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PSV STATION

A family of compact, digital, easy operated and transportable stations, for test and calibration of safety and relief valves, with connections from ½" to 10" and pressures up to 10000 psig (700 bar).



PRESYS[®]
www.psvstation.com

PSV STATION

They have a unique acquisition system that allows automatic detection of opening pressures (SET) and valve closing (RESEATING).

The **PRESYS** PSV station is a complete solution, composed of a test bench 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). Isoplan PSV-5 Calibration Software one license included.

Pneumatic and hydraulic versions available.

Hybrid version with independent pneumatic and hydraulic operating circuits.

Configurable Digital indicator according to the E.U. 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 for pneumatic versions and, water or oil for hydraulic versions.

PRESSURE RANGES AVAILABLE*

500 psig (35 bar) / 1000 psig (70 bar) / 3000 psig (210 bar) / 5000 psig (350 bar)
10000 psig (700 bar) *other pressures on request

STANDARD FEATURES

- ❑ AUTOMATIC ACQUISITION of SET and RESEATING values.
- ❑ 0.1 % FS High accuracy digital pressure acquisition and measurement system.
- ❑ Calibration certificates for all pressure indicators.
- ❑ Ball valve to isolate high pressure accumulator.
- ❑ Pressurized valve sinalization.
- ❑ Data book of internal pressure vessels.
- ❑ High-strength 6mm polycarbonate shield for operator protection.
- ❑ 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 10" (DN 250).
- ❑ Manual bubble counter Assembly, with flange adapters in accordance with API-527.
- ❑ Easy to operated control panel with precision regulators for fine adjustment of pressure.
- ❑ Manual clamping system with up to 4 clamps.
- ❑ Manifold block for external pressure standard gauge with fast connection – tool free. It can be used as gauge calibration port.
- ❑ Compact dimensions (H x W x D): 1220 mm (48,0 in) x 1000 mm (39,4 in) x 1300 mm (51,2 in),
- ❑ 450 kg (992 lbs), total height with shield: 1900 mm (74,8 in).
- ❑ Suspension eyelet for easy transport.

PSV STATION

INCLUDED ACCESSORIES

Set thread female NPT adapters



Sizes:
 $\frac{1}{2}$ " , $\frac{3}{4}$ " , 1" , $1\frac{1}{4}$ " , $1\frac{1}{2}$ " e 2".
Maximum pressure up to 5000 psi (350 bar)
Other size/pressure, under consult.

Bubble counter assembly



With flange adapters, clamps and
bubble jar (API 527)

Manual clamping system



With 4 clamps set

Flange adapters for test



For test flanged valves from $\frac{1}{2}$ " (DN 15) to 10" (DN 250)
With 9 polyurethane O-ring gasket.

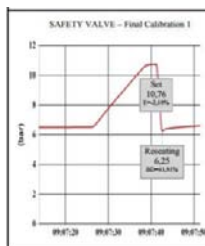
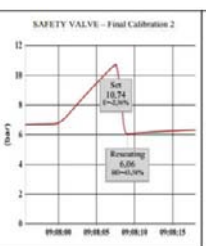
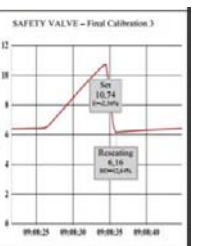
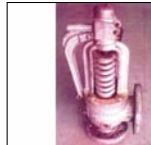




OPTIONAL ACCESSORIES

- Station operating Training.
- Extra digital pressure transducers for better accuracy measurements.
- Split Assembly, with command panel and test table separated.
- Spare O-ring gasket kit for flange test adapters.
- RTJ Flange Adapters.



PRESYS Calibration Certificate								
N.: 1/2016								
COMPANY: PRESYS INSTRUMENTS CO.								
INSTRUMENT: SAFETY VALVE	REG. NUMBER: CRN 06715550							
FUNCT.: BOILER PROTECTION	TAG: PSV-1231004 - 10 bar							
SECTOR: PLANT A/BOILER 1	CALIBRATION PERIOD: 12 Months							
CRITICALITY: SECURITY	PROC.: P-CO-04							
O.S.: SAP001								
PROCESS OPERATION INFORMATION								
Associated Equipment: B-403	Operating Temperature: Not Informed							
Operating Pressure: Not Informed	PMTP: Not Informed							
INSTRUMENT SPECIFICATION								
Manufacturer: HANSEN USA	Fluid: AIR							
Model: HANSEN USA	Body Material: STEEL							
Fixed Assets: N/A	Seat Material: STAINLESS STEEL							
Input Connections: 2 1/2"	Pressure Class: 150#							
Output Connection: 3"	Manufacturing Standard: ASME VIII							
Threaded or Flanged Connection: FLANGED	Hole: F							
CALIBRATION AND ADJUSTMENT								
INITIAL CALIBRATION								
	Reference (bar)	Reading 1 (bar)	Average (bar)	Error (bar)	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-1112-0-3-0-1 S.N.: 005.09.15 Cert. N.: R3060.07.15 Next Calib.: 15/09/2016 Scale: Pressure PSV (F)						
INITIAL DIAG.: Not Approved		FINAL DIAG.: Approved						
CALIBRATION: 18/02/2016		NEXT: 18/02/2017						
COMMENTS		Used Norm: ASME VIII (Gas)						

CERTIFICATE

PRESYS Calibration Certificate			
N.: 1/2016			
COMPANY: PRESYS INSTRUMENTS CO.			
INSTRUMENT: SAFETY VALVE	REG. NUMBER: CRN 06715550		
FUNCT.: BOILER PROTECTION	TAG: PSV-1231004 - 10 bar		
SECTOR: PLANT A/BOILER 1	CALIBRATION PERIOD: 12 Months		
CRITICALITY: SECURITY	PROC.: P-CO-04		
O.S.: SAP001			
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	
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The set pressure and reseating pressure are 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, calculation of *blowdown*, 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.

Contact Presys for detailed specifications and pricing at sales@presyscorp.com