

Italcontrol®
...your gate to the world of testing



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1.0 Introduction & Company Background

The prevention, control and detection of emission is one of the main goals when it comes to safety in valve's manufacturers that ensuring the reliability and safety of the plant where they are installed.

Italcontrol, an Italian manufacturer with experience dating back to the beginning of the 90s in the field of valve testing and calibration, is able to offer one of the most complete lines of high quality test bench units and special equipments for industrial valves and actuator testing and control as well as special design for all shut-off, control and safety valves according to the existing standards.

The various kind of specialized works carried out and problems solved, together with advanced product development and research into any new technology and solution allows Italcontrol to also offer highly specialized testing systems for extremely high hydraulic and pneumatic pressures.

Italcontrol believes every product needs its own test bench, different requirements or special tests that could be on the norm and has made customized solutions one of his strong points. In cooperation with his clients Italcontrol builds test bench units and special equipments but it is among the most advanced in the world.

Present on all 5 continents through Agents and/or Distributors, **Italcontrol** is one of the major manufacturers of testing system on the market and his made in Italy style is also a synonymous with quality and efficiency. Italcontrol commitment to his customers is to provide them with the highest quality customized products for any specific need satisfying their own technical specification!



“Our Team”



1.1 Quality assurance



Italcontrol organization and procedures are based on an effective quality system, based on ISO 9001:2000 and also TÜV certified, in order to guarantee all his customers that every requirement of the requisition and agreed documentation is satisfied with transparency and efficiency.

A quality assurance plan can be submitted for customer approval in order to provide a clear and efficient monitoring of his activities. Italcontrol ensures the technical and QA requirements specified in the enquiry and purchase documentation are applied to all materials and services provided by his subcontractors and permits the complete traceability of any material.

All the components assembled on the final product have been selected from among the most important brands and the most critical ones have only been verified after strict laboratory analysis and testing.

Horizontal test benches

Series HTS

- horizontal test benches with one or two screws, in symmetrical or inclined (30° or 45°) position
- valve range under testing from 1/2" to 84"
- maximum reaction force up to 5000 tons
- test according to API, ANSI, DIN, BS, ISO, EN
- hydraulic pressure test up to 4000 bars
- gas pressure test up to 2100 bars
- vacuum system
- cavity line
- single or double valve support/jack
- analogical or electronic leakage measuring systems
- ATEX conformity (optional)



HTS 1



HTS 2



HTS 3



HTS 4

Horizontal test benches

Type of the test bench	Valve size and ANSI class		Max reaction force (in tons)	Inner distance between column structure (in mm)	Distance between center flanges w/o adapters (in mm)		Low pressure pneumatic test	High pressure liquid test
	Min	Max			Min	Max		
HTS-20	1/2" 2500	4" 900	20 tons	300 mm	0	600	0-7 bar at plant line (*)	0-700 bar (**)
HTS-100	1/2" 2500	8" 900	100 tons	680 mm	50	800	0-7 bar at plant line (*)	0-700 bar (**)
HTS-200	2" 2500	12" 900	200 tons	1050 mm	100	1200	0-7 bar at plant line (*)	0-700 bar (**)
HTS-300	2" 2500	16" 900	300 tons	1010 mm	100	1300	0-7 bar at plant line (*)	0-700 bar (**)
HTS-450	4" 2500	24" 600	450 tons	1280 mm	200	1800	0-7 bar at plant line (*)	0-700 bar (**)
HTS-600	4" 2500	30" 600	600 tons	1420 mm	200	2060	0-7 bar at plant line (*)	0-700 bar (**)
HTS-800	6" 2500	34" 600	800 tons	1600 mm	400	2560	0-7 bar at plant line (*)	0-700 bar (**)
HTS-1100	6" 2500	42" 600	1100 tons	2120 mm	400	2930	0-7 bar at plant line (*)	0-700 bar (**)
HTS-1800	8" 2500	48" 600	1800 tons	2200 mm	480	3180	0-7 bar at plant line (*)	0-700 bar (**)
HTS-2600	12" 2500	60" 600	2600 tons	2800 mm	600	4875	0-7 bar at plant line (*)	0-700 bar (**)
HTS-4000	12" 2500	84" PN 100	4000 tons	3000 mm	600	5100	0-7 bar at plant line (*)	0-700 bar (**)

*) Gas test systems up to 2100 bar available on request

**) Liquid (water) test systems up to 4000 bar available on request

Vertical test benches

Series VTS

- vertical test benches
- valve range under testing from 1/2" to 120"
- maximum reaction force up to 3000 tons
- test according to API, ANSI, DIN, BS, ISO, EN
- hydraulic pressure test up to 4000 bars
- gas pressure test up to 2100 bars
- cavity line
- analogical or electronic leakage measuring systems
- actuator torque measurement up to 150.000 Nm
- mobile support to load the valve
- ATEX conformity (optional)

In the test bench with a face-to-face clamping system made by hydraulic cylinder, the pushing force is regulated in a proportional way to prevent any compression or damaging of the valve body.



