PS-M Modular Test Benches

The New Generation for Shut-Off and Safety Valves
Testing with Water and/or Air/Nitrogen

- Easy to operate
- Many sizes for a wide range of valves and test pressures
- Compact design
- Low cost
- Short delivery times

PREMIUM PRODUCTS – MADE BY EFCO – MADE IN GERMANY
PS-M  Modular Test Benches

After producing our custom-made test benches for many years we noticed similar requirements for a variety of benches. We took this information back to the drawing table, where our modular test bench series evolved.

Standardisation of components, redesigned for multiple applications, and a variety of technical modifications enabled us to produce this compact and affordable modular test bench series. It is easy to operate and offers many features and options.

- Pneumatic and hydrostatic testing
- Hydraulic clamping
- External test for larger valves outside the test bench’s perimeter

Updated Control Panel

- Control panel with language-independent operator symbols
- Brushed stainless-steel front panels
- Powder coated sheet metal construction are very well protected from corrosion
- Calibrated, certified high-quality manometers in:
  - psi/bar (basic version)
  - MPa, kg/cm²
  - psi.
To test shut-off and safety valves:

**PS-15M/30M/50M/75M:**
- Basic version: Air: max. 87 psi
- Water: max. 5075 psi
- Optional: Air / Nitrogen – max. 2900 psi or max. 4350 psi

To test safety valves:

**PS-SV15M/30M/50M/75M:**
- Basic version: Air: max. 87 psi
- Optional: Air / Nitrogen – max. 2900 psi or max. 4350 psi

### DN range
- **DN15 (1/2")**
  - 15 – 250 (1/2") - (10")
  - Clamping force: 15t
  - Max. test pressure in psi:
    - PS 15M: 4350
    - PS-SV 15M: 4350
    - PS 30M: 4350
    - PS-SV 30M: 4350
    - PS 50M: 4350
    - PS-SV 50M: 4350
    - PS 75M: 4350
    - PS-SV 75M: 4350
- **DN25 (1")**
  - 25 – 400 (1") - (16")
  - Clamping force: 30t
  - Max. test pressure in psi:
    - PS 15M: 5075
    - PS-SV 15M: 4350
    - PS 30M: 4350
    - PS-SV 30M: 4350
    - PS 50M: 4350
    - PS-SV 50M: 4350
    - PS 75M: 4350
    - PS-SV 75M: 4350
- **DN50 (2")**
  - 25 – 400 (1") - (16")
  - Clamping force: 50t
  - Max. test pressure in psi:
    - PS 15M: 5075
    - PS-SV 15M: 4350
    - PS 30M: 4350
    - PS-SV 30M: 4350
    - PS 50M: 4350
    - PS-SV 50M: 4350
    - PS 75M: 4350
    - PS-SV 75M: 4350
- **DN80 (3")**
  - 25 – 400 (1") - (16")
  - Clamping force: 75t
  - Max. test pressure in psi:
    - PS 15M: 5075
    - PS-SV 15M: 4350
    - PS 30M: 4350
    - PS-SV 30M: 4350
    - PS 50M: 4350
    - PS-SV 50M: 4350
    - PS 75M: 4350
    - PS-SV 75M: 4350
- **DN100 (4")**
  - 25 – 400 (1") - (16")
  - Clamping force: Max. test pressure in psi:
    - PS 15M: 1668
    - PS-SV 15M: 1668
    - PS 30M: 1668
    - PS-SV 30M: 1668
    - PS 50M: 1668
    - PS-SV 50M: 1668
    - PS 75M: 1668
    - PS-SV 75M: 1668
- **DN150 (6")**
  - 25 – 400 (1") - (16")
  - Clamping force: Max. test pressure in psi:
    - PS 15M: 798
    - PS-SV 15M: 798
    - PS 30M: 798
    - PS-SV 30M: 798
    - PS 50M: 798
    - PS-SV 50M: 798
    - PS 75M: 798
    - PS-SV 75M: 798
- **DN200 (8")**
  - 25 – 400 (1") - (16")
  - Clamping force: Max. test pressure in psi:
    - PS 15M: 435
    - PS-SV 15M: 435
    - PS 30M: 435
    - PS-SV 30M: 435
    - PS 50M: 435
    - PS-SV 50M: 435
    - PS 75M: 435
    - PS-SV 75M: 435
- **DN250 (10")**
  - 25 – 400 (1") - (16")
  - Clamping force: Max. test pressure in psi:
    - PS 15M: 290
    - PS-SV 15M: 290
    - PS 30M: 290
    - PS-SV 30M: 290
    - PS 50M: 290
    - PS-SV 50M: 290
    - PS 75M: 290
    - PS-SV 75M: 290
- **DN400 (16")**
  - 25 – 400 (1") - (16")
  - Clamping force: Max. test pressure in psi:
    - PS 15M: 0
    - PS-SV 15M: 0
    - PS 30M: 0
    - PS-SV 30M: 0
    - PS 50M: 0
    - PS-SV 50M: 0
    - PS 75M: 0
    - PS-SV 75M: 0

**Note:**
- = Air / nitrogen
- = Water

**QUALITY, RELIABILITY, AND INNOVATIVE TECHNOLOGY**
Options and accessories:

- Stainless steel piping and bolting for water system
- Air/Nitrogen: up to maximum 2900 psi or for larger pressures up to max. 4350 psi
- Digital bubble counter, automatically counting air bubbles during the seat leakage test with air
- Digital manometers with facility to store peak values, especially for set-pressure tests of safety valves
- Accumulator for testing safety valves with water, allows for prompt & correct set pressure readings - eliminates false set pressure readings due to water pressure build-up
- Safety plugs for testing safety valves
- Adaptors for threaded and/or butt weld end valves
- Drive controller for control valves
- For water tests in the lower pressure range: ability to adjust water test pressure
- Protective barrier

EFCO-VALVE-DOC – Data Acquisition System

Mobile workstation for the acquisition, analysis and documentation of valve tests

- Set-pressure and seat leakage tests in safety valves
- Leakage tests for housings and seats in shut-off and control valves
- Valve operation card to record all operations
- Can be retrofitted, suitable for all test benches

EFCO-ELEKTRO-BOOSTER

- Compress air to 4350 psi (300 bar) - higher pressures on request
- Switches off automatically at max. operating pressure, and on, if the pressure falls
- Easy to operate

Subject to technical changes

EFCO USA, Inc.
11600 Goodrich Drive
Charlotte, NC 27283
Phone: (800) 332-6872
(704) 943-1027
Fax: (888) 332-6872
e-mail: sales@efcousa.com

www.efcousa.com