



Product catalog

SAFETY VALVE TEST EQUIPMENT

JINAN ODMT FLUID CONTROL EQUIPMENT CO.,LTD

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▶ Safety Valve Calibration Sets



Company introduction

JINAN ODMT FLUID CONTROL EQUIPMENT CO.,LTD as a professional provider in the field of fluid control,serves for petroleum,chemical,shipbuilding,automobile,aviation,marine,military etc.industries and related laboratories in univer-sities andresearch institutes.ODMT has all kinds of fluid conveying equipment and pressure test and control equipment.

We specialize in high-pressure system engineering consulting,design manufacture,installation, debugging and mainte-nance services.We adopt advanced pressurization technology in the world,with hydraulic pressure up to 640 MPa and pneumatic pressure up to 210 MPa.

Service items



ODMT company is the manufacturer of auto hose test machine.Its main products include: auto hose pulse test bench,hose flexibility test machine,hose burst test machine,hose pressure withstand test machine and other auto parts pressure test machines.

ODMT oil-free lubrication gas boosters include air boosters,nitrogen bosster,oxygen booster,helium booster,hydrogen booster,argon booster,etc

According to customers'requirements,the following can be ordered:air tightness pressure test system, hydraulic pressure test system,hydraulic hoses,joints,valves,pipe fittings,cylinders,presure vessels, sensors,instrument pressure test system,hydraulic hoses,joints,valves,pipe fittings,cylinders,presure vessels,sensors,instrument pressure test system,presure test and monitoring system and presure data collecting and processing system.



Company advantages

① ODMT company has always adhered to the concept of high-quality service, with an agile, efficient, experienced and dynamic team.Odimet people regard the quality of products as their life, and regard products as their own character, through continuous R & D and innovation, the product system is more mature and perfect.

② ODMT company introduces foreign advanced product technology, combines with the current situation of China's pressure detection industry to improve products. most of the equipment parts are imported products, It has established long-term cooperation with FESTO, IFM, Schneider and ASTON, these world leading famous brands provide high quality accessories for odmt, so that the company's products have a reliable quality assurance.

③ ODMT company has been focusing on the cultivation and development of professionals, with a high-quality professional team, From product development, mechanical design, equipment testing, technical services are completed by professional and technical personnel,Established a complete after-sales service system, so that customers buy products, there is no worry.

We always put customer satisfaction in the first place, accumulated years of rich experience, professional product R & D team, high-quality brand image construction, and reasonable organizational structure are the reasons why customers choose us.

MAQ Series Safety Valve Calibration Bench



Range of application: Test the set pressure, setback pressure and tightness performances of direct loaded safety valves and pilot operated safety valves.

Executive standard: TSGZF001-2006, GB-T12242-2005, GB-T12241-2005, GB-T12243-2005

Functions and features

The design principle of the equipment is advanced. The pneumatic liquid pressurization is used as the clamping pressure source, and the pneumatic gas booster pump is used as the test pressure source. The equipment is equipped with a gas cylinder, which can be tested continuously.

The test pressure is adjustable and the pressure rise is stable.

Clamping pressure source and test pressure source can be imported from USA or Germany, with wide output pressure range.

All manual high-pressure valves, pipe fittings and joints are imported products to ensure pressure level, safety and reliability, and suitable for most gas and liquid media.

Technical Parameters

- 1 - Maximum drift diameter: DN400mm
- 2 - Maximum test pressure: 60 MPa
- 3 - Pressure test precision: Pressure gauge of 0.4 grades (More precise pressure gauge can be chosen.)
- 4 - Test medium: Nitrogen, compressed air or clean water (Medium with dual-use for gas or liquid can be produced.)

MAQ-100 / 15BN type safety valve constant pressure calibration bench



Functions and features



- Maximum diameter: DN 100 mm
- Maximum test pressure: 15MPa
- Pneumatic clamping device is adopted, the clamping force is adjustable, and the pressure gauge is equipped to display the corresponding pressure. The comparison table of pressure and clamping force is provided to facilitate the operator to select the appropriate clamping force according to the calibration pressure and diameter of the safety valve.



- All valves, fittings and joints are made of stainless steel.
- The experimental process was manual operation, and the data was recorded manually.
- One test calibration base, including one clamping seat, is used for the test of DN 15-dn 100.

- Equipped with a number of experimental tooling, to meet the user's various series of safety valve test requirements.



