

PSV TEST UNIT



MODEL: VC2SP-T4

RANGE: ¼" – 2" / DN8 – 50 mm.

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VC2-SP-T4 Test Unit

The Ventil VC2-SP-T4 is an universal and versatile portable test unit for set pressure testing safety valves. The design and configuration is based on many years of experience in safety valve testing and repair. The test unit is fully built in-house and only first class components and materials are used. The VC2-SP-T4 is delivered ready for use.

Test box / Suitcase.

The test circuit and the small clamping unit are together built in heavy duty suitcase. The VC2-SP-T4 is design as a portable and low weight test system and only requires a high pressure source (bottled nitrogen) for operation.

Test Station

The VC2-SP-T4 clamping station is developed for quick and safe clamping of all conceivable types of safety (relief) valves. The light weight constructed clamping device operates with two vertical moving clamping claws that apply a sealing force onto the flange of the safety valve. During clamp procedures the inlet flange is compressed against the fixed clamping table with O-ring gasket. The clamp device can be set to the correct valve size by operating the central hand operated lever that slides the (2) claws simultaneously from- or to the center of the test station.

Test Systems

Gas Test System 0 – 100 bar / 1,450 PSI.

Seat tightness test system (API 527) Full Range

Maximum Set Pressure

VALVE SIZE		MAXIMUM SET PRESSURE
Inch	Mm	
¼ – 1	8 – 25	100 Bar / 1,450 PSI
2	50	50 Bar / 725 PSI

General.

Test Unit Maintenance.

The VC2-T4 requires minimum maintenance. Generally the test unit only has to be kept clean to ensure a safe and reliable performance. Periodical maintenance, testing and calibration instructions are described in the test unit manual

Certification.

At Ventil we only use first class instruments to ensure that the best possible and reliable test results are achieved. The following documents are included to ensure the machine meets the highest levels of accuracy and compliance;

- Test- and calibration certificates for all installed test pressure gauges, sensors and flow meters (if applicable).
- Factory acceptance test (FAT) report and a test-and safety report of acceptance according to EN 10204:2004 and Directive 2006/42/EC for test units.

Testing and inspection.

Testing will be done according our QC plan against a project related inspection plan and inspection procedure. Following tests are foreseen:

- Performance and functional tests at our works.
- NDE test at maximum working pressure.
- Visual inspection.
- Drawing and documents verification.

Option 122 - V-Tec Polir F6 PSV Lapping /Grinding unit.

Portable, battery driven machine for grinding and lapping flat sealing faces of globe- and safety valves. The Polir F6 machine is designed for on-site or in-shop valve reconditioning. The light weight machine is equipped for a full, universal range up to 6" / DN150 mm. The Polir F6 is standard equipped with a range of grinding and center plates for grinding and lapping any type and size of 'flat' seats. The center plate keeps the grinding plate in position, but also gives an eccentric, orbital rotation ensuring complete coverage and absolute flatness.

Abrasives

The Polir F6 is completed with a large consumer quantity of polyester based, 3M self-adhesive aluminum oxide round foil tips in grains rough, middle and fine. The foil tips can be used dry and on all common seat materials.

Drive machine

The Polir F6 is standard equipped with a battery driven machine and is delivered with two batteries. The low weight and good balance of the machine increases the grinding performance and makes it easier to attain high quality flat 'results'. The complete set is packed in a robust, but light weight carrying case. Contact us or look at www.valve-lapping.com for other valve lapping solutions.



Datasheet

Range	¼ – 2" / DN8 – 50 mm.
Test Station Operation.	Hydraulic - manual operated
Gas / Air Test System.	100 bar / 1450 PSI.
System	Accurate Regulator with two SS Needle Valves.
Pressure Reading	Pressure Gauge. 0 – 25 bar / 360 PSI cl 0.6
	Pressure Gauge. 0 – 100 bar / 1450 PSI cl 0.6
(Laser) Bubble counter	Not included
Test Procedures according to common test standards.	Set Pressure Testing with air / gas
O'ring sealing plates	RF connection (DIN/ANSI) up to maximum pressure level.
Clamping Force (maximum).	2 Metric tons.
Height under the Claws.	0- 38 mm / 0 – 1.5" .
Flange outline Diameter.	Ø 95 mm / 3.7"
Clamping Table Diameter.	Ø 85 mm / 3.4"
Clamping Table Material.	SS304
Dimensions / weight	555 x 410 x 290 mm l x w x h / 26 kg – 21.8" x 16.1" x 11.8 / 57 lbs
Required connections	High pressure : nitrogen / compressed air source 100 bar / 1,450 PSI.
Delivery	Ready for use (see optional features)