

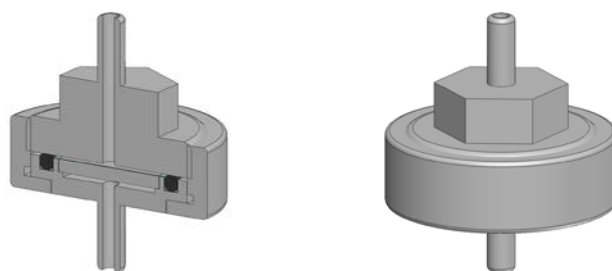
**Materials** PTFE  
**Pressure** 7 Bar  
**Ports** 1/4" & 1/8" Spigot or NPT  
**Membrane** MT.33.□

FML101 membrane housings use a porous PTFE membrane, which is supported by a sintered porous PTFE disc on the outlet side. Any liquid in the gas sample will be prevented from passing through the membrane.

The housing design allows a quick change of the membrane by unscrewing a retaining collar.

Standard housings have 1/4" diameter push-on spigots or female NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

Special housings can also be produced with different connections and membrane sizes.



## Technical Specifications

Housing Model	FML101.101	FML101.201	FML101.209
Port Size	1/8" NPT (F)	1/4" NPT (F)	1/4" Spigot
Maximum Pressure, Bar	7	7	7
Maximum Temperature, °C (1)	150	150	150
<b>Materials of Construction (2)</b>			
Head, Bowl & Internals	PTFE	PTFE	PTFE
Seal (3)	Viton	Viton	Viton
Membrane Code (4)	MT.33.□	MT.33.□	MT.33.□
<b>Principal Dimensions in mm</b>			
Diameter	63	63	63
Height	47	47	47
Volume, cc	10	10	10
Weight, kg	0.15	0.15	0.15

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, PTFE = Polytetrafluoroethane
- (3) Add suffix for other seal types, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. FML101.109.C)
- (4) Replace the □ with the membrane grade required, e.g. MT.33.M2

# SM015

## SP76 Modular Membrane Housing

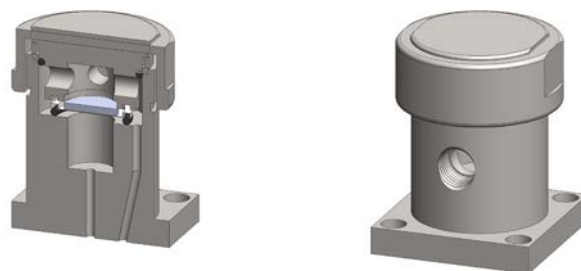
**Materials** 316L SS  
**Pressure** 100 Bar  
**Ports** SP76 & 1/8"  
**Membrane** MT.19.□

The SM015 series SP76 membrane housings are designed for SP76 compliant modular sample systems. The housings use a porous PTFE membrane which is supported by a sintered porous stainless steel disc on the outlet side.

Any liquid in the sample will flow to the 1/8" NPT drain port. The housings should only be used on substrates that are mounted in the horizontal plane with the drain port at the lowest point below the inlet and outlet ports.

The housing design allows a quick change of the membrane as all the line connections are arranged in the body of the housing and the threaded cap means no tools are required for access.

The housings are free from welds and comply with NACE MR-01-75 and are CE marked in accordance with PED 97/23/EC.



## Technical Specifications

Housing Model	SM015.L11	SM015.R11
Inlet/Outlet Connections	SP76	SP76
Drain	1/8" NPT	1/8" NPT
Maximum Pressure, Bar	100	100
Maximum Temperature, °C (1)	150	150
Flow Direction	Left to Right	Right to Left
Substrate Plane	Horizontal	Horizontal
Inlet	Hole 2	Hole 2
Outlet	Hole 3	Hole 1
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Membrane Code (4)	MT.19.□	MT.19.□
<b>Principal Dimensions in mm</b>		
Diameter	38	38
Height	48.5	48.5
Volume, cc	5	5
Weight, kg	0.3	0.3

### Notes

(1) Maximum temperature of 150°C is due to the PTFE membrane

(2) Material abbreviations, 316L SS = 316L Stainless Steel

(2) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SM015.L11.T)

(3) Replace the □ with the grade required, e.g. MT.19.M2

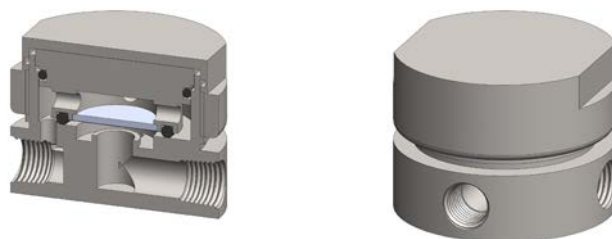
**Materials** 316L Stainless Steel  
**Pressure** 100 Bar  
**Ports** 1/16" LV or 1/8"  
**Membrane** MT.19.□

SM015 membrane housings use a porous PTFE membrane, which is supported by a sintered porous stainless steel disc on the outlet side. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

The housing design allows a quick change of the membrane as all the line connections are arranged in the body of the housing and the threaded cap means no tools are required for access.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	SM015.1/16LV	SM015.111
Port Size	1/16" Low Vol. Fitting	1/8" NPT
Drain & Bypass Ports	1/16" Low Vol. Fitting	1/8" NPT
Maximum Pressure, Bar	100	100
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Membrane Code (4)	MT.19.□	MT.19.□
<b>Principal Dimensions in mm</b>		
Diameter	38	38
Height	33	33
Volume, cc	5	5
Weight, kg	0.25	0.25
<b>Accessories</b>		
Mounting Bracket	MBSM015	MBSM015

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SM015.111.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.19.M2

