Stainless Steel Model	GMS050	GMS100	GMS105-1/8”	GMS105-1/4”
Port Size (NPT)	1/8”	1/4”	1/8”	1/4”
Drain & Sample Port (NPT)	1/8”	1/4”	1/8”	1/4”
Maximum Pressure (psig)	1500	1500	1500	1500
Internal Volume (cc)				
In Sample Chamber (Behind Membrane)	1.5	3	3.96	3.96
Weight of Housing (lbs)	0.5	1.5	2.0	2.0
Principle Dimensions: (inch)				
Center of Port to Back	0.28	N/A	0.39	0.39
Body Diameter	1.50	1.97	2.48	2.48
Body Depth	1.29	2.01	1.83	1.83
Space Required to Remove Cap	0.79	1.38	0.87	0.87
Maximum Temp. (300ºF) Standard Viton O-Ring	GVGMS050	GVGMS100	GVGMS105	GVGMS105
PTFE Membrane Code (1) **Specify: M1 (Low Flow) or M2 (High Flow)	MT.19.□G	MT.33.□HG	MT.33.□HG	MT.33.□HG
Drawing **For More Detail & Options**	**GMS050**	**GMS100**	**GMS105-1/8”**	**GMS105-1/4”**
PTFE Model Max. Pressure: 100 PSIG, Maximum Temp: 250°F	**N/A**	**N/A**	**GMS105P-1/8”**	**GMS105P-1/4”**

Notes: (1) Replace the “□” with the flow required. i.e. MT.19.M1G, MT.33.M2HG

Stainless Steel Model	GMS120	GMS122	GMS127G
Port Size (NPT)	1/8”	1/4”	1/4”
Drain & Sample Port (NPT)	1/8”	1/4”	1/8” / 1/4”
Maximum Pressure (psig)	1500	1500	100
Internal Volume (cc)			
Upstream (Downstream)	0.118	0.118	0.118
Weight of Housing (lbs)	2.0	2.0	2.0
Principle Dimensions: (inch)			
Body Diameter	2.00	2.00	2.00
Overall Length	5.08	5.08	5.52
Space Required to Coalescing Element	2.36	2.36	2.64
Maximum Temp. (300ºF) Standard Viton O-Ring	GVGMS120	GVGMS120	GVGMS120
Coalescing Element PTFE Membrane Code (1) **Specify: M1 (Low Flow) or M2 (High Flow)	12-57-50C MT.33.□HG/50C	12-57-50C MT.33.□HG/50C	12-57-50C MT.33.□HG/50C
Drawing **For More Detail & Options**	**GMS120**	**GMS122**	**GMS127G**
PTFE Model Max. Pressure: 100 PSIG, Maximum Temp: 250°F	**GMS120P**	**GMS122P**	**N/A**

Notes: (1) Replace the “□” with the flow required. i.e. MT.33.M1HG/50C, MT.33.M2HG/50C

Stainless Steel Model	GMS170	GMS170-4791
Port Size (NPT)	1/4"	1/4"
Drain & Sample Port (NPT)	1/4"	1/4"
Maximum Pressure (psig)	2000	2000
Internal Volume (cc)		
Upstream (Downstream)	33.23 (1.53)	48 (2)
Weight of Housing (lbs)	1.5	1.5
Principle Dimensions: (inch)		
Body Diameter	2.12	2.12
Overall Length	3.23	3.23
Space Required to Coalescing Element	1.61	1.61
Maximum Temp. (300ºF) Standard Viton O-Ring	GVGMS170	GVGMS170
Coalescing Element PTFE Membrane Code (1) **Specify: M1 (Low Flow) or M2 (High Flow)	22/32-27-50CS MT.33.□HG/170	22/32-27-50CS MT.33.□HG/170
Drawing **For More Detail & Options**	**GMS170**	**GMS170-4791**

Notes: (1) Replace the "□" with the flow required. i.e. MT.33.M1HG/50C, MT.33.M2HG/50C

