ROTARY METERS SERIES FMR



- ✓DN40 DN150 (1-1/2" 6")
- ✓PN16, ANSI150, ANSI300
- \checkmark 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 dm³	0,025 0,72	0,025 0,72	0,041 1,16	0,050 1,43	0,063 1,80	0,063 1,80	
Nominal Pipe Size	in.	1-1/2	2	3	3	3	4	
Raca Pating (Omay)	mm	40	50	80	80	80	100	
Base Rating (Qmax)	acfh	2500	3500	5500	7000	9000	9000	
Danis	m³/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	
M 0 "	metric	G16-G40	G16-G65	G40-G100	-	G65-G160	G65-G160	
Max. Operating	psig	300	300	300	300	300	300	
Pressure (MAOP) Temperature Range	kPa	2100	2100	2100	2100	2100	2100	
remperature Range	deg.F deg.C	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	
	m³/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	
	m³/h	0,05	0,05	0,06	0,06	0,08	0,08	
Average Differential @	in. w.c.	0,7	0,7	0,7	1,0	1,1	1,0	
100% Flow Natural Gas	Pa	90	160	180	240	280	240	
Drive Rate Index, ID	cf/rev	10	10	10	10	10	10	
Drive Rate index, iD	m³/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	
riange-to-riange	mm	171	171	171	171	171	171	
Flange Connection	ANSI	150#FF	150#FF	150#FF	150#FF	150#FF	150#FF	
Trange connection	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	9M	16M	23M	23M	3.5M	7M	
	metric	G160	G250	C400	C400	CAS	G100	
Displaced volume	metric	G160	G250 0.111	G400 0.180	G400 0.180	G65	G100	
Displaced volume	cf	0,069	0,111	0,180	0,180	0,041	0,063	
·	cf dm³	0,069 1,98	0,111 3,17	0,180 5,15	0,180 5,15	0,041 1,16	0,063 1,80	
Displaced volume Nominal Pipe Size	cf dm³ in.	0,069 1,98 3	0,111 3,17 4	0,180 5,15 4	0,180 5,15 6	0,041 1,16 2	0,063 1,80 3	
Nominal Pipe Size	cf dm³ in. mm	0,069 1,98 3 80	0,111 3,17 4 100	0,180 5,15 4 100	0,180 5,15 6 150	0,041 1,16 2 50	0,063 1,80 3 80	
·	cf dm³ in. mm acfh	0,069 1,98 3 80 9000	0,111 3,17 4 100 16000	0,180 5,15 4 100 23000	0,180 5,15 6 150 23000	0,041 1,16 2 50 3500	0,063 1,80 3 80 7000	
Nominal Pipe Size Base Rating (Qmax)	cf dm³ in. mm acfh m³/h	0,069 1,98 3 80 9000 250	0,111 3,17 4 100 16000 400	0,180 5,15 4 100 23000 650	0,180 5,15 6 150 23000 650	0,041 1,16 2 50 3500 100	0,063 1,80 3 80 7000 160	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1%	cf dm³ in. mm acfh m³/h ratio	0,069 1,98 3 80 9000 250	0,111 3,17 4 100 16000 400	0,180 5,15 4 100 23000 650 100	0,180 5,15 6 150 23000 650	0,041 1,16 2 50 3500 100 65	0,063 1,80 3 80 7000 160 65	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2%	cf dm³ in. mm acfh m³/h ratio ratio	0,069 1,98 3 80 9000 250 100 160	0,111 3,17 4 100 16000 400 100 160	0,180 5,15 4 100 23000 650 100 160	0,180 5,15 6 150 23000 650 100	0,041 1,16 2 50 3500 100 65 100	0,063 1,80 3 80 7000 160 65	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1%	cf dm³ in. mm acfh m³/h ratio ratio imperial	0,069 1,98 3 80 9000 250 100 160 3M-9M	0,111 3,17 4 100 16000 400 100 160 7M-16M	0,180 5,15 4 100 23000 650 100 160 7M-23M	0,180 5,15 6 150 23000 650 100 160 7M-23M	0,041 1,16 2 50 3500 100 65 100 2M-3.5M	0,063 1,80 3 80 7000 160 65 100 3M-7M	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage	cf dm³ in. mm acfh m³/h ratio ratio imperial metric	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250 300	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP)	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250 300	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP)	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250 300	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP) Temperature Range	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F deg.C	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160 300 2100	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250 300 2100	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100 -40 to	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600 0+140	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65 450 3000	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100 450 3000	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP) Temperature Range Start Rate	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F deg.C cfh	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160 300 2100	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250 300 2100	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100 -40 to	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600 0+140 0+70	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65 450 3000	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100 450 3000	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP) Temperature