

The same rugged, all metal meter with vertical connections as shown on P. 16 and 17, except with a tough Teflon Liner for optimum corrosion resistance in virtually all process fluids.

Available with floats made of all Teflon.

Available for indication only, with pneumatic or electronic transmitter, or with high and/or low alarms. Guide rods are completely protected by meter body. Uniform face to face dimension for all tube sizes facilitates piping layout.

SPECIFICATIONS:

Accuracy: ±2.0% of full scale.

Repeatability: .25% of full scale.

Rangeability: 10 to 100% of full scale (10 to 1 turndown).

Scales: Graduated 10 to 100%.

Materials of Construction

Meter Body: 316 stainless steel tube, Lined with Teflon.

Float: Teflon

Loose Flanges: (non-wetted) 300 Series stainless steel.

Temperature Limits:

Ambient: -40°F to 212°F (-40°C to 100°C).

Process Fluid: 32°F to 257°F (0°C to 125°C).

Pressure Limits:

275 psig at 100°F (1896 kPa at 37.7°C)

215 psig at 250°F (1482 kPa at 121°C)

Mounting: In line

Piping Connections: Loose flanges match 150 lb. ANSI

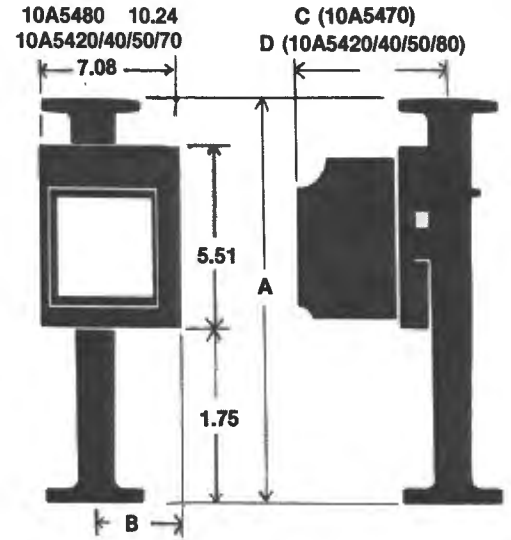
Pneumatic Transmitter: Air supply: 20 ±2 psig (140 ± 14 kPa gauge)
Output: 3-15 psig (20-100 kPa gauge) linear

Electronic Transmitter: Supply 12 to 36 Vdc for 4-20 mAdc output
Output: 4-20 mAdc into 0-1000 ohms

How to Order

1. Determine water or air equivalent using table on Page 36 or 37.
2. Determine tube size referring to Capacity Table below.
3. Specify complete model number.
4. Specify maximum flow rate, units of flow, liquid density and viscosity or gas specific gravity, operating temperature and pressure.

Tube Size	FLG Size	Dimensions (Inches)				Weight Pounds
		A	B	C	D	
1	1	10.24	4.75	4.25	5.51	13
2	2	14.76	5.00	5.04	6.30	33
3	3	14.76	5.55	5.83	7.09	47



Teflon Lined Through-Flow Rotameters

10A5400 Series (Teflon Lined)

CAPACITY TABLE

Tube Flange Size	RANGE OF MAXIMUM FLOWS				Float Shape	Δ P ^③ Inches Water	Float Density g/ml
	LIQUIDS		GASES				
	GPM Water	VIC ^①	SCFM Air	Min PSIA ^②			
1"	1.20-1.62	18	5.75-7.75	44	SV	12-22	2.75
	1.63-2.33	18	7.76-10.6	47	SV	14-24	3.56
	2.34-3.30	18	11.2-15.8	47	SV	16-27	2.84
	3.31-4.60	18	15.9-21.6	50	SV	18-29	3.12
	4.70-6.60	18	21.7-30.8	52	SV	22-33	3.17
	6.70-9.20	18	31.1-43.5	59	SV	27-37	3.07
	9.30-13.2	18	43.6-61.5	74	SV	31-41	3.20
2"	12.6-15.6	26	54.5-67.6	59	SV	16-33	4.89
	15.7-19.5	26	67.7-84.7	62	SV	18-35	4.89
	19.6-23.9	26	84.8-103.	66	SV	20-37	4.89
	24.0-29.7	26	104-128.	71	SV	24-41	4.89
	29.8-36.3	26	129-157	76	SV	29-45	4.89
	36.4-44.0	16	158-190	94	NSV	37-53	4.89
3"	44.1-61.6	36	202-282	59	SV	16-29	3.41
	61.7-83.6	36	283-384	74	SV	24-37	3.41
	83.7-118.	20	385-545	88	NSV	33-45	3.41

NOTES:

1. Meter is unaffected by Liquid Viscosity when the Operating Viscosity in centipoise \leq VIC Factor x $\sqrt{\text{Sp. Gr.}}$
2. Minimum allowable operating pressure in psig to insure Float Stability on gas service.
3. Pressure loss across the meter at 100% of Flow in inches of Water Column. Values shown are for Lowest and Highest Maximum flow for the Tube & Float in that row. For Pressure Loss at any flow between the two values use linear interpolation.

MODEL NUMBER DESIGNATION

	10A54		6		1	D	1				E
Function											
Indicator	71										
Indicator with minimum alarm	72										
Indicator with maximum alarm	73										
Indicator with minimum and maximum alarm	74										
Indicator with integrator 5-digit with reset	25										
Indicator with integrator 7-digit without reset	27										
Indicator w/pneumatic x-mtr., 3 to 15 psig	41										
Indicator w/pneumatic x-mtr., 2.9 to 14.5 psig	42										
Indicator w/elect. x-mtr. gen. purp., 4 to 20 mA dc ..	53										
Indicator w/elect. x-mtr. intr. safe, 4 to 20 mA dc ...	55										
Design Level		D									
Installation Length											
10-1/4 inches (260mm) Non-Jacketed (size 1")			T								
14-3/4 inches (375mm) Non-Jacketed (size 2", 3")			S								
Connection Construction											
Stainless Steel Flange (loose)				6							
Tube & Connection Size											
Tube Size Connection Size											
1" 1" Standard						B					
2" 2" Standard						C					
3" 3" Standard						D					
Connection											
Flanges (Mates with ANSI Class 150, RF) — Standard Only							J				
Flanges (Mates with ANSI Class 300, RF) — Standard Only							K				
Float Design											
Liquid All Sizes Standard Construction								1			
Float Material											
Teflon									D		
Temperature Range											
Standard										1	
Power Requirements (Reference only)											
None, Indicator Only											A
220V, 60 Hz Alarms or Integrators only											J
110V, 60 Hz Alarms or Integrators only											K
Air @ 1.4 bar Pneumatic Transmitter only											G
Air @ 20 psig Pneumatic Transmitter only											H
24V dc Electronic Transmitter only											Y
Separate Power Supply or Transistorized Relay											
None											A
WE 77/Ex 1 (FM Approved) Required for all Single Alarms (10A5472 or 10A5473, SPDT) ..											B
WE 77/Ex 2 (FM Approved) Required for all Dual Alarms (10A5474, SPDT)											C
WE 77/Ex 1-2 (FM Approved) Required for all Single Alarms (10A5472 or 10A5473, DPDT) ..											E
WE 77/Ex 1-2 (FM Approved) Required for all Dual Alarms (10A5474, DPDT)											F
24V dc Power Supply Optional for Electronic Transmitters											D
Accuracy Class											
2% of full scale											1
Water calibration @ 1% full scale											3
Viscosity calibration ± 1% of full scale											4

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