the data automatically to a PDF test certificate or .CSV file.

KEY FEATURES

- ⚡ Plug and play solution
- ⚡ USB connection to laptop / PC
- ⚡ Rugged system housing
- ⚡ Multiple sensor connections



SOFTWARE KEY SPECIFICATIONS

- ⚡ Automatic data export to Excel
- ⚡ Automatic PDF test certificate (customable)
- ⚡ Object and customer database
- ⚡ Real-time onscreen auto scaling pressure graph
- ⚡ Crosshairs function for graph analysis
- ⚡ Sampling reduce function

GAS HIGH PRESSURE WORKSHOP TEST SYSTEM type HBU/HBU-sep/HBU-CC



For testing objects with gas pressure Resato has developed the HBU test system.

The HBU is similar to the HPU. Only instead of testing with hydraulic pressure, the HBU tests objects with gas pressure. Like the HPU, the HBU has a solid workshop design that can be integrated in your production process. As a result, the HBU is benefitting the cycle times of your operation process. For even more efficiency the system can be equipped with an automatic operation system alternatively to manually operating the HBU. For an automated pressure cycle performance, one can install an optional process controller with touch panel.

KEY FEATURES

- ⊞ For gas pressurization
- ⊞ Suitable for various test mediums
- ⊞ Robust modular design with numerous options
- ⊞ Possible to integrate in your production process
- ⊞ Panel mounted features and gauges
- ⊞ All main components made by Resato
- ⊞ Fully traceable materials for all high pressure parts and components
- ⊞ All parts are made of non-corrosive materials

HIGH PRESSURE WORKSHOP TEST SYSTEM type HPU/HPU-sep/HPU-CC



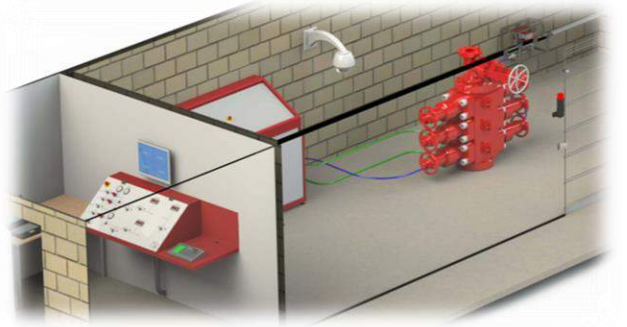
The HPU-Series is a high pressure pump system for workshop applications that require high pressures up to 5,000 bar / 72,000 psi. Its range of add-ons makes it a flexible system for pressurizing many fluids.

The application areas span from pressure testing activities on valves, relief valves, safety valves, hoses, piping systems, well head components, hydroforming, and other high-pressure applications.

KEY FEATURES

- ⊞ Ergonomic, safe and user-friendly design allows for healthy use and quick training.
- ⊞ Low noise level.
- ⊞ Suitable for various testing media
- ⊞ Flexibility in scaling production through modular setup the system.
- ⊞ Integration in customer processes with product options.
- ⊞ All parts made of non-corrosive materials to prevent corrosion in the system.
- ⊞ Easy and low-cost maintenance
- ⊞ Proven reliability due to selected components that harmonize together.
- ⊞ Output pressure control is achieved by regulating the air-supply pressure with the panel mounted air regulator(s).

WORKSHOP TEST UNIT type HPU-sep / HBU-sep

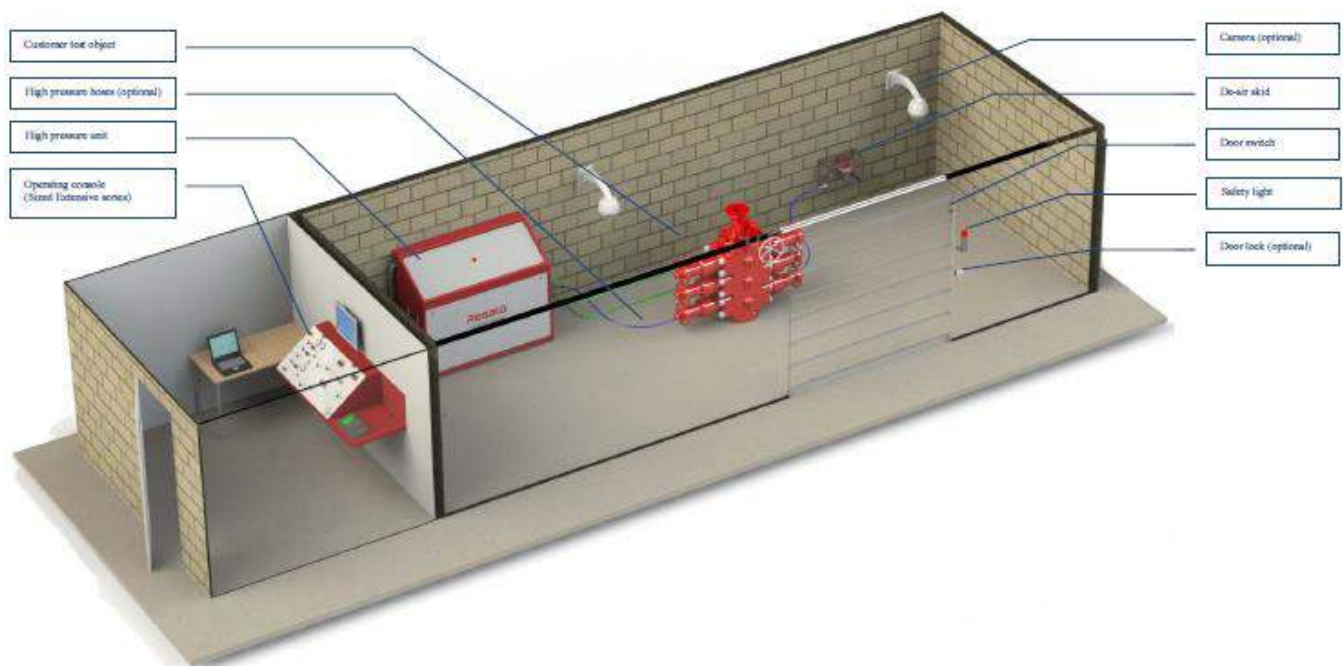


Wherever high pressure testing (with fluid or gas) is required with maximum safety, a Resato workshop test type separated will provide it. By having the high pressure unit separated from the operating panel combined with the other safety features like door switches, emergency stop buttons, etc. A reliable and safe solution is designed for pressure testing of objects ranging from iron to safety valves and BOP's.

