

PRESYS®

PSV PORTABLE STATION

A family of compact, digital, easy operated and portable stations, for test and calibration of safety and relief valves, with connections from ½" to 6".



www.presys.com.br

PSV STATION

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Equipped with a data acquisition system that allows automatic detection of opening pressures (SET).

The **PRESYS** PSV portable station is a complete solution, composed of portable a test table and a control case that communicates with the calibration software Isoplan-5[®], emitting complete and detailed certificates and test reports for pressure safety valves (PSV) and pressure relief valves (PRV).

Pneumatic.

Configurable Digital indicator according to the engineering unit of the tested valve.

Available units: psi, bar, MPa, kPa, kgf/cm², gf/cm² (others units under consult).

Easy to install and ready to use.

Nitrogen or air operated.

PRESSURE RANGES AVAILABLE*

500 psig (35 bar) / 1000 psig (70 bar) / 3000 psig (210 bar)

**other pressures on request*

STANDARD FEATURES

- ▣ AUTOMATIC ACQUISITION of SET Pressure value.
- ▣ 0.1 % FS High accuracy digital pressure acquisition and measurement system.
- ▣ Calibration certificates for all pressure indicators.
- ▣ Pressurized valve sinalization.
- ▣ Threaded valves up to 2", with set thread female NPT adapter's kit for up to 5000 psi (350 bar).
- ▣ Mounting flanged valves: from 1" (DN 25) to 6" (DN 150).
- ▣ Easy to operated control panel with precision regulator for fine adjustment of pressure.
- ▣ Manual clamping system with up to 4 clamps.
- ▣ Output for external pressure standard gauge with fast connection – tool free. It can be used as gauge calibration port.
- ▣ Dimensions: Carrying case: 470 x 357 x 176mm - Table: 542 x 530 x 210mm
- ▣ Carrying case: 10 kg - Table: 22 kg - Table with accessories: 45 kg.

INCLUDED ACCESSORIES

Set thread female NPT adapters

Sizes:
1/2", 3/4", 1", 1 1/4", 1 1/2" e 2".
Maximum pressure up to 3000 psi (210 bar)
Other size/pressure, under consult.



Manual clamping system



Flange adapters for test

For test flanged valves from 1/2" (DN 15) to (DN 150) With polyurethane O-ring gasket.



COMPANY: PRESYS INSTRUMENTS CO.
 INSTRUMENT: SAFETY VALVE
 FUNCT.: BOILER PROTECTION
 SECTOR: PLANT ABOILER 1
 CRITICALITY: SECURITY
 O.S.: SAP001

REG. NUMBER: CRN 06715550
 TAG: PSV-1231004 - 10 bar
 CALIBRATION PERIOD: 12 Months
 PROC.: P-CO-04

PROCESS OPERATION INFORMATION

Associated Equipment: B-403
 Operating Pressure: Not Informed
 Operating Temperature: Not Informed
 PMTP: Not Informed

INSTRUMENT SPECIFICATION

Manufacturer: HANSEN USA
 Model: HANSEN USA
 Fixed Assets: N/A
 Input Connections: 2 1/2"
 Output Connection: 3"
 Threaded or Flanged Connection: FLANGED

Fluid: AIR
 Body Material: STEEL
 Seat Material: STAINLESS STEEL
 Pressure Class: 150#
 Manufacturing Standard: ASME VIII
 Hole: F

CALIBRATION AND ADJUSTMENT

INITIAL CALIBRATION

	Reference (bar)	Reading 1 (bar)	Average (bar)	Error (%)	Blowdown (%)	U (bar)
SET PRESSURE	11,00	10,70	10,70	0,30	43,93	0,14
RESEATING PRESSURE	6,50	6,00	6,00	-0,50		0,14

Leakage: LEAKING Internal State: GOOD

FINAL CALIBRATION

	Reference (bar)	Reading 1 (bar)	Reading 2 (bar)	Reading 3 (bar)	Average (bar)	Error (bar)	Blowdown (%)
SET PRESSURE	11,00	10,76	10,76	10,74	10,75	-0,25	42,7
RESEATING PRESSURE	6,50	6,25	6,06	6,16	6,16	-0,34	

COMMENTS:

- Used Norm: ASME VIII (Gas)

SUMMARY OF PERFORMED SERVICES

PARTS REPLACED SEATS
 SEAT: GRINDING, LAPPING
 STEM POLISHED
 CLEANING SOLVENT, SANDBLASTED
 PAINTING: ALUMINUM 600°C

NOZZLE MACHINED,
 SPRING VERIFIED
 UPPER SEALING SEALED
 LOWER SEALING: SEALED

LEAK TEST

FLUID: AIR NUMBER OF BUBBLES: 2 MINUTES

SHIFTING LIFT

GOOD

CALIBRATION CONDITIONS

LOCATION: PRESYS MAINTENANCE LABORATORY
 HUMIDITY: 65% PRESS: 1 atm TEMPERATURE: 21°C

USED STANDARDS

MODEL: DMY-2017-Light-1112-0-0-3-0-1 S.N.: 005.09.15 Cert. N.: R3060.07.15 Next Calib.: 15/09/2016 Scale: Pressure PSV (G)

INITIAL DIAG.: Not Approved

FINAL DIAG.: Approved

CALIBRATION: 18/02/2016

NEXT: 18/02/2017

COMMENTS

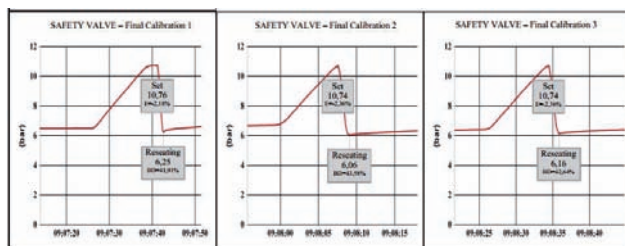
Used Norm: ASME VIII (Gas)

CERTIFICATE

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CALIBRATION GRAPHIC



PHOTOGRAPHIC REPORT



Reception

Disassembled

Completed

Jean Marc

Executant 18/02/2016 17:10:08

William Johnson

Responsible 18/02/2016 17:10:12

The set pressure is automatically registered and display on the digital pressure registration system and can be send in real-time to the ISOPLAN® Software.

ISOPLAN® calibration software allows you to record all your safety valves technical information and calibration operations in a strong database in order to meet your safety regulations.

It will generate the full calibration report that will include the calibration graphics, photos of the valve before and after maintenance as well as any technical relevant information.

PRESYS PSV Workstation is delivered ready to use and we provide training by internet conference or on-site on request. **PRESYS** products are developed in a technology context combining high quality and reliability, using a continuous improvement process. With a global presence in most regions of the world, directly or with specialized and trained distributors, **PRESYS** provides you with the right solution for you application or calibration needs, always benefiting of our entire technical support.