



## Specialist in valve testing, service for valve manufacturer and user

Shanghai ZENGXIN is dedicated to the design and manufacturing of high quality valve test units for pressure and leakage testing for more than ten years. Our leading position in China test units industry depends on an eternal duty to quality and performance, continuous development and innovating in close cooperation with our customers. ZENGXIN test benches are being used by valve manufacture and repair companies in over 20 countries world wide.

ZENGXIN designs, manufactures and delivers test benches for pressure testing all kind of Gate-valve, Globe-valve, Ball-valve, Check-valve, Plug-valve, Slide-valve, Butterfly valve and Safety-valve and Relief-valve according to all international test standards.

### 1. YFB Series is designed for flanged valves only, such as flanged Gate-valve, Globe-valve, Ball-valve and so on.

#### Capabilities

- ✓ Range DN15 – 1200 mm. / ½ - 48"
- ✓ Horizontal (stem vertical) or tilting clamping system.
- ✓ Clamping on the inlet flange, both flanges between the clamping tables.
- ✓ With no or limited linear force on the valve body.
- ✓ Test pressure range: from vacuum up to 1000 bar / 15,000 PSI.
- ✓ Test medium: Liquid, Compressed Air, Nitrogen.

#### Optional 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.



### 2. YFB-Y Series Fully automatic test units for quick and efficient testing a series of valves.

The IT specialists of ZENGXIN 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 – 1200 mm. / ¼ - 48"
- ✓ Horizontal (stem vertical) or vertical (stem horizontal).
- ✓ 1 – 530 ton's of clamping force.
- ✓ With no or limited linear force on the valve body.
- ✓ Test pressure range: from vacuum up to 1000 bar / 15,000 PSI.
- ✓ Test medium: Liquid, Compressed Air, Nitrogen.

#### Optional 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.



### 3. YFB-A Series Safety valve test station

ZENGXIN designs, manufactures and delivers test units for pressure testing any type of Spring-, Weight-, or Pilot operated Safety (Relief) Valve according to all international test standards. Allows testing with air and liquid and it is designed to comply with API-567 for flow design and API-527 for seat tightness testing. The YFB-A Series features a hydraulic operated 3-claw clamping system, design for quick clamping of safety valves with flanged and thread connections. The test unit can apply a clamping force of 140 tons and suitable to test valves in range 1/2"-12". The YFB-A safety valve test rig has a build in accumulator to comply with the safety valve test standards.

#### Standard features:

- ✓ Auto claw clamping system.
- ✓ Gas and liquid testing.
- ✓ Bubble counter according to API 527.
- ✓ Safety screen.
- ✓ Interlock system preventing release of claws when pressurised.
- ✓ Delivered ready for use.





#### Optional features

- ✓ Booster or compressor system for generating high pressure air.
- ✓ Computer registration system.

#### Capabilities

- ✓ Range DN15 – 300 mm. / ½ - 12”
- ✓ Low or volume ‘full lift’ testing.
- ✓ Stationary, skid mounted, portable or containerized systems.
- ✓ 1 – 50 ton’s of clamping force.
- ✓ Test pressure range: from vacuum up to 1000 bar / 14,500 PSI.
- ✓ Test medium: Compressed air, Nitrogen or Liquid.

Delivery time: 8-10 weeks

Price : on request



#### 4. YFB-D Series

##### Capabilities

- ✓ Range DN10-1500 / 1/4"-60"
- ✓ Horizontal (stem vertical) or vertical (stem horizontal).
- ✓ 1 – 3200 ton’s 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.

##### Optional 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.



#### 5. Portable grinding/ lapping unit.



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