



Features

/ Local indication without auxiliary power supply / Excellent readability / Compact design / Scales for water and air / Process connection of brass or stainless steel / Optional with regulating valve / Accuracy class 3.0 or 5.0

SM-06N

Variable Area Flowmeter made of Acrylic

Description:

SM-06 variable area flowmeters operate according to the variable area principle in which the measuring element such as a stainless steel ball can move in a conical flow tube in vertical direction. When the medium being measured begins to flow from bottom to top, the float, too, moves to top until a dynamic equilibrium of forces freezes it at a certain height. The position that the float reaches in this manner is proportional to the volume flow. The scale value that can be read at the center of the measuring ball, therefore, corresponds to the flow rate. If the excreseent volume of flow needs to be regulated, the SM-06 provides optionally a regulating valve to easily allow flow volume control.

Application:

Variable area flowmeters made of acrylic are a cost-effective alternative to glass-made devices. Especially users in the fields of:

- Machine construction
- Medical engineering
- Pharmaceutical industry
- Chemical industry and in
- Research & Development

Where flow indicators are used in large numbers for simple applications and maximum accuracy is not a decisive factor, stand to benefit from this. An important aspect while assembling these devices is that the flow must always be from bottom to top and the medium is free from abrasive solid particles which, otherwise, may cause scratches inside the plastic tube and render it opaque.





Technical Specifications:

Media /	compatible gases and liquids
Process connection /	1/8"-IG NPT. Version 2: W80 and W81 GPM water have 1/4" NPT back-connections or 3/8" NPT end- connections. These versions aren't available with brass valves.
Mounting position /	vertical
Weight /	Version 1: 110140g
	Version 2: 200250g
max. Pressure /	
without valve:	6.9 bar at 65°C
	10 bar at 38°C
with valve:	6.9 bar at 48°C
Accuracy /	Version 1: 5% FS
	Version 2: 3% FS
Wetted materials /	
Housing:	acrylic
O-ring:	Buna-N (fluororubber on request)
Connections:	depending on the valve,
	brass or stainless steel
Floating cone:	depending on the range: st. steel, black glass, aluminium, monel K

Meas. Ranges Version 1:

Measuring range SCFH air	Code	Measuring range LPM air	Code
0.11	L10	0.060.5	L20
0.22	L11	0.151	L21
0.65	L12	0.65	L22
110	L13	110	L23
220	L14	325	L24
430	L15	650	L25
550	L16	10100	L26
10100	L17		
20200	L18	Measuring range GPH water	Code
		0.65	W40
Measuring range CC / min water	Code	210	W41
650	W30	320	W42
10100	W31	840	W43
20200	W32		

Meas. Ranges Version 2:

Ordering Codes:

Order number	SM-06N.	1.	000.	A .	1
SM-06N Acrylic-Flow M	eter				
Version / 1 = 101.6 mm 2 = 165.1 mm		-			
Operating Range /	n version				
Valve / 0 = no valve (standard) A = brass valve B = stainless steel valve				_	
Options / 9 = custom scale on request 1 = valve with PTFE seal 2 = wetted parts completely i 3 = fluororubber with O-rings	n st. steel				

Measuring range SCFH air	Code	
0.33	L50	
110	L51	
220	L52	
440	L53	
10100	L54	
10150	L55	
20200	L56	
Measuring range	Code	
SCFM air		
SCFM air 0,33	L57	
0,33 Measuring range	L57	
0,33 Measuring range GPH water	L57 Code	
0,33 Measuring range GPH water 0.512	L57 Code W70	
0,33 Measuring range GPH water 0.512 120	L57 Code W70 W71	
0,33 Measuring range GPH water 0.512 120 640	L57 Code W70 W71 W72	

Measuring range LPM air	Code
0.24	L60
110	L61
120	L62
330	L63
440	L64

Measuring range GPM water	Code
0.22	W80*
0.55	W81*
* not possible with bra	

* not possible with brass valve or 1/4" NPT back-connection!

Code
W99

Measuring range CC / min air	Code
1001000	L99



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Length	Version 1	Version 2
Α	101.6	165.1
В	76.2	139.7
c	41.28	88.9
D	12.7	12.7
E	30.16	38.1
F	31.75	31.75
I.	52.39	52.39
к	104.0	169.9
L	25.40	34.93
м	22.23	22.23
N	2.381	2.381

Dimensions in mm:





