

# We offer every industry standard size and grades But there is nothing 'standard' about the quality of our service

Established in 2001, Classic Filters Ltd. manufactures high-quality, bonded microfiber filter elements and filter housing for use in both gas and liquid applications.

Thanks to our highly-experienced team of engineers, we have developed some of the most efficient, low-cost filters, producing unparalleled flow rates and extremely low pressure drops.

Whether you need a filter element that's interchangeable with other manufacturers' filter housings, or whether you need a completely tailored, custom-built solution. We can deliver.

What's more, we can deliver quickly.

We appreciate the disruption and inconvenience that replacing a filter can cause, which is why we manufacture and deliver our products in super-quick time, to help minimise the impact that this has on your business.

We also offer local service and support to ensure that you get the best possible performance from your filtration system.

#### Why Choose Classic Filters?

- Low-cost, high-quality filtration solutions
- Extensive, customer-driven product range
- Super-quick logistics and delivery
- Customer service excellence
- Unparalleled support











Take a look at our comprehensive product range to see if we have what you need to solve your filtration problems. If not, get in touch and we will make it for you, according to your particular specifications and requirements.



### **Introduction & Contents**

CF/2.1/001	Introduction
CF/2.1/002	Contents: 1
CF/2.1/003	Contents: 2
CF/2.1/004	Contents: 3
CF/2.1/005	Contents: 4

### **Information & Applications**

CF/2.1/006	Housing Advantages
CF/2.1/007	Particulate & Coalescing Filtration Explained
CF/2.1/007a	Stainless Steel Filter Housings
CF/2.1/008	Fast Loop & Bypass Filters
CF/2.1/009	PTFE-Membrane Housings
CF/2.1/010	PTFE-Membrane Housing Options
CF/2.1/011	Cyclone Filter Housings
CF/2.1/012	Catchpot & Bubbler Housings
CF/2.1/013	Drain Vessels for Coalescing Applications
CF/2.1/014	Automatic Float Drains for Coalescing Applications
CF/2.1/015	SBF Series Filter Housings with Flanges
CF/2.1/016	Heatable Housings for Hot Gas Analysis
CF/2.1/016a	Aluminium Filter Housings
CF/2.1/016b	Plastic Filter Housings
CF/2.1/017	Float Valve Housings for Automatic Flow Shut-Off
CF/2.1/018	SiS & SeS Series Filter Housings with Differential Pressure Indicators
CF/2.1/019	Sealing Options, Mounting Brackets and Support Cores
CF/2.1/020	How to Select the Correct Filter Housing

### **Filter Element Information**

ŧ		
	CF/2.1/020a	How to Select the Filter Element
	CF/2.1/021	Disposable Type Particulate & Coalescing Filter Elements - Binders
	CF/2.1/022	Disposable Type Particulate & Coalescing Filter Elements - Grades & Dimensions
	CF/2.1/023	Stainless Steel Filter Elements
	CF/2.1/023a	Stainless Steel Filter Discs and Single Layer Filter Elements
	CF/2.1/023b	Stainless Steel Pleated Filter Elements
	CF/2.1/024	PTFE & PE Filter Elements
	CF/2.1/025	Ceramic Filter Elements
	CF/2.1/026	LP Liquid Cartridges
	CF/2.1/031	Air Flow Rates - Disposable Filter Elements
	CF/2.1/032	Air Flow Rates - Stainless Steel Filter Elements
	CF/2.1/033	Air Flow Rates - PTFE & PE Filter Elements
	CF/2.1/034	Liquid Flow Rates - Stainless Steel Filter Elements

#### PTFE Membrane Information

CF/2.1/040 PTFE Membrane Information - Gas Separation and Liquid/Liquid Types

CF/2.1/041 Flow Rates - PTFE Membranes

### **Disposable In-Line Filters, Adsorbers and Cartridges**

CF/2.1/050	DIF - Small Disposable In-Line Filters		
CF/2.1/050a	DIF - Disposable In-Line Filters		
CF/2.1/051	DIA - Small Disposable In-Line Adsorbers		
CF/2.1/051a	DIA - Disposable In-Line Adsorbers		
CF/2.1/052	Adsorption Cartridges for Housings		
CF/2.1/053	Adsorber Columns for Granular Media		
CF/2.1/053a	SS Adsorber Columns for Granular Media		
CF/2.1/054	NN212.AD & NN232.AD - Absorber Housing		
CF/2.1/055	SS215.AD & SS235.AD - Absorber Housing		
CF/2.1/056	SS218.AD & SS238.AD - Absorber Housing		

### **Stainless Steel Filter Housings: SP76 Modular Sample System**

	Housing Type	Material	Port Size	Pressure (Bar)	Element Size
CF/2.1/057	SH017 Series - SP76 Modular System	316L SS	SP76 Modular	350	10.32
CF/2.1/058	SH027 Series - SP76 Modular System	316L SS	SP76 Modular	350	10.57

