

Low Volume Rotameter Flow Meter

Variable Area Flow Meter for Liquid or Gas



measuring
•
monitoring
•
analyzing

KFS



- Measuring ranges:
Water: 0.08 ... 0.8 GPH to 16 ... 160 GPH
Air: 0.08 ... 1 SCFH to 200 ... 1400 SCFH
- Accuracy:
 $\pm 2\% \dots 5\%$ of full scale
- $p_{\max}$ 90 PSI; $t_{\max}$ 145°F
- Connection:
 $\frac{1}{8} \dots 1$ " NPT female
- Material:
acrylic / stainless steel / PVC
- Needle valve (Standard with smaller sizes)



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Low Volume Rotameter Flow Meter Model KFS

Description

The KFS variable area flowmeter delivers accuracy at a low cost and is a simple and compact solution for a wide variety of applications. It offers a durable one-piece acrylic body with removable PVC or stainless steel fittings. Integral needle valves are also available.

Sample Areas of Application

- Air Sampling Equipment
- Aquaculture
- Desalination Equipment
- Gas Analyzers
- Medical Systems
- Photoprocessing Equipment
- Water Treatment and Distribution Systems

KFS Versions

1. KFS-2... and KFS-4...:
acrylic with stainless steel
connection at the back
2. KFS-5...:
acrylic with PVC
connection at top and bottom

Technical Details

See order details for additional technical details and ranges

Accuracy:

KFS-2...: $\pm 5\%$ of full scale

KFS-4...: $\pm 3\%$ of full scale

KFS-5...: $\pm 2\%$ of full scale

Max. Temperature: 145 °F

Max. Pressure: 90 PSI

Connection:

KFS-2 and KFS-4: 1/4" NPT female at the back:
measuring ranges 69, 70, 73
1/8" NPT female at the back:
all other ranges

KFS-5...: 1" NPT female at bottom and top

Materials

Wetted Parts	KFS-2... + KFS-4...	KFS-5...
Housing	Acrylic	Acrylic
Connection	St. steel	PVC
Gasket	FPM	NBR
Float	Glass, St. steel, PTFE	St. steel

Glass: agate

Stainless steel: 304 SS (1.4301)



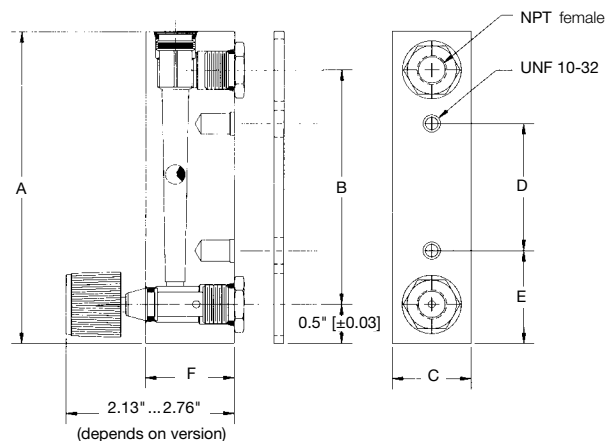
Options

Stainless steel needle valves are standard for models KFS-2... and KFS-4...

The KFS-5... can be supplied with a panel installation kit. Please note that in this case the connections are in back.

Dimensions KFS-2... and KFS-4...

Model	A [± 0.02]	B [± 0.02]	C [± 0.02]	D [± 0.01]	E [± 0.02]	F [± 0.02]
KFS-2...	4.02"	3.00"	1.00"	1.63"	1.19"	1.13"
KFS-4... (1/8")	6.50"	5.52"	1.38"	3.50"	1.50"	1.13"
KFS-4... (1/4")	6.62"	5.52"	1.13"	3.50"	1.50"	1.13"



	Weight (oz)*		
	KFS-2...	KFS-4...	KFS-5...
net	4.8	8.2	9.7
w. packing	5.5	9.3	10.8

* includes back plate for KFS-2/KFS-4 (not for KFS-5)

Order Details

Model KFS-2... (overall length 4", connection at the back, accuracy $\pm 5\%$ of full scale)

Air ¹⁾ Measuring Range Dual Scale		Float Material	Stainless Steel Connection	Option
0.04 ... 0.5 l/min	0.08 ... 1 SCFH	Glass	KFS-2212	NO = needle valve
0.1 ... 1 l/min	0.2 ... 2 SCFH	Glass	KFS-2213	
0.2 ... 2.5 l/min	0.6 ... 6 SCFH	Glass	KFS-2229	
0.4 ... 5 l/min	1 ... 10 SCFH	Glass	KFS-2214	
1 ... 10 l/min	2 ... 20 SCFH	St. steel	KFS-2215	
2 ... 25 l/min	5 ... 50 SCFH	St. steel	KFS-2216	
5 ... 80 l/min	10 ... 160 SCFH	St. steel	KFS-2219	

1) at 1 bar abs., 20 °C

Model KFS-4... (overall length 6.5", connection at the back, accuracy $\pm 3\%$ of full scale)

Measuring Range (Water) Dual Scale		Float Material	Stainless Steel Connection	Air ¹⁾ Measuring Range Dual Scale		Float Material	Stainless Steel Connection	Option
4 ... 50 cm³/min	0.08 ... 0.8 GPH	Glass	KFS-4238	0.4 ... 5 l/min	1 ... 10 SCFH	Glass	KFS-4240	NO = needle valve
10 ... 120 cm³/min	0.1 ... 2 GPH	Glass	KFS-4256	1 ... 10 l/min	2 ... 20 SCFH	St. steel	KFS-4241	
25 ... 225 cm³/min	0.4 ... 4 GPH	St. steel	KFS-4251	2 ... 20 l/min	4 ... 40 SCFH	St. steel	KFS-4242	
40 ... 400 cm³/min	0.6 ... 6 GPH	St. steel	KFS-4250	3 ... 30 l/min	6 ... 60 SCFH	Glass	KFS-4243	
40 ... 660 cm³/min	1 ... 10 GPH	PTFE	KFS-4252	4 ... 45 l/min	10 ... 100 SCFH	St. steel	KFS-4244	
100 ... 1500 cm³/min	2.5 ... 25 GPH	St. steel	KFS-4253	10 ... 100 l/min	20 ... 200 SCFH	St. steel	KFS-4247	
200 ... 3000 cm³/min	3 ... 50 GPH	St. steel	KFS-4254	25 ... 255 l/min	55 ... 550 SCFH	St. steel	KFS-4270 ²⁾	
300 ... 3700 cm³/min	5 ... 60 GPH	St. steel	KFS-4255	50 ... 560 l/min	100 ... 1200 SCFH	St. steel	KFS-4273 ²⁾	
1 ... 10 l/min	16 ... 160 GPH	St. steel	KFS-4269 ²⁾					

1) at 1 bar abs., 20 °C

2) Connection: 1/4" NPT female at the back, cannot be combined with hose connector set KFR-PPHW024

Model KFS-5... (overall length 13.5", accuracy $\pm 2\%$ of full scale)

Air Measuring Range (at 1 bar abs., 20 °C)	Float Material	PVC Connection	Option
100 ... 700 l/min 200 ... 1400 SCFH	St. steel	KFS-5353	00 = no option

Accessories - Hose Connector Sets

Order Code	Description	Picture
KFR-PPHW024	Hose Connector set, PP, 1/8" NPT x 1/4", straight	
KFR-PAHW032	Hose Connector set, PA, 1/4" NPT x 5/16", straight	
KFR-PAVW032	Hose Connector set, PA, 1/4" NPT x 5/16", angled	



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Dimensions: KFS-5...