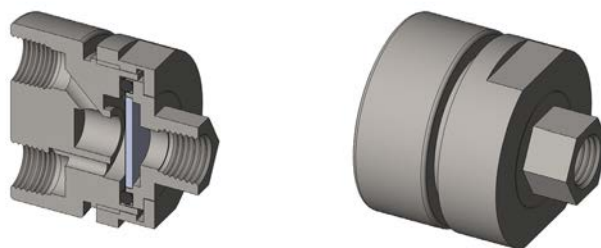
**Materials** 316L Stainless Steel  
**Pressure** 100 Bar  
**Ports** 1/8" or 1/4"  
**Membrane** MT.33.□

GSM105 membrane housings use a porous PTFE membrane, which is supported by a sintered porous stainless steel disc on the outlet side. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

The housing design allows a quick change of the membrane and the threaded cap means no tools are required for access.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	GSM105.111	GSM105.221
Port Size	1/8" NPT	1/4" NPT
Drain & Bypass Port	1/8" NPT	1/4" NPT
Maximum Pressure, Bar	100	100
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seal (3)	Viton	Viton
Membrane Code (4)	MT.33.□	MT.33.□
<b>Principal Dimensions in mm</b>		
Diameter	50	50
Length	51.5	51.5
Volume, cc	3	3
Weight, kg	0.5	0.5
<b>Accessories</b>		
Mounting Bracket	MBGSM105	MBGSM105

### Notes

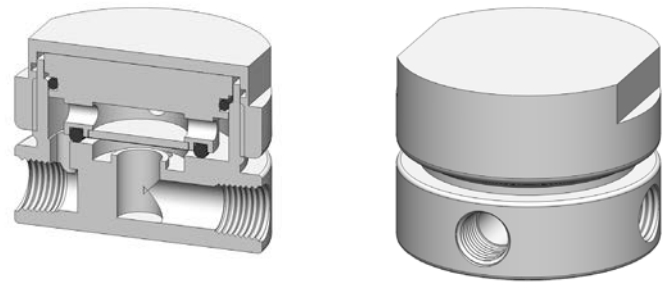
- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. GSM105.111.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.33.M2

**Materials** PTFE  
**Pressure** 7 Bar  
**Ports** 1/8" or 1/4"  
**Membrane** MT.33.□

FM101 membrane housings use a porous PTFE membrane, which is supported by a sintered porous PTFE disc on the outlet side. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

The housing design allows a quick change of the membrane as all the line connections are arranged in the body of the housing and the threaded cap means no tools are required for access.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.



## Technical Specifications

Housing Model	FM101.111	FM101.221
Port Size	1/8" NPT	1/4" NPT
Drain & Bypass Ports	1/8" NPT	1/4" NPT
Maximum Pressure, Bar	7	7
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	PTFE	PTFE
Seals (3)	Viton	Viton
Membrane Code (4)	MT.33.□	MT.33.□
<b>Principal Dimensions in mm</b>		
Diameter	63	63
Height	47	47
Volume, cc	10	10
Weight, kg	0.30	0.30
<b>Accessories</b>		
Mounting Bracket	MBSM106	MBSM106

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, PTFE = Polytetrafluoroethylene
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. FM101.221.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.33.M2

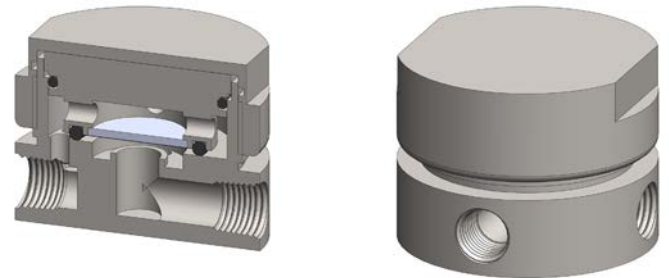
**Materials** 316L Stainless Steel  
**Pressure** 200 Bar  
**Ports** 1/8" or 1/4"  
**Membrane** MT.33.□

SM106 membrane housings use a porous PTFE membrane, which is supported by a sintered porous stainless steel disc on the outlet side. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

The housing design allows a quick change of the membrane as all the line connections are arranged in the body of the housing and the threaded cap means no tools are required for access.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	SM106.111	SM106.111.LB	SM106.221	SM106.221.LB
Port Size	1/8" NPT	1/8" NPT	1/4" NPT	1/4" NPT
Drain & Bypass Ports	1/8" NPT	1/8" NPT	1/4" NPT	1/4" NPT
Maximum Pressure, Bar	200	200	200	200
Maximum Temperature, °C (1)	150	150	150	150
<b>Materials of Construction (2)</b>				
Head, Bowl & Internals	316L SS	316L SS	316L SS	316L SS
Seals (3)	Viton	Viton	Viton	Viton
Membrane Code (4)	MT.33.□	MT.33.□	MT.33.□	MT.33.□
<b>Principal Dimensions in mm</b>				
Diameter	63	63	63	63
Height	47	47	47	47
Volume, cc	10	10	10	10
Weight, kg	0.95	0.95	0.95	0.95
<b>Accessories</b>				
Mounting Bracket	MBSM106	MBSM106	MBSM106	MBSM106

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SM106.221.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.33.M2

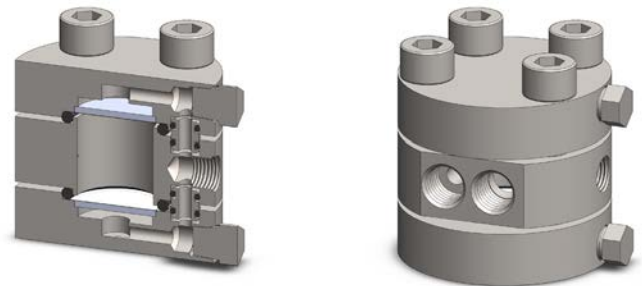
**Materials** 316L Stainless Steel  
**Pressure** 200 Bar  
**Ports** 1/8" or 1/4"  
**Membrane** 2x MT.33.□

The STM106 membrane housings use two porous PTFE membranes, which are supported by sintered porous stainless steel discs on the outlet side. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

