

Low Pressure Stainless Steel Housings



Our 100 series low pressure stainless steel and SS / Pyrex filter assemblies are an ideal solution for analytical and instrumentation applications. The low internal volume provides quick response times for sample condition systems and the user friendly two piece bowl design makes element service quick in simple for both gaseous and liquid service. Our guarded Pyrex bowl provides a safe and effective means of monitoring the service. By providing six sizes of filters, you are able to choose the exact unit for your needs. The o-ring seal design also functions in vacuum generated sampling systems.

At the heart of our filter housings is our filter elements. We offer disposable borosilicate microfiber for coalescing and particulate protection with a fluorocarbon binder, which provides excellent chemical resistance. The disposable elements are also used where highly reactive gases are being analyzed, since they exhibit very low levels of adsorption. The 0.01 micron efficiency provides ultimate protection.

Stainless steel and PTFE elements are available for heavily contaminated systems, and where compatibility is an issue. Please see back cover for further information.



United Filtration Systems, Inc.
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Partner of Headline Filters

SL100-1

STAINLESS STEEL HOUSINGS WITH PYREX GLASS BOWLS

Features:

- Low Cost Design For Low Pressure Applications
- 316L Stainless Steel
- Pyrex Bowl For At A Glance Observations
- 1/4" NPT Drain (Standard)
- Available in Hastelloy, Monel, Etc.

Applications:

- Sample Process Filtration
- Emission / Environmental Service
- Gas Analysis Protection
- Low Pressure Service
- Point-Of-Use Monitors



Our low-pressure stainless steel housings are ideal for gas analysis, emissions, CEM and sample process filter applications where continual monitoring is required. The Pyrex glass "G" bowl provides a full view of the element making visual checks fast and simple. Although all the stainless steel housings (designated w/o "G") eliminate the monitoring capabilities, they do provide a cost effective filter solution to systems requiring all stainless wetted parts.

The housings have minimal annular volume to reduce lag time and carry over. The 1/4" drain port in the base, also allows these housings to be utilized as by-pass and slipstream filters.

PRINCIPLE SPECIFICATIONS

Housing Model	117G	127G	137G	138G	147G	148G
Port Size (NPT)	1/4"	1/4"	1/4"	1/2"	1/4"	1/2"
Drain Type (NPT)	1/8"	1/8"	1/4"			1/4"
Maximum Pressure (psig)	100	100	100	100	100	100
Internal Volume (cc)	29	39	110			250
Maximum Temp. -Buna-N (250°F)	BN127G	BN127G	BN137	BN137	BN137	BN137
Maximum Temp. -EPDM (300°F)	GE127G	GE127G	GE137	GE137	GE137	GE137
Maximum Temp. -Viton (400°F)	GV127G	GV127G	GV137	GV137	GV137	GV137
Maximum Temp. -Silicone (450°F)	GS127G	GS127G	GS137	GS137	GS137	GS137
Maximum Temp. -PTFE (400°F)	GP127G	GP127G	GP137	GP137	GP137	GP137
Maximum Temp. -Kalrez (600°F)	KZ127G	KZ127G	KZ137	KZ137	KZ137	KZ137
Principle Dimensions: (inches)						
Center Of Port To Head	0.47	0.47	0.59			0.59
Head Diameter	1.58	1.58	2.20			2.20
Overall Length	3.26	4.29	5.15			9.64
Element Removal Clearance	0.70	1.65	2.76			7.28
Filter Element Codes: (1)						
Disposable Element	12-32-□	12-57-□	25-64-□			25-178-□
Stainless Steel Element	SS-12-32-□	SS-12-57-□	SS-25-64-□			SS-25-178-□
PEL Element	PEL-12-32-□	PEL-12-57-□	PEL-25-64-□			PEL-25-178-□
PTFE Element	PT-12-32-□	PT-12-57-□	PT-25-64-□			PT-25-178-□
Materials Of Construction: (2)						
Head & Internals	316LSS	316LSS	316LSS			316LSS
Bowl	Pyrex	Pyrex	Pyrex			Pyrex
O-Rings	Viton	Viton	Viton			Viton
Accessories:						
Mounting Bracket	MBSS110	MBSS110	MBSS130			MBSS130
Support Core	SC110	SC120	SC130			SC140

FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C ⁽³⁾ or 70C ⁽⁴⁾

Air Line Pressure (PSIG)	110 Series		120 Series		130 Series		140 Series	
	50C	70C	50C	70C	50C	70C	50C	70C
2	1	3	2	4	3	6	6	8
15	2	6	3	7	6	11	10	13
30	3	9	4	10	8	16	15	19
60	4	14	7	17	13	26	25	32
80	5	16	9	23	18	38	35	44
100	6	23	11	27	21	44	40	50

- Notes: (1) Replace '□' with grade required, e.g. 25-64-50C, PT-12-57-03
 (2) Material abbreviations, 316LSS = 316L Stainless Steel
 (3) Flow rates for Grade 50C rated at 99.99% against 0.01 micron
 (4) Flow rates for Grade 70C rated at 95% against 0.01 micron



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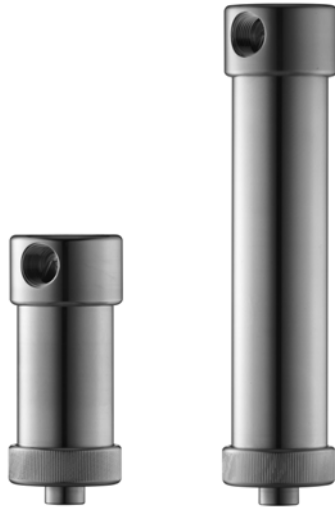
LOW PRESSURE STAINLESS STEEL HOUSINGS

Features:

- Low Cost Design For Low Pressure Applications
- All 316L Stainless Steel
- 1/4" NPT Drain (Standard)
- Available in Hastelloy, Monel, Etc.

Applications:

- Sample Process Filtration
- Emission / Environmental Service
- Gas Analysis Protection
- Low Pressure Service



Our low-pressure stainless steel housings are ideal for gas analysis, emissions, CEM and sample process filter applications where continual monitoring is required. Although all the stainless steel housings eliminate the monitoring capabilities, they do provide a cost effective filter solution to systems requiring all stainless wetted parts.

The housings have minimal annular volume to reduce lag time and carry over. The 1/4" drain port in the base, also allows these housings to be utilized as by-pass and slipstream filters.

PRINCIPLE SPECIFICATIONS

Housing Model	137	138	147	148
Port Size (NPT)	1/4"	1/2"	1/4"	1/2"
Drain Type (NPT)	1/4"	1/4"	1/4"	1/4"
Maximum Pressure (psig)	150	150	150	150
Internal Volume (cc)	110	110	250	250
Maximum Temp. -Buna-N (250°F)	BN137	BN137	BN137	BN137
Maximum Temp. -EPDM (300°F)	GE137	GE137	GE137	GE137
Maximum Temp. -Viton (400°F)	GV137	GV137	GV137	GV137
Maximum Temp. -Silicone (450°F)	GS137	GS137	GS137	GS137
Maximum Temp. -PTFE (400°F)	GP137	GP137	GP137	GP137
Maximum Temp. -Kalrez (600°F)	KZ137	KZ137	KZ137	KZ137
Principle Dimensions: (inches)				
Center Of Port To Head	0.59	0.59	0.59	0.59
Head Diameter	2.20	2.20	2.20	2.20
Overall Length	5.15	5.15	9.64	9.64
Element Removal Clearance	2.76	2.76	7.28	7.28
Filter Element Codes: (1)				
Disposable Element	25-64-□	25-64-□	25-178-□	25-178-□
Stainless Steel Element	SS-25-64-□	SS-25-64-□	SS-25-178-□	SS-25-178-□
PEL Element	PEL-25-64-□	PEL-25-64-□	PEL-25-178-□	PEL-25-178-□
PTFE Element	PT-25-64-□	PT-25-64-□	PT-25-178-□	PT-25-178-□
Materials Of Construction: (2)				
Head & Internals	316LSS	316LSS	316LSS	316LSS
Bowl	316LSS	316LSS	316LSS	316LSS
O-Rings	Viton	Viton	Viton	Viton
Accessories:				
Mounting Bracket	MBSS130	MBSS130	MBSS130	MBSS130
Support Core	SC130	SC130	SC140	SC140

FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C ⁽³⁾ or 70C ⁽⁴⁾

Air Line Pressure (PSIG)	137 Series		147 Series	
	50C	70C	50C	70C
2	3	6	6	8
15	6	11	10	13
30	8	16	15	19
60	13	26	25	32
80	18	38	35	44
100	21	44	40	50
150	29	58	55	68

- Notes: (1) Replace '□' with grade required, e.g. 25-64-50C, PT-25-178-03
 (2) Material abbreviations, 316LSS = 316L Stainless Steel
 (3) Flow rates for Grade 50C rated at 99.99% against 0.01 micron
 (4) Flow rates for Grade 70C rated at 95% against 0.01 micron



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Extended High Pressure Range

3,000 PSIG

The 130-146 housings listed on page 2 & 3 are rated at 1,500 PSIG. We have a high-pressure version that is rated at 3,000 PSIG. i.e. 130HP, 132HP, 134HP, 136HP, 140HP, 142HP, 144HP, 146HP, 150HP, 151HP, 152HP, 160HP, 161HP, and 162HP.

6,000 PSIG

The 130-146 housings listed on page 2 & 3 are rated at 1,500 PSIG. We have a high-pressure version that is rated at 6,000 PSIG. i.e. 130HHP, 132HHP, 134HHP, 136HHP, 140HHP, 142HHP, 144HHP, 146HHP, 150HHP, 151HHP, 152HHP, 160HHP, 161HHP, and 162HHP.

10,000 PSIG

The 110-126 housings listed on page 2 are rated at 5,000 PSIG. We have a high-pressure version that is rated at 10,000 PSIG. i.e. 110HP, 112HP, 114HP, 116HP, 120HP, 122HP, 124HP, 126HP.

CUSTOM

We have the capabilities to provide custom housings based upon your specific requirements. The housings listed within are also available in PTFE, Monel, Hastelloy and many other materials.

HOW TO SELECT THE CORRECT FILTER HOUSING

Start by answering the following nine points, which will guide you to the best filter solution based upon the filter housings working environment. All housings and elements are sold separately to accommodate the vast variety of each.

- Maximum Pressure
- Maximum Temperature
- Chemical and physical composition of the stream
- Type of filtration required: Particulate, coalescing, bypass, fast loop, liquid-liquid,
- Contaminant to be removed
- Maximum flow rate
- Line size and port size
- Level of filtration required
- Relative importance of cost, response time, ease of service and interval

Disposable Microfiber

Disposable micro-fiber elements with efficiencies up to 99.9999% at 0.01 micron. These are ideal for use in sample conditioning since they offer exceptional filtration, high flow rates with minimal pressure drops and excellent chemical compatibility.

Stainless Steel Mesh

Stainless steel elements (SS) are designed for the filtration of heavily contaminated gas samples and liquid streams since they are recleanable by back flushing or ultrasonic cleaning. Standard microns available: 0.5, 1, 3, 10, 25, 50, 100, and 200.

Sintered PTFE

Sintered PTFE elements are used where only pure PTFE may contact the sample. They should be used in our PTFE series of housings based on the stainless steel models. Model 122P, 122PG, 130P, 130PG, 132P, 132PG, 142P. Standard microns available: 3,10, and 25.

Sintered Polypropylene

Sintered polyethylene elements (PEL) are used only in non-corrosive applications to remove bulk contaminates. Standard micron sizes available: 10, 25, and 75.

REQUIRE MORE INFORMATION

For Complete Details Please Visit Our Website www.unitedfiltration.com



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