KEY FEATURES

- ⊕ Fully separated setup (no high-pressure components outside the test bay)
- ⊕ Emergency stop button
- ⊕ A unit mounted safety light indicates pressure build up
- ⊕ Door safety switches
- ⊕ Remote de-airing (Basic+ excluded)
- ⊕ No test bay entrance for pressures > 300 psi
- ⊕ Engraved operating panel
- ⊕ Wall mounted operating panel which allows a chair to roll under.
- ⊕ Hoses, hose reel, adapters and quick connectors
- ⊕ Door locking actuator
- ⊕ Override switch for test bay entrance (one or multiple test bays)
- ⊕ Extra flashing lights
- ⊕ Pre-fill system
- ⊕ Interchangeable calibration solution
- ⊕ Camera systems
- ⊕ Others on request

SYSTEM OVERVIEW



CONTAINERIZED PRESSURE TEST BAY (40-80 ft) type PPU**-S3(-OPEN)



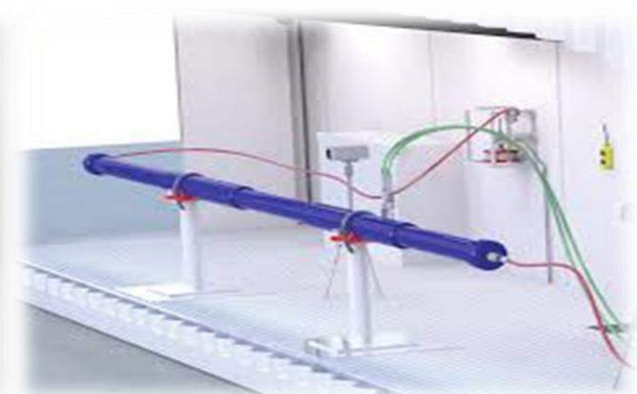
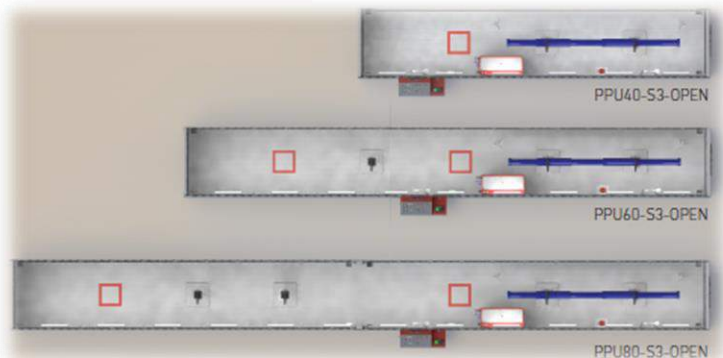
The Resato containerized pressure test bay allows pressure testing equipment on site up to 38 ft object length. The enclosed version allows pressure testing without the need of building a pressure test bay. With the open top version, the test bay can be placed inside the workshop and contains all the required safety features without rebuilding the workshop. By use of the extension modules, the test bay can be extended up to 58ft or 78ft.

The dedicated designed high pressure test system allows both hydraulic function tests on tools, as hydrostatic body tests, all operated from outside the pressure test bay. With the open top version, positioning the tool in the test bay is performed by means of the workshop overhead crane. Spilled test fluids are captured and collected by an integrated grid floor in the test bay. An optional filtration system in combination with reservoir allows recycling of the test medium. This complete pump circulation system is able to handle a wide range of fluids.

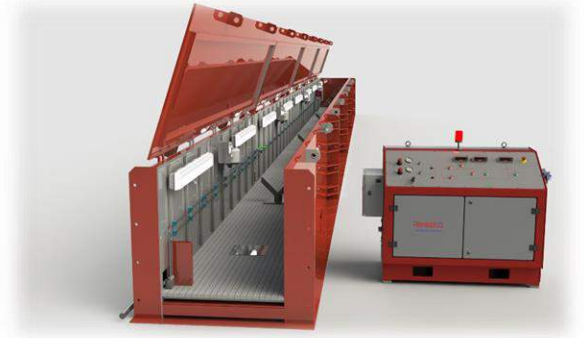
KEY FEATURES

- ⊕ 10mm steel test bay wall with 18 mm plywood lining
- ⊕ Flashing lights
- ⊕ Door switches and door locks
- ⊕ No high-pressure components outside the testbay
- ⊕ Emergency stop buttons both in control room as test bay
- ⊕ Camera system
- ⊕ Object length up to 38ft
- ⊕ Container length 40ft
- ⊕ Optional extension modules 20 ft or 40 ft
- ⊕ CSC certified for top layer
- ⊕ Fully grid floor in test bay
- ⊕ Zinc coating + 2K coat
- ⊕ Multiple positions for operating panel
- ⊕ Air conditioning in control room and test bay (no available for open top version)

SYSTEM OVERVIEW



WORKSHOP PRESSURE TEST UNIT WITH TEST BOX type HPU-TW/LTB5



Resato's thick walled High Pressure Unit (HPU) with modular designed test box allows safe pressure testing of long objects in a workshop. With the modular designed test box, a diversity of objects can be safely pressurized, tested and monitored with minimal loss of valuable workshop space.

The simplicity of counterweight opened lid with door lock and door switch safety system, combined with all high pressure components integrated in thick walled plated steel, ensures a safe test environment for the operator at site.

KEY FEATURES

- ⊞ Safety system with door switches and door locks
- ⊞ Automatic pressure bleed-off via door switches
- ⊞ Double walled side layer with possible sand filling
- ⊞ All high-pressure components in protection casing
- ⊞ Remote de-air functionality
- ⊞ HPU cabinet 6 mm steel plated
- ⊞ Dual layer of 2x 10 mm test box side walls
- ⊞ Manually operated 20 mm lid
- ⊞ Test box end cap 75 mm
- ⊞ Counterweight for easy lid-opening
- ⊞ Rust prevention: Zinc coating + 2K paint
- ⊞ Optional 5 meters test box extension modules

WORKSHOP UNIT Small scale pressure test unit -type DHT / DHTT



Wherever high-pressure testing is required, a Resato workshop test unit with build in test bay, type DHT & DHTT will provide it.

The complete shell is made of 6 mm powder coated mild steel to ensure safety. A bullet proof safety glass window enables full view on the test object whilst pressure testing. A de-airing system ensures that it is only necessary to open the test bay for positioning and removal of the tool.

KEY FEATURES

- ⊞ Tool/object mounting brackets
- ⊞ Controlled bleed function
- ⊞ Interchangeable calibration solution
- ⊞ Alternative pressure ranges
- ⊞ Others on request
- ⊞ Remote de-airing
- ⊞ A clamping mechanism ensures easy mounting of the tool
- ⊞ Panel mounted digital read-outs ensures accurate reading
- ⊞ Ergonomic, safe and user-friendly design
- ⊞ Both high pressure unit and test cabinet are made of 6 mm power coated mild steel
- ⊞ Test bay provided with Ballistic glazing – UL 752 Level 1)
- ⊞ Door switches and locks on the test bay door ensures safe pressure testing.
- ⊞ By use of a build in tank, different tests media can be used.
- ⊞ Measuring accuracy: 0,5% FS

WORKSHOP TEST CABINET type RTC



For testing objects quick and easy within a workshop and under increased safety conditions, the RTC is the right solution.

The RTC is a single workshop test cabinet that can be combined with a separated HPU control system to perform complete pressure tests. The use of two systems has the advantage that you can position the test cabinet in another part of your workshop than the control system. As a result, the operator can control the test cabinet at a distance from the cabinet. The cabinet itself has several safety precautions. The mechanical cover is fully made of an impact resistant window that is automatically locked when the system is under pressure. And an extra alarm light can be installed that warns the operator when it is safe to open the cabinet.

