HYDRAULIC HIGH PRESSURE WORKSHOP TEST SYSTEM

With the HPU you can test objects with a hydraulic pressurization test system that is fully adaptable to your requirements.

The HPU has a solid workshop design and offers the possibility to be integrated in your production process, which makes that the HPU can offer you a reliable test function that streamlines your operation process.

The system can be as well manually operated as automatically. For an automated pressure cycle performance, an optional process controller with touch pannel can be added. Due to its ergonomic operating panel, with panel mounted features (e.g. a control bleed and gauges), the HPU test systems contributes to a responsible working environment.

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 all high pressure parts and components
All parts are made out of non-corrosive materials

ORDERING CODE
Contact Resato International B.V.

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HYDRAULIC HIGH PRESSURE WORKSHOP TEST SYSTEM

**UNIT DESCRIPTION**

**MANUAL OPERATION**

Output pressure control is achieved by regulating the air supply pressure with the panel mounted air regulator(s). By regulating the air drive pressure, the output pressure of the gas booster will be achieved. The booster will automatically stop as soon as the outlet pressure is reached, so no energy is required to maintain pressure. The workshop test system can be fitted with a total of two gas boosters and/or pumps. The modular design of the system allows us to build it according to your specific requirements. In addition, a wide range of options is available.

**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.
HYDRAULIC HIGH PRESSURE WORKSHOP TEST SYSTEM

 type HPU

OPTIONS

AUTOMATIC OPERATION

Apart from manual operation, you can also order a system with automatic test cycle performance. In that case a process controller will be installed in the workshop system. The operator can control the system from the panel mounted touch panel. 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 Roden, Holland, are a possibility.

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.
HYDRAULIC HIGH PRESSURE WORKSHOP TEST SYSTEM

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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.