

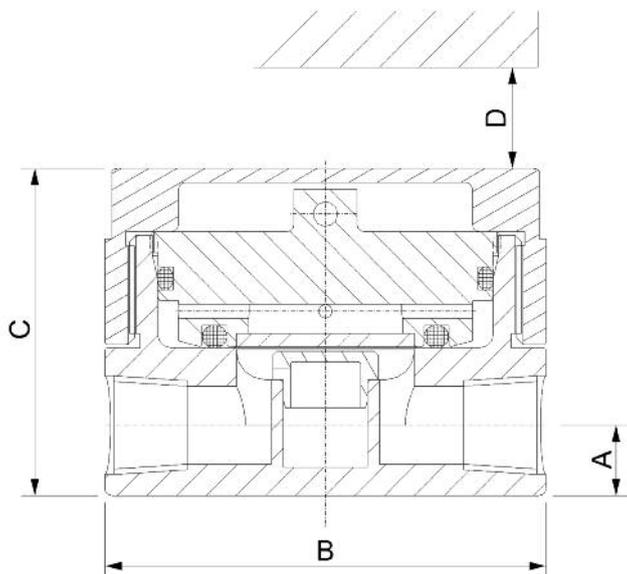
Stainless Steel Membrane Separators **GMS105/105P**

316L stainless steel construction
 100 bar pressure rating
 High flow PTFE membrane
 Removal of liquids, aerosols
 and particulate



GMS105

GMS105P



The Headline Membrane filter consists of a highly porous PTFE membrane in a stainless steel/PTFE housing with two bypass ports and inlet and outlet ports. The ports are designed to allow for permanent pipework, thereby enabling easy maintenance of the filter membrane. Within the housing 3 angled venturies cause the gas to be rotated beneath the membrane, helping to keep the membrane clean and at the same time allowing the finer gas molecules to pass through the membrane for gas sampling and leaving the larger liquid molecules to exit through the bypass ports. Further benefits of the Headline Membrane Filter are that it is extremely inert and is recommended for most applications, the only exception being hydrofluoric acid. It is always recommended to use a coalescing pre-filter and to use the membrane filter as the last form of protection. The membrane is currently available in high flow applications.

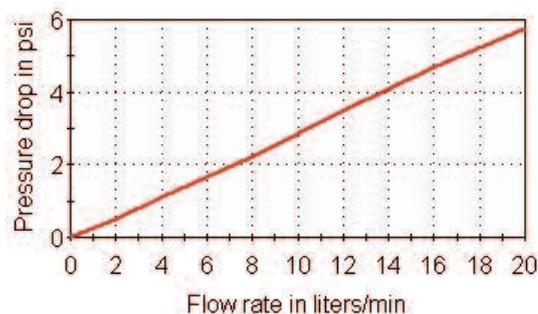
Principal Specifications

Housing Model	GMS105	GMS105P
Port Size - NPT	1/4"	1/4"
Maximum Pressure - Bar	100	7
Maximum Temperature - °C	100	100
Materials of Construction (1)		
Head, Bowl & Internals	316L	PTFE (Teflon)
Gaskets Standard	Viton	Viton
Alternatives	EPDM KALREZ	EPDM KALREZ
Principal Dimensions		
A - mm	10	10
B - mm	63	63
C - mm	46.5	46.5
D - mm	22	22
Volume - cc	6	6
Weight - kg	0.8	0.24
Accessories		
Gasket Set	Viton	GVGMS105-MT33-xx
	EPDM	GEGMS105-MT33-xx
	Kalrez	KZGMS105-MT33-xx
Mounting Brackets	MBGMS105	MBGMS105

Notes (1) PTFE has a maximum pressure of 100 PSIG
 (2) Replace 'xx' with grade required, e.g. MT.33.M1 or MT.33.M2

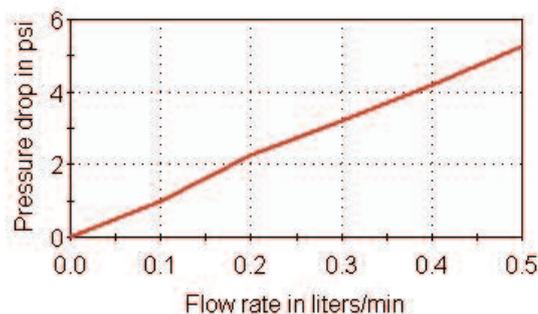
Flow Rate vs Pressure Drop High Flow Membrane

