





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 excrescent 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.



Flow-Measurement and -monitoring

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: 110. . .140g

Version 2: 200. . .250g

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
0.11	L10
0.22	L11
0.65	L12
110	L13
220	L14
430	L15
550	L16
10100	L17
20200	L18

Measuring range CC / min water	Code
650	W30
10100	W31
20200	W32

Measuring range LPM air	Code
0.060.5	L20
0.151	L21
0.65	L22
110	L23
325	L24
650	L25
10100	L26

Measuring range GPH water	Code
0.65	W40
210	W41
320	W42
840	W43

Meas. Ranges Version 2:

Ordering Codes:

Order number	SM-06N.	1.	000	A.	1
SM-06N Acrylic-Flow M	leter				
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					

Measuring range SCFH air	Code
0.33	L50
110	L51
220	L52
440	L53
10100	L54
10150	L55
20200	L56
0,33	L57

Code	Measuring range GPH water
W70	0.512
W71	120
W72	640
W73	660

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

Measuring range GPM water	Code	
0.22	W80*	
0.65	W81*	
* not possible with brass valve		

Measuring range CC / min water	Code
230	W99

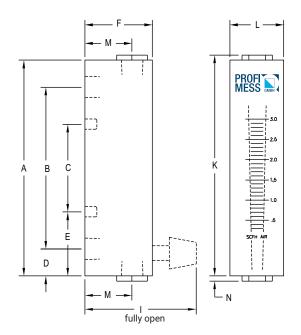
or 1/4" NPT back-connection!

Measuring range CC / min air	Code
230	L99





Dimensions in mm:



Length	Version 1	Version 2
A	101.6	165.1
В	76.2	139.7
С	41.28	88.9
D	12.7	12.7
E	30.16	38.1
F	31.75	31.75
1	52.39	52.39
К	104.0	169.9
L	25.40	34.93
М	22.23	22.23
N	2.381	2.381



/ Flow / Variable Area Flow-Measurement and -monitoring



Flow-Measurement and -monitoring



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