VTS 1



VTS 2



VTS 4



VTS 3

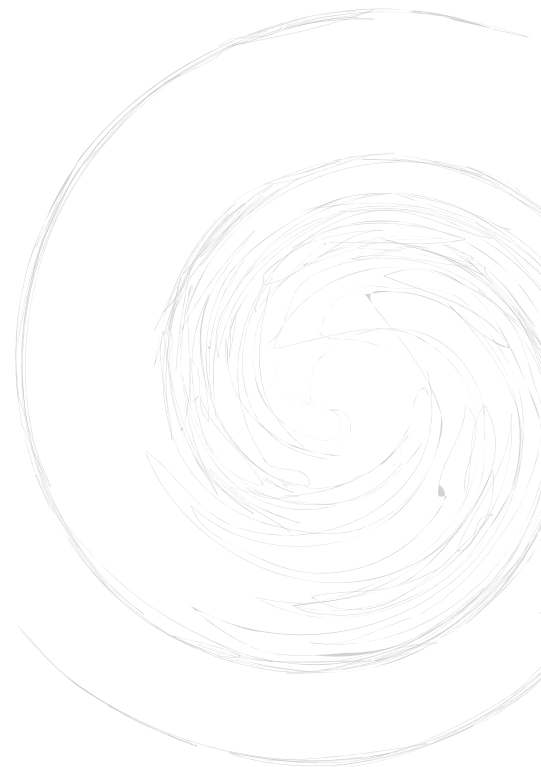
Vertical test benches

Type of the test bench	Valve size and ANSI class		Max reaction force (in tons)	Inner distance between column structure (in mm)	Distance between center flanges w/o adapters (in mm)		Low pressure pneumatic test	High pressure liquid test
	Min	Max			Min	Max		
VTS-30	1/2" 2500	6" 300	30 tons	620 mm	100	660	0-7 bar at plant line	0-700 bar (**)
VTS-100	1/2" 2500	8" 600	100 tons	850 mm	200	940	0-7 bar at plant line	0-700 bar (**)
VTS-200	1/2" 2500	10" 900	200 tons	950 mm	300	1200	0-7 bar at plant line	0-700 bar (**)
VTS-300	2" 2500	12" 900	300 tons	1050 mm	300	1300	0-7 bar at plant line	0-700 bar (**)
VTS-600 (2P)***	6" 2500	48" 150	600 tons	1900 mm	230	880	0-7 bar at plant line	0-700 bar (**)
VTS-1400	30" 900	120" PN15	1400 tons	3850 mm	200	1340	0-7 bar at plant line	0-700 bar (**)
VTS-1500 (2P)***	16" 2500	54" 300	1500 tons	2120 mm	200	1055	0-7 bar at plant line	0-700 bar (**)
VTS-3000	20" 2500	36" 1500	3000 tons	1670 mm	400	1000	0-7 bar at plant line	0-700 bar (**)

*) Gas test systems up to 2100 bar available on request

**) Liquid (water) test systems up to 4000 bar available on request

***) 2P = two sides loading / bridge moving for one testing side



Tilting test benches

Series TTS

Series of test benches able to test the valve in horizontal, vertical or inclined (tilting) position to simulate the real work.

In horizontal position it's easier to place the valve into the test bench and it's also possible to assembly some particulars as bellows, actuators, steering and so on.

In vertical position the evacuation of the air out the valve is assured during the water filling.

- valve range under testing from 1/2" to 16" (up to 36" optional)
- maximum reaction force up to 200 tons
- test according to API, ANSI, DIN, BS, ISO, EN
- hydraulic pressure test up to 4000 bars
- gas pressure test up to 2100 bars
- cavity line
- analogical or electronic leakage measuring systems
- ATEX conformity (optional)



TTS 1



TTS 2

Tilting test benches

Type of the test bench	Valve size and ANSI class		Max reaction force (in tons)	Inner distance between column structure (in mm)	Distance between center flanges w/o adapters (in mm)		Low pressure pneumatic test	High pressure liquid test
	Min	Max			Min	Max		
TTS-100	2" 2500	12" 300	100 tons	700 mm	100	1000	0-7 bar at plant line	0-700 bar (**)
TTS-200	2" 2500	16" 600	200 tons	900 mm	300	1300	0-7 bar at plant line	0-700 bar (**)

*) Gas test systems up to 2100 bar available on request

**) Liquid (water) test systems up to 4000 bar available on request

Muti-stations test benches

Series MTS

Test benches for multiple vertical tests up to 5 valves at the same time

Principal characteristics as series VTS

- valve range under testing from 1/2" to 12"
- maximum reaction force 400 tons on all stations
- discrimination of the leakage for every test station
- test according to API, ANSI, DIN, BS, ISO, EN
- hydraulic test up to 4000 bars
- gas test up to 2100 bars
- actuator torque measurement up to 150.000 Nm
- analogical or electronic leakage measuring systems
- ATEX conformity (optional)



HTS 1



HTS 2



HTS 3



HTS 4

Muti-stations test benches

Type of the test bench	Valve size and ANSI class		Max reaction force (in tons)	Inner distance between column structure (in mm)	Distance between center flanges w/o adapters (in mm)		Low pressure pneumatic test	High pressure liquid test
	Min	Max			Min	Max		

MTS-3-75	3 x 1/2" 2500	3 x 4" 600	75 tons	1370 mm	100	650	0-7 bar at plant line	0-700 bar (**)
MTS-3-100	3 x 1/2" 2500	3 x 8" 300	100 tons	1920 mm	200	900	0-7 bar at plant line	0-700 bar (**)
MTS-3-150	3 x 1/2" 2500	3 x 4" 1500	150 tons	1600 mm	50	700	0-7 bar at plant line	0-700 bar (**)
MTS-3-240	3 x 2" 2500	3 x 10" 300	240 tons	1750 mm	200	1100	0-7 bar at plant line	0-700 bar (**)
MTS-3-360	3 x 2" 2500	3 x 12" 600	360 tons	1870 mm	185	1075	0-7 bar at plant line	0-700 bar (**)

MTS-5-75	5 x 1/2" 2500	5 x 3" 600	75 tons	1580 mm	200	800	0-7 bar at plant line	0-700 bar (**)
MTS-5-250	5 x 1/2" 2500	5 x 4" 1500	250 tons	2400 mm	100	900	0-7 bar at plant line	0-700 bar (**)

*) Gas test systems up to 2100 bar available on request

**) Liquid (water) test systems up to 4000 bar available on request

Safety relief valve test benches

Series SVA

Test benches for safety "relief" valves.

Designed for testing and setting any type of safety and pilot operated valve according to API 526 and API 527

The SVA series is suitable for testing industrial valves according to following:

Mod.30

- Flanged ½" to 4"
- Threaded ½" to 2"

Mod.50

- Flanged 1" to 6"
- Threaded ½" to 2"

Mod.100

- Flanged 2" to 12"
- Threaded ½" to 2"

Mod.170

- Flanged 2" to 16"
- Threaded ½" to 2"

The test media :

- **Liquid (water)**
- **Air**
- **Gas**

The maximum air pressure test is 200 bar (through internal air compressor), gas pressure test is 1200 bar (through gas booster) and liquid pressure test is 2100 bar.



SVA 1



SVA 3

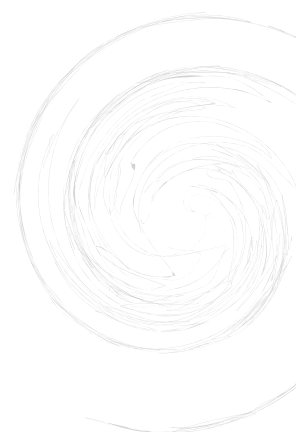
Safety relief valve test benches

SUFFIX SVA

AC	Automatic piloting console
B	Pressure Test in Air or in Gas through External line or Bottle at max 200 bar
C	Pressure Test in Air from internally mounted air compressor at max 200 bar
GB400	Pressure Test in Gas from HP internally mounted HP gas booster at max 400 bar
GB700	Pressure Test in Gas from HP internally mounted HP gas booster at max 700 bar
GB1200	Pressure Test in Gas from HP internally mounted HP gas booster at max 1200 bar
W	Liquid Test = Water
W350	Max Liquid Test = Water Pressure 350 bar
W700	Max Liquid Test = Water Pressure 700 bar
W1200	Max Liquid Test = Water Pressure 1200 bar
MA	Manual Clamping system through 3,4 or 6 claws
MC1	Automatic/Hydraulic Clamping system through cylinder with max reaction force of 50 tons
MC2	Automatic/Hydraulic Clamping system through cylinder with max reaction force of 100 tons
MC3	Automatic/Hydraulic Clamping system through cylinder with max reaction force of 200 tons
EBC	Electronic (laser) air bubble counter
EDC	Electronic (laser) water drop counter
PC	Hardware/Portable laptop for registration system
PRI	Printer
VAC	Vacuum system



SVA 2



Special test benches

Series STS

Special test benches made on customer specification or on the base of particular rules

- "Hot oil" test up to 150 C°
- cryogenic tests up to - 196 C°
- test system for CV calculation
- station for nitrogen production
- equipment for submerged test in water
- special equipment for test and assembling
- portable test systems



STS 1



STS 2



STS 3

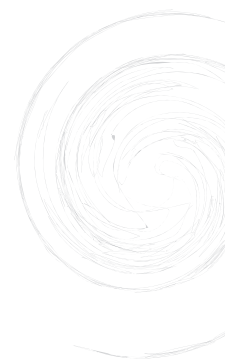


STS 4

Series ATS

Special test benches for valve actuator and spring insertion/testing

- maximum torque control up to 2.000.000 Nm
- maximum angle control 100° or multi-turn
- both static and dynamic test
- both clockwise and anticlockwise rotation



ATS 1



ATS 2



ATS 4

How to reach us

Highway A8 from Milan (north direction), exit to Castellanza, after 5 km you find us in the industrial area of Marnate VA.

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Marnate



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