

Ventil

TEST UNIT FOR CONTROL VALVES



MODEL: HC-5

RANGE: ½ – 6"

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The Ventil HC-5 is an universal and versatile test unit for testing and readjusting valves. The clamping system is designed and equipped for linear shaped control valves with flange and up to 6". The design and configuration is based on many years of experience in valve testing and repair. The test unit is fully built in-house and only first class components and materials are used. The HC-5 is delivered ready for use.

Range	½ - 6" / DN15 - 150 mm.	
Clamping method	Hydraulic clamping, force setting per regulator diameter by regulator	
Test system / range	High pressure gas	0 - 25 bar / 360 PSI.
Test procedures according to all common test standards	Body test with gas	
	Single directional (A ->B) pressure testing and readjusting with gas	
Test fluid	Gas (compressed air or Nitrogen) from external source, maximum supply pressure 200 bar / 2,900 PSI. The control panel features a pressure gauge 0-250 bar / 3,600 PSI gauge to indicate the gas supply pressure.	
Maximum test pressure	The complete range up to 6" can be tested up to 20 bar / 290 PSI. The pressure is controlled by manually controlled pressure regulator.	
Test pressure reading, registration and certification	The pressure on the in / outlet ports of the test object is shown on dedicated pressure gauges 0 – 25 bar / 360 PSI, case diameter 160 mm. Class 0.6. Optional: Computer Registration System, fully integrated, Windows 7	
Clamping system	Hydraulic clamping system, clamping force 0 - 5 metric ton	
Distance between columns	500 mm / 20"	
Dist. between the sealing adapters	0 – 500 mm / 20"	
Safety features (standard)	Safety screen	
	Safety interlock embedded in the operating system	
	'Kill' switch (2-hand operation)	
	Flash light, connected to the high pressure test system(s)	
Dimensions / weight	1.2 x 0.7 x 1.4 meter - 225 kg.	
Required connections	Single phase 230 V 50Hz.	
	Utility / shop air 7 bar / 100 PSI	
	Gas (Compressed air / Nitrogen)	
Delivery	Ready for use (see optional features)	

Measuring and actuation line

The actual test pressure is measured and indicated on both the in (A) and outlet (B) side of the pressure regulator. The control panel is therefore completed with 2 high quality (Stainless Steel) pressure gauges, completed with calibration certificates.

The outlet (B) side is completed with a T-connection with pressure hose to connect the line pressure to the actuator.

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Clamping system

The strong and robust constructed clamping system is designed for quick - clamping of all linear shaped regulators with tread or flange connections.

The test object is clamped between 2 Stainless Steel sealing adapters. For easy positioning and alignment during clamping, these sealing adapters are completed with conical shaped sealing plates, material Vulkolan. The conical shaped sealing plates are suitable for both thread and flange connections. The sealing adapters have center and side connections for the test system. The left side sealing adapter is placed on the long stroke hydraulic cylinder, used for adapting the clamping system to the body length (face to face) dimension of the regulator and for generating the actual clamping force. The right side sealing adapter is fixed to the construction – retainer plate.

The clamping force can be adjusted per valve diameter by hand-controlled pressure control valve. A table with the required clamping force per diameter is placed on the control panel.