The housing design allows the membranes to be changed without disconnection the port fittings.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	STM106.111	STM106.211
Inlet & Bypass Port Size	1/8" NPT	1/4" NPT
Outlet Port	1/8" NPT	1/8" NPT
Maximum Pressure, Bar	200	200
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Membrane Code (4)	2x MT.33.□	2x MT.33.□
<b>Principal Dimensions in mm</b>		
Diameter	63	63
Height	47	47
Volume, cc	10	10
Weight, kg	0.95	0.95

### Notes

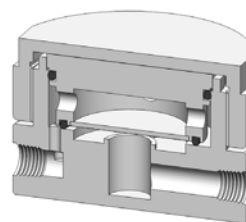
- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. STM106.111.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.33.M2

**Materials** PTFE  
**Pressure** 7 Bar  
**Ports** 1/4" or 1/2"  
**Membrane** MT.61.□

FM201 membrane housings use a porous PTFE membrane, which is supported by a sintered porous PTFE disc on the outlet side. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

The housing design allows a quick change of the membrane as all the line connections are arranged in the body of the housing and the threaded cap means no tools are required for access.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.



## Technical Specifications

Housing Model	FM201.221	FM201.441
Port Size	1/4" NPT	1/2" NPT
Drain & Bypass Ports	1/4" NPT	1/2" NPT
Maximum Pressure, Bar	7	7
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	PTFE	PTFE
Seals (3)	Viton	Viton
Membrane Code (4)	MT.61.□	MT.61.□
<b>Principal Dimensions in mm</b>		
Diameter	100	100
Height	65.5	65.5
Volume, cc	25	25
Weight, kg	1.10	1.10
<b>Accessories</b>		
Mounting Bracket	MBSM206	MBSM206

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, PTFE = Polytetrafluoroethylene
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. FM201.221.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.61.M2



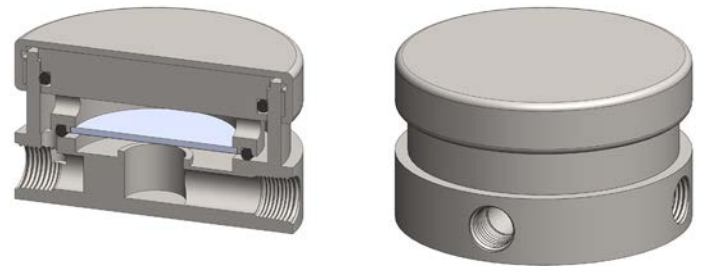
**Materials** 316L Stainless Steel  
**Pressure** 10 Bar  
**Ports** 1/4" or 1/2"  
**Membrane** MT.61.□

SM202 membrane housings use a porous PTFE membrane, which is supported by a sintered porous stainless steel disc on the outlet side. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

The housing design allows a quick change of the membrane as all the line connections are arranged in the body of the housing and the threaded cap means no tools are required for access.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	SM202.221	SM202.441
Port Size	1/4" NPT	1/2" NPT
Drain & Bypass Ports	1/4" NPT	1/2" NPT
Maximum Pressure, Bar	10	10
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Membrane Code (4)	MT.61.□	MT.61.□
<b>Principal Dimensions in mm</b>		
Diameter	100	100
Height	48.5	58.5
Volume, cc	25	30
Weight, kg	1.15	1.55
<b>Accessories</b>		
Mounting Bracket	MBSM206	MBSM206

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, PTFE = Polytetrafluoroethylene
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SM202.221.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.61.M2

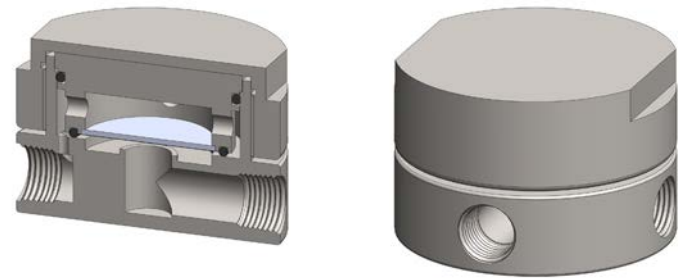
**Materials** 316L Stainless Steel  
**Pressure** 200 Bar  
**Ports** 1/4" or 1/2"  
**Membrane** MT.61.□

SM206 membrane housings use a porous PTFE membrane, which is supported by a sintered porous stainless steel disc on the outlet side. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

The housing design allows a quick change of the membrane as all the line connections are arranged in the body of the housing and the threaded cap means no tools are required for access.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	SM206.221	SM206.221.LB	SM206.441	SM206.441.LB
Port Size	1/4" NPT	1/4" NPT	1/2" NPT	1/2" NPT
Drain & Bypass Ports	1/4" NPT	1/4" NPT	1/2" NPT	1/2" NPT
Maximum Pressure, Bar	200	200	200	200
Maximum Temperature, °C (1)	150	150	150	150
<b>Materials of Construction (2)</b>				
Head, Bowl & Internals	316L SS	316L SS	316L SS	316L SS
Seals (3)	Viton	Viton	Viton	Viton
Membrane Code (4)	MT.61.□	MT.61.□	MT.61.□	MT.61.□
<b>Principal Dimensions in mm</b>				
Diameter	100	100	100	100
Height	65.5	65.5	65.5	65.5
Volume, cc	25	25	25	25
Weight, kg	3.35	3.35	3.35	3.35
<b>Accessories</b>				
Mounting Bracket	MBSM206	MBSM206	MBSM206	MBSM206

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SM206.221.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.61.M2

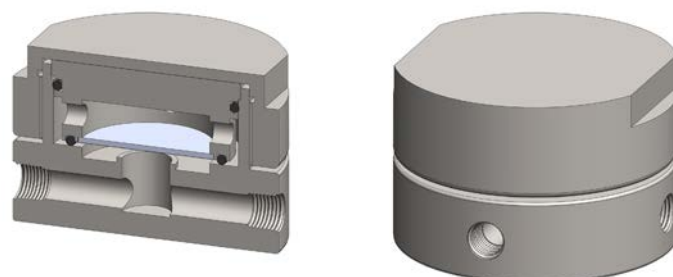
**Materials** 316L Stainless Steel  
**Pressure** 200 Bar  
**Ports** 1/4" or 1/2"  
**Membrane** MT.61.□

SMD206 membrane housings use a porous PTFE membrane, which is supported by a sintered porous stainless steel disc on the outlet side. The inlet and drain ports are connect in a straight line for use in fast loop style applications.