### Stainless Steel Filter Housings: 1/8" to 1/2" Line Sizes

	Housing Type	Material	Port Size	Pressure (Bar)	Element Size
CF/2.1/060	SG111 & SS112 Series	316L SS & Glass	1/8" & 1/4"	7 & 10	12.32
CF/2.1/061	SS117 Series	316L SS	1/8", 1/4" & 1/2"	350	12.32
CF/2.1/062	SV117 Series - Inverted Coalescing	316L SS	1/8" & 1/4"	350	12.32

Stainless S	Steel Filter Housings: 1/8" to 1/	2" Line Sizes			
	Housing Type	Material	Port Size	Pressure (Bar)	Element Size
CF/2.1/063	SS119 Series	316L SS	1/8" & 1/4"	700	12.32
CF/2.1/064	SG121 & SS122 Series	316L SS & Glass	1/8" & 1/4"	7 & 10	12.57
CF/2.1/065	SS127 Series		1/8", 1/4" & 1/2"	350	12.57
CF/2.1/065a	SS127.MG - Filter Housing with Magnet		1/8", 1/4" & 1/2"	350	12.32
CF/2.1/065b CF/2.1/066	SS125.F - Float Valve Housing SV127 Series - Inverted Coalescing	316L SS 316L SS	1/8", 1/4" & 1/2" 1/8" & 1/4"	100 350	- 12.57
CF/2.1/066a	SS147 Series	316L SS	1/8" & 1/4"	350	12.76
CF/2.1/067	SS129 Series	316L SS	1/8" & 1/4"	700	12.57
CF/2.1/067a	SS1210 Series	316L SS	1/4" & 3/8"	1050	12.57
CF/2.1/067b	SS1211 Series	316L SS	1/4" & 3/8"	1400	12.57
CF/2.1/068	SG211 & SS212 Series	316L SS & Glass	1/4" & 1/2"	7 & 10	25.64
CF/2.1/069	SS215 Series	316L SS	1/4" & 1/2"	100	25.64
CF/2.1/070	SiS215 Series with DPI	316L SS	1/4" & 1/2"	100	25.64
CF/2.1/071	SV215 Series - Inverted Coalescing	316L SS	1/4" & 1/2"	100	25.64
CF/2.1/072 CF/2.1/073	SS216 Series SiS216 Series with DPI	316L SS 316L SS	1/4" & 1/2" 1/4" & 1/2"	200 200	25.64 25.64
CF/2.1/074	SS218 Series	316L SS	1/4" & 1/2"	400	25.64
CF/2.1/075	SiS218 Series with DPI	316L SS	1/4" & 1/2"	400	25.64
CF/2.1/076	SS219 Series	316L SS	1/4" & 1/2"	700	25.64
CF/2.1/077	SiS219 Series with DPI	316L SS	1/4" & 1/2"	700	25.64
CF/2.1/078	SG231 & SS232 Series	316L SS & Glass	1/4" & 1/2"	7 & 10	25.178
CF/2.1/079	SS225 Series	316L SS	1/4" & 1/2"	100	25.178
CF/2.1/080	SiS235 Series with DPI	316L SS	1/4" & 1/2"	100	25.178
CF/2.1/081	SV235 Series - Inverted Coalescing	316L SS	1/4" & 1/2"	100	25.178
CF/2.1/082	SS236 Series	316L SS	1/4" & 1/2"	200	25.178
CF/2.1/083 CF/2.1/084	SiS236 Series with DPI SS238 Series	316L SS 316L SS	1/4" & 1/2"	200 400	25.178 25.178
CF/2.1/085	SiS238 Series with DPI	316L SS	1/4" & 1/2" 1/4" & 1/2"	400	25.178
CF/2.1/086	SS239 Series	316L SS	1/4" & 1/2"	700	25.178
CF/2.1/087	SiS239 Series with DPI	316L SS	1/4" & 1/2"	700	25.178
Stainless S	itaal Filtor Hausings: 2/4" to 1"	Lino Sizos			
Stairness 5	Steel Filter Housings: 3/4" to 1"		Dowt Circ	Pressure (Bar)	Element Size
CF/2.1/088	Housing Type SS325 Series	Material 316L SS	<b>Port Size</b> 3/4" & 1"	100	38.152
CF/2.1/089	SiS325 Series with DPI	316L SS	3/4" & 1"	100	38.152
CF/2.1/090	SS326 Series	316L SS	3/4" & 1"	200	38.152
CF/2.1/091	SiS326 Series with DPI	316L SS	3/4" & 1"	200	38.152
CF/2.1/091a	SS337 Series	316L SS	3/4" & 1"	350	38.178
CF/2.1/092	SS328 Series	316L SS	3/4" & 1"	400	38.152
CF/2.1/093	SiS328 Series with DPI	316L SS	3/4" & 1"	400	38.152
Stainless S	Steel Filter Housings: 3/4" to 2"	Line Sizes			
	Housing Type	Material	Port Size	Pressure (Bar)	<b>Element Size</b>
CF/2.1/094	SG421	316L SS & Glass	3/4" & 1"	7	51.230
CF/2.1/095	SS424 Series	316L SS	3/4" & 1"	35	51.230
CF/2.1/096	SS425 & SHS425 Series	316L SS	1" to 2"	100	51.230
CF/2.1/097	SS426 & SHS426 Series SS428 & SHS428 Series	316L SS	1" to 2"	200	51.230
CF/2.1/098 CF/2.1/099	SS434 Series	316L SS 316L SS	1" to 2" 3/4" & 1"	400 35	51.230 51.476
CF/2.1/100	SS435 & SHS435 Series	316L SS	1" to 2"	100	51.476
CF/2.1/101	SS436 & SHS436 Series	316L SS	1" to 2"	200	51.476
CF/2.1/102	SS438 & SHS438 Series	316L SS	1" to 2"	400	51.476
Stainless S	Steel Heatable Filter Housings				
	Housing Type	Material	Port Size	Pressure (Bar)	Element Size
CF/2.1/110	HST Series	316L SS	1/8" & 1/4"	7	12.32 to 25.178
CF/2.1/111	HRT Series	316L SS	1/4"	7	25.64 & 25.178
CF/2.1/112	HSS Series	316L SS	1/4"	7	25.64 & 25.178
CF/2.1/113	HRS Series	316L SS	1/4"	7	25.64 & 25.178
Stainless S	Steel Fast Loop, In-Line & End-c	of-Line Filter Hous	sings		
	Housing Type	Material	Port Size	Pressure (Bar)	Element Size
CF/2.1/114	SLD Series - In-Line Type	316L SS	1/8" & 1/4"	200	FD.13
CF/2.1/115	SF Series - Fast Loop (Bypass) Type	316L SS	1/4" & 1/2"	100 & 350	12.32 to 25.178
CF/2.1/116	SL Series - In-Line Type	316L SS	1/4" & 1/2"	100 & 350	12.32 to 25.178
CF/2.1/117	SE Series - End-of-Line Type	316L SS	1/4" & 1/2"	-	12.32 to 25.64
CF/2.1/118	SO Series - End-of-Line Type	316L SS	1/4" & 1/2"	-	12.32 to 25.178

