



Guardian Membrane Liquid Separator

PRODUCT FEATURES / BENEFITS

- ◆ 316L Stainless Steel Standard: NACE MR-01-75 Compliant
- ◆ Integral Porting and Mounting Bracket
- ◆ Up to 70 LPM Flow (2.5 SCFM)
- ◆ 1500 PSIG Maximum Pressure Rating
- ◆ Liquid / Liquid Separation
- ◆ CNG / LNG Sampling Systems
- ◆ Protect Liquid Analyzers
- ◆ Separate Water from Liquid Hydrocarbon Streams

The **GMSL205 Series** is specifically designed to remove water and other high surface tension liquids from liquid hydrocarbon streams. Utilizing a specialized **M3 membrane**, the system selectively blocks water while allowing hydrocarbon liquids to pass freely through **microscopic channels** engineered for optimal separation.

The membrane incorporates a unique **support layer** that increases pressure drop tolerance, enhancing separation efficiency and durability under process conditions.

This advanced liquid/liquid separation technology effectively removes fine, immiscible water droplets without altering the properties of the hydrocarbon stream—making the GMSL205 ideal for refining, petrochemical, and fuel handling applications.



Stainless Steel Housing Model	GMSL205-1/4"	GMSL205-1/2"
Port Size (NPT)	1/4"	1/2"
Drain & Gauge Port (NPT)	1/4"	1/2"
Maximum Pressure (psig)	1500	1500
Internal Volume (cc) In Sample Chamber - Behind Membrane	19.69	19.69
Principle Dimensions: (inch)		
Center of Port to Back	0.60	0.60
Body Diameter	3.94	3.94
Body Depth (with knob)	3.03	3.03
Space Required to Remove Cap	1.30	1.30
Maximum Temp. (300°F)		
Standard Viton O-Ring	GVGMS205	GVGMS205
PTFE Membrane Code	MT.61.M3	MT.61.M3
Drawing	<u>GMSL205-1/4"</u>	<u>GMSL205-1/2"</u>

For More Detail & Options

Stream	1.5 PSID	15 PSID
Gasoline	65 CC / Minute	650 CC / Minute
Kerosene	29 CC / Minute	290 CC / Minute
Diesel	22 CC / Minute	220 CC / Minute

Flow Rate In CC / Minute At 1.5 PSID And 15 PSID Across M3 Liquid / Liquid Membrane.
 Note The Differential Must Be Lower Than Stream Pressure
 For Best Results Do Not Exceed 15 PSIG Differential To Eliminate Water Breakthrough On Membrane.

	MT.33.M3	MT.61.M3
Membrane Type	H2O / HC	H2O / HC
Material	PTFE	PTFE
Diameter (mm)	33	61
Thickness (µm)	150	150
Maximum Temperature (°F)	300	300
Membrane Micron Size	0.8	0.8