

Metal tube rotameter and transmitter FKMF series



FKMF series is suitable for the measurements in high temperature and pressure. As fluid passes through the tube at varying speeds, the float up or down, maintaining a dynamic balance between the upward and downward forces acting on the float and the fluid. The magnetic coupling system of the float in the tube indicates the flow rate. The metering tube includes a scale where flow rate can read manually.

Standard Specification

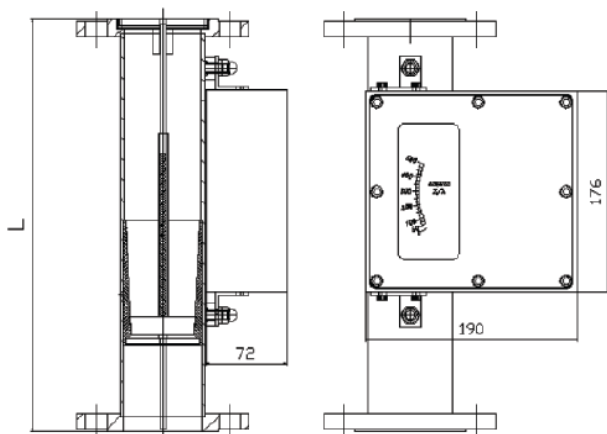
Measuring medium	: Liquids & Gases
Range	: Liquids-Water (Density 1.0 g/cm ³ , Viscosity 1.0mPas) Max. 0-250 m ³ /h Min. 0.01-0.1 m ³ /h
	: Gases - Air (20 ^o C, 0MPaG) Max. 0-4000 Nm ³ /h Min. 0.5-5 Nm ³ /h
Fluid Temperature	: -20 to 120 ^o C within flange pressure and temperature rating
Fluid pressure	: Max. 4.1 MPaG at ambient temperature : Max. 3.3 MPaG at 120 ^o C
Process connection	: JIS (FF, RF) and ANSI (150, 300) Flange connection, DIN etc.
Flow Direction	: Bottom to Top, Side to Side
Materials	: Taper Tube - SUS 304, SUS 316, SUS 316L etc
	: Float - SUS 304, SUS 316, SUS 316L etc
	: Flange - C.S., SUS 304, SUS 316, SUS 316L etc
Indication Accuracy	: ±2% of F.S.
Range Ability	: 1:10
Outputs	: A high or low alarm with reed switch
	: 4 to 20mADC, accuracy ±1% of F.S. (Against scale plate)
Enclosure of indicator	: Water proof (IP65), Intrinsic safety (EX ia II C T6) is available
	: Flame proof (EX ia II C T6)



Model code

FKMF(N)	Code.		Description.
Connection	F	→	Metal Taper Tube Flow Meter (Flange)
	FN	→	Metal Taper Tube Flow Meter (Screw)
Indicator	J	→	Face 350mm A.L Case (Standard)
	A	→	Face 250mm Square Case Indicator.
	B	→	Face 250mm Dial Case Indicator.
	C	→	Reducer Pipe Large Flow
	D	→	Side Indicator
Flow Direction	1	→	Bottom to Top
	2	→	Bottom to Top Side
	3	→	Bottom Side to Top
	4	→	Bottom Side to Top Side
	5	→	Side to Side
Material	B	→	SS 304
	C	→	SS 316
	D	→	SS 316L
	P	→	PVC
	T	→	Teflon Lining
	X	→	Special
Option	S	→	Flow rate & 4~20 mA.DC
	T	→	Flow rate, Totalizer & 4~20 mA.DC or pulse
	R1	→	1-Point Alarm (Reed S/W)
	R2	→	2-Point Alarm (Reed S/W)
	X	→	Only Steam Code
	F1	→	1-Point (Fiber Sensor)
	CF	→	Cooling Fin
	DR	→	Damper
	FJ	→	Heating Jacket (Full)
	SJ	→	Heating Jacket (Semi)
	EX	→	(Explosion-Proof)
	GV	→	Valve