MAQ-200/32B Gas-liquid type safety valve constant pressure test table



Gas test: 0.3-0.8MPa compressed air is used as the test pressure source, which is used for the detection test after being pressurized by the gas booster pump, and the output gas pressure can be adjusted steplessly by adjusting the pressure of the gas source driven by the booster pump;

Liquid test: 0.3-0.8Mpa compressed air is used as the test pressure source. The water source in the tank is pressurized by the gas-liquid booster pump and used for the test test. The output gas pressure can be adjusted steplessly by adjusting the pressure of the air source driven by the booster pump;

The valves, fittings and joints used are all made of stainless steel;

The test process is manual operation, and the data is recorded manually;

One test calibration station, including two clamping seats, one for DN15~DN100 test use, and one for DN100~DN200 test use;

Equipped with multiple test fixtures to meet the test requirements of various safety valves of the user.

Functions and features ▶

Maximum diameter: DN200mm;

Maximum test pressure: 32MPa;

Pneumatically controlled hydraulic tightening device is adopted, the clamping force is adjustable, and a pressure gauge is provided to display the corresponding clamping force, and a comparison table of pressure and clamping force is provided to facilitate the operator to verify the pressure and pressure according to the safety valve. Select the appropriate clamping force for the diameter.

MAQ-400/40BA safety valve constant pressure test table



The valves, fittings and joints used are all made of stainless steel;

The test process is manual operation, and the data is recorded manually;

Two test and verification stations, one of which includes two clamping seats, a total of three clamping seats, one for DN15~DN100 testing, one for DN100~DN200 testing, and one for DN200~ DN400 test use

Equipped with multiple test fixtures to meet the test requirements of various safety valves of the user.

Functions and features ▶

Maximum diameter: DN400mm;

Maximum test pressure: 40MPa;

Pneumatically controlled hydraulic tightening device is adopted, the clamping force is adjustable, and a pressure gauge is provided to display the corresponding clamping force, and a comparison table of pressure and clamping force is provided to facilitate the operator to verify the pressure and pressure according to the safety valve. Select the appropriate clamping force for the diameter.



Functions and features

- 01 Pneumatic clamping and air-driven hydraulic clamping device are used, the clamping force is adjustable, and a pressure gauge is displayed to show the corresponding clamping force. A comparison table of pressure and clamping force is provided to facilitate the operator to verify the pressure and communication according to the safety valve. Select the proper clamping force.
- 02 Gas test: 0.3-0.8MPa compressed air as the test pressure source, which is used for the detection test after being boosted by the gas booster pump, and the output gas pressure can be adjusted steplessly by adjusting the pressure of the driven gas source of the booster pump;
- 03 The test process is automatic control, automatic control booster system work output high-pressure gas filling into the tested safety valve, the pressure of the tested safety valve reaches the final pressure to open, and then determines the qualified, the other is unqualified;
- 04 The measured safety valve pressure is determined as manual operation, manual adjustment of the tested safety valve open pressure;
- 05 The computer control system is adopted, and the test pressure can be set within the range as required;
- 06 Using Labview software from NI of the United States, with dynamic display and automatic record storage to display the safety valve calibration time and pressure curve, and can directly print out the calibration report and calibration curve;
- 07 The booster pump is independently processed and produced by our company, and its internal seals are imported from the original;

Functions and features



- 08 The valves, fittings and joints used are all made of stainless steel;
- 09 Test tools can be equipped according to customer needs to meet customer testing requirements for safety valves.
- 10 During the test, if there is leakage or the pressure is too high, it can automatically shut down and alarm buzzer;
- 11 The test bench is also equipped with an emergency button, and the test can be stopped immediately if there is an intentional event.

OMG-150 safety valve manual grinding tool



Functions and features

It can achieve high precision that the electric grinder cannot reach;

Easy to carry and suitable for on-site operation;

This set of tools consists of grinding head, grinding plate and fixed auxiliary tools;

OYM-150T safety valve grinding machine



Functions and features

Dynamic grinding of the valve seat: the valve body rotates and the hand-held mold grinds, which can keep the same, retain the advantages of manual grinding, and overcome the inefficiencies of manual grinding.

Multi-track grinding of disc.

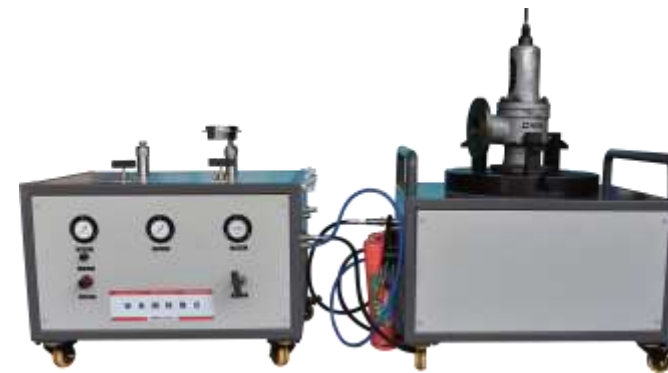
High efficiency and high quality: It is convenient to install and change specifications, has low labor intensity, and does not require special training.

