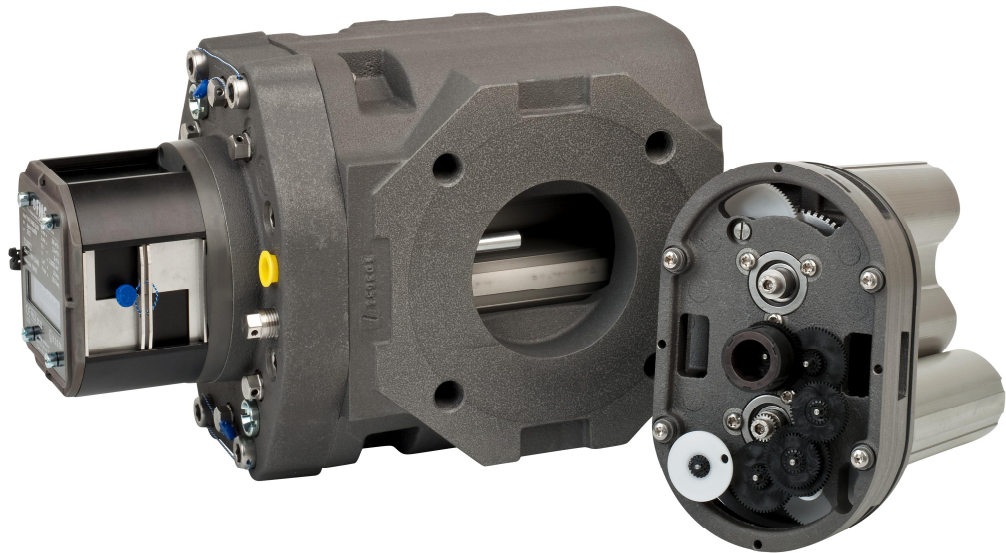


ROTARY METERS SERIES FMR



- ✓ DN40 – DN150 (1-1/2" – 6")
- ✓ PN16, ANSI150, ANSI300
- ✓ 0,5 – 650 m³/h (17 – 23.000 acfh)
- ✓ MID, PED, ATEX approved
- ✓ CARTRIDGE DESIGN
- ✓ ROBUST CONSTRUCTION
- ✓ LOW SENSIVITY TO INSTALLATION STRESS
- ✓ EASY LOCAL REPAIR
- ✓ ON-SITE CLEANING
- ✓ INTEGRATED THERMO WELLS
- ✓ TAMPER PROOF INDEX
- ✓ CLASS 1 OR CLASS 1.5
- ✓ >>1:160 RANGE
- ✓ MULTI POSITION

The FMG series of rotary gas meters is designed to meet the highest demands of reliable and accurate measurement of gas flow. The meters fully comply with the EN12480 and OIML R137. A compact exchangeable aluminum cartridge allows local repair and on-site cleaning. Installation stresses caused by connecting piping are minimal due to the robust design and construction of the casing and cartridge. The aluminum casing (body and cover) is designed for working pressures up to 21 bar (300 psi) with a safety factor of 5. Square impellers and improved positioning of main bearings and shafts makes the meter less susceptible to overload and pressure shocks.

An aluminum index and protection of the LF pulsers with the associated magnets helps prevent manipulation of the meter by externally applied magnets or other external forces. Tampering of meters with strong neodymium magnets is a major concern of utility companies in many parts of the world. This type of manipulation is very difficult to detect and or prove, therefore, prevention of such actions is the best cure. Further, in order to be prepared for the "smart grid", the index can be equipped with an intelligent encoder. A unique proprietary oiling system, where-by the oil is distributed directly to the timing gears by means of a disc, eliminates oil loss at high impeller speed and will lubricate the timing gears at very low loads. All plugs and oil sight glasses are in the front of the meter, allowing the meter to be installed in very compact installations.