The housing design allows a quick change of the membrane as all the line connections are arranged in the body of the housing and the threaded cap means no tools are required for access.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	SMD206.221	SMD206.441
Port Size	1/4" NPT	1/2" NPT
Drain & Bypass Ports	1/4" NPT	1/2" NPT
Maximum Pressure, Bar	200	200
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Membrane Code (4)	MT.61.□	MT.61.□
<b>Principal Dimensions in mm</b>		
Diameter	100	100
Height	65.5	65.5
Volume, cc	25	25
Weight, kg	3.35	3.35
<b>Accessories</b>		
Mounting Bracket	MBSM206	MBSM206

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SMD206.221.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.61.M2

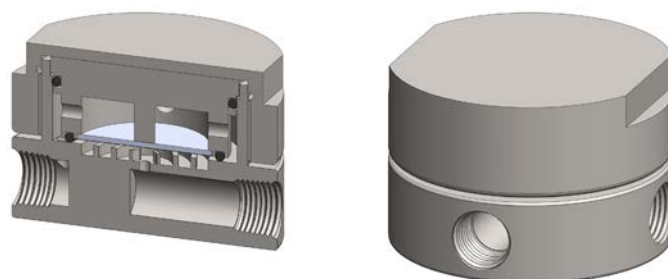
**Materials** 316L Stainless Steel  
**Pressure** 200 Bar  
**Ports** 1/4" or 1/2"  
**Membrane** MT.61.□

SML206 membrane housings use a porous PTFE membrane, which is supported by a sintered porous stainless steel disc on the outlet side. The housing is designed to separate two fluid phases and a special flow path increases the contact time against the membrane face to increase the flow rate.

The housing design allows a quick change of the membrane as all the line connections are arranged in the body of the housing and the threaded cap means no tools are required for access.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	SML206.221	SML206.441
Port Size	1/4" NPT	1/2" NPT
Drain & Bypass Ports	1/4" NPT	1/2" NPT
Maximum Pressure, Bar	200	200
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Membrane Code (4)	MT.61.□	MT.61.□
<b>Principal Dimensions in mm</b>		
Diameter	100	100
Height	65.5	65.5
Volume, cc	25	25
Weight, kg	3.35	3.35
<b>Accessories</b>		
Mounting Bracket	MBSM206	MBSM206

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SML206.221.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.61.M8

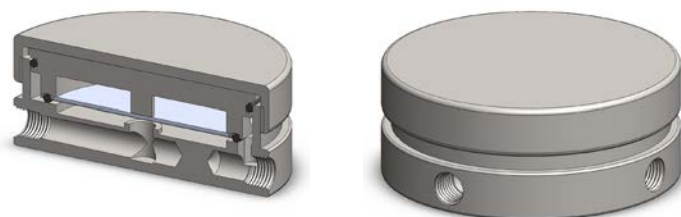
**Materials** 316L Stainless Steel  
**Pressure** 35 Bar  
**Ports** 1/4" or 1/2"  
**Membrane** MT.89.□

SM304 membrane housings use a porous PTFE membrane, which is supported by a sintered porous stainless steel disc on the outlet side. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

The housing design allows a quick change of the membrane as all the line connections are arranged in the body of the housing and the threaded cap means no tools are required for access.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	SM304.221	SM304.441
Port Size	1/4" NPT	1/2" NPT
Drain & Bypass Ports	1/4" NPT	1/2" NPT
Maximum Pressure, Bar	35	35
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Membrane Code (4)	MT.89.□	MT.89.□
<b>Principal Dimensions in mm</b>		
Diameter	100	100
Height	65.5	65.5
Volume, cc	25	25
Weight, kg	3.35	3.35
<b>Accessories</b>		
Mounting Bracket	MBSM206	MBSM206

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SM304.221.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.89.M2

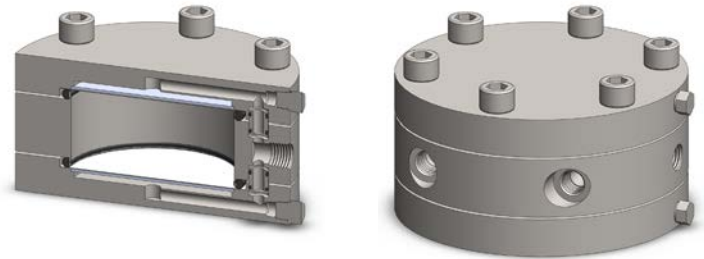
**Materials** 316L Stainless Steel  
**Pressure** 35 Bar  
**Ports** 1/4" or 1/2"  
**Membrane** 2x MT.89.□

STM304 membrane housings use two porous PTFE membranes, which are supported by sintered porous stainless steel discs on the outlet side. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

The housing design allows the membranes to be changed without disconnection the port fittings.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	STM304.221	STM304.441
Port Size	1/4" NPT	1/2" NPT
Drain & Bypass Ports	1/4" NPT	1/2" NPT
Maximum Pressure, Bar	35	35
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Membrane Code (4)	2x MT.89.□	2x MT.89.□
<b>Principal Dimensions in mm</b>		
Diameter	150	150
Height	74	89
Volume, cc	50	50
Weight, kg	7.50	7.50
<b>Accessories</b>		
Mounting Bracket	MBSM206	MBSM206

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. STM304.221.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.89.M2

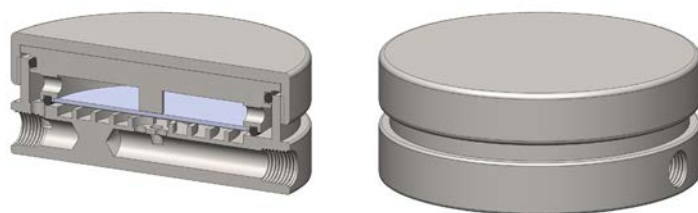
**Materials** 316L Stainless Steel  
**Pressure** 35 Bar  
**Ports** 1/4" or 1/2"  
**Membrane** MT.89.□

SML304 membrane housings use a porous PTFE membrane, which is supported by a sintered porous stainless steel disc on the outlet side. The housing is designed to separate two fluid phases and a special flow path increases the contact time against the membrane face to increase the flow rate.

