



## **TEST BENCHES FOR VALVES**

Paskals designs, manufactures and delivers valve test units for pressure testing any type of Gate, Globe, Plug, Ball, Check, Safety and Butterfly valve according to all international test standards.

## **Capabilities:**

- ♣ Range DN10 2200 mm. / ¼ 86".
- Horizontal (stem vertical), vertical.
   (Stem horizontal) or tilting clamping system
- Clamping on the inlet flange, either flanges or (proportional clamping) between the clamping tables.
- ♣ 1 2000 tons of clamping force.
- With no or limited linear force on the valve body.
- ♣ Test medium: Liquid, compressed air, Nitrogen, Helium or Hydrogen.



### **Standard Features:**

- Computer registration system.
- Full automatic operation system.
- Testing one or a complete series of valves.
- Automatic open close action.
- ➡ Valve performance testing, considering; measuring of the stroke measuring, open/close time and torque measuring.
- Stainless tubing.
- Fugitive emission and cryogenic test facilities on requirement.

#### Tests include:

- Shell test pressure inside the assembled valve to 1.5 times working pressure.
- Back seat test pressure inside with seat fully opened and closed to 1. 1 times working pressure.
- High pressure closure test -pressure applied to each side of the closed valve to 1. 1 times working pressure.
- Low pressure closure test same as high pressure but with air at 100 psi (7 bar), detected by air bubbles in a water column or in laser bubble counter.
- ♣ Relief valve test opening pressure using a 'Pop' test and to 90-95% of set pressure.





## **TEST BENCH FOR CONTROL VALVE**

Paskals designs, manufactures and delivers valve test units for pressure testing any type of Gate, Globe, Plug, Ball, Check and Butterfly valve according to all international test standards.

### **Capabilities:**

- ♣ Range DN10 2200 mm. / ¼ 86"
- Horizontal (stem vertical), vertical (stem horizontal) or tilting clamping system.
- Clamping on the inlet flange, either flanges or (proportional clamping) between the clamping tables.
- ♣ 1 2000 tons of clamping force.
- ₩ With no or limited linear force on the valve body.
- ★ Test pressure range: from vacuum up to 2000 bar / 30,000 PSI.
  Test medium: Liquid, compressed air, Nitrogen, Helium or Hydrogen.

## Standard features:

- Auto clamping system with proportional clamping force system.
- Low pressure air test system 7 bars / 100 PSI.
- Computer Registration System Control Valve Test Software.
- Pressure transducers and digital mass flow meters to measure seat leakage according class II, III and IV.
- ♣ Laser Bubble Counter according standards
- Stainless steel control panel.
- Stainless tubing.
- High pressure water prefilling system.
- High accuracy gauges and pressure transmitters.









# **Test benches for Safety Valves**

Paskals designs, manufactures and delivers Safety (relief) valve test benches for set pressure measurement on all types of spring or pilot operated safety (relief) valves.

## **General specification:**

- ♣ Range ¼ -10" or ¼ -16". (Larger stations available on request).
- Low or high volume 'full lift' testing.
- Stationary, skid mounted portable or containerized systems.
- Safety screen.
- Safety interlocks.
- API 527 test facility.
- ♣ Liquid test system with J-tube design.
- Test medium: Compressed air, Nitrogen or Liquid.



### **Features:**

- ➡ Windows operated Computer Registration System.
- Full automatic set pressure and leakage testing.
- Pneumatic or electric driven high pressure compressor and storage system.
- Set pressure detection system by lift and acoustic measuring.
- Adapters for male and female thread connections.
- Partly for fully closed safety closure.
- Separate of combined test facility for pressure vacuum (breather) valves.







## **TEST UNIT FOR MANUFACTURER**

Fully automatic test units for quick and efficient testing a series of valves. Our IT specialists design smart software for the test- & operation system. The fully integrated computer system assures a very simple operating procedure. The test- & operation system controls the test procedure and a combination of accurate pressure sensors and flow meters detect / measure any leakage. The intelligent software compares the found test results with the programmed test standard. Within seconds the system gives a 'pass' or 'fail' signal.

### **Capabilities:**

- Range DN10 2200 mm. / ¼ 86".
- Horizontal (stem vertical) or vertical stem horizontal).
- ♣ 1 2000 tons of clamping force.
- ➡ With no or limited linear force on the valve body.
- Test pressure range: from vacuum up to 2000 bar / 30,000 PSI.
- Test medium: Liquid, compressed air, Nitrogen, Helium or Hydrogen.



## Features:

- Computer registration system.
- Fully automatic operation system.
- Testing one or a complete series of valves.
- Automatic open close action.
- Valve performance testing, considering measuring of the stroke measuring, open/close time and torque measuring.
- Auto clamping system with proportional clamping force system.
- Low pressure air test system 7 bars / 100 PSI.
- Computer Registration System.
- Pressure transducers and digital mass flow meters to measure seat leakage according class II, III and IV.
- Stainless steel control panel.
- Stainless tubing for better electronic control.
- High pressure water prefilling system.
- High accuracy gauges and pressure transmitters.