



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 benches

- 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 socket pieces
- Flangeless ("sandwich" / "wafer")

Test medium

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

Test 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

PS-200



EFCO standard testing equipment

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

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
- Water tank made from stainless steel (VA)
- All parts of clamping device with anticorrosive coating

Vertical chucking

Type	DN	Clamping force (t)
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PS-T/SVS	10-80 (3/8"-3")	5
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PS-T10.02	10-200 (3/8"-8")	10
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PS-15M	15-250 (1/2"-10")	15
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PS-SV15M	15-250 (1/2"-10")	15
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PS-30/50/75M	25-400 (1"-16")	30/50/75
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PS-SV30/50/75M	25-400 (1"-16")	30/50/75
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PS-100	50-500 (2"-20")	100
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PS-150	50-500 (2"-20")	150
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Horizontal clamping

Type	DN	Clamping force (t)
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PS-H200M	50-600 / 100-1000 (2"-24"/4"-40")	200
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PS-H250M	50-600 / 100-1000 (2"-24"/4"-40")	250
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PS-H300M	50-600 / 100-1000 (2"-24"/4"-40")	300
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PS-H350M	50-600 / 100-1000 (2"-24"/4"-40")	350
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PS-H400M	50-600 / 100-1000 (2"-24"/4"-40")	400
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PS-H450M	50-600 / 100-1000 (2"-24"/4"-40")	450
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PS-H500M	50-600 / 100-1000 (2"-24"/4"-40")	500
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PS-H550M	50-600 / 100-1000 (2"-24"/4"-40")	550
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Other variants on request
Dimensions in mm (inch)



PS-H550M



PS-T10.02



PS-15M



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 scanner
- 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-50UW



PS-30A



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-H7,5 UW



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 (1½"-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