The housing design allows a quick change of the membrane as all the line connections are arranged in the body of the housing and the threaded cap means no tools are required for access.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	SML304.221	SML304.441
Port Size	1/4" NPT	1/2" NPT
Drain & Bypass Ports	1/4" NPT	1/2" NPT
Maximum Pressure, Bar	35	35
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Membrane Code (4)	MT.89.□	MT.89.□
<b>Principal Dimensions in mm</b>		
Diameter	120	120
Height	46.5	65.5
Volume, cc	35	35
Weight, kg	2.35	3.15
<b>Accessories</b>		
Mounting Bracket	MBSM304	MBSM304

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SML304.221.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.89.M8

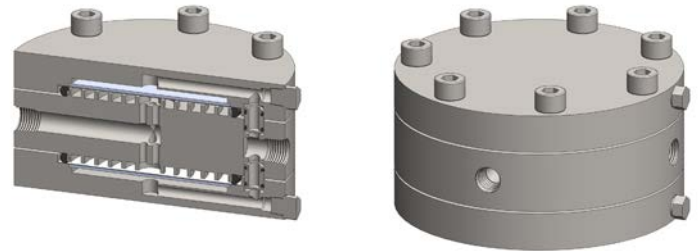
**Materials** 316L Stainless Steel  
**Pressure** 35 Bar  
**Ports** 1/4" or 1/2"  
**Membrane** 2x MT.89.□

STML304 membrane housings use two porous PTFE membranes, which are supported by sintered porous stainless steel discs on the outlet side. The housing is designed to separate two liquid phases and a special flow path increases the contact time against the membrane face to increase the flow rate.

The housing design allows the membranes to be changed without disconnection the port fittings.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	STML304.221	STML304.441
Port Size	1/4" NPT	1/2" NPT
Drain & Bypass Ports	1/4" NPT	1/2" NPT
Maximum Pressure, Bar	35	35
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Membrane Code (4)	2x MT.89.□	2x MT.89.□
<b>Principal Dimensions in mm</b>		
Diameter	150	150
Height	83.5	83.5
Volume, cc	45	45
Weight, kg	9.1	9.1
<b>Accessories</b>		
Mounting Bracket	MBSM304	MBSM304

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SML304.221.T)
- (4) Replace the □ with the membrane grade required, e.g. MT.89.M8

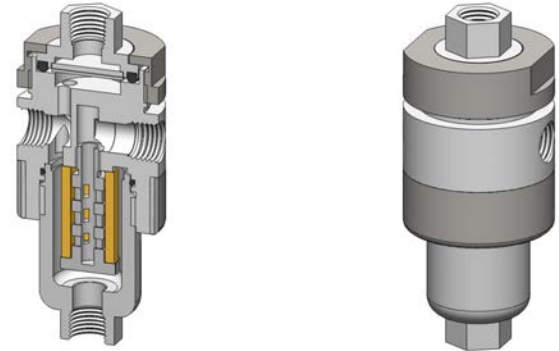


<b>Materials</b>	<b>PTFE</b>
<b>Pressure</b>	<b>7 Bar</b>
<b>Ports</b>	<b>1/8" or 1/4"</b>
<b>Element</b>	<b>12.32.□</b>
<b>Membrane</b>	<b>MT.33.□</b>

FM111 combination housings have a coalescing filter element and a PTFE membrane in a single unit.

The porous PTFE membrane is supported by a sintered porous PTFE disc on the outlet side. The wet sample gas enters the inlet port and then through the coalescing element to remove the bulk of the liquid and solid particles and then to the membrane. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.



## Technical Specifications

Housing Model	FM111.111	FM111.221
Port Size	1/8" NPT	1/4" NPT
Drain & Bypass Ports	1/8" NPT	1/4" NPT
Maximum Pressure, Bar	7	7
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	PTFE	PTFE
Seals (3)	Viton	Viton
Filter Element Code (4)	12.32.□	12.32.□
Membrane Code (5)	MT.33.□	MT.33.□
<b>Principal Dimensions in mm</b>		
Diameter	50	50
Height	110	110
Volume, cc	35	35
Weight, kg	0.9	0.9
<b>Accessories</b>		
Mounting Bracket	MBSM115	MBSM115

### Notes

- (1) Maximum temperature 150°C using standard seal
- (2) Material abbreviations, PTFE = Polytetrafluoroethylene
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. FM111.221.T)
- (4) Replace the □ with the element grade required, e.g. 12.32.5CK
- (5) Replace the □ with the membrane grade required, e.g. MT.33.M2

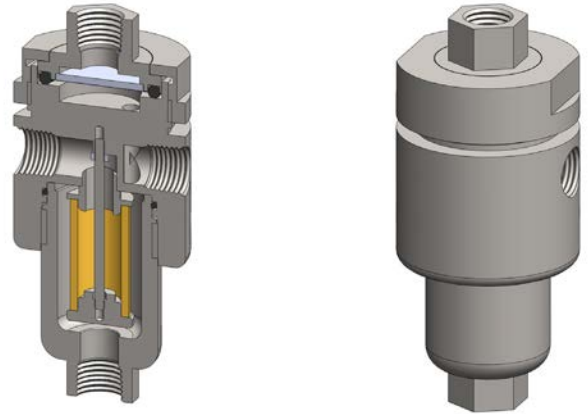
<b>Materials</b>	<b>316L Stainless Steel</b>
<b>Pressure</b>	<b>150 Bar</b>
<b>Ports</b>	<b>1/8" or 1/4"</b>
<b>Element</b>	<b>12.32.□</b>
<b>Membrane</b>	<b>MT.33.□</b>

SM115 combination housings have a coalescing filter element and a PTFE membrane in a single unit.