Flow vs. Psid MT.33.M2



Low Flow Membrane

Flow vs. Psid MT.33.M1



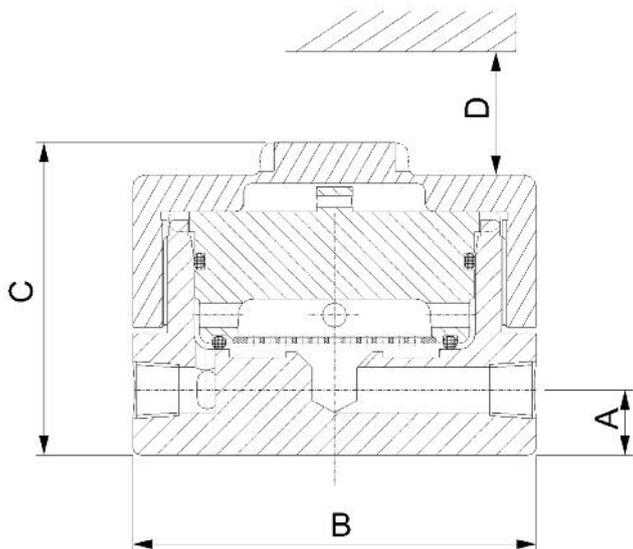
Stainless Steel Membrane Separators GMS205/205P

316L stainless steel construction
 100 bar pressure rating
 High flow PTFE membrane
 Removal of liquids, aerosols
 and particulate



GMS205

The Headline Membrane filter consists of a highly porous PTFE membrane in a stainless steel/PTFE housing with two bypass ports and inlet and outlet ports. The ports are designed to allow for permanent pipework, thereby enabling easy maintenance of the filter membrane. Within the housing 3 angled venturies cause the gas to be rotated beneath the membrane, helping to keep the membrane clean and at the same time allowing the finer gas molecules to pass through the membrane for gas sampling and leaving the larger liquid molecules to exit through the bypass ports. Further benefits of the Headline Membrane Filter are that it is extremely inert and is recommended for most applications, the only exception being hydrofluoric acid. It is always recommended to use a coalescing pre-filter and to use the membrane filter as the last form of protection. The membrane is currently available in high flow applications.



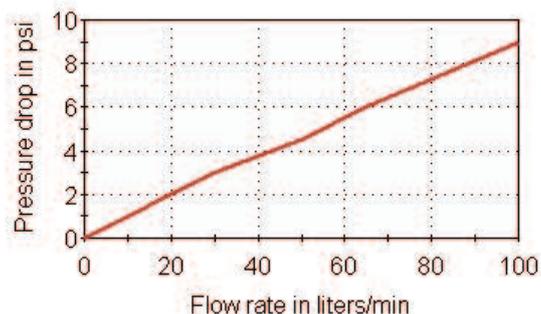
Principal Specifications

Housing Model	GMS205	GMS205P
Port Size - NPT	1/4"	1/4"
Maximum Pressure - Bar	100	7
Maximum Temperature - °C	100	100
Materials of Construction (1)		
Head,Bowl & Internals	316L	PTFE (Teflon)
Gaskets Standard	Viton	Viton
Alternatives	EPDM KALREZ	EPDM KALREZ
Principal Dimensions		
A - mm	15.5	15.5
B - mm	100	100
C - mm	77	77
D - mm	33	33
Volume - cc	29	29
Weight - kg	1.2	1.0
Accessories		
Gasket Set	Viton EPDM Kalrez	GVGMS205-MT61-xx GEGMS205-MT61-xx KZGMS205-MT61-xx
Mounting Brackets	MBGMS205	MBGMS205

Notes (1) PTFE has a maximum pressure of 100 PSIG
 (2) Replace 'xx' with grade required, e.g. MT.61.M1 or MT.61.M2

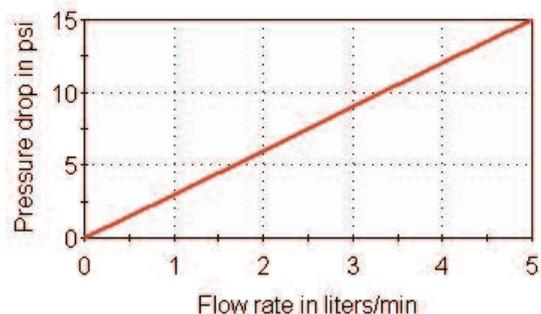
Flow Rate vs Pressure Drop High Flow Membrane