Stainless S	Steel Drain Vessels				
Stanness :		Matarial	Don't Cine	Duranes (Dav)	
CE /2 1 /1 20	Housing Type	Material	Port Size	Pressure (Bar)	
CF/2.1/120 CF/2.1/121	DN103 Series DF105 Series	316L SS & PA	1/8" & 1/4" 1/8" to 1/2"	17 35	
CF/2.1/121 CF/2.1/130	DF103 Series DG111 & DS112 Series	316L SS 316L SS & Glass	1/8" & 1/4"	7 & 10	
CF/2.1/131	DG121 & DS122 Series	316L SS & Glass	1/8" & 1/4"	7 & 10	
CF/2.1/131b	DS127 Series	316L SS	1/8" & 1/4"	350	
CF/2.1/1318	DG211 & DS212 Series	316L SS & Glass	1/8" & 1/4"	7 & 10	
CF/2.1/133	DS215 Series	316L SS	1/4" & 1/2"	100	
CF/2.1/134	DG231 & DS232 Series	316L SS & Glass	1/8" & 1/4"	7 & 10	
CF/2.1/135	DS235 Series	316L SS	1/4" & 1/2"	100	
Stainless S	Steel Differential Pressure Indica	ators			
	Housing Type	Material		Pressure (Bar)	
CF/2.1/139	SSDPI Series	316L SS		400-1050	
Regulators	s & Filter Regulators				
	Housing Type	Material	Port Size	Pressure (Bar)	Element Size
CF/2.1/140	RSP103 & RSS103 Series	316L SS	1/8" & 1/4"	17	-
CF/2.1/141	RSP113 Series	316L SS	1/8" & 1/4"	17	12.32
CF/2.1/142	RSS113 Series	316L SS	1/8" & 1/4"	17	12.32
CF/2.1/143	RSP123 Series	316L SS	1/8" & 1/4"	17	12.57
CF/2.1/144	RSS123 Series	316L SS	1/4" & 1/4"	17	12.57
PTFE-Mem	nbrane Housings: 1/8" to 1/2" Li	ne Sizes			
	Housing Type	Material	Port Size	Pressure (Bar)	Membrane Size
CF/2.1/148	FML101 Series	PTFE	1/4" Spigot	7	MT.33
CF/2.1/149	SM015 Series - SP76 Modular System	316L SS	SP76 Modular	100	MT.19
CF/2.1/150	SM015 Series	316L SS	1/16" & 1/8"	100	MT.19
CF/2.1/150a	GSM105 Series	316L SS	1/8" & 1/4"	100	MT.33
CF/2.1/150b	FM101 Series	PTFE	1/8" & 1/4"	7	MT.33
CF/2.1/151	SM106 Series	316L SS	1/8" & 1/4"	200	MT.33
CF/2.1/152	STM106 Series	316L SS	1/8" & 1/4"	200	2x MT.33
CF/2.1/152a	STCM106 Series	316L SS	1/8" & 1/4"	200	2x MT.47
CF/2.1/152b	FM201 Series	PTFE	1/4" & 1/2"	7	MT.61
CF/2.1/153	SM202 Series	316L SS	1/4" & 1/2"	10	MT.61
CF/2.1/154	SM206 Series	316L SS	1/4" & 1/2"	200	MT.61
CF/2.1/155	SMD206 Series	316L SS	1/4" & 1/2"	200	MT.61
CF/2.1/156	SML206 Series	316L SS	1/4" & 1/2"	200	MT.61
CF/2.1/157	SM304 Series	316L SS	1/8" & 1/4"	35	MT.89
CF/2.1/158	STM304 Series	316L SS	1/4" & 1/2"	35	2x MT.101
CF/2.1/159	SML304 Series	316L SS	1/4" & 1/2"	35	MT.89
CF/2.1/160	STML304 Series	316L SS	1/4" & 1/2"	35	2x MT.101
CF/2.1/162	FM111 Series - Combination Housing	PTFE	1/8" & 1/4"	7 100	MT.33
CF/2.1/163 CF/2.1/163a	SM115 Series - Combination Housing	316L SS PTFE & Glass	1/8" & 1/4" 1/8" & 1/4"		12.32 & MT.33
	FGM121 Series - Combination Housing	PTFE & Glass		7 7	12.57 & MT.33 12.57 & MT.33
CF/2.1/163b CF/2.1/164	FM121 Series - Combination Housing SM125 Series - Combination Housing	316L SS	1/8" & 1/4" 1/8" & 1/4"	100	12.57 & MT.33
CF/2.1/164 CF/2.1/165	SM215 Series - Combination Housing	316L SS	1/6 & 1/4	100	25.64 & MT.61
CF/2.1/166	SM235 Series - Combination Housing	316L SS	1/4" & 1/2"	100	25.178 & MT.61
Stainless	Steel Cyclone Filter Housings				
- Julianie J	Housing Type	Material	Port Size	Pressure (Bar)	Filter Disc Size
CF/2.1/169	STW106 Series	316L SS	1/8" & 1/4"	200	2x FD.33
CF/2.1/170	SW205 Series	316L SS	1/4" & 1/2"	100	FD.64
CF/2.1/171	STW406 Series	316L SS	1/4" & 1/2"	200	2x FD.101
Aluminiu	m Filter Housings: 1/8" to 1/2" Li	ine Sizes			
	Housing Type	Material	Port Size	Pressure (Bar)	Element Size
CF/2.1/200	AN112 Series	AL & PA	1/8" & 1/4"	10	12.32
CF/2.1/201	AA113 Series	AL & PA	1/8" & 1/4"	17	12.32
CF/2.1/202	AN122 Series	AL & PA	1/8" & 1/4"	10	12.57
	AA123 Series	AL & PA	1/8" & 1/4"	17	12.57
CF/2.1/203			, .		
CF/2.1/203 CF/2.1/204	AN212 Series	AL & PA	1/4" & 1/2"	10	25.64
			1/4" & 1/2" 1/4" & 1/2"	10 10	25.64 25.64
CF/2.1/204	AN212 Series	AL & PA			
CF/2.1/204 CF/2.1/205	AN212 Series AiN212 Series	AL & PA AL & PA	1/4" & 1/2"	10	25.64

