



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Model: PSF & PCF Series
nmax: 3000 to 5000 (See Table Page 2)
emin: 0.2 kg to 1 kg / 0.5 lb to 2 lb (See Table Page 2)
Capacity: 1000 to 5000 kg / 2200 to 10 000 lb (See Page 2)
Platform: (See Table Page 2)
Accuracy Class: III

Submitted By:

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Standard Features and Options

See Page 2 for specific models and parameters covered by this certificate.

- PSF denotes stainless steel platforms
- PCF denotes carbon steel platforms

Load Cells used: Changzhou Newton Force Weighing System Co., Ltd. model XD6-H (500 kg – 2000 kg) [NTEP CC No. 17-059] or metrologically equivalent NTEP certified load cells.

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

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Gravity Measurement, Inc.

Weighing/Load Receiving Element / PSF & PCF Series

Application: General purpose weighing/load receiving element.

Specific Models, Sizes, Capacities and Parameters:

Model	Capacity	e _{min}	n _{max}	Platform Size
PSF0808 PCF0808	1000 kg / 2200 lb	0.2 kg / 0.5 lb	5000 / 4400	80 cm x 80 cm (31.5 in x 31.5 in)
	2000 kg / 4400 lb	0.5 kg / 1 lb	4000 / 4400	
	2500 kg / 5000 lb	0.5 kg / 1 lb	5000 / 5000	
	3000 kg / 6000 lb	1 kg / 2 lb	3000 / 3000	
	4000 kg / 8800 lb	1 kg / 2 lb	4000 / 4400	
	5000 kg / 10 000 lb	1 kg / 2 lb	5000 / 5000	
PSF1010 PCF1010	1000 kg / 2200 lb	0.2 kg / 0.5 lb	5000 / 4400	100 cm x 100 cm (39.5 in x 39.5 in)
	2000 kg / 4400 lb	0.5 kg / 1 lb	4000 / 4400	
	2500 kg / 5000 lb	0.5 kg / 1 lb	5000 / 5000	
	3000 kg / 6000 lb	1 kg / 2 lb	3000 / 3000	
	4000 kg / 8800 lb	1 kg / 2 lb	4000 / 4400	
	5000 kg / 10 000 lb	1 kg / 2 lb	5000 / 5000	
PSF1012 PCF1012	1000 kg / 2200 lb	0.2 kg / 0.5 lb	5000 / 4400	100 cm x 120 cm (39.5 in x 47.2 in)
	2000 kg / 4400 lb	0.5 kg / 1 lb	4000 / 4400	
	2500 kg / 5000 lb	0.5 kg / 1 lb	5000 / 5000	
	3000 kg / 6000 lb	1 kg / 2 lb	3000 / 3000	
	4000 kg / 8800 lb	1 kg / 2 lb	4000 / 4400	
	5000 kg / 10000 lb	1 kg / 2 lb	5000 / 5000	
PSF1212 PCF1212	1000 kg / 2200 lb	0.2 kg / 0.5 lb	5000 / 4400	120 cm x 120 cm (47.2 in x 47.2 in)
	2000 kg / 4400 lb	0.5 kg / 1 lb	4000 / 4400	
	2500 kg / 5000 lb	0.5 kg / 1 lb	5000 / 5000	
	3000 kg / 6000 lb	1 kg / 2 lb	3000 / 3000	
	4000 kg / 8800 lb	1 kg / 2 lb	4000 / 4400	
	5000 kg / 10 000 lb	1 kg / 2 lb	5000 / 5000	
PSF1215 PCF1215	1000 kg / 2200 lb	0.2 kg / 0.5 lb	5000 / 4400	120 cm x 150 cm (47.2 in x 59 in)
	2000 kg / 4400 lb	0.5 kg / 1 lb	4000 / 4400	
	2500 kg / 5000 lb	0.5 kg / 1 lb	5000 / 5000	
	3000 kg / 6000 lb	1 kg / 2 lb	3000 / 3000	
	4000 kg / 8800 lb	1 kg / 2 lb	4000 / 4400	
	5000 kg / 10 000 lb	1 kg / 2 lb	5000 / 5000	
PSF1515 PCF1515	1000 kg / 2200 lb	0.2 kg / 0.5 lb	5000 / 4400	150 cm x 150 cm (59 in x 59 in)
	2000 kg / 4400 lb	0.5 kg / 1 lb	4000 / 4400	
	2500 kg / 5000 lb	0.5 kg / 1 lb	5000 / 5000	
	3000 kg / 6000 lb	1 kg / 2 lb	3000 / 3000	
	4000 kg / 8800 lb	1 kg / 2 lb	4000 / 4400	
	5000 kg / 10 000 lb	1 kg / 2 lb	5000 / 5000	

Identification: The required markings are located on a sticker affixed to the side of the base.

Sealing: Access to the junction box is sealed with a wire security seal threaded through 2 (two) screws. The other metrological features are sealed as per the sealing instructions from the NTEP Certificate for the indicating element.

Test Conditions: This certificate is issued based upon the following tests and upon information provided by the manufacturer. For this evaluation, three units were provided as follows: a model PSF1515, 2200 lb x 0.5 lb capacity that was connected with a model



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Weighing/Load Receiving Element / PSF & PCF Series

CWB7 indicator (NTEP C17-057); and a model PCF1515, 10 000 lb x 2 lb capacity connected to a model SWB7 indicator (NTEP CC 17-057). The emphasis of the evaluation was on device design, marking, operation and compliance with influence factor requirements. Several increasing/decreasing load, shift tests and level indication tests were performed. A load of approximately 1/2 capacity was applied to the weighing / load receiving elements over 300 times and a span of over 30 days.

Evaluated By: E. Morabito (NY)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2017 Edition. *NCWM Publication 14 Weighing Devices*, 2017 Edition.

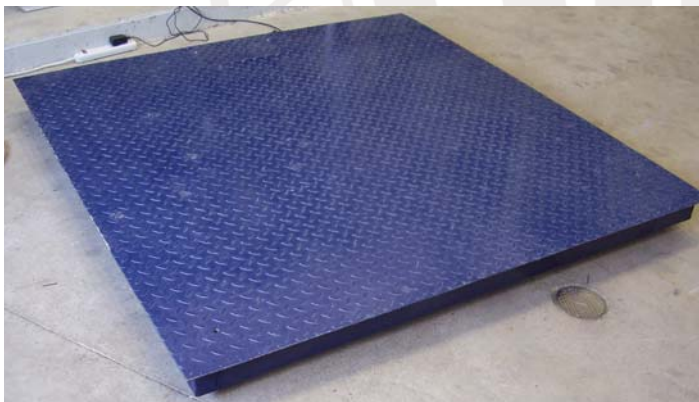
Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: J. Truex (NCWM)

Examples of Device:



Method for sealing junction box



Model PCF



Model PSF