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Method of Operation

The KOBOLD flowmeter model KFR operates on the proven suspended float system, that is, the installation position is vertical and the flow is from bottom to top.

The instrument is constructed as a single unit, that is, it has an acrylic housing with removable connections made of PVC, brass or stainless steel.

The flowmeter is thus very reasonably priced.

Areas of Application

- Gas analysis
- Water applications

KFR versions

- 1. KFR-21... and KFR-41...: acrylic with brass connection at the back
- 2. KFR-22... and KFR-42...: acrylic with stainless steel connection at the back
- 3. KFR-53...: acrylic with PVC connection at top and bottom

Technical Details

See order details for technical details and measuring ranges

Accuracy:	
KFR-2:	±5% of full scale
KFR-4:	±3% of full scale
KFR-5:	±2% of full scale
Max. temperature:	65 °C
Max. pressure:	6.5 bar
Connection:	

KFR-2 and KFR-4

1/4" NPT female at the back: measurung ranges 69, 70, 73 1/6" NPT female at the back: all other ranges

Accessories:

hose connector PPH, white, straight for ¼" hose diameter 1" NPT female at bottom and

connection at the back

top KFR-5..PM (with panel mounting option):

Materials

KFR-5..:

Wetted parts	KFR-21 + KFR-41	KFR-22 + KFR-42	KFR-53	
Housing	Acrylic	Acrylic	Acrylic	
Connection	Brass	St. steel	PVC	
Gasket	NBR	FPM	NBR	
Float	Glass or st. steel	Glass or st. steel	St. steel	

Glass: Stainless steel: Acetal: black glass AISE 316 SS Acetal copolymer

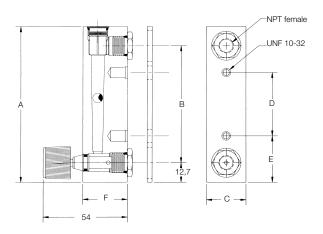
Options

Optional needle valves in brass or stainless steel are available for models KFR-2.. and KFR-4...

We can supply model KFR-5.. with a panel installation kit. Please note that in this case the connections are at the rear.

Dimensions [mm] KFR-2... and KFR-4...

Model	A	В	С	D	Е	F
KFR-2	102	76.2	25.4	41.3	30.2	28.6
KFR-4 (1/8)	165	140	34.9	88.9	38.1	28.6
KFR-4 (¼)	168	140	28.6	88.9	38.1	34.9





Order Details

Measuring range (water)	Float material	Brass connection	Stainless steel connection	Air measuring range (at 1 bar abs., 20°C)	Float material	Brass connection	Stainless steel connection	Option
10100 cm ³ /min	Glass	KFR-2110	KFR-2210	0.04 0.5 l/min	Glass	KFR-2112	KFR-2212	
-	-	-	-	0.11 l/min	St. steel	KFR-2113	KFR-2213	
550 cm³/min	Glass	KFR-2109	-	0.22.5 l/min	Glass	KFR-2129	KFR-2229	
20240 cm ³ /min	St. steel	KFR-2111	KFR-2211	0.45 l/min	Glass	KFR-2114	KFR-2214	N0 = needle
				1 10 l/min	St. steel	KFR-2115	KFR-2215	valve
				225 l/min	Glass	KFR-2116	KFR-2216	
				650 l/min	St. steel	KFR-2117	KFR-2217	
				10100 l/min	St. steel	KFR-2118	KFR-2218	
Accessories: hose connector set, straight for 1/4" hose KFR-PPH W 024								

Model KFR-2... (overall length 102 mm, connection at the back, accuracy $\pm 5\%$ of full scale)

Model KFR-4	(overall length 165 mm	. connection at the back	, accuracy $\pm 3\%$ of full scale)

Measuring range (water)	Float material	Brass connection	Stainless steel connection	Air measuring range (at 1 bar abs., 20°C)	Float material	Brass connection	Stainless steel connection	Option
450 cm ³ /min	St. steel	KFR-4138	-					
10120 cm ³ /min	St. steel	KFR-4156	-	0.45 l/min	St. steel	-	KFR-4240	
25225 cm³/min	Glass	KFR-4151	KFR-4251	1 10 l/min	Glass	KFR-4141	KFR-4241	
40400 cm ³ /min	St. steel	KFR-4150	-	220 l/min	St. steel	-	KFR-4242	
50660 cm³/min	St. steel	KFR-4152	-	-	-	-	-	N0 = needle
1001500 cm ³ /min	St. steel	KFR-4153	KFR-4253	330 l/min	St. steel	KFR-4143	-	valve
2003000 cm ³ /min	St. steel	KFR-4154	-	450 l/min	St. steel	KFR-4144	-	
3003700 cm ³ /min	St. steel	KFR-4155	KFR-4255	10100 l/min	St. steel	KFR-4147	KFR-4247	
1 10 l/min*	St. steel	KFR-4169*	KFR-4269*	30300 l/min*	St. steel	KFR-4170*	KFR-4270*	
				100560 l/min*	St. steel	KFR-4173*	-	
Accessories: hose connector set, straight for 1/4" hose KFR-PPH W 024								

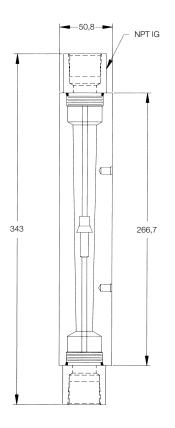
* Connection: 1/4" NPT female at the back and dual scales I/min and I/h, cannot be combined with hose connector set KFR-PPH W 024

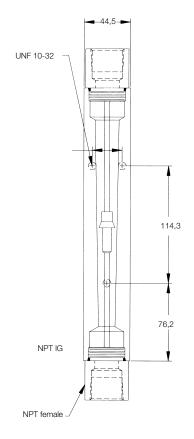
Model KFR-5... (overall length 343 mm (277 mm for panel mounting), accuracy ±2% of full scale)

Air measuring range (at 1 bar abs., 20 °C)	Float material	PVC connection	Option
100700 l/min	St. steel	KFR-5353	00 = no option



Dimensions [mm] KFR-5...





No responsibility taken for errors; subject to change without prior notice.