	Aluminiu	m Filter Housings: 1/8" to 1/2	"Line Sizes			
GFP12/108	Aldillillidi			Port Size	Pressure (Bar)	Filter Disc Size
Nousing Type	CF/2.1/208			1/8" & 1/4"		25.64
Housing Type	CF/2.1/209	AN232 Series	AL & PA	1/4" & 1/2"	10	25.178
CFP2.1212	Aluminiu	m Filter Housings: 1/8" to 1/2	" Line Sizes			
CFP2,1/2121   AA233 Series		Housing Type	Material	Port Size	Pressure (Bar)	Element Size
CF21_1/212   AlA233 Series	CF/2.1/210	AiN232 Series	AL & PA	1/8" & 1/4"	10	25.178
FCP2,1213   AA323 Series	CF/2.1/211	AA233 Series	AL & PA	1/4" & 1/2"	17	25.178
CF/21/214   Ala323 Series						25.178
CFP2.1/216						38.152
CF/21/215   AA423 Series						38.152
CF2,1/216						38.152
CF/2,1/218   AA433 Series						51.476 51.230
Aluminium End-of-Line Filter Housings						51.230
Note						51.476
Housing Type				141/2 42	.,	3.,.,,
CF2.1/221 AC Series	Alummu			Dout Cine		Flowert Circ
CF/2.1/221   AO Series	CE/2 1/220	3 /.				
Aluminium Filter Regulators						12.32 to 25.178
Housing Type			//_	170 to 172		12.32 to 23.170
CF/2.1/225   RAN112 Series - Filter Regulator   AL & PA   1/8" to 1/4"   17   17   17   17   17   17   17   1	Aluminiui					
CF2.1/226   RAA 113 Series - Filter Regulator   CF2.1/227   RAN 123 Series - Filter Regulator   AL & PA   1/8" to 1/4"   10   10   17   17   17   17   17   17	CE /2 4 /225	3 7.				Element Size
CF/2.1/228   RAN122 Series - Filter Regulator   AL & PA   1/8" to 1/4"   10   17   17   17   17   17   17   17		_				12.32
CF/2.1/228   RAA123 Series - Filter Regulator   AL   1/8" to 1/4"   17   17   17   17   17   17   17   1						12.32 12.57
Housing Type		3				12.57
Housing Type   BB213 Series   Brass   1/4" to 1/2"   17   27   27   27   27   27   27   27			AL.	170 to 174	17	12.57
PTFE Filter Housings	Brass Filte					
Possure   Pressure	CE/2 1/250					Element Size 25.64
Housing Type			Didss	1/4 (0 1/2	17	23.04
CF/2.1/300   FF111 Series   PTFE   1/8" & 1/4"   7   7   7   7   7   7   7   7   7	PIFEFIIte					
CF/2.1/301   FF121 Series   PTFE   1/8" & 1/4"   7   7   7   7   7   7   7   7   7						Element Size
CF/2.1/302         FG121 Series         PTFE breadlass         1/8" & 1/4" breadlass         7         1           CF/2.1/303         FF211 Series         PTFE breadlass         1/4" & 1/2" 7         7         2           CF/2.1/304         FG211 Series         PTFE breadlass         1/4" & 1/2" 7         7         2           CF/2.1/305         FF231 Series         PTFE breadlass         1/4" & 1/2" 7         7         25           CF/2.1/306         FG231 Series         PTFE breadlass         1/4" & 1/2" 7         7         25           Polyamide (Nylon) Filter Housings           Housing Type         Material         Port Size Pressure (Bar)         Element           CF/2.1/310         NN112 Series         PA 1/8" & 1/4" 10         10           CF/2.1/311         NN122 Series         PA 1/8" & 1/4" 10         10           CF/2.1/311         NN122 Series         PA 1/8" & 1/4" 7         7         12.32 & 12           CF/2.1/312         NL121 Series         PA 1/8" & 1/4" 7         7         12.32 & 12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12 <td></td> <td></td> <td></td> <td></td> <td></td> <td>12.32</td>						12.32
CF/2.1/303         FF211 Series         PTFE         1/4" & 1/2"         7         2.7           CF/2.1/304         FG211 Series         PTFE & Glass         1/4" & 1/2"         7         2.5           CF/2.1/305         FF231 Series         PTFE         1/4" & 1/2"         7         2.5           CF/2.1/306         FG231 Series         PTFE & Glass         1/4" & 1/2"         7         2.5           Polyamide (Nylon) Filter Housings           Housing Type         Material         Port Size         Pressure (Bar)         Element           CF/2.1/310         NN112 Series         PA         1/8" & 1/4"         10						12.57 12.57
CF/2.1/304   FG211 Series   PTFE & Glass   PTFE &						25.64
CF/2.1/305   FF231 Series   PTFE   1/4" & 1/2"   7   25						25.64
Polyamide (Nylon) Filter Housings						25.178
Housing Type		FG231 Series	PTFE & Glass	1/4" & 1/2"		25.178
Housing Type	Polyamid	e (Nylon) Filter Housings				
CF/2.1/310       NN112 Series       PA       1/8" & 1/4"       10         CF/2.1/311       NN122 Series       PA       1/8" & 1/4"       10         CF/2.1/311a       NN122.F Series       PA       1/8" & 1/4"       10         CF/2.1/312       NL121 Series       PA       1/8" & 1/4"       7         CF/2.1/313       NL141 Series       PA       1/8" & 1/4"       7       12.32 &         CF/2.1/314       NT Series       PA       1/8" & 1/4"       7       12.32 &         CF/2.1/315       NNS Series       PA       1/8" & 1/4"       7       25.30 &         CF/2.1/316       NN212 Series       PA       1/4" & 1/2"       10         CF/2.1/316a       NN212.F Series       PA       1/4" & 1/2"       10         CF/2.1/317       NN232 Series       PA       1/4" & 1/2"       10       2         Polypropylene Filter Housings         Material       Port Size       Pressure (Bar)       Element         CF/2.1/320       PP111 Series       PP       1/8" & 1/4"       7         CF/2.1/322       PP211 Series       PP       1/4" & 1/2"       7         CF/2.1/323       PP231 Series       PP       1/4" & 1/2"	Toryumu		Material	Port Size	Pressure (Rar)	Element Size