KEY FEATURES

- High pressure workshop test cabinet
- Spacious test compartment
- Compatible with a HPU-sep control system
- Spacious stainless steel test compartment; dimensions 1770x900x180-500 mm (LxWxH)
- Cover lid made of an impact resistant window

WORKSHOP TEST CABINET type RTC-1500



The RTC 1500 is a robust pressure test cabinet for hoses and large objects that is ideal for hose manufacturers and assemblers to perform hydrostatic pressure and cycle tests.

To save time, the cover is pneumatically operated and to guarantee safety needs to be opened by two-hand operation. With its spacious design, hoses can be loaded into the cabinet on pallets reducing loading time significantly. In combination with a hydraulic pressure test system (e.g. Resato HPU), the RTC 1500 becomes a reliable pressure test bench for hoses and large objects. The Resato HPUs are designed to deliver constant pressure to the hose test bench.

KEY FEATURES

- To prevent operator hazards, an air-operated locking
- To reduce overall testing time, the system can be equipped with pre-fill by-pass functionality for quick filling.
- Visual de-air indication is installed to verify that the object is properly de-aired without opening the cover.
- The spacious cover and cabinet ensure easy loading of test compartment with large objects (e.g. pallets) by forklift which reduces time and manual labor.
- The grid floor inside the cabinet ensures clean positioning of test object and simplifies object draining after the testing-cycle.
- To reduce maintenance of the unit, all wet parts are from non-corrosive material to avoid corrosion and pollution

Controlling Filling Injection



Controlling

With controlling, various oil and gas components are managed. Components such as BOP's, wellhead's and valves that control and regulate the back pressure and flow of liquid from the well. Managing these components prevents the borehole collapse or blow-out. If this happens, there are serious consequences for the environment, property and the lives of the people who work on the drilling installation. Controlling systems operate components that open, close, release pressure and circulate fluids. Hebdraulique is your expert for various controlling systems.

Filling

Filling covers two industries. This application is all about filling or refilling a medium at high pressure. In the oil and gas industry this can be applied to pressurize the needed well-components in various stages of well start-up. In industrial processes, accumulators are refilled with liquids or gases. The media from these accumulators are then used to store energy for a variety of high pressure applications.

Injection

Injection has several applications, which vary per industry. In the oil and gas industry, a liquid is injected into a well. This is done to prepare the well for production or inject rust inhibitors. Our equipment is also used to support the injection media into underground storage caverns. Our high pressure equipment ensures that you can inject safely under high pressure and control what and how much is injected.



SINGLE WELL CONTROL SYSTEM type SPP



With the single well control panel SPP you can control a surface or subsurface safety valve.

One of the main assets of the SPP is that the system is equipped with an emergency shutdown (ESD). The ESD mode is controlled by a remote pilot valve and will be activated whenever the pilot pressure is too low. Also, in case of an air (gas) supply failure the ESD mode is activated. Another advantage of the SPP is that the system is designed in such a way that you can manually take-over its main features. The SPP has an air driven pump and a specially designed hydraulic three-way valve. Should the air supply fail or drop too low to operate properly, you can completely operate the safety valve manually with the manual device of the air driven pump and the manual override of the hydraulic three-way valve.

KEY FEATURES

- ⊕ Emergency shutdown (ESD)
- ⊕ Manual operation mode
- ⊕ Self-contained reservoir
- ⊕ Protective cover
- ⊕ Specially designed hydraulic three-way valve
- ⊕ Self-contained reservoir
- ⊕ Reservoir, panel, cover, tubing and fittings are made of stainless steel

WELLHEAD CONTROL SYSTEM type DSTM



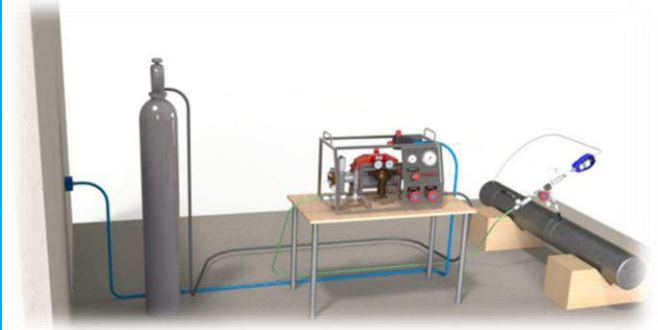
If you are looking for a robust wellhead control system with a strong capacity for controlling components of an oil and gas well, then the DSTM with its two air driven double acting high pressure pumps and two tanks of 100 litres is the right solution for you.

The DSTM is a system that has five hydraulic output control lines (5.000 psi) for controlling a downhole safety valve, a spring returned safety valve, a wire line stuffing box and two BOP's. In addition to its strength, the DSTM provides you with extra backup features like an accumulator BOP backup and a manual backup pump. It also has an audible warning air horn that operates whenever the DHSV, MV, WV or air lines fall below their pre-set pressures. Which benefits reliable and save working operations in the oil and gas environment.

KEY FEATURES

- ⊕ Easy operating via engraved panel layout
- ⊕ Large capacity air-driven pumps
- ⊕ Manual backup pump
- ⊕ Fully stainless steel crash-frame
- ⊕ Accumulator BOP backup
- ⊕ Chemical injection line integrated including large tank and stroke counter
- ⊕ Computer control version available

FORMATION ISOLATION VALVE MANUAL UNIT type FIV-DBS



Resato FIV manual charging and bleed unit

This manual operated unit has been specially designed to pressurise and bleed N2 charged valves like the Schlumberger FIV. The manual operated systems ensure reliable pressure build up and pressure bleed. A battery fed Atex digital measuring manifold logs both object N2 pressure as temperature.

KEY FEATURES

- ⊕ Pressure up to 10,000 psi by use of dual stage booster allowing emptying of N2 bottles up to 300 psi
- ⊕ Build in high pilot valve which stops the booster at set pressure
- ⊕ Build in pressure regulator set at 300 psi. This to charge FIV at transportation pressure
- ⊕ Battery fed data-registration for both pressure and (object) temperature
- ⊕ Plug and play package, including booster, measuring manifold, hoses and adapters

FORMATION ISOLATION VALVE UNIT type FIV



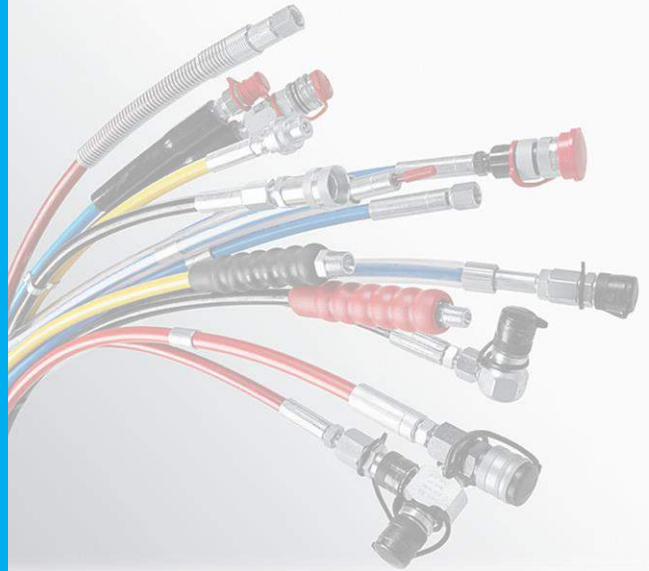
The formation isolation valve (FIV) charging system has especially been designed by Resato to charge formation isolation valves.