The porous PTFE membrane is supported by a sintered porous stainless steel disc on the outlet side. The wet sample gas enters the inlet port and then through the coalescing element to remove the bulk of the liquid and solid particles and then to the membrane. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	SM115.111	SM115.221
Port Size	1/8" NPT	1/4" NPT
Drain & Bypass Ports	1/8" NPT	1/4" NPT
Maximum Pressure, Bar	150	150
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Filter Element Code (4)	12.32.□	12.32.□
Membrane Code (5)	MT.33.□	MT.33.□
<b>Principal Dimensions in mm</b>		
Diameter	50	50
Height	110	110
Volume, cc	35	35
Weight, kg	0.9	0.9
<b>Accessories</b>		
Mounting Bracket	MBSM115	MBSM115

### Notes

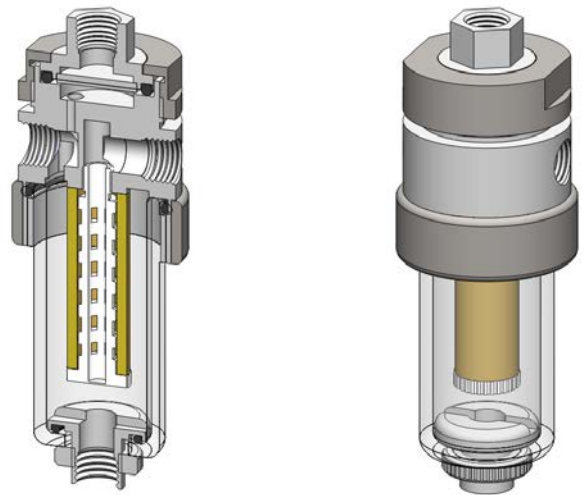
- (1) Maximum temperature 150°C using standard seal
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SM115.221.T)
- (4) Replace the □ with the element grade required, e.g. 12.32.5CK
- (5) Replace the □ with the membrane grade required, e.g. MT.33.M2

<b>Materials</b>	<b>PTFE &amp; Pyrex Glass</b>
<b>Pressure</b>	<b>7 Bar</b>
<b>Ports</b>	<b>1/8" or 1/4"</b>
<b>Element</b>	<b>12.57.□</b>
<b>Membrane</b>	<b>MT.33.□</b>

FGM121 combination housings have a coalescing filter element and a PTFE membrane in a single unit.

The porous PTFE membrane is supported by a sintered porous PTFE disc on the outlet side. The wet sample gas enters the inlet port and then through the coalescing element to remove the bulk of the liquid and solid particles and then to the membrane. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.



## Technical Specifications

Housing Model	FGM121.111	FGM121.221
Port Size	1/8" NPT	1/4" NPT
Drain & Bypass Ports	1/8" NPT	1/4" NPT
Maximum Pressure, Bar	7	7
Maximum Temperature, °C (1)	100	100
<b>Materials of Construction (2)</b>		
Head & Internals	PTFE	PTFE
Bowl	Pyrex	Pyrex
Seals (3)	Viton	Viton
Filter Element Code (4)	12.57.□	12.57.□
Membrane Code (5)	MT.33.□	MT.33.□
<b>Principal Dimensions in mm</b>		
Diameter	50	50
Height	145	145
Volume, cc	45	45
Weight, kg	0.6	0.6
<b>Accessories</b>		
Mounting Bracket	MBSM115	MBSM115

### Notes

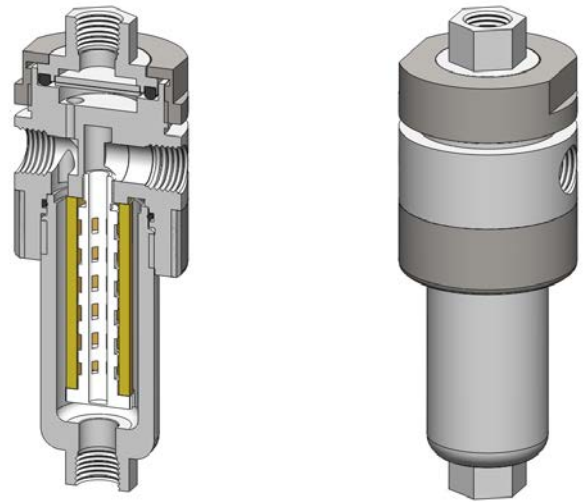
- (1) Maximum temperature of 100°C is due to the Pyrex bowl
- (2) Material abbreviations, PTFE = Polytetrafluoroethylene
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. FGM121.221.T)
- (4) Replace the □ with the element grade required, e.g. 12.57.5CK
- (5) Replace the □ with the membrane grade required, e.g. MT.33.M2

<b>Materials</b>	<b>PTFE</b>
<b>Pressure</b>	<b>7 Bar</b>
<b>Ports</b>	<b>1/8" or 1/4"</b>
<b>Element</b>	<b>12.57.□</b>
<b>Membrane</b>	<b>MT.33.□</b>

FM121 combination housings have a coalescing filter element and a PTFE membrane in a single unit.

The porous PTFE membrane is supported by a sintered porous PTFE disc on the outlet side. The wet sample gas enters the inlet port and then through the coalescing element to remove the bulk of the liquid and solid particles and then to the membrane. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.



