

MRR Bypass Odorizers

Sized by Refill Interval, Not by Pipeline.

MRR bypass odorizers use pipeline differential pressure to deliver odorant — no wicks, no external power, and no moving parts in the gas stream. Five reservoir sizes from 6 to 250 gallons let you size the unit to the refill interval you want rather than to the pipeline, so a station on a modest feed can run a full year or more between deliveries. Every unit ships on stainless secondary containment with leveling feet, sits at grade without burying, and is National Board Registered with a CRN for service in the United States and Canada.

Capacity & Fill Interval

Based on a Chevron Phillips mercaptan blend, SP.GR. 0.81 (6.76 lb/gal), odorization rate 0.5 lb/MMSCF (8 mg/m³).

	MRR6	MRR22	MRR45	MRR100	MRR250
Total volume (gal)	6	22	45	100	250
Fill volume, 80% linear (gal)	4.8	17.6	36	80	200
Maximum flow (mscfh)	500	2,100	3,900	6,500	10,356
Maximum rate (lb/hr)	0.25	1.05	1.95	3.25	5.18

Each model is sized to provide approximately 2 years between refills at typical operating conditions; MRR sizes the specific configuration to your flow requirements.

Common to All Models

- MAWP @ design temperature: 1,000 PSIG @ -20°F to 150°F
- Certifications: National Board Registered, CRN
- Service fluid: Mercaptan, SP.GR. 0.81 @ 60°F
- Odorization rates: 0.5–1.0 lb/MMSCF
- Pressure differential: 10" WC, pipeline connections 6" either side of a constricting valve or orifice plate
- Tank and supports: Carbon steel, painted white
- Containment: Stainless steel, at least 110% of odorizer volume, leveling feet
- Hardware: Fire-sized PRV, Swagelok 60-series ball valves
- Level measurement: Std. magnetic float (375 PSIG) · magnetic float (1,000 PSIG) · optional battery-operated radar

Dimensions & Weight

Overall dimensions, excluding cover, to top of sight glass.

Model	L × W × H (in)	Weight (lb)	Containment volume (gal)
MRR6	33 × 28 × 63	500	16.6
MRR22	67 × 46 × 61.75	665	24.2
MRR45	75 × 46 × 61.75	900	50
MRR100	67 × 46 × 61.75	1,450	110
MRR250	67 × 46 × 61.75	3,000	275

Applications

Renewable natural gas · CNG · LNG · distribution gas. Transmission stations, distribution feeds, RNG interconnects, and temporary or seasonal service.