Flow vs. Psid MT.61.M2



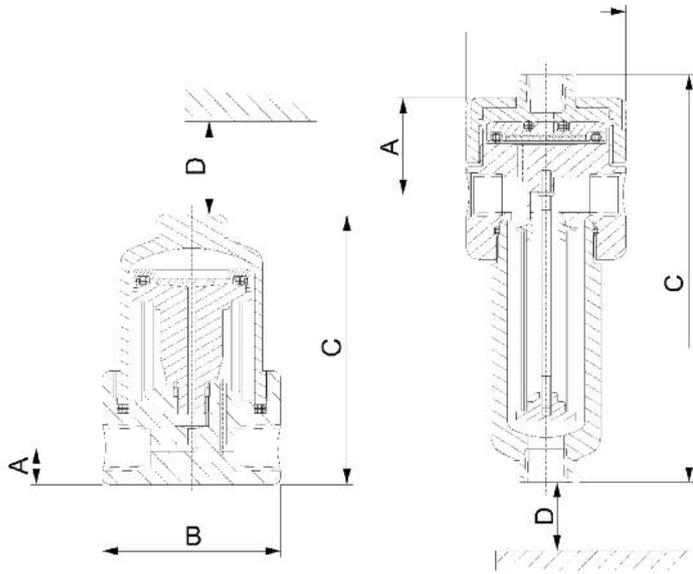
Low Flow Membrane

Flow vs. Psid for MT.61.M1



Stainless Steel Membrane Separators **GMS170/122**

316L stainless steel construction
 100 bar pressure rating
 High flow PTFE membrane
 Removal of liquids, aerosols
 and particulate



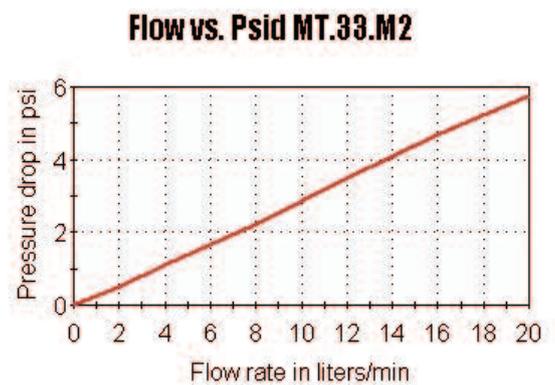
Guardian Membranes are also offered with integral coalescing pre-filters. A 50C grade element is mounted before the membrane to remove most liquids and solids, thus providing longer membrane life. This integral package minimizes dead volume, panel space, and leak points. The combo units accept the same membrane kits as our standard Guardian units. Part numbers are specified at the bottom of the attached chart.

Our Model GMS170 takes the built-in coalescing filter one step further by inverting the complete assembly and making it easy to service by eliminating the need to break port connections. Here too we reduced internal volume for better conditioning results.

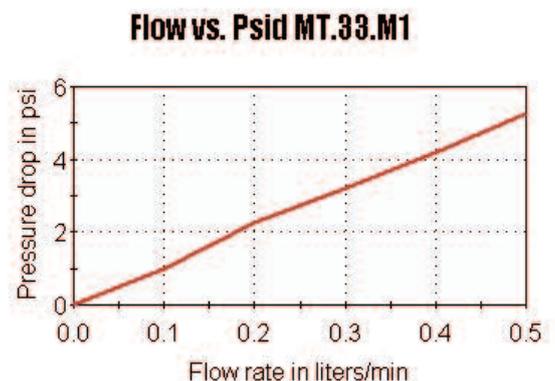
Principal Specifications

Housing Model	GMS170	GMS122
Port Size - NPT	1/4"	1/4"
Maximum Pressure - Bar	150	100
Maximum Temperature - °C	100	100
Materials of Construction (1)		
Head, Bowl & Internals	316L	PTFE (Teflon)
Gaskets Standard	Viton	Viton
Alternatives	EPDM KALREZ	EPDM KALREZ
Principal Dimensions		
A - mm	11	38
B - mm	54	50.8
C - mm	81	129
D - mm	42	64
Volume - cc	50	30
Weight - kg	0.7	0.8
Filter Element Codes		
Coalescing Element	22-27-50CS	12-57-50CS
Accessories		
Gasket Set		
Viton	GVGMS170-MT33-xx	GVGMS122-MT33-xx
EPDM	GEGMS170-MT33-xx	GEGMS122-MT33-xx
Kalrez	KZGMS170-MT33-xx	KZGMS122-MT33-xx
Mounting Brackets	MBGMS170	MBGMS122

