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STATION

PSV

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).

PRESts

PSV STATION

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

The **PREFYS** 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



Bubble counter assembly



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



With 4 clamps set

Flange adapters for test

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

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.



For test flanged valves from ½" (DN 15) to 10" (DN 250) With 9 polyurethane O-ring gasket.



	SY				N.: 1/20	16					
	ESYS INSTRUM	MENTS (20.								
INSTRUMENT: SA FUNCT.: BOILEF	FETY VALVE PROTECTION	1						REG. NU	3ER: CRN 06715550 AG: PSV-1231004 - 10 bar		
SECTOR:\PLANT A\E	BOILER 1						CALIB	RATION P			
CRITICALITY: SECU	JRITY										
O.S.: SAP001								P	C.: P-CO-04	Certificate	
			PROC	ESS OP	ERATIC	ON INFO	RMAT	ION		OEIIIIIIOIIIE	
Associated Equipment:	B-403				Ope	rating Tempera	ture: Not Inf	formed			
Operating Pressure: No	t Informed				PM	FP: Not Inform	ied				
			IN	STRUM	ENT SP	ECIFIC	ATION				
Manufacturer: HANSI	EN USA					d: AIR					
Model: HANSEN USA Body Material: STEEL									•		
Fixed Assets: N/A					Seat	Material: STA	INLESS ST	TEEL			
Input Connections: 2 1	/2"					sure Class: 15			PRESYS	Calibration Certificate	
Output Connection:3"						ufacturing Sta	ndard: ASM	E VIII		N.: 1/2016	
Threaded or Flanged C	Connection: FLA	NGED			Hole	e: F			COMPANY: PRESYS INSTRUMENTS CO		
			CALI	BRATI	ON AND	ADJUS	TMENT	Г	INSTRUMENT: SAFETY VALVE	REG. NUMBER:	CRN 06715550
INITIA	L CALIBRA	TION							FUNCT.: BOILER PROTECTION SECTOR:/PLANT A/BOILER 1	TAG: PSV CALIBRATION PERIOD:	V-1231004 - 10 bar 12 Months
	-		Reference	Reading 1	Average	Error	Blowdown	U	CRITICALITY: SECURITY		
			(bar)	(bar)	(bar)	(bar)	(%)	(bar)	O.S.: SAP001	PROC.:	P-CO-04
	SET PRESSURE EATING PRESS		11,00	10,70	10,70	0,30	43,93	0,14 0,14	CALIBRATION GRAPHIC		
			.,	0,00	0,00	-0,50	1	0,14			1
Leakage:LEAKI	NG Inter	nal State	e:GOOD						SAFETY VALVE - Final Calibration	1 SAFETY VALVE - Final Calibration 2 SAFETY VALVE - Final Calibration	13
FINAL CALIBRA	TION								12	12	
		erence	Reading 1	Reading 2						10 10	
SET PRESSUI		bar) 11,00	(bar) 10,76	(bar) 10,76	(bar) 10,74	(bar) 10,75	(bar -0,25		Set 10,76 Fe2105	Set 10.74 10.74 10.74 10.74	
RESEATING PRES	SSURE	6,50	6,25	6,06	6,16	6,16	-0,23		8 E-2,18%	8 P=2305 8 P=2305	
							.,.				
COMMENTS:									e •		
Used Norm: ASME V	UL (Gee)								4 66.25 BD-41,91%	4 Reseating 6,16 6 6,16 6,16 6,16 6,16 6,16 6,16 6	
Oscu Nonii: ASWE V	III (Gas)									HUNGS 375	
			CUMM		DEDE	DMED	CDVIC	EC	2	2	
			SUMM	AKY U		ORMED		ES	0	0 0	
PARTS REPLACED SEATS NOZZLE MACHINED,									09:07:20 09:07:30 09:07:40	9:07:50 09:08:40 09:08:45 09:08:10 09:08:15 09:08:25 09:08:30 09:08:35 09:01	18:40
						ING VERIFIED					
STEM: POLISHED UPPER SEALING SEALED CLEANING SOLVENT, SANDBLASTED LOWER SEALING: SEALED											
PAINTING: ALUMINUM 600°C LOWER SEALING: SEALED								J	PHOTOGRAFIC REPORT		
	10111000 0				LEAVE	CT.			PHOTOGRAFIC REPOR		
					LEAK TH	.51				0	
FLUID: AIR			NUM	BER OF BU				MINUTES			
				S	HIFTING	LIFT					
					GOOD						
				CALIBR	ATION C	ONDITIO	NS			L' In Clark	
				CILIDI		0					
LOCATION: PRESYS HUMIDITY: 65%	MAINTENANO	CE LABC	ESS: 1 atm			TEMP	ERATURE:	21°C			
110/01/11/1.05/6		1 K	255.1 aun				LKAI OKL.	21.0			
					ED STAN				Reception	Disassembled Completed	
MODEL: DMY-2017-I	-	-0-1 S.N.	:005.09.15 Ce	rt. N.: R3060				essure PSV			
INITIAL DIAG.:Not Approved FINAL DIAG.: Approved											
CALIBRATION: 1	18/022016				NEX	T: 18/02/201	17				
					COMMEN						
					COMMEN	1.0					
Used Norm: ASME VI	II (Gas)										I
											I

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. **PREFYF** PSV Workstation is delivered ready to use and we provide training by internet conference or on-site on request. **PREFYF** 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, **PREFYF** provides you with the right solution for you application or calibration needs, always benefiting of our entire technical support.

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