

WORKSHEET C-1W

AIR METERS (PRESSURE TYPE)

REQUIREMENTS	: Standardize		
Standardization Frequency	Last Standardization	Date of Standardization	Next Standardization
3 Months			

N TABLE: Dimensions of Bowl: a. Inside Diameter, ir b. Inside Height, in.:	DCEDURE C-1; ASTM/AASHTO PMENT USED FOR STANDAR Equipment Name Balance (0.1 lb) Thermometer (0.5 °C) 24" Steel Ruler (0.01") 1/4" Glass Plate Caliper (0.001")	•	 umber			
MANUFACTURER: N REFERENCE: PRO URING AND TEST EQUII N TABLE: Dimensions of Bowl: a. Inside Diameter, ir b. Inside Height, in.:	PMENT USED FOR STANDAR Equipment Name Balance (0.1 lb) Thermometer (0.5 °C) 24" Steel Ruler (0.01") 1/4" Glass Plate Caliper (0.001")	DIZATION:	umber			
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Dimensions of Bowl: a. Inside Diameter, in b. Inside Height, in.:	Balance (0.1 lb) Thermometer (0.5 °C) 24" S teel Ruler (0.01") 1/4" Glass P late Caliper (0.001")	Serial of ID N	umber			
Dimensions of Bowl: a. Inside Diameter, in b. Inside Height, in.:	Thermometer (0.5 °C) 24" Steel Ruler (0.01") 1/4" Glass Plate Caliper (0.001")					
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Dimensions of Bowl: a. Inside Diameter, in b. Inside Height, in.:	1/4" Glass Plate Caliper (0.001")					
Dimensions of Bowl: a. Inside Diameter, in b. Inside Height, in.:	Caliper (0.001")					
Dimensions of Bowl: a. Inside Diameter, in b. Inside Height, in.:	. , ,					
Dimensions of Bowl: a. Inside Diameter, in b. Inside Height, in.:	ı.:					
d. Capacity of Bowl, f	_	ht	Measuren		Tolerance $\geq 0.75 \text{ to } 1.25 \text{ x h}$ $\geq 0.20 \text{ ft}^3$	eight
Appendix A1.2 – <i>Calibr</i> a. Weight of calibrati b. Weight of calibrati	ration of the Calibration Vesse on vessel, g: on vessel and water, g:	₽l, w:				
 a. Weight of the mean b. Weight of the mean c. Weight of the mean d. Weight of water, Weight of water in f. Temperature of water g. Unit weight of water 	suring bowl, g.: suring bowl and glass plate, g: suring bowl, glass plate and wa V, required to fill the measuring pounds (W ÷ 453.59), lbs: ater, °C: er, pcf:	iter, g: g bowl, g:			≥ 0.75 to 1.25 x h 	eight
Appendix A1.5.2 and A1	9 - Confirming/Adjusting In	nitial Pressure:			Reading for 0.0 %	6
Appendix A1.4 – Effects a. $R = w \div W$	ive Volume of the Calibration	Vessel, R:			± 0.1 %	
Appendix A1.6 – <i>Calibr</i>	ation Reading, K:					
ht of Water Withdrawn, g	Theoretical Gauge Reading, % A	Actual Gauge Rea	ding, %	must	be with in 0.1%	
a A162 = For Type	R <i>K</i> = <i>R</i>		IP =			
	·	ontent Graduations				
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J	c. Inside Diameter / d. Capacity of Bowl, f d. Capacity of Bowl, f Appendix A1.2 – Calibra. Weight of calibratic. Weight of water, w Appendix A1.3 – Calibra. Weight of the measurement of the measurement of the weight of water in f. Temperature of water. Weight of water in f. Temperature of water. Weight of water in f. Temperature of water. Wolume of the measurement of the	b. Inside Height, in.: c. Inside Diameter / Height Ratio, in.: d. Capacity of Bowl, ft³: {π × (diameter ÷ 2)² } × height Appendix A1.2 − Calibration of the Calibration Vesse a. Weight of calibration vessel, g: b. Weight of calibration vessel and water, g: c. Weight of water, w, required to fill the calibration Appendix A1.3 − Calibration of the Measuring Bowl: a. Weight of the measuring bowl, g.: b. Weight of the measuring bowl and glass plate, g: c. Weight of the measuring bowl, glass plate and water. d. Weight of water, W, required to fill the measuring e. Weight of water in pounds (W ÷ 453.59), lbs: f. Temperature of water, °C: g. Unit weight of water, pcf: h. Volume of the measuring bowl, ft³ (W ÷ unit weight Appendix A1.5.2 and A19 − Confirming/Adjusting Interpretation Appendix A1.4 − Effective Volume of the Calibration a. R = w ÷ W Appendix A1.6 − Calibration Reading, K: Theoretical Gauge Reading, % A Theoretical Gauge Reading, % A Theoretical Gauge Reading, % Theoretical Gauge Reading, % A Figure 1. Theoretical Gauge Reading, % Theoretical Gauge Reading, % A Theoretical Gauge Reading, % Theoretical Gauge Reading, % Theoretical Gauge Reading, % A Figure 2. Correction Reading At Correction	b. Inside Height, in.: c. Inside Diameter / Height Ratio, in.: d. Capacity of Bowl, ft³: {π × (diameter ÷ 2)² } × height Appendix A1.2 – Calibration of the Calibration Vessel, w: a. Weight of calibration vessel, g: b. Weight of calibration vessel and water, g: c. Weight of water, w, required to fill the calibration vessel, g: Appendix A1.3 – Calibration of the Measuring Bowl: a. Weight of the measuring bowl, g: b. Weight of the measuring bowl and glass plate, g: c. Weight of the measuring bowl, glass plate and water, g: d. Weight of water, W, required to fill the measuring bowl, g: e. Weight of water in pounds (W ÷ 453.59), lbs: f. Temperature of water, °C: g. Unit weight of water, pcf: h. Volume of the measuring bowl, ft³ (W ÷ unit weight of water): Appendix A1.5.2 and A19 – Confirming/Adjusting Initial Pressure: Appendix A1.4 – Effective Volume of the Calibration Vessel, R: a. R = w ÷ W Appendix A1.6 – Calibration Reading, K: Theoretical Gauge Reading, % Actual Gauge Rea B a. A1.6.2 – For Type B, K = R Appendix A1.9 – Calibration Test to Check the Air Content Graduations Appendix A1.9 – Calibration Test to Check the Air Content Graduations Appendix A1.9 – Calibration Test to Check the Air Content Graduations Appendix A1.9 – Calibration Test to Check the Air Content Graduations	b. Inside Height, in.: c. Inside Diameter / Height Ratio, in.: d. 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A1.6.2 – For Type B, K = R Appendix A1.9 – Calibration Test to Check the Air Content Graduations on the Pressure Conforms Poon Receipt: Conforms Nonconfores Corrective Action Nonconfores	b. Inside Height, in.: c. Inside Diameter / Height Ratio, in.: d. Capacity of Bowl, ft²: {π × (diameter ÷ 2)² } × height Appendix A1.2 – Calibration of the Calibration Vessel, w: a. Weight of calibration vessel and water, g: c. Weight of water, w, required to fill the calibration vessel, g: Appendix A1.3 – Calibration of the Measuring Bowl: a. Weight of the measuring bowl, g: b. Weight of the measuring bowl and glass plate, g: c. Weight of the measuring bowl, glass plate and water, g: d. Weight of water, W, required to fill the measuring bowl, g: e. Weight of water in pounds (W ÷ 453.59), lbs: f. Temperature of water, C: g. Unit weight of water, pcf: h. Volume of the measuring bowl, ft³ (W ÷ unit weight of water): Appendix A1.5.2 and A19 – Confirming/Adjusting Initial Pressure: Appendix A1.4 – Effective Volume of the Calibration Vessel, R: a. R = w ÷ W Appendix A1.6 – Calibration Reading, K: Theoretical Gauge Reading, M Actual Gauge Reading, M Deviation must A B B C = Aloe A1.6.2 – For Type B, K = R IP =	b. Inside Height, in: c. Inside Diameter / Height Ratio, in: d. Capacity of Bowl, ft³: {π × (diameter + 2)² } × height Appendix A1.2 − Calibration of the Calibration Vessel, w: a. Weight of calibration vessel, g: b. Weight of calibration vessel and water, g: c. Weight of water, w, required to fill the calibration vessel, g: Appendix A1.3 − Calibration of the Measuring Bowl: a. Weight of the measuring bowl, g: b. Weight of the measuring bowl and glass plate, g: c. Weight of the measuring bowl, glass plate and water, g: d. Weight of water in pounds (W ÷ 453.59), lbs: f. Temperature of water, w, required to fill the measuring bowl, g: e. Weight of water in pounds (W ÷ 453.59), lbs: f. Temperature of water, pcf: h. Volume of the measuring bowl, ft³ (W ÷ unit weight of water): Appendix A1.5.2 and A19 − Confirming/Adjusting Initial Pressure: Appendix A1.4 − Effective Volume of the Calibration Vessel, R: a. R = w + W Appendix A1.6 − Calibration Reading, K: Theoretical Gauge Reading, % Actual Gauge Reading, % Deviation Between (A) & (B) must be within 0.1 % C = (B - A) + A Appendix A1.9 − Calibration Test to Check the Air Content Graduations on the Pressure Gauge, Type B Meter: Appendix A1.9 − Calibration Test to Check the Air Content Graduations on the Pressure Gauge, Type B Meter: Appendix A1.9 − Calibration Test to Check the Air Content Graduations on the Pressure Gauge, Type B Meter: Appendix A1.9 − Calibration Test to Check the Air Content Graduations on the Pressure Gauge, Type B Meter: Appendix A1.9 − Calibration Test to Check the Air Content Graduations on the Pressure Gauge, Type B Meter: Appendix A1.9 − Calibration Test to Check the Air Content Graduations on the Pressure Gauge, Type B Meter: Appendix A1.9 − Conforms Nonconforming