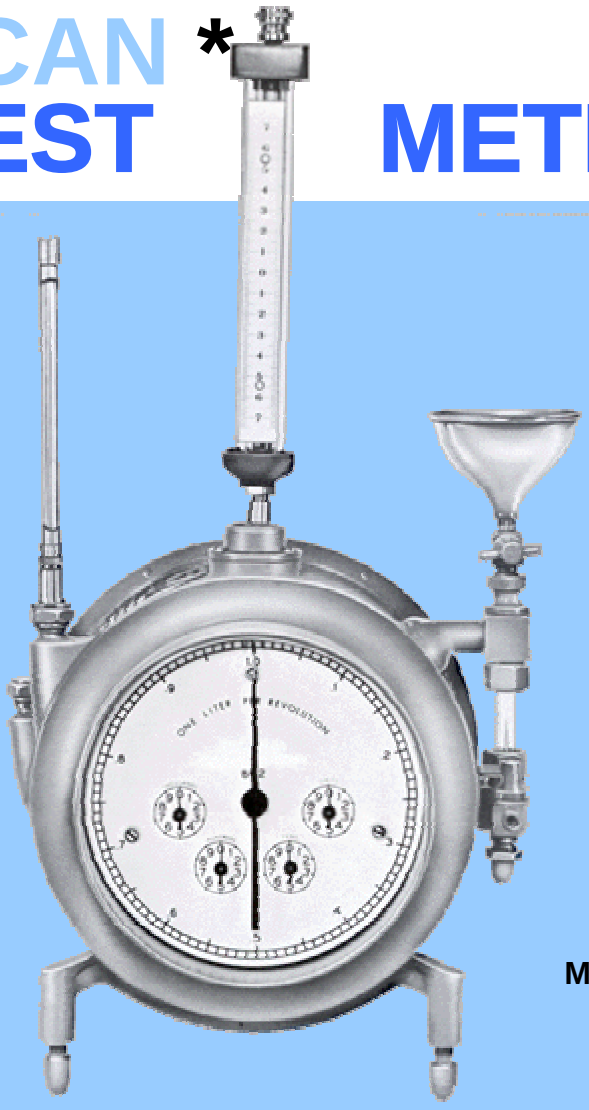
AMERICAN * WET TEST METERS



Model AL-17

FEATURES

HOUSING: Compact, stainless steel construction
INTERNAL CONTRUCTION: Soldered Stainless Steal drum and internal parts.
EASY READING INDEX: Large resetable sweep hand and four resetable totalizing hands – all friction mounted available in liters or cubic feet.
HIGH VISIBILITY GAGE GLASS: Permits accurate liquid level adjustment.
CONNECTIONS: Inlet and outlet adaptable to hose.
GASKETS: Buna-N
EASE OF LEVELING: Bulls eye level and leveling screws provide means for correct operational position of the meter.
EASE OF MAINTENANCE: A removable back is provided to facilitate cleaning.

AMERICAN® METER COMPANY
Measurement Engineers Since 1836

INTRODUCTION

American Wet Test Meters are precision, positive dis-placement meters, individually calibrated under controlled conditions. The drums are of the low-differential Hinman type providing high accuracy. These meters will maintain the original calibration for long periods because of the extensive use of corrosion resistant material. The grommet-type seal is designed for minimum friction to give maximum meter sensitivity.

High Visibility Gage Glass

PRINCIPLE OF OPERATION

The liquid sealed rotating drum meter is constructed of a sealed hollow case in which a hollow drum of several compartments is free to rotate. The passage of gas through the meter causes the drum to rotate. The drum is designed so that when the case is filled with liquid to a pre-determined level, each compartment will be filled and emptied successively as the drum rotates. The volume of each compartment is know, therefore the record of rotation of the rotation of the drum is a measure of the quantity of gas passed. An index, driven by the drum shaft, totalizes the quantity of gas passed in convenient units.

APPLICATIONS

- Laboratories and Research Institutions – Accurate measurement of small volumes and low flow rates where required.
- Calibrating small orifices
- Determining proper fuel air ratios for gas appliances
- Practical laboratory tool in Refinery Pilot plant development and research
- Measuring of manufactured, natural and technical gases
- Educational Institutions for laboratory experiments
- Determining gas volumes in, or resulting from chemical reactions
- Testing gas consumption in domestic science cooking experiments
- Calibrating meter for atmospheric emission sample meters
- Gas Appliance Testing
- Calibrating Reference for Diaphragm Type Gas Meters

Model Number	Maximum Working Pressure	Rate Max Flow air	Capacity .64 gas	Large Dial One Revolution	Large Dial Subdivisions	Totalizing Dials Max. Reading	Approx. Dimensions, Inches ■ Width	Height	Front to Back	Standard Connections	Shpg. Weight
WITH CUBIC FOOT INDEXES											
	inches w.c	chf	chf	cf	cf	cf	inches	inches	inches		lbs
AL - 17	14" w.c.	8	10	0.05	.0005	1,000	10¼	12	$6^{13/16}$	note 1	16
AL - 18	14" w.c.	16	20	0.10	.001	1,000	13¼	14¼	8¼	note 2	25
AL - 19	14" w.c.	64	80	1.0	.01	10,000	16½	16	$11^{11/16}$	½" MPT♦	65
AL - 20	14" w.c.	120	150	1.0	.01	10,000	19	18½	$14^{1/8}$	¾" MPT♦	85
AL - 21	12" w.c.	240	300	1.0	.01	10,000	19	23¾	$25^{1/8}$	1" MPT♦	165
AL - 22	12" w.c.	480	600	10.0	.10	100,000	22½	27	$32^{5/16}$	$1^{1/4}$" MPT♦	210
WITH LITER INDEXES											
	inches w.c	L/m	L/m	liters	liters	liters	inches	inches	inches		lbs
AL 17 - 1	14" w.c.	4	5	1	0.01	10,000	10¼	12	$6^{13/16}$	note 1	16
AL 18 - 3	14" w.c.	8	10	3	0.01	10,000	13¼	14¾	8¾	note 2	25
AL 19 - 3	14" w.c.	32	40	10	0.10	100,000	16½	16	$11^{11/16}$	½" MPT♦	65
AL 20 - 1	14" w.c.	60	75	100	1.0	1,000,000	19	18½	$14^{1/8}$	¾" MPT♦	85
AL 21 - 1	12" w.c.	120	150	100	1.0	10,000,000	19	23¾	$25^{1/8}$	1" MPT♦	165

■ Overall dimensions without pressure gage, thermometers and nozzles or swivels.

♦ One straight swivel, one elbow swivel and two caps supplied.

note 1 – Hose nozzles and caps supplies

note 2 - Hose nozzles and caps or 3/8-inch threaded swivels and caps supplies as specified

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