ANICO

Flow Meter

Flow Meter
Roots

FMH50 - 00CI20

FMH50 - 00CI10

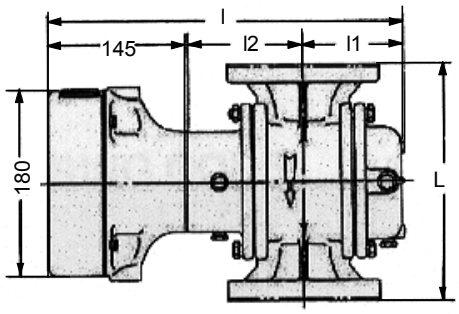
Flow Range

Model	*Size mm*	*Flow range in m^3/h (viscosity under 5cp)*	*Flow range in m^3/h (viscosity 5cp up)*	*Flow range in m^3/h (viscosity 5-10 cp)*	*Flow range in m^3/h (viscosity 10 cp up)*
FMH25	25 mm	0.4 - 6	0.1 - 6	-	-
FMH40	40 mm	0.4 - 6	0.1 - 6	-	-
FMH50	50 mm	0.8 - 13	0.25 -13	-	-
FMH80	80 mm	1.8 - 25	0.6 - 35	-	-
FMH80cp	80 mm	2.5 - 50	1.0 - 50	-	-
FMH100	100 mm	12 - 85	-	8 - 120	4 - 120

Basic Specifications

Nominal Size mm		*25, 40, 50, 80, 100 mm*
Accuracy		0.50 %
Max. operating pressure		10 kg/cm^2 (20 kg/cm^2 on request)
Max. operating temperature		120 ^oC (150 ^oC on request)
Connection end		ASA 150 LBS, JIS 10K (JIS20K on request)
Material	Meter body	FC25 (SUS304 & SUS316 available on request)
	Roots	Brass alloy, SUS304 SUS316 on request
	Register housing	Aluminium alloy
Display	Totalizing counter	7 or 8 - digits LCD
	Reset counter	5 - digits LCD
Power	Lithium battery	Ratings : 3.6V Life : approx. 3 or 6 years
Output	Pulse / Reed switch	Max. switching current 50V DC, 50mA DC

