Test Stand For Pneumatic Valves

>PPV3<

The equipment is developed to test different pneumatic engine components for troublefree function.

Testing of:

- Bleed Valves
- Butterfly Valves
- HPT/LPT ACC Valves
- Solenoid Valves
- Differential Pressure Switches
- Pressure Switches
- Oil Tanks

> Modular pneumatic circuitry provides many different interconnections

> Hydraulic fixtures for easy UUT mounting

> Manual and automatic test procedures

> Ergonomically designed test and operation area with rotatable and pivotable operating arm and touch panel

> Evaluation of electrical parameters of the UUTs

GENERAL INFORMATION

- Stainless steel profile frame, aluminium front panels and doors or covers of stainless steel
- Big clamping bed for diverse adaptions for UUT mounting
- Broad sliding doors of laminated safety glass (LSG) and integrated safety door monitoring to protect the user
- Colourless anodized front panels with bilingual labelling (German and English) are permanently resistant against mineral and synthetic oils, fuels and cleaning detergents
- Remote maintenance of the test stand by the Ethernet connection
- Compact setup and easy accessibility for maintenance tasks

TECHNICAL DATA

Electrical supply (requirements):

Mains supply:	3/N/PE AC 50Hz 400V
Nominal current:	max. 10A
Power:	7kVA
Preliminary fuse:	16A

Pneumatic supply (requirements):

Compressed air:

Pressure :	6bar	(87.0psi)
Flow :	min. 700lpm	(184.9USgpm)

In-house nitrogen line:

Pressure :	27bar	(391.6psi)
Flow :	min. 700lpm	(184.9USgpm)

Nitrogen bottle:

Pressure:	65bar	(942.7psi)
Flow:	min. 700lpm	(184.9USgpm)

Operating conditions:

Ambient temperature:	5 to 35°C (41 to 95°F)
Storage temperature:	0 to 60°C (32 to 140°F)
Height:	up to max. 1,000m MSL (3,280ft)
Rel. humidity:	5 to 95% (non-condensing)
Max. noise emission:	<68.0dB(A) in 1m distance

Dimensions and weight:

Width:	approx. 3,400mm	(133.9in)
Depth:	approx. 2,500mm (incl. swivel arm)	(98.4in)
Height:	approx. 2,550mm	(100.4in)
Weight:	approx. 1,950kg	(4,300.0lb)

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MEASUREMENTS

> Pressure measurements:

Measuring circuit 1:

0 to 1bar	(0 to 14.5psi)
0 to 10bar	(0 to 145.0psi)
0 to 60bar	(0 to 870.2psi)

Measuring circuit 2:

0 to 1bar	(0 to 14.5psi)
0 to 10bar	(0 to 145.0psi)
0 to 60bar	(0 to 870.2psi)

Differential pressure measurement:

0 to 0.2bar	(0 to 2.9psi)

Tolerance: ±0.25% of measuring range

> Flow measurements:

Flow measuring track 1:

0.05 to 2.5Nl/min	(0.013 to 0.7USgpm)
0.7 to 35Nl/min	(0.18 to 9.2USgpm)
5.4 to 270Nl/min	(14.3 to 71.3USgpm)

Flow measuring track 2:

0.2 to 10Nl/min	(0.05 to 2.6USgpm)
2 to 100Nl/min	(0.5 to 26.4USgpm)
14 to 700Nl/min	(3.7 to 184.9USgpm)

Tolerance: ±1% of full scale

> Current measurements:

(2-off)	0 to 1ADC

Tolerance: ±0.5% of measuring range

> Voltage measurements:

(2-off)	0 to 35V
(1-off)	0 to 10Vrms

Tolerance: ±0.5% of measuring range

> Temperature measurements:

(1-off)	-20 to +80°C	(-4 to +176°F)
(2-off)	20 to 90°C	(68 to 194°F)

Tolerance: ±1°C (±1.8°F) absolute

OPTIONS

Various options are available to meet our customers' requirements.
e.g.: Adaption to numerous UUTs, test program command, dimensioning,...

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