

A Headline Filters Partner

"A leading worldwide supplier of high efficiency filters for a variety of industries and applications."

MINIATURE STAINLESS STEEL HOUSINGS

The 110 and 120 series of filters are ideal for use with gaseous and liquid sample process analyzers. The small internal volume, compact design, and positive O-ring sealing mechanism make them perfect for demanding analyzer applications. They are constructed entirely of 316L stainless steel and are free of welds to comply with NACE MR-01-75.

These housings are also available with a PTFE seal, which requires a modified sealing design: simply add an "S" to the housing code, e.g. 112S. PTFE seals cannot be retrofitted into standard housings originally having a Viton O-ring. A high temperature gasket can only be fitted into the S version housing.



Features:

- 316L Stainless Steel Construction
- Pressure To 5,000 PSIG, Temperature To 900°F
- 2-Port Housings For Particulate Removal
- 3-Port Housings For Coalescing Or Bypass Filtration
- Compact Designs For Fast Response Times
- Available In Hastelloy, Monel, Etc.

Applications:

- Protect Chlorine Gas Analyzers
- C.I.P. For Food And Dairy Plants
- Chlorine Liquid Injection Filters

At the heart of our filter products is the filter element. Choosing the correct element insures proper results for your specific application:

Disposable Microfiber Elements

Disposable Microfiber Elements are most commonly used since they offer exceptional filtration, high flows with minimal pressure drops, and excellent chemical compatibility. These are ideal for use in sample conditioning, instrumentation, CNG, and Emission/Environmental service.

- For **Coalescing (liquid removal)** and particle collection use our grade "C". We recommend starting with the 70C which is rated at 95% efficient at 0.01 micron which provides outstanding filtration, at high flow rates.
- For **Particle removal** only use grade "K". We recommend starting with the 70K which is rated at 95% efficient at 0.01 micron which provides outstanding filtration, at high flow rates.
- For Particulate removal above 300°F (150°C) use grade "S".

Stainless Steel 5-Layer Mesh Elements

Stainless steel elements (SS) are designed for the filtration of heavily contaminated gas samples, CNG, 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, 130PG, 130PG, 132PG, 132PG, 142P. Standard microns available: 3,10, and 25.

Sintered Polyethylene (PEL)

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





MINIATURE STAINLESS STEEL HOUSINGS

- NACE Complaint MR-01-75
- Sample Conditioning Filters For Gas And Liquid Service
- Accepts Microfiber, Stainless Steel, PTFE, & PEL Filter Elements