OPTIONS: ENCODER / MULTIPLE CONNECTORS / MULTIPLE THERMO WELLS / TOTALLY SEALED / INSTRUMENT DRIVE / SIDE READING





Technical Data	imperial metric	2.5M G40	3.5M G65	5.5M G100	7M -	9M G160	9M G160
Displaced volume	cf	0,025	0,025	0,041	0,050	0,063	0,063
	dm ³	0,72	0,72	1,16	1,43	1,80	1,80
Nominal Pipe Size	in.	1-1/2	2	3	3	3	4
	mm	40	50	80	80	80	100
Base Rating (Qmax)	acfh	2500	3500	5500	7000	9000	9000
	m ³ /h	65	100	160	200	250	250
Rangeability +/- 1%	ratio	65	100	100	100	100	100
Rangeability +/- 2%	ratio	100	160	160	160	160	160
Coverage	imperial	15C-2.5M	15C-3.5M	2M-5.5M	3M-7M	3M-9M	3M-9M
	metric	G16-G40	G16-G65	G40-G100	-	G65-G160	G65-G160
Max. Operating Pressure (MAOP)	psig	300	300	300	300	300	300
	kPa	2100	2100	2100	2100	2100	2100
Temperature Range	deg.F	-40 to +140					
	deg.C	-40 to +70					
Start Rate	cfh	2,0	2,0	2,8	2,8	3,5	3,5
	m ³ /h	0,06	0,06	0,08	0,08	0,1	0,1
Stop Rate	cfh	1,8	1,8	2,1	2,1	2,8	2,8
	m ³ /h	0,05	0,05	0,06	0,06	0,08	0,08
Average Differential @ 100% Flow Natural Gas	in. w.c.	0,7	0,7	0,7	1,0	1,1	1,0
	Pa	90	160	180	240	280	240
Drive Rate Index, ID	cf/rev	10	10	10	10	10	10
	m ³ /rev	0,1	0,1	1	1	1	1
Flange-to-Flange	in.	6-3/4	6-3/4	6-3/4	6-3/4	6-3/4	6-3/4
	mm	171	171	171	171	171	171
Flange Connection	ANSI	150#FF	150#FF	150#FF	150#FF	150#FF	150#FF
	DIN	PN16	PN16	PN16	N/A	PN16	PN16
Net Weight ⁽²⁾	lbs.	26	26	31	35	41	41
	kg	12	12	14	16	19	19

Technical Data	imperial metric	9M G160	16M G250	23M G400	23M G400	3.5M G65	7M G100
Displaced volume	cf	0,069	0,111	0,180	0,180	0,041	0,063
	dm ³	1,98	3,17	5,15	5,15	1,16	1,80
Nominal Pipe Size	in.	3	4	4	6	2	3
	mm	80	100	100	150	50	80
Base Rating (Qmax)	acfh	9000	16000	23000	23000	3500	7000
	m ³ /h	250	400	650	650	100	160
Rangeability +/- 1%	ratio	100	100	100	100	65	65
Rangeability +/- 2%	ratio	160	160	160	160	100	100
Coverage	imperial	3M-9M	7M-16M	7M-23M	7M-23M	2M-3.5M	3M-7M
	metric	G65-G160	G100-G250	G160-G400	G160-G400	G40-G65	G65-G100
Max. Operating Pressure (MAOP)	psig	300	300	300	232	450	450
	kPa	2100	2100	2100	1600	3000	3000
Temperature Range	deg.F	-40 to +140					
	deg.C	-40 to +70					
Start Rate	cfh	4,2	5,3	7,0	7,0	2,8	3,5
	m ³ /h	0,12	0,15	0,20	0,20	0,08	0,1
Stop Rate	cfh	3,5	4,2	5,6	5,6	2,1	2,8
	m ³ /h	0,10	0,12	0,16	0,16	0,06	0,08
Average Differential @ 100% Flow Natural Gas	in. w.c.	1,6	1,0	2,2	1,7	0,7	1,1
	Pa	400	240	550	420	180	280
Drive Rate Index, ID	cf/rev	10	100	100	100	10	10
	m ³ /rev	1	1	1	1	0,1	1
Flange-to-Flange	in.	9-1/2	9-1/2	9-1/2	16	on request	on request
	mm	241	241	241	457	on request	on request
Flange Connection	ANSI	150#FF	150#FF	150#FF	150#FF	300#RF	300#RF
	DIN	PN16	PN16	PN16	PN16	N/A	N/A
Net Weight ⁽²⁾	lbs.	70	84	110	136	37	51
	kg	32	38	50	62	17	23