Through a fully computer automated operated system you are ensured of a reliable pressure build up and controlled bleed. Its full automation minimises operator error. Furthermore, the design of the FIV is executed in such a way that it still can be operated if the nitrogen, air or power supply fails. Because it includes two nitrogen bottles and a battery pack to operate autonomously for at least one hour. The system is versatile in its medium for charging the valve, because it can operate as well on nitrogen as compressed air.

KEY FEATURES

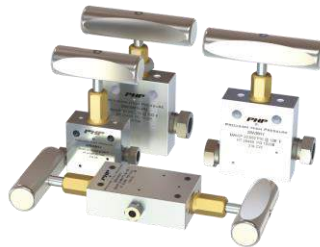
- ⊕ Touch screen operation
- ⊕ Fully automated system to minimise operator error
- ⊕ Automated bleed-down without human intervention
- ⊕ Large capacity air-driven gas booster
- ⊕ Plug and play package, including hoses, adapters and power cable
- ⊕ Data-registration for both pressure and (object) temperature
- ⊕ UPS backup in case power supply fails.
- ⊕ N2 bottle backup in case N2 or air fails.

Components



We source components from premium manufacturers of high pressure components all over the world, we strive to bring the best quality and solution to our market. Components such as pumps and valves are the heart of a system and for a perfect use of any high pressure systems, the accessories around it are essential to complete the task. High pressure is dangerous, so quality of every component in and around the system has to be specified with care. We also have available components & accessories used for industrial, mining, oil & gas, marine applications.

PUMP, BOOSTER & VALVE



HOSE, FITTINGS, QUICK CONNECT & ACCESSORIES



BRANDS



Resato is a Dutch provider of smart high pressure solutions with the aim to increase the productivity of its worldwide customers. It is our mission to meet and exceed the expectations of our customers. With more than 25 years of experience in high pressure technology, we are equipped with the knowledge to provide reliable and safe solutions. Our product range includes high pressure technology waterjet cutting systems as well as components and systems for testing, injection, controlling that operate up to 14,000 bar. On the road to a greener future we have further extended our product range with hydrogen refueling stations, boosters and testing systems. You can find Resato products in the oil & gas industry, hose industry, glass industry, mining industry, automotive industry, aerospace industry, and many more.



CEJN has over 40 years of experience in quick connect coupling technology for high-pressure hydraulics and offers a wide range of products with operating pressures up to 58,000 PSI (4000 bar), CEJN High-Pressure Hydraulic couplings are specially designed for ultra high pressure pumps, rescue equipment and other demanding applications. Presented here are couplings and nipples, hoses, pressure gauges and porting blocks for high-pressure hydraulic applications.



STIKO is known as a reliable partner with an extensive expertise, as a manufacturer of niche products with impeccable quality, and as a flexible and fast supplier. A loyal and motivated team of 50 craftsmen and facilitators is one of the factors that ensure that our "made in Holland" instruments are sold in well over 50 countries around the globe.



HEB is a trademark used by our High Pressure Technology & hose Assembly solution department for high pressure valves, fittings, tubing, and accessories with pressures up to 60,000 PSI. Manufactured by a company with over 60 years of cumulative experience in design and manufacturing of various high tech products. It's specializes in the oil and gas and waterjet markets with typical applications including Subsea & Surface, Chemical Injection Systems, Process Control Systems, Control Panels, Hydraulic Power Units (HPU's), Hydrostatic Test Systems, Water Blasting and Waterjet Cutting.



Intertraco has a fully integrated match mate system of hose and fittings available in different styles and terminations. Hose range from 1/4" one wire braid to 3" 6-spiral. Couplings are available in both two piece and one-piece styles; the assembling can be done with both external/internal skiving or as total no skive.

MINI AIR DRIVEN PUMP type P-80



The Resato air driven mini pump type P80 is available in several pressure ranges.

An optional hand lever makes the pump both air-driven and manual operated. Resato air-driven mini pumps operate on the simple but efficient principle of an automatic reciprocating differential area piston. A relatively large air-operated piston is connected to a smaller high-pressure piston to convert compressed air flow into fluid flow at high pressure.

KEY FEATURES

- ⊕ Low noise level, even at high cycling speed
- ⊕ Easy and low cost maintenance
- ⊕ No mechanical pilot valves
- ⊕ Modern modular design
- ⊕ Choice of 4 different types
- ⊕ Working pressure up to 2500 bar / 36.250 psi
- ⊕ Flow up to 1,57 L/min

HAND-ACTIVED H.P. VALVE type P160 / P200



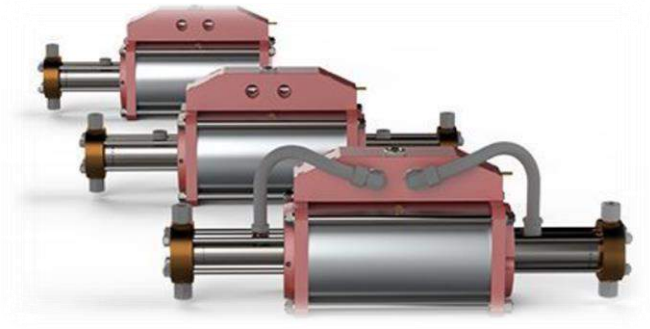
The P-Series of air-driven pumps reduce maintenance downtime and provide reliability for pumping various liquids with pressure up to 72,500 psi (5,000 bars).

The pumps operate with an automatic reciprocating differential area piston principle. They are available as single-acting and double-acting types which provides for a significant range of outlet pressure and flow rate combinations for applications in the oil & gas, automotive, gas processing, hose manufacturing, and other industrial sectors. The P-Series pneumatic pumps can be ATEX certified and are used for pressurizing liquids for burst testing, charging, bolt tensioning, and other high pressure applications.

KEY FEATURES

- ⊕ Minimize maintenance time
- ⊕ Improved cycling speed because air-cycling valve is mounted directly on top of air cylinder providing less frictional resistance.
- ⊕ Reduction of noise level due to less frictional resistance of air-cycling valves instead of mechanical pilot.
- ⊕ Freezing of the pump is avoided through the air cycling valve.
- ⊕ Suitable for use with water because all wetted parts of the high pressure pump section are made of special selected stainless steel.
- ⊕ Increased lifetime of seals by using specially developed U-PE seals that provide optimum plunger sealing for many mediums.
- ⊕ Minimized downtime by reducing time of high pressure seal change with the pump design focusing on simple dismantling of air-drive section.