Housing Model w/o Drain 114 116 124 126 Port Size (NPT) 1/8" 1/4" 1/8" 1/4" 1/8" 1/4" Drain Type (NPT) 1/8" 1/4" 1/8" 1/4" 1/8" 1/4" Maximum Tensure (psig) 5000 5000 5000 5000 5000 30 30 Maximum Temp Buna-N (250°F) BN110 BN120	Housing Model	110	112	120	122
Port Size (NPT) 1/8° 1/4° 1/8° 1/4° Drain Type (NPT) 1/8° 1/4° 1/8° 1/4° Maximum Tressure (psig) 5000 5000 5000 5000 Internal Volume (cc) 20 20 30 30 Maximum Temp Buna-N (250°F) BN110 BN120 BN120 BN120<		114	116	124	126
Maximum Pressure (psig) 5000 5000 5000 5000 5000 5000 5000 5000 5000 5000 5000 5000 30 30 Internal Volume (cc) 20 20 20 30 30 30 Maximum TempBuna-N (250°F) BN110 BN110 BN110 GE110 GS110 GS1262 <td></td> <td>1/8″</td> <td>1/4″</td> <td>1/8″</td> <td>1/4″</td>		1/8″	1/4″	1/8″	1/4″
Internal Volume (cc) 20 20 30 30 Maximum Temp Jebuna-N (250°F) BN110 BN120	Drain Type (NPT)	1/8″	1/4″	1/8″	1/4″
Maximum Temp Éuna-N (250°F) BN110 GE110 KZ110 <	Maximum Pressure (psig)	5000	5000	5000	5000
Maximum Temp FPDM (300°F) GE110 GV110 GV110 <th< td=""><td>Internal Volume (cc)</td><td>20</td><td>20</td><td>30</td><td>30</td></th<>	Internal Volume (cc)	20	20	30	30
Maximum TempViton (400°F) Standard GV110	Maximum TempBuna-N (250°F)	BN110	BN110	BN110	BN110
Maximum TempSilicone (450°F) GS110 Maximum TempPTFE (400°F) GS110 GP110S GS110 GP110S GS110 GP110S GS110 GP110S GS110 GP110S Weight Of Housing (lbs) 1.0 1.0 1.0 1.0 1.0 Principle Dimensions: (inches) 0.39 0.39 0.39 0.39 0.39 Center Of Port To Head 0.39 1.42 1.42 1.42 1.42 Overall Length 2.92 2.92 3.98 3.98 Element Removal Clearance 1.57 1.57 2.36 2.36 Disposable Element 12-32-n 12-32-n 12-57-n 12-57-n 12-57-n Stainless Steel Element SS-12-32-n SS-12-32-n SS-12-57-n SS-12-57-n PEL Element PTFE Element PT-12-32-n PT-12-57-n PT-12-57-n Materials Of Construction: (2) Head & Internals 316LSS 316LSS <t< td=""><td>Maximum TempEPDM (300°F)</td><td>GE110</td><td>GE110</td><td>GE110</td><td>GE110</td></t<>	Maximum TempEPDM (300°F)	GE110	GE110	GE110	GE110
Maximum TempSilicone (450°F) GS110 Maximum TempPTFE (400°F) GS110 GP110S GS110 GP110S GS110 GP110S GS110 GP110S GS110 GP110S Weight Of Housing (lbs) 1.0 1.0 1.0 1.0 1.0 Principle Dimensions: (inches) 0.39 0.39 0.39 0.39 0.39 Center Of Port To Head 0.39 1.42 1.42 1.42 1.42 Overall Length 2.92 2.92 3.98 3.98 Element Removal Clearance 1.57 1.57 2.36 2.36 Disposable Element 12-32-n 12-32-n 12-57-n 12-57-n 12-57-n Stainless Steel Element SS-12-32-n SS-12-32-n SS-12-57-n SS-12-57-n PEL Element PTFE Element PT-12-32-n PT-12-57-n PT-12-57-n Materials Of Construction: (2) Head & Internals 316LSS 316LSS <t< td=""><td>Maximum TempViton (400°F) Standard</td><td>GV110</td><td>GV110</td><td>GV110</td><td>GV110</td></t<>	Maximum TempViton (400°F) Standard	GV110	GV110	GV110	GV110
Maximum TempKalrez (600°F) KZ110 I.0 1.12 0.39 0.3		GS110	GS110	GS110	GS110
Weight Of Housing (lbs) 1.0 1.0 1.0 1.0 Principle Dimensions: (inches) 0.39 0.39 0.39 0.39 0.39 Center Of Port To Head 0.39 1.42 1.42 1.42 1.42 1.42 Overall Length 2.92 2.92 3.98 3.98 3.98 Element Removal Clearance 1.57 1.57 2.36 2.36 Filter Element Codes: (1) Disposable Element 12-32-□ 12-57-□ SS-12-57-□ PT-12-57-□ PT-12-57-□ PT-12-57-□ PT-12-57-□ PT-12-57-□ PT-12-5	Maximum TempPTFE (400°F)	GP110S	GP110S	GP110S	GP110S
