

Data Sheet

DS-VA-2700-eng
September, 2005

Model PT 2700

Brooks-Mite Purgemeter

DESIGN FEATURES

- Body and tube are impact resistant polycarbonate
- A single piece of polycarbonate thermoplastic forms the ribbed tube, bezel and integral float stops
- Easy-to-read design
- Bezel type centre mounting puts the flow tube at the front of panel for high visibility. No shrouds or windows cover the tube
- Ribbed tube construction stabilizes the float throughout the range for increased performance
- Metal connector inserts prevent damage from overtightening
- Rotating connector acts as line union which simplifies piping
- O-Ring construction on connectors, seal plugs and valves
- Low pressure drop

DESCRIPTION

The Brooks-Mite Purgemeter is a flowmeter of high impact polycarbonate. The unit is designed as a practical approach to flow rate indication of liquids and gases at lowest possible cost. It is available with or without the optional needle control valve.

MATERIALS OF CONSTRUCTION

<i>Meter body:</i>	Clear polycarbonate
<i>Vertical clean out plugs:</i>	Polycarbonate
<i>Floats:</i>	Pyrex glass or 316 Stainless Steel Ball Floats
<i>O-Rings:</i>	Viton-A
<i>Valve:</i>	Brass or 316 Stainless Steel
<i>Line connections:</i>	Brass or 316 Stainless Steel

SPECIFICATIONS

<i>Standard scale length:</i>	38 mm
<i>Max. operating pressure:</i>	6.9 bar gauge



Model PT2700 with needle valve on Inlet

<i>Max. operating temperature:</i>	55 °C
<i>Min. operating temperature:</i>	-6 °C
<i>Standard accuracy:</i>	± 10% F.S.
<i>Reproducibility:</i>	± 1% F.S.
<i>Connections:</i>	1/8" NPT female horizontal

SCALES

Types

Silk-screened type on adhesive aluminum sheet direct reading for air and water (see capacity table). Also mm scales with curve for gas or liquid are available.

Valve

A needle valve is available with three different needle sizes. The valve can be mounted at the inlet side of the instrument.

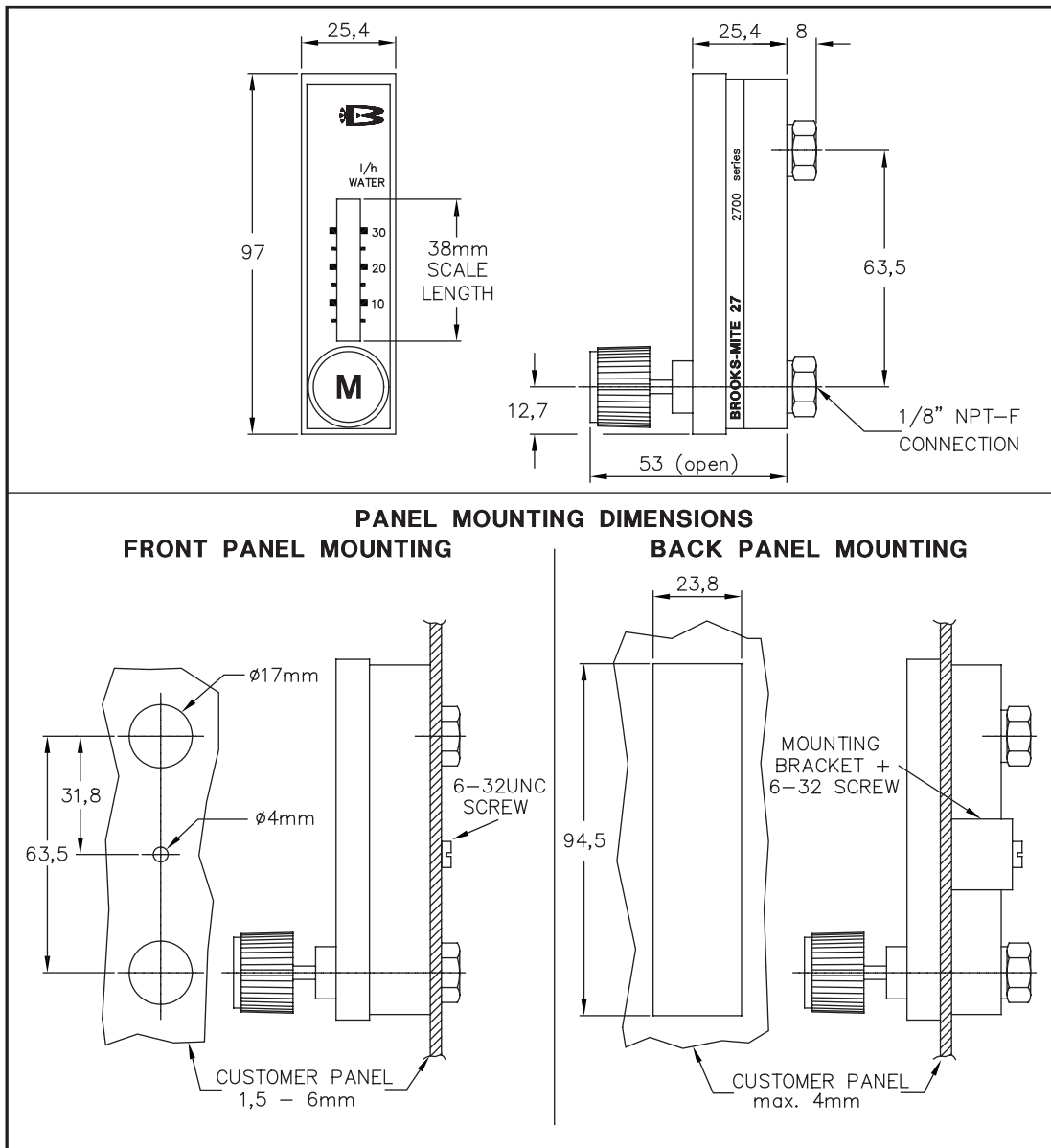
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CAPACITIES/PRESSURE DROP