## Technical Specifications

Housing Model	FM121.111	FM121.221
Port Size	1/8" NPT	1/4" NPT
Drain & Bypass Ports	1/8" NPT	1/4" NPT
Maximum Pressure, Bar	7	7
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	PTFE	PTFE
Seals (3)	Viton	Viton
Filter Element Code (4)	12.57.□	12.57.□
Membrane Code (5)	MT.33.□	MT.33.□
<b>Principal Dimensions in mm</b>		
Diameter	50	50
Height	135	135
Volume, cc	45	45
Weight, kg	0.55	0.55
<b>Accessories</b>		
Mounting Bracket	MBSM115	MBSM115

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, PTFE = Polytetrafluoroethylene
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. FM121.221.T)
- (4) Replace the □ with the element grade required, e.g. 12.57.5CK
- (5) Replace the □ with the membrane grade required, e.g. MT.33.M2

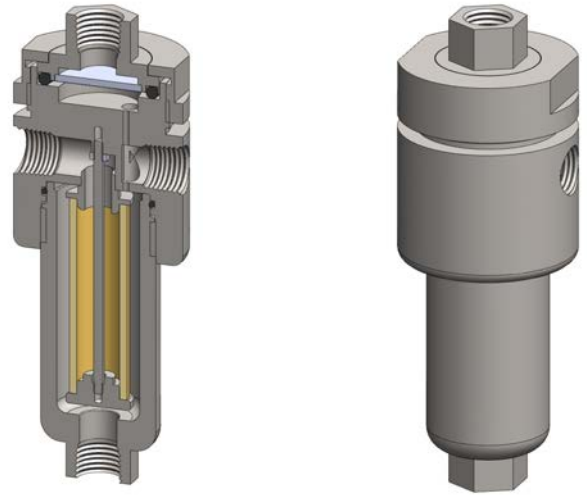
<b>Materials</b>	<b>316L Stainless Steel</b>
<b>Pressure</b>	<b>150 Bar</b>
<b>Ports</b>	<b>1/8" or 1/4"</b>
<b>Element</b>	<b>12.57.□</b>
<b>Membrane</b>	<b>MT.33.□</b>

SM125 combination housings have a coalescing filter element and a PTFE membrane in a single unit.

The porous PTFE membrane is supported by a sintered porous stainless steel disc on the outlet side. The wet sample gas enters the inlet port and then through the coalescing element to remove the bulk of the liquid and solid particles and then to the membrane. Any liquid in the gas sample will flow to the drain port. This port can be used as a bypass function for the main flow.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	SM125.111	SM125.221
Port Size	1/8" NPT	1/4" NPT
Drain & Bypass Ports	1/8" NPT	1/4" NPT
Maximum Pressure, Bar	150	150
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Filter Element Code (4)	12.57.□	12.57.□
Membrane Code (5)	MT.33.□	MT.33.□
<b>Principal Dimensions in mm</b>		
Diameter	50	50
Height	135	135
Volume, cc	45	45
Weight, kg	1.0	1.0
<b>Accessories</b>		
Mounting Bracket	MBSM115	MBSM115

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SM125.221.T)
- (4) Replace the □ with the element grade required, e.g. 12.57.5CK
- (5) Replace the □ with the membrane grade required, e.g. MT.33.M2

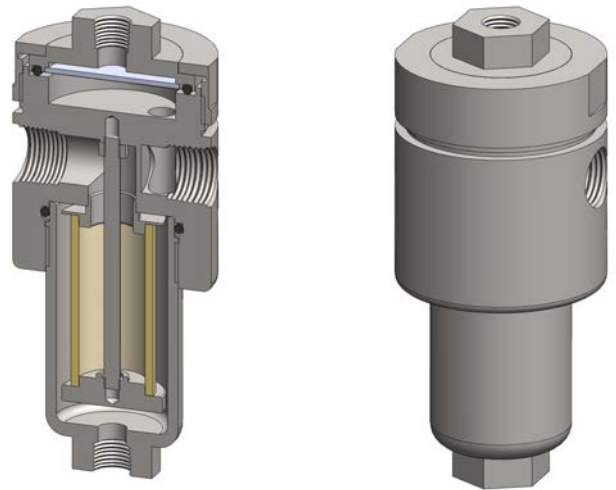
<b>Materials</b>	<b>316L Stainless Steel</b>
<b>Pressure</b>	<b>100 Bar</b>
<b>Ports</b>	<b>1/4" or 1/2"</b>
<b>Element</b>	<b>25.64.□</b>
<b>Membrane</b>	<b>MT.61.□</b>

SM215 combination housings have a coalescing filter element and a PTFE membrane in a single unit.

The porous PTFE membrane is supported by a sintered porous stainless steel disc on the outlet side. The wet sample gas enters the inlet port and then through the coalescing element to remove the bulk of the liquid and solid particles and then to the membrane. Any liquid in the gas sample will flow to the drain port. This port can be used as a bypass function for the main flow.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	SM215.221	SM215.421
Port Size	1/4" NPT	1/2" NPT
Drain & Bypass Ports	1/4" NPT	1/4" NPT
Maximum Pressure, Bar	100	100
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Filter Element Code (4)	25.64.□	25.64.□
Membrane Code (5)	MT.61.□	MT.61.□
<b>Principal Dimensions in mm</b>		
Diameter	75	75
Height	169	169
Volume, cc	135	135
Weight, kg	2.8	2.8
<b>Accessories</b>		
Mounting Bracket	MBSM215	MBSM215

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SM215.221.T)
- (4) Replace the □ with the element grade required, e.g. 25.64.5CK
- (5) Replace the □ with the membrane grade required, e.g. MT.61.M2

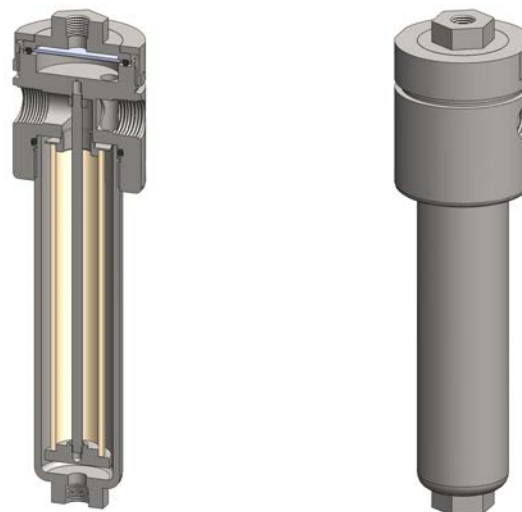
**Materials** 316L Stainless Steel  
**Pressure** 100 Bar  
**Ports** 1/4" or 1/2"  
**Element** 25.178.□  
**Membrane** MT.61.□

SM235 combination housings have a coalescing filter element and a PTFE membrane in a single unit.