Stainless Steel Model	GMS205-1/4"	GMS205-1/2"	GMS305-1/8"	GMS305-1/4"
Port Size (NPT)	1/4"	1/2"	1/8"	1/4"
Drain & Sample Port (NPT)	1/4"	1/2"	1/8"	1/4"
Maximum Pressure (psig)	2200	2200	1500	1500
Internal Volume (cc)				
In Sample Chamber - Behind Membrane	19.69	19.69	28.00	28.00
Weight of Housing (lbs)	7.0	7.0	9.0	9.0
Principle Dimensions: (inch)				
Center of Port to Back	0.63	0.63	0.39	0.39
Body Diameter	3.94	3.94	4.49	4.49
Body Depth (with knob)	3.03	3.03	1.85	1.85
Space Required to Remove Cap	1.38	1.38	3.70	3.70
Maximum Temp. (300ºF) Standard Viton O-Ring	GVGMS205	GVGMS205	GVGMS305	GVGMS305
PTFE Membrane Code (1) **Specify: M1 (Low Flow) or M2 (High Flow)	MT.61.□HG	MT.61.□HG	MT.89.□G	MT.89.□G
Drawing **For More Detail & Options**	**GMS205-1/4"**	**GMS205-1/2"**	**GMS305-1/8"**	**GMS305-1/4"**
PTFE Model Max. Pressure:100 PSIG, Max.Temp: 250°F	**GMS205P-1/4"**	**GMS205P-1/2"**	**GMS305P-1/8"**	**GMS305P-1/4"**

Notes: (1) Replace the "□" with the flow required. i.e. MT.61.M1HG, MT.61.M2HG

* We also offer a GMS205ST (Straight Through / Fast Loop) version is which the inlet/outlet ports are directly connected and the membrane only filters what the analyzer requires. *

Stainless Steel Model	GMS130	GMS132	GMS137G	GMS138G
Port Size (NPT)	1/4″	1/2″	1/4″	1/2″
Drain & Sample Port (NPT)	1/4″	1/4″	1/4″	1/4″
Maximum Pressure (psig)	1500	1500	100	100
Internal Volume (cc)				
In Sample Chamber - Behind Membrane	2.2	2.2	2.2	2.2
Weight of Housing (lbs)	9.0	9.0	9.0	9.0
Principle Dimensions: (inch)				
Body Diameter	3.38	3.38	3.38	3.38
Overall Length	5.73	5.73	6.25	6.25
Space Required to Coalescing Element	2.95	2.95	3.15	3.15
Maximum Temp. (300ºF) Standard Viton O-Ring	GVGMS130	GVGMS130	GVGMS137	GVGMS137
Coalescing Element PTFE Membrane Code (1) **Specify: M1 (Low Flow) or M2 (High Flow)	25-64-50C MT.61.□HG/50C	25-64-50C MT.61.□HG/50C	25-64-50C MT.61.□HG/50C	25-64-50C MT.61.□HG/50C
Drawing **For More Detail & Options**	**GMS130-61**	**GMS132**	**GMS137G**	**GMS138G**

Notes: (1) Replace the "□" with the flow required. i.e. MT.61.M1HG/50C, MT.61.M2GH/50C

- **M1 (0.1 micron):** A low-flow membrane ideal for most liquid applications.
- **M2 (0.8 micron):** A high-flow variant recommended for higher surface tension liquids, enabling faster processing without compromising separation integrity.