Adjustable automatic grinding agent (oil) device.

Single-phase 220V civil electric drive.

Widely used, the configuration of positioning heads and perforated plates of various specifications can adapt to various diameters within the specifications, various safety valves and other flat metal surface grinding.

Portable safety valve constant pressure calibration station



Functions and features

Check the diameter range: flange type DN25~200mm safety valve, A27W-10T safety valve with inch thread type 1/2~ 2 1/2, M27*1.5, M30*1.5, M33*1.5 metric thread safety valve.

The highest calibration pressure: 32MPa, two-way air intake, high-pressure air source prepared by the user (can be equipped with a booster system)

Safety valve online pressure calibrator



Functions and features

Light weight, small size, simple operation, easy to carry

The computer can automatically record the values of the opening pressure and sealing pressure of the safety valve, and can directly print out the calibration report and calibration curve, so that the test results are more accurate, can be stored, strong recourse.

For more detailed information, please request from JINAN ODMT FLUID CONTROL EQUIPMENT CO.,LTD

Portable safety valve calibration table
(luggage casetype) MAQ-100/15BN



Technical parameters:

- 1、 maximum check warp: DN100mm;
- 2、 Maximum check pressure: 15MPa; 3、
Test medium: bottled 3-15MPa nitrogen;
- 4、 The clamping seat is suitable for DN15-DN100 mm medium and low pressure safety valves.
- 5、 Calibration accuracy: 0.4%, including 6 precision pressure gauges with accuracy of 0.4% and measuring ranges of 0-1.6 MPa, 0-4.0 MPa and 0-16 MPa respectively;
- 6、 Equipment configuration:
One calibration seat and operation cabinet;
One center pad DN20, 25, 32, 40, 50, 65, 80 and 100 each
There are 30 "O" type sealing rings with relevant specifications in total
Two external hoses M16 x 1.5l = 3m

The safety valve calibration table consists of two parts, one is the operation box, and the other is the clamping table.

The operation box adopts luggage case structure, including check valve, unloading valve, precision pressure gauge joint, test air source input interface, test air source output interface, high pressure pipeline, etc.

The clamping table is of detachable structure, and the base is connected by bolts, which makes it easy to disassemble. The power source of the clamping table is a manual hydraulic pump, which is made of ENERPAC of America, with stable pressure increase and pressure maintaining.

Each set of equipment is equipped with 2 accessory boxes, including precision pressure gauges, pipelines, testing tools, etc.

Portable safety valve test bench
MAQ-200/32BN-S



Clamping table (including operation, excluding pressurization system)



Clamping table (including operation, excluding pressurization system)



Operating table (including gas pressurization system)+clamping table

The portable safety valve test bench includes two parts: pressurization system and clamping system. The pressurization system uses a gas booster pump to pressurize nitrogen with a pressure of 2-15MPa to 2-32MPa, which is used as a high-pressure gas source for safety valve testing; Clamping parts are clamped by hydraulic cylinders, including manual hydraulic pumps, hydraulic cylinders, high-pressure hoses, chucks, jaws, sealing devices, etc, The calibration caliber is DN15-DN200mm.

Technical parameters of portable safety valve calibration table

1, calibration diameter range:

- 1 - Flange-type DN25~200mm safety valve
- 2 - English threaded 1/2"~ 2 1/2 "A27W-10T safety valve
- 3 - M27*1.5, M30*1.5 and M33*1.5 metric screw safety valves.

2, Maximum check pressure: 32MPa, with two air intakes, with high pressure air source provided by the user (optional pressurization system).

3, Pneumatic clamping structure, with clamping force adjustable structure, with clamping force of 1 ~ 9 tons being stepless adjusted (hydraulic clamping can also be selected).

4, Calibration accuracy: 0.4%.

5, Use medium: clean compressed air and nitrogen at normal temperature

6, Dual-meter configuration, with quick-twist pressure gauge structure.

7, Overall dimensions of clamping table: length * width * height 750 mm × 650 mm × 700 mm.

8, Overall dimensions of the supercharging system (which can be used for operating table): length * width * height 800mm×650mm×700mm

Equipment characteristics

1, It is convenient to carry, and the equipment can be transported to the site for use.

2, It occupies a small area and saves space.

3, The computer can be extended to record the opening pressure and sealing pressure of the safety valve automatically, so that the calibration report and calibration curve can be printed directly, which makes the test result more accurate, storable and traceable.