Principle Dimensions: (inches) 0.39 0.39 0.39 0.39 0.39 Center Of Port To Head 0.39 1.42 1.42 1.42 1.42 1.42 Qverall Length 2.92 2.92 3.98 3.98 3.98 Element Removal Clearance 1.57 1.57 2.36 2.36 Filter Element Codes: (1) 12-32-□ 12-32-□ 12-57-□ 12-57-□ Disposable Element SS-12-32-□ SS-12-32-□ SS-12-57-□ SS-12-57-□ PEL Element PEL-12-32-□ PEL-12-32-□ PEL-12-57-□ PEL-12-57-□ PTFE Element PT-12-32-□ PT-12-57-□ PT-12-57-□ PT-12-57-□ Materials Of Construction: (2) 316LSS <t< td=""><td>Maximum TempKalrez (600°F)</td><td>KZ110</td><td>KZ110</td><td>KZ110</td><td>KZ110</td></t<>	Maximum TempKalrez (600°F)	KZ110	KZ110	KZ110	KZ110
Center Of Port To Head 0.39 0.36 0.36 0.3	Weight Of Housing (lbs)	1.0	1.0	1.0	1.0
Head Diameter 1.42 1.42 1.42 1.42 1.42 Overall Length 2.92 2.92 3.98 3.98 Element Removal Clearance 1.57 1.57 2.36 2.36 Filter Element Codes: (1) 12-32-□ 12-32-□ 12-57-□ 12-57-□ 12-57-□ Stainless Steel Element SS-12-32-□ SS-12-57-□ SS-12-57-□ SS-12-57-□ PEL-12-57-□ PEL Element PEL-12-32-□ PEL-12-32-□ PEL-12-57-□ PEL-12-57-□ PEL-12-57-□ PTFE Element PT-12-32-□ PT-12-32-□ PT-12-57-□ PT-12-57-□ PT-12-57-□ Materials Of Construction: (2) Head & Internals 316LSS	Principle Dimensions: (inches)				
Overall Length Element Removal Clearance2.922.923.983.98Element Removal Clearance1.571.572.362.36Filter Element Codes: (1) Disposable Element12-32-□12-32-□12-57-□12-57-□Stainless Steel Element\$\$S-12-32-□\$\$S-12-32-□\$\$S-12-57-□\$\$S-12-57-□PEL ElementPEL-12-32-□PEL-12-32-□PEL-12-57-□PEL-12-57-□PTFE ElementPT-12-32-□PT-12-57-□PT-12-57-□PTFE ElementPT-12-32-□PT-12-57-□PT-12-57-□Materials Of Construction: (2) Head & Internals316LSS316LSS316LSSBowl316LSS316LSS316LSS316LSSO-Rings (Standard)VitonVitonVitonVitonAccessories: Mounting BracketMBSS110 SC110MBSS110 SC120MBSS110 SC120MBSS110 SC120Housing Model w/ PTFE Seals110S112S120S122S	Center Of Port To Head	0.39	0.39	0.39	0.39
Element Removal Clearance1.571.572.362.36Filter Element Codes: (1) Disposable Element12-32-□12-32-□12-57-□12-57-□Stainless Steel ElementSS-12-32-□SS-12-32-□SS-12-57-□SS-12-57-□PEL ElementPEL-12-32-□PEL-12-32-□PEL-12-57-□PEL-12-57-□PTFE ElementPT-12-32-□PT-12-32-□PT-12-57-□PT-12-57-□Materials Of Construction: (2)Head & Internals316LSS316LSS316LSSBowl316LSS316LSS316LSS316LSS316LSSO-Rings (Standard)VitonVitonVitonVitonAccessories: Mounting BracketMBSS110 SC110MBSS110 SC120MBSS110 SC120MBSS110 SC120Housing Model w/ PTFE Seals110S112S120S122S	Head Diameter	1.42	1.42	1.42	1.42
Filter Element Codes: (1)12-32-012-32-012-57-012-57-0Disposable ElementSS-12-32-0SS-12-32-0SS-12-57-0SS-12-57-0Stainless Steel ElementPEL-12-32-0PEL-12-32-0PEL-12-57-0PEL-12-57-0PTFE ElementPT-12-32-0PT-12-32-0PT-12-57-0PT-12-57-0Materials Of Construction: (2)Head & Internals316LSS316LSS316LSS316LSSBowl316LSS316LSS316LSS316LSS316LSS316LSSO-Rings (Standard)VitonVitonVitonVitonVitonAccessories:MBSS110MBSS110SC120SC120Mounting BracketMBSS110SC110SC120SC120Housing Model w/ PTFE Seals110S112S120S122S	Overall Length	2.92	2.92	3.98	3.98
Disposable Element 12-32-□ 12-32-□ 12-57-□ 12-57-□ Stainless Steel Element SS-12-32-□ SS-12-32-□ SS-12-57-□ SS-12-57-□ PEL Element PEL-12-32-□ PEL-12-32-□ PEL-12-57-□ PEL-12-57-□ PTFE Element PT-12-32-□ PT-12-32-□ PT-12-57-□ PEL-12-57-□ Materials Of Construction: (2) Head & Internals 316LSS 316LSS 316LSS 316LSS 316LSS Bowl 316LSS 316LSS 316LSS 316LSS 316LSS 316LSS 316LSS O-Rings (Standard) Viton Viton Viton Viton Viton Viton Accessories: Mounting Bracket MBSS110 SC110 SC120 SC120 Housing Model w/ PTFE Seals 110S 112S 120S 122S	Element Removal Clearance	1.57	1.57	2.36	2.36