Tube Size	Float Material	Air	Water	ΔP Pascal (no Valve)
		l/h*	l/h	
2	Glass	10-80	0.25-1.5	190
	St. Steel	25-150	1-4	250
4	Glass	50-300	0.5-6	250
	St. Steel	50-500	2.5-16	650
6	Glass	0.25-1.5 m ³ n/h	5-30	2400
	St. Steel	0.5-2.5 m ³ n/h	10-80	6600

* Flows are given at normal conditions (0 °C and 1.013 bar abs.) when the meter is operated at 20 °C and 1.013 bar abs.

DIMENSIONS IN MILLIMETERS



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MODEL NUMBER		DESCRIPTION
2700/A		HORIZONTAL INLET , HORIZONTAL OUTLET
FITTING / O-RING MATERIAL		
1		BRASS FITTINGS/VITON O-RINGS
2		316 SS FITTINGS/VITON O-RINGS
METER SIZE		
A		METER SIZE 2
B		METER SIZE 4
C		METER SIZE 6
FLOAT MATERIAL		
1		GLASS
3		316 SS
SCALE		
A		MM + CURVE
B		DIRECT READING
MEDIUM		
1		l/h WATER
2		ln/h OR m ³ n/h AIR @ 20 °C & 1,013 BAR ABS.
NEEDLE VALVE		
0		NONE
A		NEEDLE VALVE LOW
B		NEEDLE VALVE MEDIUM
C		NEEDLE VALVE HIGH
VALVE POSITION		
0		NONE
1		NEEDLE VALVE AT INLET SIDE
ACCESSORIES		
0		NONE
A		ADAPTER FOR 1/4" NPT-F
B		ADAPTER 1/4" HOSE
9	Z	9
Z	9	Z
9	Z	9
Z	9	Z
SELECT "9" OR "Z" IF SPECIAL AND SPECIFY		
2700 / A 1 A 1 B 1 A 1 = TYPICAL MODEL NUMBER		

Model PT 2700

BROOKS LOCAL AND WORLDWIDE SUPPORT

Brooks Instrument provides sales and service facilities around the world, ensuring quick delivery from local stock, timely repairs and local based sales and service facilities.

Our dedicated flow experts provide consultation and support, assuring successful applications of the Brooks flow measurement and control products.

Calibration facilities are available in local sales and service offices. The primary standard calibration equipment to calibrate the mass flow products is certified by our local Weights and Measures Authorities and traceable to the relevant international standards.

START-UP SERVICE AND IN-SITU CALIBRATION

Brooks Instrument can provide start-up service prior to operation when required.

For some process applications, where ISO-9001 Quality Certification is important, it is mandatory to verify and/or (re)calibrate the mass flow products periodically. In many cases this service can be provided under in-situ conditions, and the results will be traceable to the relevant international quality standards.

CUSTOMER SEMINARS AND TRAINING

Brooks Instrument can provide customer seminars and dedicated training to engineers, end users and maintenance persons. Please contact your nearest sales representative for more details.

HELP DESK

In case you need technical assistance:

- Americas ☎ 1-888-554-FLOW
- Europe ☎ +(31) 318 549290
- Asia ☎ +011-81-3-5633-7105

Due to Brooks Instrument's commitment to continuous improvement of our products, all specifications are subject to change without notice.

TRADEMARKS

- Brooks Brooks Instrument Division, Emerson Electric Co.
- Emerson Emerson Electric Co.
- Kalrez DuPont Dow Elastomers
- Teflon E.I. DuPont de Nemours & Co.
- Viton DuPont Dow Elastomers



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