CF/2.1/311       NN122 Series       PA       1/8" & 1/4"       10         CF/2.1/311a       NN122 F Series       PA       1/8" & 1/4"       10         CF/2.1/312       NL121 Series       PA       1/8" & 1/4"       7         CF/2.1/313       NL141 Series       PA       1/8" & 1/4"       7       12.32 &         CF/2.1/314       NT Series       PA       1/8" & 1/4"       7       12.32 &         CF/2.1/315       NNS Series       PA       1/8" & 1/4"       7       25.30 &         CF/2.1/316       NN212 Series       PA       1/4" & 1/2"       10       10         CF/2.1/316a       NN212 F Series       PA       1/4" & 1/2"       10       2         CF/2.1/316a       NN212 F Series       PA       1/4" & 1/2"       10       2         CF/2.1/317a       NN232 Series       PA       1/4" & 1/2"       10       2         Polypropylene Filter Housings         Material       Port Size       Pressure (Bar)       Element         CF/2.1/321       PP121 Series       PP       1/4" & 1/2"       7       2         PVDF Filter Housings         Material       Port Size       Pre	CF/2 1/310					12.32
CF/2.1/311a       NN122.F Series       PA       1/8" & 1/4"       10         CF/2.1/312       NL121 Series       PA       1/8" & 1/4"       7         CF/2.1/313       NL141 Series       PA       1/8" & 1/4"       7       12.32 &         CF/2.1/314       NT Series       PA       1/8" & 1/4"       7       12.32 &         CF/2.1/315       NNS Series       PA       1/8" & 1/4"       7       25.30 &         CF/2.1/316       NN212 Series       PA       1/4" & 1/2"       10         CF/2.1/316a       NN212.F Series       PA       1/4" & 1/2"       10         CF/2.1/317       NN232 Series       PA       1/4" & 1/2"       10       2         Polypropylene Filter Housings         Material       Port Size       Pressure (Bar)       Element         CF/2.1/320       PP111 Series       PP       1/8" & 1/4"       7         CF/2.1/321       PP121 Series       PP       1/4" & 1/2"       7         CF/2.1/323       PP231 Series       PP       1/4" & 1/2"       7       2         PVDF Filter Housings         Material       Port Size       Pressure (Bar)       Element         C						12.57
CF/2.1/312         NL121 Series         PA         1/8" & 1/4"         7           CF/2.1/313         NL141 Series         PA         1/8" & 1/4"         7         12.32 & CF/2.1/314         NT Series         PA         1/8" & 1/4"         7         12.32 & CF/2.1/315         NNS Series         PA         1/8" & 1/4"         7         25.30 & CF/2.1/315         NNS Series         PA         1/8" & 1/4"         7         25.30 & CF/2.1/316         NN212 Series         PA         1/4" & 1/2"         10						. 2.07
CF/2.1/314       NT Series       PA       1/8" & 1/4"       7       12.32 & CF/2.1/315       NNS Series       PA       1/8" & 1/4"       7       25.30 & CF/2.1/316       NN212 Series       PA       1/4" & 1/2"       10 <td< td=""><td>CF/2.1/312</td><td>NL121 Series</td><td>PA</td><td></td><td>7</td><td>12.57</td></td<>	CF/2.1/312	NL121 Series	PA		7	12.57
CF/2.1/315       NNS Series       PA       1/8" & 1/4"       7       25.30 & 25.30	CF/2.1/313	NL141 Series	PA	1/8" & 1/4"	7	12.32 & 12.35
CF/2.1/316       NN212 Series       PA       1/4" & 1/2"       10         CF/2.1/316a       NN212.F Series       PA       1/4" & 1/2"       10         CF/2.1/317       NN232 Series       PA       1/4" & 1/2"       10       2.         Polypropylene Filter Housings         Housing Type       Material       Port Size       Pressure (Bar)       Element         CF/2.1/320       PP111 Series       PP       1/8" & 1/4"       7         CF/2.1/321       PP121 Series       PP       1/8" & 1/2"       7         CF/2.1/322       PP211 Series       PP       1/4" & 1/2"       7         CF/2.1/323       PP231 Series       PP       1/4" & 1/2"       7         PVDF Filter Housings         Material       Port Size       Pressure (Bar)       Element         CF/2.1/330       KK121 Series       PVDF       1/8" & 1/4"       7         CF/2.1/331       KK211 Series       PVDF       1/4" & 1/2"       7	CF/2.1/314	NT Series	PA	1/8" & 1/4"	7	12.32 & 12.57