B-SERIES AIR DRIVEN GAS BOOSTER type B160 / B200



The B-Series of air-driven gas boosters are suitable for several applications using nitrogen, helium, argon, breathing air, and more gases using special sealing technology.

The high pressure compressors are used for pressure testing with gases, industrial gas process feeds, gas charging of accumulators and gas bottles, and other applications. Their long lifetime makes them ideal for applications in the automotive, gas processing, and offshore and onshore industry. The gas boosters are available in a single-acting, double-acting, and dual-stage version. Our experts can consult you on the best suitable booster for your application.

KEY FEATURES

- ⊕ Long seal lifetime based on dedicated engineered polymer compounds.
- ⊕ Air drive section of the gas booster contains only a small amount of moving parts reducing wear and noise.
- ⊕ Improved reliability and cycling speed due to the lack of mechanical pilot valves and long internal pilot channels.
- ⊕ Reduced cost of ownership and maintenance downtime
- ⊕ Standard provided with vent holes to prevent gas from the high pressure gas section escaping to the air drive section.
- ⊕ The V-shaped expansion ring reduces preload and reduces frictional resistance.

VOB-H2 SERIES HYDRAULIC DRIVEN GAS BOOSTERS type VOB125



The hydraulic-driven gas boosters from the vertical VOB-H2 Series enable safe hydrogen compression with a wide range of discharge pressures and flow rates.

The hydraulic-driven compressor is used in gas processing and hydrogen gas storage applications, hydrogen refueling stations, pressure testing and in more applications. The separation between the gas chamber and the hydraulic section have been especially engineered to cater for safe use with hydrogen gas and avoid oil contamination of the gas. The vertical lay-out of the booster causing less wear, less friction and resulting in energy efficient compression. the gas booster can be used safely for the compression of other industrial gases such as CNG, nitrogen, and more. The careful selection of materials warrants a longer lifetime as hydrogen embrittlement is reduced. To enhance the versatility of the VOB-H2 hydraulic-driven gas boosters, the gas boosters are available as double-acting, and dual-stage versions.

APPLICATION AREAS

- ⊕ Hydrogen refueling stations
- ⊕ Gas pressure testing with hydrogen, nitrogen, CNG, and other gases
- ⊕ Gas processing of hydrogen
- ⊕ Charging of accumulators with hydrogen and other gases
- ⊕ Storage of hydrogen and other gases

AIR-ACTUATED HIGH-PRESSURE VALVE type NV-SERIES



Resato offers a complete range of air-actuated valves high pressure valves for remote on/off operations. Special attention has been paid to the safety of the valves.

Customers all over the world have extensively tested the reliability of our products. Resato valves are used in applications ranging from waterjet cutting systems, high pressure test systems, high pressure food preservation systems to test and control systems used in the oil/gas and chemical/petrochemical industries. One of the advantages of air-operated valves is a fixed operating air pressure. The risk of damaging a seat or needle is considerably smaller compared to hand-operated valves. Our folio lists standard valves (hand-operated and air-operated); however, we also supply customized valve designs for specialized applications.

KEY FEATURES

- ⊕ Excellent flow capacity performance
- ⊕ Safety guaranteed by special safety cover
- ⊕ Internal stem-lifting stop prevents stem blowout
- ⊕ Excellent chemical resistance of seal material
- ⊕ Pressure up to 7 000 bar / 100 000 psi
- ⊕ Suitable for fluids and gases
- ⊕ Build with non-corrosive materials
- ⊕ Two air actuators sizes (160 and 200 mm)
- ⊕ Internal stem-lifting stop, prevents stem blowout
- ⊕ Visual indicator of needle position

P-SERIES AIR-DRIVEN PUMP type P160 / P200



Resato offers a complete range of valves for high-pressure applications. Special attention has been paid to the safety of the valves.

Customers all over the world have extensively tested the reliability of our products. Resato valves are used in applications ranging from water-jet cutting systems, high-pressure test systems, high-pressure food preservation systems to test and control systems used in the oil/gas and chemical/petrochemical industries. Our catalog lists standard valves (hand-operated and air-operated); however, we also supply customized valve designs for specialized applications.

KEY FEATURES

- ⊕ Large orifices at rated pressures.
- ⊕ Excellent flow capacity performance.
- ⊕ Safety guaranteed by special safety cover.
- ⊕ Smooth operation under pressure due to internal needle thrust bearing.
- ⊕ Maximum working pressure 10,000 bar / 150,000 psi.
- ⊕ Most valves available in NACE MR-01-75 specification
- ⊕ Build with non-corrosive materials
- ⊕ Panel mounting standard.

HIGH PRESSURE CHECK VALVE type CV / CVM



Resato check valves (types CV and CVM) are designed to ensure flow of liquids and gases in one direction only. When the differential pressure drops below the spring-cracking pressure, the valve shuts off. Up to 4200 bar (60.000 psi) valves are provided with balls and soft seats. For 7000 (100.000 psi) and 10.000 bar (150.000 psi) check valves have a metal-to-metal seating. For pressures up to 4200 bar check valves are available for direct mounting (type CVM) in high-pressure connections and for in-line mounting (type CV).

KEY FEATURES

- ⊕ Direct and in-line mounting
- ⊕ Suitable for fluids and gases
- ⊕ All wetted parts of stainless steel
- ⊕ Working pressure up to 14,000 bar / 200,000 psi
- ⊕ Large orifices at rated pressures
- ⊕ Soft seating up to 4200 bar ensures high reliability

HIGH PRESSURE FILTER type NFI2-21

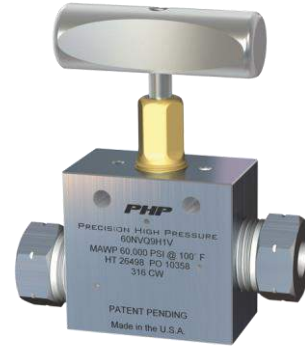


Resato high-flow cup type high pressure filters are recommended in high pressure systems that require both high flow rates and maximum filter surface area. The cup design offers a much more effective filter compared to the disc type units. In addition, the filter elements can be quickly and easily replaced. To increase filter efficiency, two filters can be mounted serially. The high-pressure filters are available for in-line Mounting (type FI) and for direct mounting (type FIM). The filter elements are available in four different filter porosities: 5, 10, 20 and 40 m.