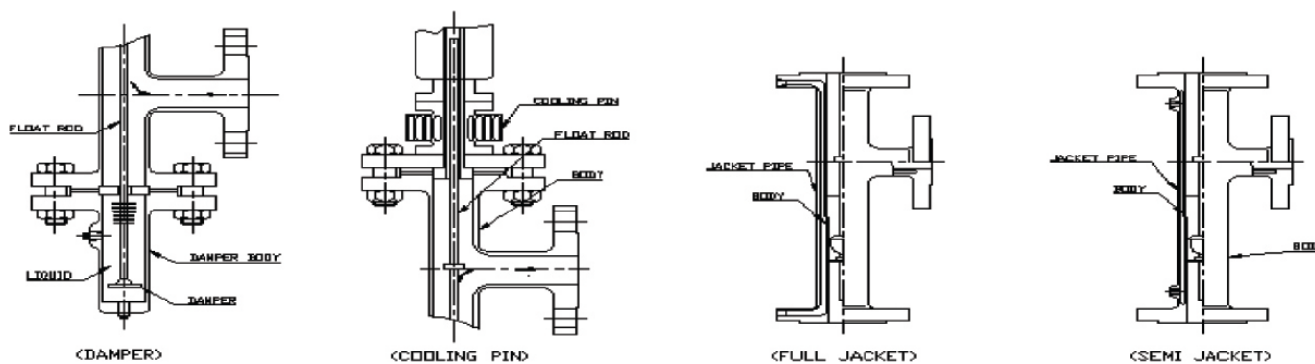
Dimensions and Flow Rate FKMFJ



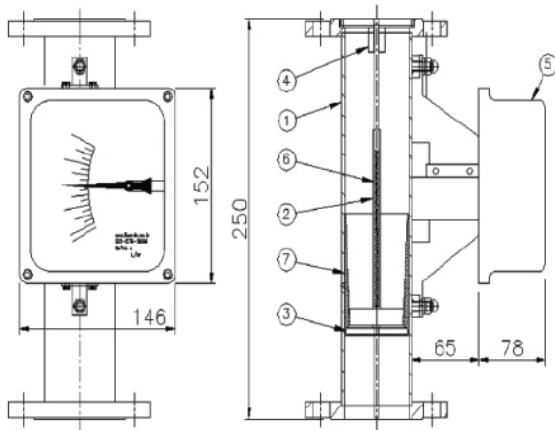
Meter Size		Flow m ³ /h	ΔP (mmH ₂ O)	L (mm)	Weight (kg)
mm	inch				
15	1/2	0.1 ~ 1	650	350	5
		1.0 ~ 10(G)	900		
20	3/4	0.15 ~ 1.5	650	350	5
		3 ~ 30(G)	900		
25	1	0.4 ~ 4	750	350	6
		10 ~ 100(G)	950		
32	1 1/4	0.6 ~ 6	800	360	7
		15 ~ 150(G)	1100		
40	1 1/2	1 ~ 10	900	360	8
		20 ~ 200(G)	1200		
50	2	1.5 ~ 15	700	360	10
		25 ~ 250(G)	1000		

Note *(G) : In Case of Gas, Nm³/h

Option



Dimensions and Flow Rate FKMFA



Meter Size		Liquid		Gas		Weight (kg)
mm	inch	Flow Rate (m ³ /h)	ΔP (mmH ₂ O)	Flow Rate (Nm ³ /h)	ΔP (mmH ₂ O)	
15	1/2	0.1 ~ 1	650	1.0 ~ 10	900	5
20	3/4	0.15 ~ 1.5	650	3 ~ 30	900	5
25	1	0.4 ~ 4	750	10 ~ 100	950	6
32	1 1/4	0.6 ~ 6	800	15 ~ 150	1100	7
40	1 1/2	1 ~ 10	900	20 ~ 200	1200	8
50	2	1.5 ~ 15	700	25 ~ 250	1000	10
65	2 1/2	2.5 ~ 25	750	60 ~ 600	1500	20
80	3	4 ~ 40	900	100 ~ 1000	2300	23
100	4	7 ~ 70	1250	180 ~ 1800	2400	30
125	5	12 ~ 120	1400	230 ~ 2300	-	43
150	6	18 ~ 180	1700	300 ~ 3000	-	50
200	8	~ 200	-	-	-	-
250	10	~ 250	-	-	-	-

1. Body 2. Float Rod 3. Stopper 4. Damper 5. Indicator 6. Magnetic 7. Taper Tube