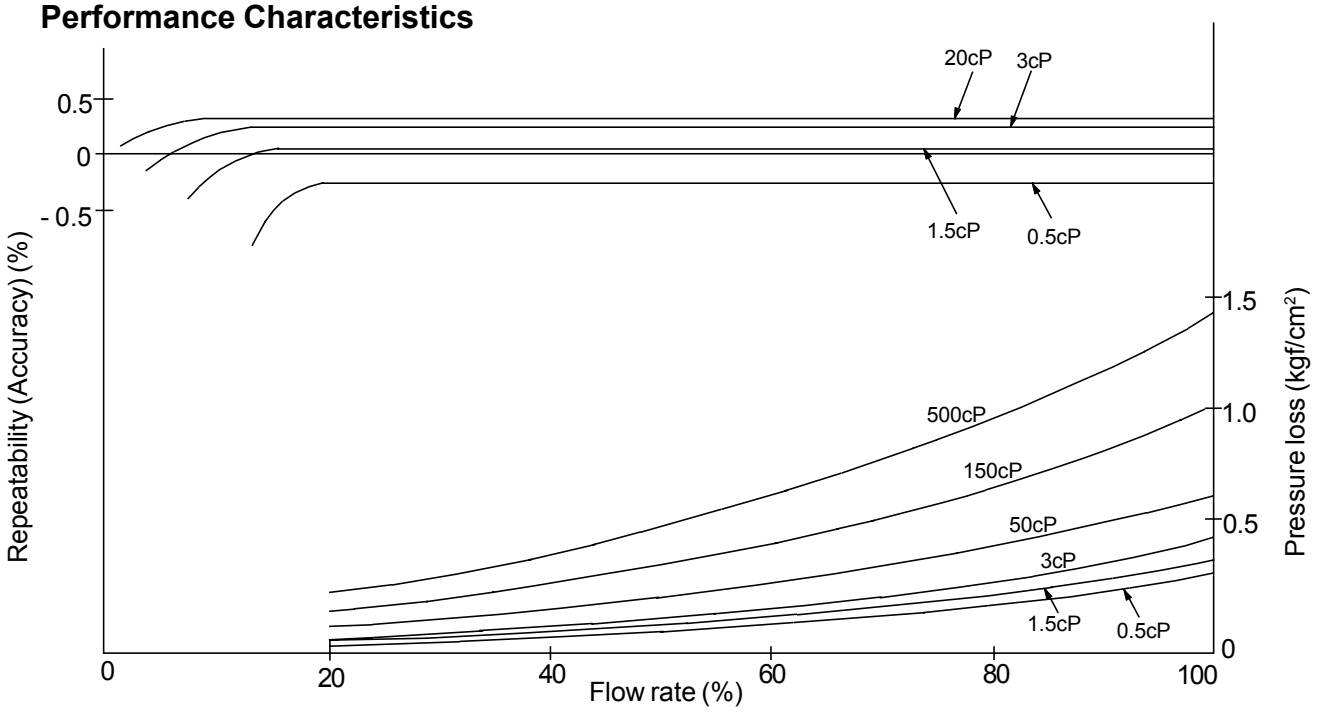
EXPLOSION - PROOF OPTION ON REQUEST



Dimensions and Weights

Model	L	l	l1	l2	weight (kg)	l/rev of pointer
FMH25	200	325	78	92	18	10
FMH40	200	325	78	92	18	
FMH50	250	370	105	119	26	
FMH80	320	426	144	136	43	100
FMH100	450	660	260	250	120	

Performance Characteristics



Ordering Code

Basic Model	*Size*	*Max. Temp.*	*Max. Pressure*	*Body Material*	*Display /output*	*Connection*	*Desciption*
FMH							Roots Type Oil Flow Meter
	25						1” (25 mm)
	40						1-1/2” (40 mm)
	50						2” (50 mm)
	80						3” (80 mm)
	80CP						3” (80 mm)
	100						4” (100 mm)
		-0					Max. Temp. 120 °C
		-1					Max. Temp. 150 °C
			0				Max. Pressure 10 kg/cm²
			1				Max. Pressure 20 kg/cm²
				CI			Application : heavy oil (for size 50,80,100)
				SS			Application : chemical solutions, acetic acid, nitric acid, sulfuric acid
					0		Totalizer
					1		Totalizer with zero reset
					2		Pulse Output
					3		Totalizer with pulse output
					4		Totalizer with flow rate
					5		Totalizer with flow rate, 4-20 mA output
					6		Totalizer with flow rate and pulse output

FLOW RANGE ACCURACY ±0.5%

Unit m^3/hour

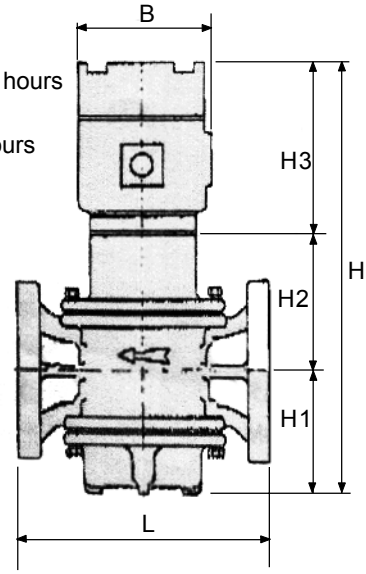
Capacity type Note1	Diameter	Terms Note2	Fluid / Viscosity	Petrloeum								
				LPG	Gasoline	Kero-sene	Light oil grade-A heavy oil (high temperature)	Grade-A heavy oil	Grade-B heavy oil, Grade-C heavy oil (high temperature)	Grade-C heavy oil		Highly viscous fluids
				0.1cP~	0.5cP~	2cP~	5cP~	10cP~	50cP~	150cP~	500cP~	2000cP~
25 40	25 40	Normal	Continuous	-	1~4.5	0.8~4.5	0.4~6	0.1~6	0.05~6	0.025~6	0.013~4.5	0.007~3.5
			intermittent	-	1~6	0.8~6	0.4~7	0.1~7	0.05~7	0.025~7	0.013~6	0.007~4.5
		Maximum		-	7	7	8	8	8	8	7	6
40 50	40 50	Normal	Continuous	-	2~9	1.5~9	0.8~13	0.25~13	0.1~13	0.05~13	0.02~9	0.01~7.5
			intermittent	-	2~13	1.5~13	0.8~15	0.25~15	0.1~15	0.05~15	0.02~13	0.01~9
		Maximum		-	15	15	17	17	17	17	15	13
80	80	Normal	Continuous	6.5~17	5~17	3.5~25	1.8~25	0.6~35	0.3~35	0.15~35	0.07~20	0.03~17
			intermittent	6.5~28	5~28	3.5~35	1.8~35	0.6~40	0.3~40	0.15~40	0 .07~35	0.03~28
		Maximum		35	35	40	40	45	45	45	35	28
80L 100	80 100	Normal	Continuous	13~36	8~35	5~35	2.5~50	1~50	0.5~50	0.25~50	0.12~35	0.06~28
			intermittent	13~50	8~50	5~50	2.5~55	1~55	0.5~55	0.25~55	0.12~50	0.06~35
		Maximum		55	55	55	60	60	60	60	55	50
100L	100	Normal	Continuous	25~85	16~85	12~85	8~120	4~120	2~120	0.7~120	0.35~85	0.17~60
			intermittent	25~120	16~120	12~120	8~130	4~130	2~130	0.7~130	0.35~120	0.17~85
		Maximum		130	130	130	140	140	140	140	130	120