Range	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F deg.C cfh m³/h	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160 300 2100	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250 300 2100	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100 -40 to -40 to 7,0 0,20	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600 0+140 0+70	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65 450 3000	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100 450 3000	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP) Temperature Range Start Rate	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F deg.C cfh m³/h cfh	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160 300 2100	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250 300 2100 5,3 0,15 4,2	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100 -40 to -40 to 7,0 0,20 5,6	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600 0+140 0+70 7,0 0,20 5,6	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65 450 3000	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100 450 3000	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP) Temperature Range Start Rate Stop Rate	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F deg.C cfh m³/h cfh m³/h	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160 2100 4,2 0,12 3,5 0,10	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250 300 2100 5,3 0,15 4,2 0,12	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100 -40 to -40 to 7,0 0,20 5,6 0,16	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600 0+140 0+70 7,0 0,20 5,6 0,16	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65 450 3000	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100 450 3000	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP) Temperature Range Start Rate Stop Rate Average Differential @	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F deg.C cfh m³/h cfh m³/h cfh m³/h in. w.c.	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160 300 2100 4,2 0,12 3,5 0,10 1,6	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250 300 2100 5,3 0,15 4,2 0,12 1,0	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100 -40 to -40 to 7,0 0,20 5,6 0,16 2,2	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600 0+140 0+70 7,0 0,20 5,6 0,16 1,7	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65 450 3000	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100 450 3000	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP) Temperature Range Start Rate Stop Rate Average Differential @ 100% Flow Natural Gas	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F deg.C cfh m³/h cfh m³/h cfh m³/h in. w.c. Pa	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160 300 2100 4,2 0,12 3,5 0,10 1,6 400	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250 300 2100 5,3 0,15 4,2 0,12 1,0 240	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100 -40 to 7,0 0,20 5,6 0,16 2,2 550	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600 0+140 0+70 7,0 0,20 5,6 0,16 1,7 420	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65 450 3000	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100 450 3000	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP) Temperature Range Start Rate Stop Rate Average Differential @ 100% Flow Natural Gas Drive Rate Index, ID	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F deg.C cfh m³/h cfh m³/h in. w.c. Pa cf/rev	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160 300 2100 4,2 0,12 3,5 0,10 1,6 400 10	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250 300 2100 5,3 0,15 4,2 0,12 1,0 240 100	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100 -40 to -40 to 7,0 0,20 5,6 0,16 2,2 550 100	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600 0+70 7,0 0,20 5,6 0,16 1,7 420	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65 450 3000 2,8 0,08 2,1 0,06 0,7 180 10 0,1	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100 450 3000 3,5 0,1 2,8 0,08 1,1 280 10	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP) Temperature Range Start Rate Stop Rate Average Differential @ 100% Flow Natural Gas	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F deg.C cfh m³/h cfh m³/h in. w.c. Pa cf/rev m³/rev in.	