ZSYJ-300A - Automatic Valve Pressure Test Bench

Vertical, top clamping cylinder, full automatic test cycle

Changxun Machinery
Nanjing, China
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DN50 - DN300 / up to 40 MPa

Automatic

Valve size range	DN50 - DN300
Test pressure	1.6 - 40 MPa water, final pressure set per requirement
Air test	Manual air test circuit
Clamping	Top cylinder o180, maximum clamping force 80 t, stroke 350 mm
Structure	Vertical frame, single top cylinder presses the valve onto the fixed table
Test cycle	Water filling, air purging, clamping, pressurising and release run as one automatic cycle
Loading	Upper beam rotates 90 degrees so the valve can be loaded from the side
Recording	Pressure curve on screen, record exported as CSV file
Medium	Water, recirculated from the built-in tank

APPLIED STANDARDS

- Shell test at 1.5 times nominal pressure, seat test at 1.1 times nominal pressure
- ISO 5208 / EN 12266-1 / GB/T 13927 tightness classes

Pressure note. 40 MPa is used on the small end of the size range. On DN250 - DN300 the pressure actually applied is set by the valve class, and the clamping force is calculated together with the pressure you need. Send the size and class and the configuration is confirmed in writing.

SYJ-600SQ - Water and Air Valve Test Bench

Twin column, single beam, top cylinder, movable worktable

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DN50 - DN600 / water 40 MPa / air 4 MPa

Semi-automatic

Valve size range	DN50 - DN600
Test pressure	Water 0 - 40 MPa; air test 4 MPa
Clamping	Top cylinder o200, maximum clamping force 90 t, stroke 350 mm
Structure	Vertical, twin column, single upper beam, top cylinder presses down
Worktable	Movable - the table runs out of the frame, so the valve is loaded without a crane at the frame
Water paths	Inlet at top and bottom; upper and lower chamber are pressurised separately, no second clamping
Output	External high pressure outlet for a second test point
Medium	Water for the pressure test, compressed air for the tightness test

APPLIED STANDARDS

- Shell test at 1.5 times nominal pressure, seat test at 1.1 times nominal pressure
- ISO 5208 / EN 12266-1 / GB/T 13927 tightness classes

Pressure note. Water 40 MPa applies to the small end of the range. DN350 - DN600 are tested at the pressure their class requires, normally up to 16 MPa. The clamping force and the frame are sized for the largest valve and the highest class you will actually test.

YSYJ-300 - Valve Pressure Test Bench

Vertical, top cylinder, moving worktable, upper and lower inlet

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DN50 - DN400 / water 40 MPa / air 0.8 MPa

Semi-automatic

Valve size range	DN50 - DN400
Test pressure	Water 0 - 40 MPa; air test 0.8 MPa
Flange diameter	580 mm
Clamping	Top cylinder o180, maximum clamping force 80 t, stroke 350 mm, extension rod available
Structure	Vertical, twin column, single beam
Worktable	Movable, travel 400 mm - the valve is loaded outside the frame
Water paths	Inlet at top and bottom; upper and lower chamber pressurised separately, no second clamping
Sequence	Low pressure pump fills, high pressure pump raises to the set value and stops, hold time counts down, alarm at the end of the hold

APPLIED STANDARDS

- Shell test at 1.5 times nominal pressure, seat test at 1.1 times nominal pressure
- ISO 5208 / EN 12266-1 / GB/T 13927 tightness classes

Pressure note. 40 MPa applies to the small end of the range. The pressure applied on DN300 - DN400 is set by the valve class, and the clamping force is calculated together with it.