KEY FEATURES

- ⊕ Direct and in-line mounting
- ⊕ Excellent flow capacity performance
- ⊕ All wetted parts of stainless steel
- ⊕ Long service life
- ⊕ Maximum working pressure 4,200 bar / 60,000 psi.
- ⊕ Various filter porosities available
- ⊕ Suitable for fluids and gases

QUICK OPEN NEEDLE VALVE type NVQ



SPECIFICATIONS

- MAWP up to 60,000 PSI (4136 bar)
- Temperature Ratings: -100°F to 600°F

OPTIONS

- Can be manufactured to meet NACE MR-01-75
- Grafoil Packing for temperature up to 800°F
- Extended Stuffing Box for temperature up to 1200°F

MATERIAL

- Body - 316 cold worked stainless steel
- Packing - Glass filled Teflon
- Stem - 15-5 PH

KEY FEATURES

- Excellent flow capacity performance
- Safety guaranteed by special safety cover
- Internal stem-lifting stop prevents stem blowout
- Excellent chemical resistance of seal material
- Pressure up to 7 000 bar / 100 000 psi
- Suitable for fluids and gases
- Build with non-corrosive materials
- Two air actuators sizes (160 and 200 mm)
- Internal stem-lifting stop, prevents stem blowout
- Visual indicator of needle position

HIGH PRESSURE BALL VALVE type BV



SPECIFICATIONS

- MAWP up to 20,000 PSI (1380 bar)
- Temperature Ratings: -20°F to 400°F
- Port Sizes: 3/16", 1/4", 3/8" or 1/2"
- Flow Pattern: 2-Way, 3-Way Switching, 3-Way Diverting

OPTIONS

- Available with electric or pneumatic actuators
- Available in NPT, MP or HP cone & threaded

MATERIAL

- Body / Side Adapter / Stem - 316 cold worked stainless steel
- Packing - Glass filled Teflon
- Seats - PEEK
- Seals - Viton
- Bearings - Nitronic 60

KEY FEATURES

- Bi directional trunnion style for optimal performance
- Three standard mounting options

HIGH PRESSURE DOUBLE BLOCK AND BLEED VALVE



SPECIFICATIONS

- ⊕ MAWP up to 20,000 PSI (1380 bar)
- ⊕ Temperature Ratings:
 - Ball x Needle x Ball: 0°F – 400°F
 - Needle x Needle x Needle: -100°F – 600°F

OPTIONS

- ⊕ Grafoil Packing for temperature up to 1200°F
- ⊕ NPT
- ⊕ MP and HP Cone & Threaded
- ⊕ Other connection types available by request

MATERIAL

- ⊕ Body - 316 cold worked stainless steel
- ⊕ Packing - Glass filled Teflon
- ⊕ Seats - PEEK
- ⊕ Stem - 15-5 PH

KEY FEATURES

- ⊕ Ball x Needle x Ball
- ⊕ Needle x Needle x Needle

- ⊕ Standard Needle Valve internals

Double Block and Bleed Valves are custom designed to meet the unique needs of each customer. Contact us to discuss your Double Block and Bleed Valve requirements.

HIGH PRESSURE CUSTOM MANIFOLDS



High quality custom manifolds are designed to meet the unique needs of each individual customer. All customers will receive a design drawing for final approval before manufacturing commences.

- ⊕ Custom Manifolds reduce installation time and minimize space requirements
- ⊕ Can withstand pressures up to 60,000 PSI
- ⊕ PHP custom manifolds are available in a wide range of connection sizes and types including NPT and Cone & Threaded
- ⊕ Lengths to 96" are available
- ⊕ Available in a wide variety of materials



HIGH PRESSURE CHECK VALVE type CV



SPECIFICATIONS

- ⊕ MAWP up to 60,000 PSI (4140 bar)
- ⊕ Temperature Ratings
 - Metal Seat: -420°F to 1200°F (-251°C to 648°C)
 - Soft Seat: -65°F to 250°F (-54°C to 121°C)
- ⊕ Nominal Cracking Pressure: 15 PSI (1 bar)
- ⊕ Nitrile is standard material of soft seat poppet seal
- ⊕ NPT Check valves come standard with female end connection

MATERIAL

- ⊕ 316 cold worked stainless steel is standard

KEY FEATURES

- ⊕ Prevents reverse flow which may cause damage to a pressure system
- ⊕ Metal Seat offers metal-to-metal seat for rapid cycling or severe environments
- ⊕ Soft Seat offers O-ring seat for fast shutoff and reliable seal
- ⊕ Complete material traceability
- ⊕ Can be manufactured to meet NACE MR-01-75

HIGH PRESSURE ADJUSTABLE RELIEF VALVE type RV



SPECIFICATIONS

- ⊕ Set Pressure from 1,000 PSI to 20,000 PSI (69 to 1379 bar).
- ⊕ Temperature Ratings: -40°F to 300°F (-40°C to 150°C).
- ⊕ Inlet Connection – 1/4" FNPT (10RV) and 1/4" HPF (20RV) are standard. Other connections sizes and types are available by request.
- ⊕ Outlet Connection – 1/4" Female NPT.

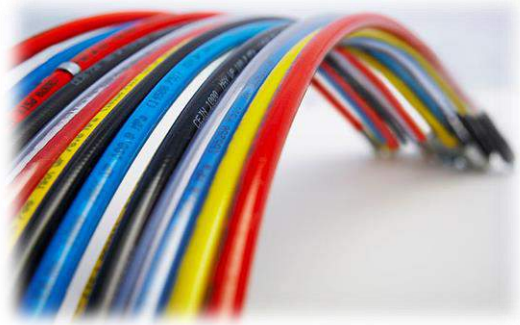
MATERIAL

- ⊕ Body – 316SS stainless steel.
- ⊕ Seat Gland/Outlet – 316 stainless steel.
- ⊕ Stem – 17-4PH.
- ⊕ Seal Materials – PTFE packing/EPDM.
- ⊕ Soft Seat - Nylon.

KEY FEATURES

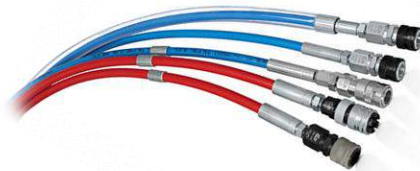
- ⊕ Field Adjustable.
- ⊕ Suitable for Gas or Liquid.

THERMOPLASTIC HIGH PRESSURE HOSE ASSEMBLY



The High-Pressure hose is a spiralized steel reinforced polymer hose that picks up where conventional product capabilities stop.

It gives you ultra-high working pressure with maintained flexibility through entire life. Its low volumetric expansion gives fast response time in hydraulic systems while the smooth inner bores provide a minimized pressure drop. A long-lasting service time and extended hose life in even the toughest applications is a result of the kink-resistant steel-reinforced construction, abrasion-resistant covers and a superior chemical resistance. The small outside diameter makes the hose ideal for tight routing.



KEY FEATURES

- ⊕ Maintained flexibility through entire service life
- ⊕ Low volumetric expansion
- ⊕ Kink-resistant steel-reinforced construction
- ⊕ Pressure range from 10,000 psi up to 58,000 psi (700 bar up to 4,000 bar)

Care and use of High Pressure Hose

Do's:

- ⊕ Treat high-pressure hose with extreme caution. Hoses are wire reinforced hoses, not garden hoses and should be treated like a high-pressure vessel.
- ⊕ Always visually inspect for frayed, damaged or wear spots before using.
- ⊕ Check the end connections for wear, rust, cracks or other deterioration that could produce a dangerous projectile.
- ⊕ Know the working pressures and burst pressures of all hoses before using them.
- ⊕ Always use clean, filtered medium to prolong hose life.
- ⊕ Always clean, drain and coil hoses after use.