CF/2.1/316a         NN212.F Series         PA         1/4" & 1/2"         10           CF/2.1/317         NN232 Series         PA         1/4" & 1/2"         10         2           Polypropylene Filter Housings           Housing Type         Material         Port Size         Pressure (Bar)         Element           CF/2.1/320         PP111 Series         PP         1/8" & 1/4"         7           CF/2.1/321         PP121 Series         PP         1/8" & 1/2"         7           CF/2.1/322         PP211 Series         PP         1/4" & 1/2"         7           CF/2.1/323         PP231 Series         PP         1/4" & 1/2"         7         2           PVDF Filter Housings           Material         Port Size         Pressure (Bar)         Element           CF/2.1/330         KK121 Series         PVDF         1/8" & 1/4"         7           CF/2.1/331         KK211 Series         PVDF         1/4" & 1/2"         7	CF/2.1/315			1/8" & 1/4"	7	25.30 & 25.35
CF/2.1/317         NN232 Series         PA         1/4" & 1/2"         10         2.2           Polypropylene Filter Housings           Housing Type         Material         Port Size         Pressure (Bar)         Element           CF/2.1/321         PP121 Series         PP         1/8" & 1/4"         7         7         2         2         2         2         2         2         2         2         2         3         4         4         7         2         2         2         3         4         4         7         2         2         3         4         4         7         2         2         4         4         7         2         2         4         4         7         2         2         4         4         7         2         2         4         4         7         2         4         4         7         2         4         4         7         4         4         7         4         4         7         4         4         7         4         4         7         4         4         7         4         4						25.64
Polypropylene Filter Housings   Housing Type   Material   Port Size   Pressure (Bar)   Element   CF/2.1/320   PP111 Series   PP   1/8" & 1/4"   7   7   7   7   7   7   7   7   7						-
Housing Type			PA	1/4" & 1/2"	10	25.178
CF/2.1/320         PP111 Series         PP         1/8" & 1/4"         7           CF/2.1/321         PP121 Series         PP         1/8" & 1/4"         7           CF/2.1/322         PP211 Series         PP         1/4" & 1/2"         7           CF/2.1/323         PP231 Series         PP         1/4" & 1/2"         7         2           PVDF Filter Housings           Material Port Size Pressure (Bar)         Element           CF/2.1/330         KK121 Series         PVDF         1/8" & 1/4"         7           CF/2.1/331         KK211 Series         PVDF         1/4" & 1/2"         7	Polyprop	ylene Filter Housings				
CF/2.1/321         PP121 Series         PP         1/8" & 1/4"         7           CF/2.1/322         PP211 Series         PP         1/4" & 1/2"         7           CF/2.1/323         PP231 Series         PP         1/4" & 1/2"         7         2           PVDF Filter Housings           Material Port Size Pressure (Bar)         Element           CF/2.1/330         KK121 Series         PVDF         1/8" & 1/4"         7           CF/2.1/331         KK211 Series         PVDF         1/4" & 1/2"         7	CE /2 4 /222					Element Size
CF/2.1/322       PP211 Series       PP       1/4" & 1/2"       7       2         CF/2.1/323       PP231 Series       PP       1/4" & 1/2"       7       2         PVDF Filter Housings         Housing Type       Material       Port Size       Pressure (Bar)       Element         CF/2.1/330       KK121 Series       PVDF       1/8" & 1/4"       7         CF/2.1/331       KK211 Series       PVDF       1/4" & 1/2"       7						12.32
CF/2.1/323         PP231 Series         PP         1/4" & 1/2"         7         2.0           PVDF Filter Housings           Housing Type         Material         Port Size         Pressure (Bar)         Element           CF/2.1/330         KK121 Series         PVDF         1/8" & 1/4"         7           CF/2.1/331         KK211 Series         PVDF         1/4" & 1/2"         7						12.57
PVDF Filter Housings           Housing Type         Material         Port Size         Pressure (Bar)         Element           CF/2.1/330         KK121 Series         PVDF         1/8" & 1/4"         7           CF/2.1/331         KK211 Series         PVDF         1/4" & 1/2"         7						25.64 25.178
Housing Type         Material         Port Size         Pressure (Bar)         Element           CF/2.1/330         KK121 Series         PVDF         1/8" & 1/4"         7           CF/2.1/331         KK211 Series         PVDF         1/4" & 1/2"         7			rr	1/4 0x 1/2	/	23.170
CF/2.1/330       KK121 Series       PVDF       1/8" & 1/4"       7         CF/2.1/331       KK211 Series       PVDF       1/4" & 1/2"       7	PVDF FIIt					
CF/2.1/331 KK211 Series PVDF 1/4" & 1/2" 7	CE/2.1/222					Element Size
						12.57
C1/211/332 M(23.1.3CHC) 1/4 \(\alpha\) 1/2 / 2						25.64 25.178
	CI / Z. I/ 33Z	MAZJ I JEHES	FVDF	1/7 Q 1/Z	,	23.170

