



PS SERIES

Valve test benches can be used for various applications. These are, for example, the incoming goods test when new valves are delivered, the intermediate and final inspection during/after valve manufacture, checking the valve repair result or routine testing of, for example, safety valves.

The tests comprise mainly pressure tests of valve housings, leakage tests of the valve seats and testing of the set pressure of safety valves in particular.

In addition to valves, other components, too, can obviously be subjected to a pressure test. These are, for example, tanks, motor housings, pump housings, pipe fittings, insulators, etc. Special clampings are frequently required to clamp these test pieces.

An EFCO valve test bench consists of a clamping unit and a control panel for operation, measurement, and control. The test piece is held securely by the clamping device and sealed on inlet and outlet for the test. Clamping forces up to about 1500 t can be implemented (on request even higher).

The operating/measuring/control unit (console) is used for the actual test (filling of the valve, building up of test pressure, controlling the clamping unit, measuring of test pressure).

We also offer small, portable test units for mobile applications. These test units do not have a clamping unit and can be used to build up test pressure and measure it (e.g. for tank tests). Construction of valve test benche

- Stationary / portable (available up to about 10 t clamping force)
- Manual / automatic
- Horizontal/vertical/tilting

For the testing of

- Gate valves
- Control valves
- Check valves
- Ball valves
- Safety valves
- Hollow bodies (motor housings, pipe fittings, tanks, etc.)

Design of test piece ends (inlet/outlet)

- Flange
- Thread
- Welding soc
- Flangeless ("sandwich" / "wafer")

Test medium

- Wate
- Air
- Nitrogen
- Special test media (e.g. oil, kerosene)

lest types

- Shell/body tests
- Leakage test of spindle gland
- Leakage test of shut-off device
- Set pressure of safety valves

Test pressure

- Water up to 1380 bar (20000 psi) (higher on request)
- Air / nitrogen up to 300 bar (4350 psi) (higher on request)
- Vacuum testing



EFCO standard testing equipment

.snoitqo ynsm and with short delivery times. Basic product range in various versions and Well-tried technology, standardised and with modular design. Cost-effective

The standard testing technology is characterised by:

- Easy to operate
- Manual operation
- Infinitely variable clamping force
- Suitable for pressure testing of shut-off/control valves and safety valves
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- \bullet IIA \bullet strag of clamping device with anticorrosive coating \bullet

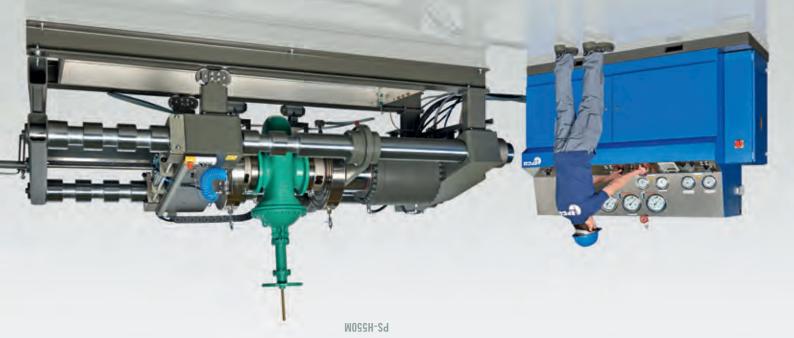
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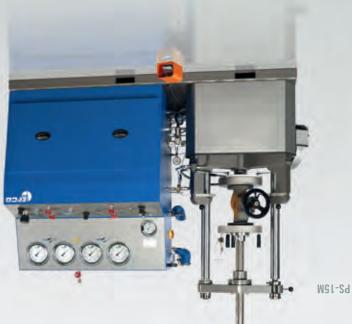
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120	20-200 (S _" -20 _")	DS1-150
100	20-200 (S _" -20")	00I-S9
30/20/75	52-400 (1,,-16,,)	PS-SV30/50/75M
30/20/75	55-400 (1"-16")	PS-30/50/75M
SI	12-520 (1/510)	MGIV2-29
JS	12-520 (1/510)	M21-29
10	10-200 (3/8"-8")	PS-T10.02
ç	10-80 (3/8"-3")	SVS\T-29
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500	20-600 / 100-1000 (2"-24"/4"-40")	PS-H200M
520	20-600 / 100-1000 (2"-24"/4"-40")	PS-H250M
300	20-600 / 100-1000 (2"-24"/4"-40")	PS-H300M
320	20-600 / 100-1000 (2"-24"/4"-40")	PS-H350M
400	20-600 / 100-1000 (2"-24"/4"-40")	M004H-29
420	20-600 / 100-1000 (2"-24"/4"-40")	MO24H-29
200	20-600 / 100-1000 (2"-24"/4"-40")	M002H-S9
220	20-600 / 100-1000 (2"-24"/4"-40")	PS-H550M

Other variants on request

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Individually adapted testing equipment, coordinated to your particular specifications and needs.

Our particular strength lies in creating a product for you that meets your requirements exactly. You benefit from our many years of experience in implementing customer-specific projects.

Here is a small selection of a wide range of options:

- Nominal test specimen widths (DN10/ 3/8") up to (DN1000/ 40") and larger
- Manual, semi-automatic or automatic operation
- Repeated test cycles (endurance testing)
- Underwater testing
- Vacuum testing
- Testing of 2-way / 3-way / multi-way test specimens
- Individual or multiple clamping
- Recording of test specimen ID using handheld scan
- Output of test result data via defined interface

PS-50UW

- Automatic air and water shut-off valve testing
- Air testing under water
- Clamping unit that swings out to allow for easy installation

PS-30A

- Automatic air and water testing of 2 and 3-way control valves
- Actuator for closing and opening the test specimen
- Proportional clamping to protect housing







PS-H90A



PS-H7.5UW

- Fully automatic testing of ball valves
- Air testing under water
- Torque measurement when closing
- Horizontal clamping

PS-H1500

- For testing valves up to DN 1000 (40")
- Water testing up to 1380 bar (20.000 psi)
- Housing-protecting horizontal clamping with self-sealing test tables



PS-H1500



PS Bellows testing device

- For air testing of bellows
- Automatic testing procedure
- Multiple clamping (photo: 3-way vertical)

PS-H90A

- Fully automatic air and water testing of gate valves and butterfly valves DN40-600 (1¹/₂"-24")
- Torque measurement when closing
- Horizontal clamping
- Test specimen ID recorded using hand scanner
- Transfer of test result data to network interface
- Proportional, housing-protecting clamping