The porous PTFE membrane is supported by a sintered porous stainless steel disc on the outlet side. The wet sample gas enters the inlet port and then through the coalescing element to remove the bulk of the liquid and solid particles and then to the membrane. Any liquid in the gas sample will flow to the drain port. This port can also be used as a bypass function for the main flow.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	SM235.221	SM235.421
Port Size	1/4" NPT	1/2" NPT
Drain & Bypass Ports	1/4" NPT	1/4" NPT
Maximum Pressure, Bar	100	100
Maximum Temperature, °C (1)	150	150
<b>Materials of Construction (2)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (3)	Viton	Viton
Filter Element Code (4)	25.178.□	25.178.□
Membrane Code (5)	MT.61.□	MT.61.□
<b>Principal Dimensions in mm</b>		
Diameter	75	75
Height	282	282
Volume, cc	285	285
Weight, kg	3.35	3.35
<b>Accessories</b>		
Mounting Bracket	MBSM215	MBSM215

### Notes

- (1) Maximum temperature of 150°C is due to the PTFE membrane
- (2) Material abbreviations, 316L SS = 316L Stainless Steel
- (3) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SM235.221.T)
- (4) Replace the □ with the element grade required, e.g. 25.178.5CK
- (5) Replace the □ with the membrane grade required, e.g. MT.61.M2

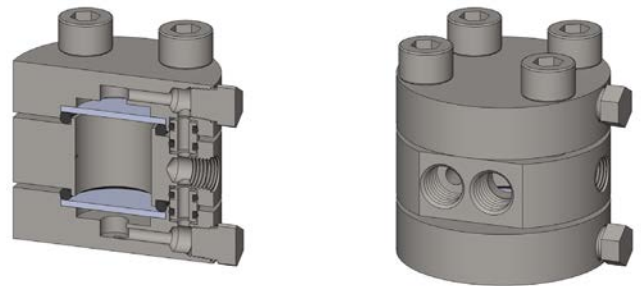
**Materials** 316L Stainless Steel  
**Pressure** 200 Bar  
**Ports** 1/8" or 1/4"  
**Filter Disc** 2x FD.33.□

The STW105 series uses two stainless steel filter discs in one housing. A 'cyclone' effect is created as the sample enters the housing and proportion of it passes through the filters to the sample outlet port and the rest of the sample passes to the bypass port.

The housing design allows the filter discs to be changed without disconnection the port fittings.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	STW106.111	STW106.211
Inlet & Bypass Port Size	1/8" NPT	1/4" NPT
Outlet Port	1/8" NPT	1/8" NPT
Maximum Pressure, Bar (1)	200	200
Maximum Temperature, °C (2)	200	200
<b>Materials of Construction (3)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (4)	Viton	Viton
Filter Disc Code (5)	2x FD.33.□	2x FD.33.□
<b>Principal Dimensions in mm</b>		
Diameter	63	63
Height	47	47
Volume, cc	20	20
Weight, kg	0.95	0.95

### Notes

- (1) Above 200°C the pressure rating is reduced, consult us the exact rating at any specific temperature
- (2) Maximum temperature 200°C using standard seal
- (3) Material abbreviations, 316L SS = 316L Stainless Steel
- (4) Add suffix for other seal types, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. STW106.221.E)
- (5) Replace the □ with the filter disc grade required, e.g. FD.33.S20V



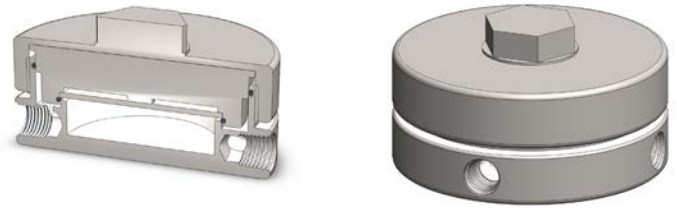
<b>Materials</b>	<b>316L Stainless Steel</b>
<b>Pressure</b>	<b>100 Bar</b>
<b>Ports</b>	<b>1/4 or 1/2"</b>
<b>Filter Disc</b>	<b>FD.64.□</b>

SW205 housings are designed to remove particulates from liquid samples. The inlet port is angled to create a 'cyclone' effect against a flat stainless steel filter disc. The sample passes through the filter to the outlet and the rest of the sample passes to the bypass port.

The housing design allows a quick change of the filter disc as all the line connections are arranged in the body of the housing and the threaded cap means no tools are required for access.

Standard housings have NPT ports and include Viton seals. Other seal types are available as an option. BSPT and BSPP port types are also available.

The housings are free from welds and comply with NACE MR-01-75.



## Technical Specifications

Housing Model	SW205.221	SW205.441
Port Size	1/4" NPT	1/2" NPT
Drain & Bypass Port	1/4" NPT	1/2" NPT
Maximum Pressure, Bar (1)	100	100
Maximum Temperature, °C (2)	200	200
<b>Materials of Construction (3)</b>		
Head, Bowl & Internals	316L SS	316L SS
Seals (4)	Viton	Viton
Filter Disc Code (5)	FD.64.□	FD.64.□
<b>Principal Dimensions in mm</b>		
Diameter	100	100
Height	53.5	53.5
Volume, cc	35	35
Weight, kg	2.3	2.3
<b>Accessories</b>		
Mounting Bracket	MBSM206	MBSM206

### Notes

- (1) Above 200°C the pressure rating is reduced, consult us the exact rating at any specific temperature
- (2) Maximum temperature 200°C using standard seal
- (3) Material abbreviations, 316L SS = 316L Stainless Steel
- (4) Add suffix for other seal types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. SW205.221.T)
- (5) Replace the □ with the filter disc grade required, e.g. FD.64.S20V