# **Housing Advantages**

### **Why Classic Filters?**

Our high-quality filter housings and elements enable the effective and efficient removal of contaminants from both gas and liquid applications. From coalescing to particulate filtration, we ensure that, for whatever purpose our filters are used, they perform to unrivalled standards.

#### **Filter Element Selection**



A huge range of filter element types and grades give increased flexibility.

Our filter housings and elements are available in a wide variety of materials, delivering you a robust, tailor-built filtration solution to suit your particular requirements. Materials include:

- 316L Stainless Steel
- Aluminium
- PTFE

Nylon

- Polypropylene
- PVDF

- Hastelloy
- Monel
- Titanium

- Brass
- Duplex
- Inconel

### **Special or Custom Products**

Need an unconventional or bespoke filter element and housing?

#### No problem.

Our skilled designers and engineers will work alongside you to build a custom-made solution that suits your particular filtration requirements and specifications. Get in touch today for a no obligation consultation on how we can meet your needs.

**Special Materials** With a plethora of materials, from the most exotic metals through to standard aluminium and ordinary nylon, we can design and manufacture the most suitable filter housings and elements to suit you and your company's needs. We specialise in exotic materials such as, Hastelloy, Monel, and Titanium.

**Special Ports** Threaded ports and flange connections can be manufactured to specification, ensuring you receive a filter that fits seamlessly with your existing instruments and machinery.



# **Particulate & Coalescing Filtration**

### **Types of Filtration**

Our high-quality filter housings and elements enable the effective and efficient removal of contaminants from both gas and liquid applications. From coalescing to particulate filtration, we ensure that, for whatever purpose our filters are used, they perform to unrivalled standards.

