

# 유량계 (Turbine and Gear)

## Turbine Flowmeters (유량계) FM Series



AN/MS Flare Connection



NPT Connection



ANSI Flanged Connection



Tri-Clover Connection

### 용 용

- ◇ 우주항공 및 자동차 연료 소비
- ◇ 산업용 천연 가스
- ◇ 수력 (수압, 유압)
- ◇ 고온, 고압 및 고충격 환경
- ◇ 의학용 초고순도 물
- ◇ 석유화학
- ◇ Batching, 혼합 및 Hygienic
  - 예 : 양조장, 증류소, 착유소 등
  - (여기서 Flowmeter는 증기로 청소됨)
- ◇ 보관 장소 이동
- ◇ 저온 환경

### Specifications

Accuracy	Liquid Service* Based on water @ ambient conditions	Gas Service* Based on air @ 14.7 PSIA and 70°F
Calibration Accuracy of Primary Standard Directly traceable to NIST	±0.05% of Reading	±0.3% of Reading
Repeatability	±0.05% of Reading	±0.1% of Reading
Linearity over Normal Range 10:1 turn-down	±0.5% of Reading	±1% of Reading

### Flow Range – Liquid Service

Model Prefix	Nominal Size Inches	Normal Flow Range GPM	Extended Flow Range		Approx. Max. Frequency(Hz) Over Normal Range	Approx. K-Factor Pulse/Gallon
			with Ball Bearing GPM	with Journal Bearing GPM		
FM-4-8	1/2	0.25 – 2.50	0.03 – 3	0.12 – 3	2000	48000
FM-6-8		0.50 – 5.00	0.05 – 5	0.15 – 5		25000
FM-8-8		0.75 – 7.50	0.08 – 8	0.20 – 8		16000
FM-8		1.00 – 10.00	0.10 – 10	0.25 – 10		12000
FM-10	5/8, 3/4	1.25 – 12.50	0.15 – 15	0.3 – 15	1800	9600
FM-12	3/4	2 – 20	0.25 – 25	0.5 – 25		6000
FM-16	1	5 – 50	0.60 – 60	1.00 – 60	1500	2400
FM-20	1 1/4	9 – 90	1.00 – 100	1.50 – 100		1200
FM-24	1 1/2	15 – 150	1.60 – 160	2.00 – 160	1300	600
FM-32	2	20 – 250	2.50 – 250	2.50 – 250	1200	300
FM-40	2 1/2	40 – 450	4.50 – 500	4.50 – 500	800	160
FM-48	3	40 – 650	7.50 – 750	7.50 – 750	600	75
FM-64	4	80 – 1250	15 – 1500	15 – 1500	400	30
FM-96	6	250 – 3000	50 – 3500	50 – 3500	275	8
FM-128	8	500 – 5500	60 – 6000	60 – 6000	225	3
FM-160	10	800 – 8500	100 – 10000	100 – 10000	200	2.5
FM-192	12	1000 – 12000	150 – 15000	150 – 15000		1

### Flow Range – Gas Service

Model Prefix	Nominal Size Inches	Actual Cubic Feet Per Minute (ACFM)		Approx. Max. Frequency(Hz) Over Normal Range	Approx. K-Factor Pulse/Gallon
		with Ball Bearing GPM	with Journal Bearing GPM		
FM-4-8	1/2	0.25 – 2.50	0.2 – 3	2000	48000
FM-6-8		0.50 – 5.00	0.25 – 5		24000
FM-8-8		0.75 – 7.50	0.40 – 8		16000
FM-8		1.00 – 10.00	0.50 – 10		12000
FM-10	5/8, 3/4	1.25 – 12.50	0.60-15	1800	9600
FM-12	3/4	2 – 20	1.00-25		6000
FM-16	1	5 – 50	1.50 – 60	1500	2400
FM-20	1 1/4	9 – 90	2 – 100		1200
FM-24	1 1/2	15 – 150	3 – 160	1300	600
FM-32	2	20 – 250	5 – 250	1200	300
FM-40	2 1/2	30 – 450	10 – 500	800	160
FM-48	3	40 – 650	15 – 750	600	75
FM-64	4	80 – 1250	20 – 1500	400	30
FM-96	6	250 – 3000	70 – 3500	275	8
FM-128	8	500 – 5500	120 – 6000	225	3
FM-160	10	800 – 8500	200 – 10000	200	2.5
FM-192	12	1000 – 12000	300 – 15000		1