Membrane Size	MT.19.M1G	MT.19.M2G
Membrane Type	Low Flow	High Flow
Material	PTFE	PTFE
Diameter (mm)	19	19
Thickness (µm)	152	152
Maximum Temperature (ºF)	300	300
Recommended Flow Rate (LPM)	0.25	6
Membrane Micron Size	0.1	0.8

Membrane Size	MT.33.M1G	MT.33.M2G
Membrane Type	Low Flow	High Flow
Material	PTFE	PTFE
Diameter (mm)	33	33
Thickness (µm)	152	152
Maximum Temperature (ºF)	300	300
Recommended Flow Rate (LPM)	0.35	10
Membrane Micron Size	0.1	0.8

Membrane Size	MT.61.M1G	MT.61.M2G
Membrane Type	Low Flow	High Flow
Material	PTFE	PTFE
Diameter (mm)	61	61
Thickness (µm)	152	152
Maximum Temperature (ºF)	300	300
Recommended Flow Rate (LPM)	2	15
Membrane Micron Size	0.1	0.8

Membrane Size	MT.89.M1	MT.89.M2
Membrane Type	Low Flow	High Flow
Material	PTFE	PTFE
Diameter (mm)	89	89
Thickness (µm)	152	152
Maximum Temperature (ºF)	300	300
Recommended Flow Rate (LPM)	3	43
Membrane Micron Size	0.1	0.8

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. (300ºF) Standard Viton O-Ring	GVGMS205	GVGMS205
PTFE Membrane Code	MT.61.M3	MT.61.M3
Drawing **For More Detail & Options**	**GMSL205-1/4”**	**GMSL205-1/2”**

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	H20 / HC	H20 / HC
Material	PTFE	PTFE
Diameter (mm)	33	61
Thickness (µm)	150	150
Maximum Temperature (ºF)	300	300
Membrane Micron Size	0.8	0.8

Stainless Steel Model	GSC205.31101.□	GSC205.32201.□	GSC205.32202.□
Inlet / Outlet (NPT)	1/4″	1/2″	1/2″
Sample Port (NPT)	1/4″	1/4″	1/2″
Maximum Pressure (psig)	1500	1500	1500
Internal Volume (Behind Membrane Chamber–Clean Side) (cc)	20	20	20
Weight of Housing (lbs)	7	7	7
Principle Dimensions: (inch)			
Center of Port to Back	0.50	0.63	0.63
Body Diameter	3.94	3.94	3.94
Body Depth (With Hex)	2.70 (3.00)	2.70 (3.00)	2.70 (3.00)
Space Required to Remove Cap	1.80	1.80	1.80
Maximum Temp. (400ºF) Standard Viton O-Ring	GVGSC205	GVGSC205	GVGSC205
Stainless Steel Disc Included with Housing (1)(2)	FDGSC205-□	FDGSC205-□	FDGSC205-□
Drawing **For More Detail & Options**	GSC205.31101	GSC205.32201	GSC205.32202

Notes: (1) Add Micron Rating Required, e.g. FDGSC205-01, FDGSC205-10, FDGSC205-25 and FDGSC205-50
(2) If ordering Micron Size 005, a minimum order is required.

HOW TO ORDER A GUARDIAN SPIN CLEAN HOUSING

Base Part Number	Number of Ports	Inlet	Outlet	Optional Bypass	Sample	Micron Size
GSC205	3 = 3 Ports 4 = 4 Ports	0 = No 1 = 1/4” 2 = 1/2”	0 = No 1 = 1/4” 2 = 1/2”	0 = No 1 = 1/4” 2 = 1/2”	0 = No 1 = 1/4” 2 = 1/2”	005 = 0.5 Micron 01 = 1 Micron 03 = 3 Micron 10 = 10 Micron 25 = 25 Micron 50 = 50 Micron 100 = 100 Micron

Example Part Number: (GSC205.31101.50)

GSC205 FLOW RATES (1)

	Inlet Flow (LPM) (Port 1)	Outlet Sample Flow (LPM) (Port 2)	Bypass Flow (LPM) (Port 3)	Filter Differential Pressure Across Ports 1 and 2 (PSID)
Empty Housing	3.78	1.89	1.89	0.22
	11.17	5.68	5.49	1.82
	18.56	9.46	9.10	4.32
3 Micron	3.84	1.89	1.95	0.27
	11.40	5.68	5.72	2.14
	18.97	9.46	9.51	5.60
50 Micron	3.86	1.89	1.97	0.26
	11.43	5.68	5.75	2.07
	19.04	9.46	9.58	5.40