Capacity type Note1	Diameter	Terms Note2	Fluid / Viscosity	Water		Chemicals		Patrochemicals		
				Normal Temperature (up to 80 °C)	High Temperature (up to 80 °C)	Concentrater Sulfuric acid	Cuastic soda (30%)	Plasticizer	Tar	Polyester
								50cP	500cP	2000cP
25 40	25 40	Normal	Continuous	0.8~3.5	1~2.8	0.4~2	0.1~4.5	0.05~4.5	0.013~4.5	0.007~3.5
			intermittent	0.8~4.5	1~3.5	0.4~2.8	0.1~6	0.05~6	0.013~6	0.007~4.5
		Maximum		5	4.5	3.5	7	7	7	6
40 50	40 50	Normal	Continuous	1.6~7.5	2~6	0.8~4.5	0.25~9	0.1~9	0.02~9	0.01~7.5
			intermittent	1.6~9	2~7.5	0.8~6	0.25~13	0.1~13	0.02~13	0.01~9
		Maximum		10	9	7.5	15	15	15	13
80	80	Normal	Continuous	3.5~1.5	5~10	3.5~12	0.6~20	0.3~20	0.07~20	0.03~17
			intermittent	3.5~20	5~17	3.5~15	0.6~35	0.3~35	0.07~35	0.03~28
		Maximum		20	20	20	40	40	35	28
80L 100	80 100	Normal	Continuous	5~28	8~22	2.5~17	1~35	0.5~35	0.12~35	0.06~28
			intermittent	5~35	8~28	2.5~22	1~50	0.5~50	0.12~50	0.06~35
		Maximum		40	35	28	55	55	55	50
100L	100	Normal	Continuous	12~60	16~50	8~40	4~85	2~85	0.35~85	0.17~60
			intermittent	12~85	16~60	8~40	4~120	2~120	0.35~120	0.17~85
		Maximum		95	85	60	130	130	130	120

Remark

1. Intermittene
   : continue flowing under 8 hours
2. Continuous
   : continue flowing 8 - 24 hours
3. Maximum
   : Only can working in short period

Dimensions of flow meter



Standard Specifications

Counter	7 digit or 8 digit, rate 5 digit
Accuracy :	0.5 % (0.2% possible)
Max. Pressure	10 kg/cm² or 20 kg/cm²
Max. Temperature	180 °C
Connection	JIS, DIN, ANSI

Model	L	H	B	H1	H2	H3	weight kg
25	200	288	115	78	70	140	15
40	200	288	115	78	70	140	18
50	250	340	115	105	95	140	22
80	320	420	115	144	136	140	45
80L/100	320	420	115	144	136	140	49
100L	450	653	115	260	253	140	116