Flow Rate vs Pressure Drop High Flow Membrane



Low Flow Membrane



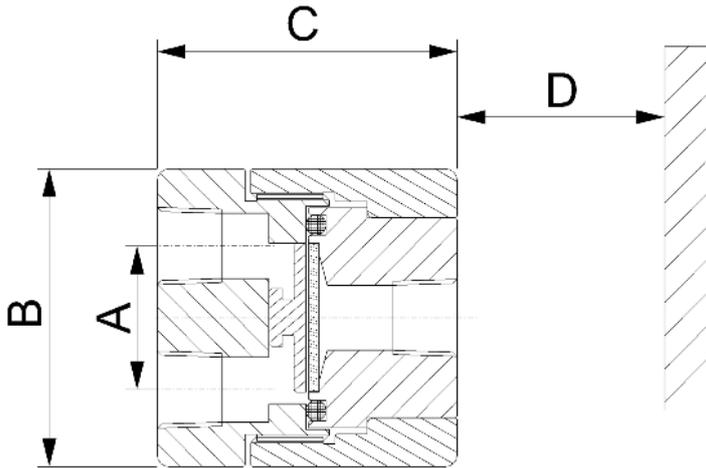
Notes (1) Replace 'xx' with grade required, e.g. MT.33.M1 or MT.33.M2

Stainless Steel Membrane Separator GMS100

316L stainless steel construction
 100 bar pressure rating
 High flow PTFE membrane
 Removal of liquids, aerosols
 and particulate



GMS100



The Headline Membrane filter consists of a highly porous PTFE membrane in a stainless steel housing with two bypass ports and inlet and outlet ports. The ports are designed to allow for permanent pipework, thereby enabling easy maintenance of the filter membrane. Within the housing 3 angled venturies cause the gas to be rotated beneath the membrane, helping to keep the membrane clean and at the same time allowing the finer gas molecules to pass through the membrane for gas sampling and leaving the larger liquid molecules to exit through the bypass ports. Further benefits of the Headline Membrane Filter are that it is extremely inert and is recommended for most applications, the only exception being hydrofluoric acid. It is always recommended to use a coalescing pre-filter and to use the membrane filter as the last form of protection. The membrane is currently available in high flow applications.

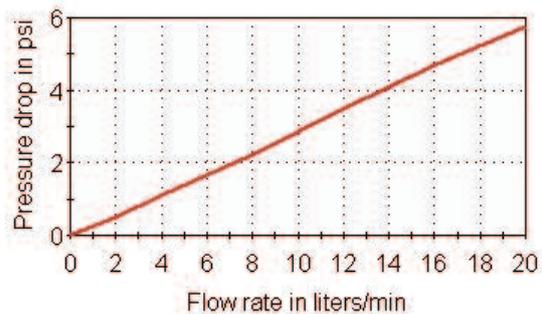
Principal Specifications

Housing Model	GMS100	
Port Size - NPT	1/4"	
Maximum Pressure - Bar	100	
Maximum Temperature - °C	100	
Materials of Construction (1)		
Head, Bowl & Internals	316L	
Gaskets	Viton	
Principal Dimensions		
A - mm	25.4	
B - mm	50.8	
C - mm	51.2	
D - mm	15	
Volume - cc	10	
Weight - kg	0.69	
Accessories		
Gasket Set	Viton	GVGMS100-MT33-xx
	EPDM	GEGMS100-MT33-xx
	Kalrez	KZGMS100-MT33-xx
Mounting Brackets	MBGMS100	

Notes (1) Replace 'xx' with grade required, e.g. MT.33.M1 or MT.33.M2

Flow Rate vs Pressure Drop High Flow Membrane

Flow vs. Psid MT.33.M2



Low Flow Membrane

Flow vs. Psid MT.33.M1