Stainless Steel ElementSS-12-32-□ PEL-12-32-□SS-12-32-□ PEL-12-32-□SS-12-57-□ PEL-12-57-□SS-12-57-□ PEL-12-57-□SS-12-57-□ PEL-12-57-□PTFE ElementPT-12-32-□PT-12-32-□PT-12-57-□ PT-12-57-□PEL-12-57-□ PT-12-57-□PEL-12-57-□ PT-12-57-□Materials Of Construction: (2)Head & Internals316LSS 316LSS316LSS 316LSS316LSS 316LSS316LSS 316LSS316LSS 316LSSBowl316LSS 316LSS316LSS 316LSS316LSS 316LSS316LSS 316LSS316LSS 316LSSO-Rings (Standard)VitonVitonVitonVitonAccessories: Mounting BracketMBSS110 SC110MBSS110 SC120MBSS110 SC120MBSS110 SC120Housing Model w/ PTFE Seals110S112S120S122S					
PEL ElementPEL-12-32-□ PT-12-32-□PEL-12-32-□ PT-12-32-□PEL-12-57-□ PT-12-57-□PEL-12-57-□ PT-12-57-□Materials Of Construction: (2)Head & InternalsBowl316LSSO-Rings (Standard)Accessories:Mounting BracketMounting BracketSupport CoreHousing Model w/ PTFE Seals110S110S112S120S120S120S					
PTFE ElementPT-12-32-□PT-12-32-□PT-12-57-□PT-12-57-□Materials Of Construction: (2) Head & Internals316LSS316LSS316LSS316LSSBowl316LSS316LSS316LSS316LSS316LSSO-Rings (Standard)VitonVitonVitonVitonAccessories: Mounting Bracket Support CoreMBSS110 SC110MBSS110 SC120MBSS110 SC120MBSS110 SC120Housing Model w/ PTFE Seals110S112S120S122S					
Materials Of Construction: (2)Head & InternalsBowl316LSSO-Rings (Standard)VitonVitonAccessories:Mounting BracketMounting BracketSupport CoreSupport CoreHousing Model w/ PTFE Seals110S112S120S122S					
Head & Internals316LSS316LSS316LSS316LSS316LSSBowl316LSS316LSS316LSS316LSS316LSS316LSSO-Rings (Standard)VitonVitonVitonVitonVitonAccessories:Mounting BracketMBSS110MBSS110MBSS110MBSS110Support CoreSC110SC110SC120SC120Housing Model w/ PTFE Seals110S112S120S122S	PTFE Element	PT-12-32-□	PT-12-32-□	PT-12-57-□	PT-12-57-□
Bowl O-Rings (Standard)316LSS Viton316LSS Viton316LSS Viton316LSS VitonAccessories: Mounting Bracket Support CoreMBSS110 SC110MBSS110 SC120MBSS110 SC120MBSS110 SC120Housing Model w/ PTFE Seals110S112S120S122S		04/100			
O-Rings (Standard)VitonVitonVitonVitonAccessories: Mounting BracketMBSS110 SC110MBSS110 SC120MBSS110 SC120MBSS110 SC120MBSS110 SC120Housing Model w/ PTFE Seals110S112S120S122S					
Accessories: Mounting Bracket Support CoreMBSS110 SC110MBSS110 SC110MBSS110 SC120MBSS110 SC120MBSS110 SC120Housing Model w/ PTFE Seals Housing Model w/ PTFE Seals110S112S120S122S					
Mounting Bracket Support CoreMBSS110 SC110MBSS110 SC120MBSS110 SC120MBSS110 SC120Housing Model w/ PTFE Seals Music (1995) of black110S112S120S122S	O-Rings (Standard)	Viton	Viton	Viton	Viton
Support Core SC110 SC120 SC120 Housing Model w/ PTFE Seals 110S 112S 120S 122S	Accessories:				
Housing Model w/ PTFE Seals 110S 112S 120S 122S	Mounting Bracket	MBSS110	MBSS110	MBSS110	MBSS110
	Support Core	SC110	SC110	SC120	SC120
	Housing Model w/ PTFE Seals	1105	1125	1205	1225
	Maximum TempPTFE (400°F) Standard	GP110S	GP110S	GP110S	GP110S

FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C (3) or 70C (4) Air Line Pressure 110 Series 120 Series (PSIG) 50C 70C 50C 70C 9

Notes: (1) Replace 'a' with grade required, e.g. 12-32-50C, 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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