



TECHNICAL DATASHEET
COMPUTER CONTROLLED HIGH PRESSURE
WORKSHOP SYSTEM

TYPE
HPU-CC



PROVIDING THE **SURE IN PRESSURE**

DISTRIBUIDOR EXCLUSIVO PARA CHILE



COMPUTER-CONTROLLED HIGH PRESSURE WORKSHOP TEST SYSTEM

type HPU-CC

The Resato computer-controlled workshop test systems can be used to pressurize valves, fittings, hoses, piping, vessels and wellhead equipment. Testing procedures are fully automated.

All components, including the required connecting materials and tubing, are mounted in a powder-coated steel frame. The systems are manufactured according to European regulations.

To increase efficiency, multiple test cabinets can be connected to the HPU-CC.



KEY FEATURES

- For hydraulic pressurization
- Suitable for various test mediums
- Robust modular design with numerous options
- Possible to integrate in your production process
- Panel mounted features and gauges

KEY SPECIFICATIONS

- All main components made by Resato
- Fully traceable materials for high pressure
- All parts made out of non-corrosive materials
- Low noise level

ORDERING CODE

Contact Resato International B.V.

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SYSTEM DESCRIPTION

FUNCTIONING

By means of a touch screen operating panel, pressure setting is easily done for each individual test line. The PLC performs process controls, which ensures each line is compensated for (small) pressure drops. The pressure is easily monitored by the touch screen panel and recorded via the recording system. The software is developed in-house by Resato, which means that the automatic pressure test cycles can be designed to your specifications. Of course our automatic workshop test systems are user-friendly and reliable. Service and support by modem from our premises in Assen, Holland, are a possibility

HIGH PRESSURE PUMPS AND BOOSTERS

The Resato high pressure pumps and boosters are controlled by a maximum of 7 bar compressed air or nitrogen. Because the air drive section offers unique air controlled reciprocating movement, the pump is very quiet and reliable. This air drive section, with low friction and almost no stick-slip, offers very accurate pressure control. The unique construction enables quick and easy replacement of seals. For that reason the Resato high pressure pumps and boosters have won worldwide fame for reliability in a wide range of applications.

HIGH PRESSURE VALVES

Reliable operation and a long life cycle are combined with ergonomic design by use of air operated or manually operated Resato high pressure needle valves.

HIGH PRESSURE FITTINGS

Like the high pressure pumps, boosters and valves, the high pressure fittings are of our own manufacture. For reasons of safety, high-pressure fittings with metallic sealing and weep hole are used from 280 bar.

PRESSURE GAUGES

The systems are provided with pressure gauges with an accuracy of at least 1,0% FS. Depending on the system layout, gauges of 100 or 160 mm diameter are used. The gauges are standard fitted with laminated safety glass. All high pressure gauges are supplied with calibration certificates.

MATERIALS

All main components such as the high pressure valves, tubing, fittings, gauges and wetted parts of the pump are made of corrosion resistant high tensile strength stainless steel alloys. Resato uses only fully traceable materials for all high pressure parts and components.

CERTIFICATION

A test certificate, showing the pressure over the complete test range, is generated automatically.

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SYSTEM DESCRIPTION

CHARACTERISTICS COMPUTER CONTROLLED SET UP

Test lines	3 test lines, for which one can be used as burst test line
Pressure range	115 - 600 bar / 1700 - 8700 psi
Pressur read-out	Panel mounted touch screen
Pressure transmitter	0 - 800 , accuracy 0,5% FS, repeatability 0.05% of span (3x +1x)
Pressure setting and control	By means of a panel mounted touch screen and PLC
Flow	N/a
Pump monitoring	Before each pump sequence, the pump is automatically reseted
Low pressure protection	A PLC monitors all test lines and automatically compensates a line in case of pressure loss Bandwidth is easily entered into the touch screen
High pressure protection	N/a
Burst protection	A PLC monitors all test lines and automatically isolates a test line in case a erroneously rupture of the object
Sample rate long-term testing	0.2 Hz (logging time: > 1000 hours)
Sample rate short-term testing	0.2 Hz
Sample rate burst testing	5 Hz
Temperature	The system is provided with an inline mounted temperature probe on the high pressure supply line
Logging	Long-term and short-term test date is continuously written to an Excel file, which can be read via known program "Lijnhistorie.exe" In the case of burst testing, data is being logged by the Resato recorder, which generates a burst-test certificate. A pressure build-up time of 1> minute is to be used
Service	By use of extra inline mounted isolate valves and connections, the system can be services and calibrated without interrupt of the test with exception of the test line isolate and release valve
Back-flow preventer	Type 9D

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OPTIONS

CIRCULAR PRESSURE RECORDER

The Resato workshop system can be provided with an optional circular pressure recorder with mechanical clockwork. These stainless steel recorders will be panel mounted and are available in chart sizes of 163 and 223 mm. Besides, a wide range of chart revolutions is available, for example 1/4, 1, 4, 8, 24hrs.

COMPUTER RECORDER

Instead of a circular pressure recorder, the system can also be supplied with a PC data acquisition and recording system. By which the test results can be shown online on your own PC. The test system is fitted with a digital readout for test pressure instead of a readout via the test gauge. The computer recorder has a pressure transducer with an accuracy of 0,5% FS, and customer and object data can be imported and saved. Furthermore, certificates can be printed on your own printer and can be saved on your computer.

ENGRAVED AND COLORED FLOW CHART

If the workshop system is made according to your specific demands, you may prefer the use of an engraved and colored operating panel. In that case, both the flow chart and the operating instructions will be engraved and colored.

COVER FOR THE SYSTEM

The Resato workshop system is standard supplied with an uncovered operating panel. As an option a cover (with gas springs) can be ordered to protect the operating panel.

STAINLESS STEEL TANK

The workshop system can either be connected to the water mains, or to an external reservoir. An integrated stainless steel tank of approximately 40 liters can be used.

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OPTIONS

STAINLESS STEEL FRAME

The housing of the Resato workshop system is standard made of grey and red powder coated steel. As an option, the housing can be manufactured in stainless steel.

INTEGRATION ON DEMAND

As the Resato workshop system can be built to your specific demands, it is also possible to have us integrate the system in your own production process.



RESATO INTERNATIONAL B.V.

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CONTACTO

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V2.0 - Please note that general data and specifications given in this brochure are subject to change without notice.

Feel free to contact our sales department if you need more definite information.