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160 300 2100 4,2 0,12 3,5 0,10 1,6 400 10 1 9-1/2	0,111 3,17 4 100 16000 400 100 1600 7M-16M G100-G250 300 2100 5,3 0,15 4,2 0,12 1,0 240 100 1 9-1/2	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100 -40 to -40 to 7,0 0,20 5,6 0,16 2,2 550 100 1	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600 0+70 7,0 0,20 5,6 0,16 1,7 420 100 1	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65 450 3000 2,8 0,08 2,1 0,06 0,7 180 10 0,1 on request	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100 450 3000 3,5 0,1 2,8 0,08 1,1 280 10 1 on request	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP) Temperature Range Start Rate Stop Rate Average Differential @ 100% Flow Natural Gas Drive Rate Index, ID Flange-to-Flange	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F deg.C cfh m³/h cfh m³/h in. w.c. Pa cf/rev m³/rev in. mm	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160 300 2100 4,2 0,12 3,5 0,10 1,6 400 10 1 9-1/2 241	0,111 3,17 4 100 16000 400 100 1600 7M-16M G100-G250 300 2100 5,3 0,15 4,2 0,12 1,0 240 100 1 9-1/2 241	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100 -40 to -40 to 7,0 0,20 5,6 0,16 2,2 550 100 1 9-1/2 241	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600 0+140 0+70 7,0 0,20 5,6 0,16 1,7 420 100 1 16 457	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65 450 3000 2,8 0,08 2,1 0,06 0,7 180 10 0,1 on request on request	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100 450 3000 3,5 0,1 2,8 0,08 1,1 280 10 1 on request on request	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP) Temperature Range Start Rate Stop Rate Average Differential @ 100% Flow Natural Gas Drive Rate Index, ID	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F deg.C cfh m³/h cfh m³/h in. w.c. Pa cf/rev m³/rev in. mm ANSI	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160 300 2100 4,2 0,12 3,5 0,10 1,6 400 10 1 9-1/2 241 150#FF	0,111 3,17 4 100 16000 400 100 1600 7M-16M G100-G250 300 2100 5,3 0,15 4,2 0,12 1,0 240 100 1 9-1/2 241 150#FF	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100 -40 to -40 to 7,0 0,20 5,6 0,16 2,2 550 100 1 9-1/2 241 150#FF	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600 0+140 0+70 7,0 0,20 5,6 0,16 1,7 420 100 1 16 457 150#FF	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65 450 3000 2,8 0,08 2,1 0,06 0,7 180 10 0,1 on request on request	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100 450 3000 3,5 0,1 2,8 0,08 1,1 280 10 1 on request on request 300#RF	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP) Temperature Range Start Rate Stop Rate Average Differential @ 100% Flow Natural Gas Drive Rate Index, ID Flange-to-Flange Flange Connection	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F deg.C cfh m³/h cfh m³/h in. w.c. Pa cf/rev m³/rev in. mm ANSI DIN	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160 300 2100 4,2 0,12 3,5 0,10 1,6 400 10 1 9-1/2 241 150#FF PN16	0,111 3,17 4 100 16000 400 100 160 7M-16M G100-G250 300 2100 5,3 0,15 4,2 0,12 1,0 240 100 1 9-1/2 241 150#FF PN16	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100 -40 to -40 to 7,0 0,20 5,6 0,16 2,2 550 100 1 9-1/2 241 150#FF PN16	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600 0+140 0+70 7,0 0,20 5,6 0,16 1,7 420 100 1 16 457 150#FF PN16	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65 450 3000 2,8 0,08 2,1 0,06 0,7 180 10 0,1 on request on request 300#RF N/A	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100 450 3000 3,5 0,1 2,8 0,08 1,1 280 10 1 on request on request 300#RF N/A	
Nominal Pipe Size Base Rating (Qmax) Rangeability +/- 1% Rangeability +/- 2% Coverage Max. Operating Pressure (MAOP) Temperature Range Start Rate Stop Rate Average Differential @ 100% Flow Natural Gas Drive Rate Index, ID Flange-to-Flange	cf dm³ in. mm acfh m³/h ratio ratio imperial metric psig kPa deg.F deg.C cfh m³/h cfh m³/h in. w.c. Pa cf/rev m³/rev in. mm ANSI	0,069 1,98 3 80 9000 250 100 160 3M-9M G65-G160 300 2100 4,2 0,12 3,5 0,10 1,6 400 10 1 9-1/2 241 150#FF	0,111 3,17 4 100 16000 400 100 1600 7M-16M G100-G250 300 2100 5,3 0,15 4,2 0,12 1,0 240 100 1 9-1/2 241 150#FF	0,180 5,15 4 100 23000 650 100 160 7M-23M G160-G400 300 2100 -40 to -40 to 7,0 0,20 5,6 0,16 2,2 550 100 1 9-1/2 241 150#FF	0,180 5,15 6 150 23000 650 100 160 7M-23M G160-G400 232 1600 0+140 0+70 7,0 0,20 5,6 0,16 1,7 420 100 1 16 457 150#FF	0,041 1,16 2 50 3500 100 65 100 2M-3.5M G40-G65 450 3000 2,8 0,08 2,1 0,06 0,7 180 10 0,1 on request on request	0,063 1,80 3 80 7000 160 65 100 3M-7M G65-G100 450 3000 3,5 0,1 2,8 0,08 1,1 280 10 on request on request 300#RF	

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FMR FEN001 rev.3