Don'ts:

- ⊕ Never fix a hose at the sleeves
- ⊕ Never use a hose with cuts or wire showing through the outer cover
- ⊕ Never use a hose with bubbles, blisters or kinks
- ⊕ Don't exceed the bend radius and pressure rating for each hose
- ⊕ Don't run over or crush the hose with heavy vehicles
- ⊕ Hoses with corroded or leaking end connections should be avoided
- ⊕ Avoid using a dirty medium
- ⊕ Don't bend the hose over scaffolding or pull heavy equipment with the hose
- ⊕ Don't let hose support its own weight off tower or building
- ⊕ Don't expect hydraulic hose to last forever

Pressure test & re-certification service available at Hebdraulique

- ⊕ In house in our Montreal facility. Capacity: low, medium & high pressure up to 30,000 psi with fluid
- ⊕ In house in our Chicoutimi facility. Capacity: medium, high & ultra high pressure up to 58,000 psi with fluid
- ⊕ On site with our AH49 team. Capacity: low, medium & high pressure up to 20,000 psi with fluid. Low, medium & high pressure up to 12,000 psi with gas



CEJN ULTRA HIGH PRESSURE QUICK CONNECT



CEJN has over 50 years of experience in quick connect coupling technology for high-pressure hydraulics and offers a wide range of products with operating pressures up to 4000 bar (400 MPa), CEJN High-Pressure Hydraulic couplings are specially designed for ultra high pressure pumps, rescue equipment and other demanding applications. Presented here are couplings and nipples, hoses, pressure gauges and porting blocks for high-pressure hydraulic applications.

KEY SERIES



Series 115, 14,500 psi / 1,000 bar

DN 2.5 mm (3/32"). Flow capacity of 6.0 l/min (1.32 GPM uk). Max working pressure 14,500 psi / 1,000 bar. Made of hardened zinc chromate plated steel.



Series 115 Flat Face, 11,600 psi / 800 bar

DN 2.5 mm (3/32"). Flow capacity of 5.3 l/min (1.2 GPM UK). Max working pressure 11,600 psi / 800 bar. Made of hardened zinc chromate plated steel/aluminum.



Series 115 High Flow, 11,600 psi / 800 bar

DN 4 mm (5/32"). Flow capacity of 11 l/min (2.4 GPM UK). Max working pressure 11,600 psi / 800 bar. Made of hardened zinc chromate plated steel.



Series 116, 21,750 psi / 1,500 bar

DN 2.5 mm (3/32"). Flow capacity of 6.0 l/min (1.3 GPM UK). Max working pressure 21,750 psi / 1,500 bar. Made of hardened zinc chromate plated steel.



Series 116 Stainless Steel, 21,750 psi / 1,500 bar

DN 2.5 mm (3/32"). Flow capacity of 6.0 l/min (1.3 GPM UK). Max working pressure 21,750 psi / 1,500 bar. Made of Stainless steel.



Series 116 T-Connection, 21,750 psi / 1,500 bar

Series 116 T-Connection is a lightweight, one-piece coupling and nipple combination for making serial connections on high-pressure hydraulic tools, such as bolt tensioners and cylinders.



Series 116 Flat Face, 21,750 psi / 1,500 bar

DN 2.5 mm (3/32"). Flow capacity of 5.3 l/min (1.16 GPM UK). Max working pressure 150 MPa. Made of hardened zinc chromate plated steel.



Series 117, 14,500 psi / 1,000 bar

DN 2.5 mm (3/32"). Flow capacity of 6.0 l/min (1.3 GPM UK). Max working pressure 14,500 psi / 1,000 bar. Made of hardened zinc chromate plated steel.



Series 125, 36,250 psi / 2,500 bar

DN 2.5 mm (3/32"). Flow capacity of 5.8 l/min (1.3 GPM UK). Max working pressure 36,250 psi / 2,500 bar. Made of hardened zinc chromate plated steel.



Series 135, 43,500 psi / 3,000 bar

DN 2.5 mm (3/32"). Flow capacity of 4.6 l/min (1.0 GPM uk). Max working pressure 43,500 psi / 3,000 bar. Made of hardened black finished steel.



Series 140, 58,000 psi / 4,000 bar

DN 2.5mm (3/32"). Flow capacity 4.6l/min (1.0GPM UK). Max working pressure 58,000 psi / 4,000 bar. Made of hardened black finished steel.



Series 217 High Flow, 10,400 psi / 720 bar

DN 6.3 mm (1/4"). Flow capacity of 28 l/min (6.2 GPM UK). Max working pressure 72 MPa. Made of steel with a zinc-nickel surface treatment.



Series 218, 14,500 psi / 1,000 bar

DN 4.5 mm (11/64"). Flow capacity of 15 l/min (3.3 GPM UK). Max working pressure 14,500 psi / 1,000 bar. Made of hardened zinc chromate plated steel.

Solutions for a Wide Range of application environments

Whether the application is nuclear, subsea, wind power, oil, gas, or turbine, we're committed to meeting the ever-changing requirements of tough environments. Our wide range of High-Pressure couplings and hoses includes just what you need for jacks, cable cutters, pipe bending and bolt tensioning tools, torque wrenches, rescue equipment, hydrostatic testing equipment, and more.



RESATO QUICK CONNECTOR type SK-SERIES



Resato offers a range of quick connectors that are excellently suitable to connect high-pressure pump systems to objects to be pressurized.

The quick connectors can be used in combination with various types of Resato high-pressure fittings and hoses. A wide range of high-pressure hoses can be ordered in combination with our quick connectors, for a safe, reliable high-pressure connection. The Resato quick connectors type SK2-25 are available in open and closed models with internal check valves) up to a pressure of 2500 bar / 36.000 psi. Quick connector types SK3-21 up to 2100 bar / 30.000 psi and SK3-42 up to 4200 bar / 60.000 psi are only available as open models.

KEY FEATURES

- ⊕ Large orifices at rated pressures
- ⊕ Working pressure up to 4200 bar / 60.000 psi
- ⊕ Direct and in-line mounting
- ⊕ High quality stainless steel
- ⊕ Suitable for fluids and gases
- ⊕ Closed type with internal soft seat check valves available up to 2.500 bar

J-SERIES SCREW-TO-CONNECT QUICK COUPLING



Intertraco J Series quick connect includes screw to connect couplings designed to match the high pressures used for hydraulic tools.

KEY FEATURES

- ⊕ Screw to connect
- ⊕ Material: steel
- ⊕ Ball valve
- ⊕ Silver colour zinc passivation
- ⊕ Standard seals in nitril rubber
- ⊕ Metal caps on request
- ⊕ Maximum working pressure 10,150 psi / 700 bar.
- ⊕ Back – up seals in teflon
- ⊕ Working temperature with standard seals: – 20° C / +110° C
- ⊕ Available in 1/4" and 3/8"

HIGH PRESSURE ADAPTERS & FITTINGS



Complete range of fittings and adapters for high pressure applications, specially designed to match the performance of our valves and tubing.

We supply fittings and adapters for virtually any configuration of systems designed for handling fluids and gases at extreme pressures and temperatures. We have in stock a wide range of standard fitting and adapter types. All fittings and adapters are marked with, material specification, pressure rating and material batch number which refers to the specific DIN 3.1.B material certificate. Our high-pressure fittings are extremely safe because of the use of a weep holes.

- ⊞ Imperial & metric threads for HP cone & threaded fittings
- ⊞ Large orifices at rated pressures
- ⊞ Excellent flow capacity performance
- ⊞ Safety guaranteed by use of weep holes
- ⊞ High quality stainless steel
- ⊞ Suitable for fluids and gases
- ⊞ Cone & Threaded Fittings working pressure up to 200,000 psi (14,000 bar)
- ⊞ Pipe Fittings working pressure up to 15,000 psi (1030 bar)
- ⊞ BSP Fittings working pressure up to 43,500 psi (3000 bar)
- ⊞ 316 cold worked stainless steel is standard
- ⊞ Other materials available by request
- ⊞ Can be manufactured to meet NACE MR-01-75

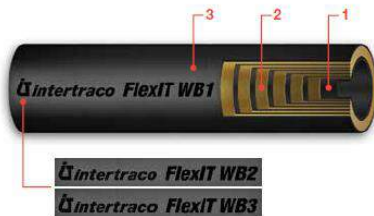


HIGH PRESSURE TUBING



- ⊞ Sandvik P&P Tubing
- ⊞ Size ranges from 1/4" OD to 1 1/2" OD
- ⊞ MAWP up to 60,000 PSI (4140 bar)
- ⊞ 316SS/316L and 304L standard material
- ⊞ Custom lengths available
- ⊞ Other materials available by request
- ⊞ Stocked tubing is furnished in random lengths between 20 – 27 ft. (averaging 24 ft.)
- ⊞ Tubing can be cut and shipped in shorter lengths when requested

RUBBER WATERBLAST HOSE ASSEMBLY type WB



Construction

- 1 - Synthetic rubber tube;
- 2 - Four high tensile steel wire spirals for all sizes except for six high tensile steel wire spirals for WB3-08 and WB3-12 hoses;
- 3 - Synthetic rubber cover;

Application

Very high constant pressure hose for water and water emulsions scaling systems.

Temperature range

-10°C / +70°C
Max -40°C / +100°C

INTERTRACO LOK-IT HOSE CONNECTOR



- ⊕ Available in carbon steel and stainless steel
- ⊕ Can be used on all type of hose, industrial, hydraulic & UHP whether the hose construction is rubber or thermoplastic.
- ⊕ Pressure range up to 20,000 psi
- ⊕ The connection is slim, short-built and doesn't rise above the cross section of the hoses.
- ⊕ On permanent moved machines the hoses don't cling and a break off will be avoided.
- ⊕ The transmission of power happens on the total area because of the safety element, which carries on the whole perimeter and reduces the wear.
- ⊕ The guide portions are twisted one with another or one against another, so breaks in hoses will be avoided.
- ⊕ The connection can be used for all diameters and nominal pressures, which are demanded in time.
- ⊕ The connection can't be detached by pressure.
- ⊕ The mounting is easy, quickly and without tools.
- ⊕ The connection has advantages of weight against all comparable systems.



HYDRAULIC HOSE ASSEMBLY



KEY FEATURES

- ⊕ From 1/8" up to 3" ID
- ⊕ 1,2 & 3 wire braid and 4,6 & 8 spirals reinforcement
- ⊕ Working pressure up to 700 bar / 10.150 psi (regular hydraulic range)
- ⊕ Temperature up to 150oC (300oF)
- ⊕ Suitable for hydraulic oils, both mineral and biological, polyglycol base oils, water-oil emulsions and water
- ⊕ Carbon steel and Stainless steel fittings

Fully approved applications

All hose and fittings combinations are extensively tested, and their validation is certified by DNV, ABS, LR, USCG.



OIL & GAS HOSE ASSEMBLY



HOSE APPLICATION

- ⊕ Choke & Kill Hoses
- ⊕ Cementing Hoses
- ⊕ Rotary & Vibrator Hoses
- ⊕ Decoking Hoses
- ⊕ BOP Control Hoses
- ⊕ Multi-Purpose Oilfield Service Hoses
- ⊕ Hydraulic & Steam Pile Driver Hoses

INDUSTRIAL HOSE ASSEMBLY



HOSE APPLICATION

- ⊞ Water Hoses
- ⊞ Air & Multipurpose Hoses
- ⊞ Chemical Transfer Hoses
- ⊞ Petroleum Hoses
- ⊞ Marine Hoses
- ⊞ Food & Beverage Hoses
- ⊞ Material Handling Hoses
- ⊞ Mining Hoses
- ⊞ Steam & Cleaning Hoses
- ⊞ Welding & Gas Hoses
- ⊞ Vacuum Hoses
- ⊞ Specialty Hoses

STAINLESS STEEL HOSE ASSEMBLY & EXPANSION JOINT



Stainless steel hoses are manufactured to control vibration, reduce noise transmission and prevent from hammering. They can also prevent misalignment and compensate for some thermal movements.

Can be manufactured in different type of stainless such as 304, 321 and 316. They are also available in exotic alloys such as "Monel" and "Inconel". Most of the time the braid is in 304 stainless steel but is also available in 316. The use of our stainless steel hoses on pumps, compressors and mechanical equipment will surely improve the operation of your system.








PRODUCT TYPE

- ⊞ Hose Assemblies (Standard & Customized)
- ⊞ Compensators
- ⊞ Rubber Joints
- ⊞ Jacketed Hose Assemblies
- ⊞ Traced Hoses Assemblies
- ⊞ Flexible Loops
- ⊞ Inner Liner for Hose Assemblies
- ⊞ SS Outside Protection for Hose Assemblies
- ⊞ SS Expansion Joints (Bellows)
- ⊞ Alignment Guides

HIGH PRESSURE GAUGE type RPX









STIKO manufactures all stainless steel pressure gauges in sizes $\varnothing 100$ and $\varnothing 160$ with solid front full safety pattern, all according to DIN 16001.

-  Available in 2000, 2500, 3000, 4000, 5000, 6000 and 7000 bar (30.000 to 100.000 psi).
-  1/2" BSP for pressure ranges to 2000 and 2500 bar, according to DIN 16001
-  M16 x1,5 or 9/16" x 18 UNF for all ranges
-  Socket connection AISI 316L
-  Other connections on request

STAINLESS STEEL CHART RECORDER type PBX



Our Stainless steel chart recorders for temperature and/or pressure, are available in three chart sizes: 6", 9" and 12".

-  Single, double or triple pen versions available
-  Designed as portable, flush or direct mounting
-  IP65
-  Durable
-  Tailor-made on request
-  ATEX certification available

PELICASE CHART RECORDER



Our Pelicase chart recorders are extremely rugged, lightweight and IP67. They can measure up to 4000bar / 60000PSI and the maximum temperature range is -200°C to 600°C.

Full range of Hose Assembly System equipment also available

1
CUT



2
CRIMP



3
TEST



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