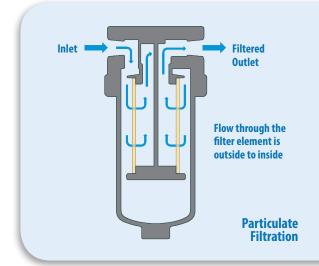
#### **Particulate Filtration**

If particulate filtration is what you need, we offer a huge selection of robust, effective solutions to meet - and in some cases exceed - your requirements.

The service life of our high-efficiency filter elements are maximised thanks to superior design and engineering, so you can be sure of the most cost-effective, durable solution to your filtration needs.

Essentially, particulates are removed from gas and liquids using a two-port filter housing and particulate-type filter element specifically designed for this purpose.

Support cores should be used with a disposable filter element in liquid filtration applications.



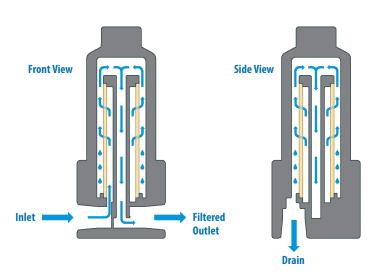
### **Coalescing Filtration**

Processes and systems that require the separation of liquid aerosols and droplets from gas need a coalescing filter.

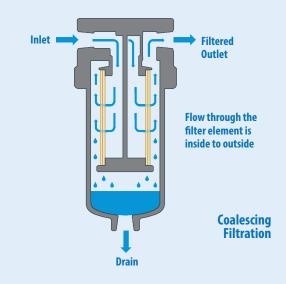
This type of filter element essentially comprises of two parts, an inner and an outer layer. The inner layer consists of a high-efficiency coalescing stage whilst the outer layer is a courser stage used for drainage.

Any liquid aerosols or droplets are caught within the fine fibres of the inner layer, eventually accumulating to the extent that they are forced to the outer layer of the filter element and in to the 'bowl' of the housing.

Our SV series coalescing housings offer a super-efficient filtration solution with the benefit of an inverted position of the housing ensuring easy servicing without disconnecting the drain port fittings.



As well as our standard stocked housings, we offer a service to create custom housings to suit your application. Just let us know what you need.



Coalescing filters can be seen as multifunctional filtration solutions thanks to their ability to filter particulates just as efficiently as they coalesce aerosols and droplets. Meaning, if you have an application that requires both types of filtration, a coalescing filter is ideal.

# **Stainless Steel Filter Housings**

With the widest selection of stainless steel filter housings available, Classic Filters is almost certain to have the housing that meets your particular needs. If not, we'll build you one from scratch.

As well as our standard filter housings, we also offer custom-made filter housings in plastic to suit your OEM or special application. While we traditionally supply the instrumentation and analyser sample system markets, our filters can be used is a huge range of industries and applications

Constructed entirely from 316L stainless steel, all our stock stainless steel filter housings are free of welds to comply with NACE MR-01-75. Each filter housing has a serial number to offer complete traceability of the material right back to the mill. Material certificates to EN 10204-3.1 can be supplied with the filter housing.



### High Pressure to 1400 bar

With ports from 1/8" to 2" NPT and pressure ratings up to 1400 bar available from stock, our filter housings can be used in a wide range of environments and situations. Houisngs can also be used in vacuum applications.

### **CE Marks and the Pressure Equipment Directive**

All our filter housings comply with the requirements of the Pressure Equipment Directive (2014/68/EU) and have CE marks if required. Non CE marked housings conform to SEP requirements. We can even produce a one-off special with CE marks.

#### **Exotic Materials**

Need something more exotic than 316L stainless steel? No matter how exotic your requirements, Classic Filters can supply materials to match. We can produce housings in a range of materials including Titanium, Hastelloy, Monel, Duplex, Super Duplex, and Inconel. Just let us know your requirements.

### **Filter Housing Options**

A range of filter housing options can be supplied, including various seal types, as well as special port configurations, extra ports, special lengths and other design features.





Filter housings can also be supplied with Pyrex glass bowls for visual monitoring of the filter element. These are suitable for applications up to 7 bar.

# **Fast Loop Filters**

Fast loop filters are ideally suited to heavily contaminated applications since the element is thoroughly and continuously flushed by the high flow-rate stream through the housing.

Again, the cost-effectiveness and service-life of your filter element are our main concern, ensuring only the low-flow stream to the analyser is being filtered.

### **Traditional Bypass Filtration**

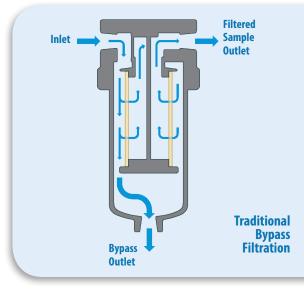
Our fast-loop filtration solutions go against the grain of the traditional three-port T-shape filter design, bringing with it the advantages of continued flushing on the filter element to remove heavy contaminants downstream. A reduced housing volume improves the response time.



Filtered Sample Outlet

Fast Loop Filtration

If you still want to use the traditional style of housing in your system - no problem, our T-shaped housings can still be used.

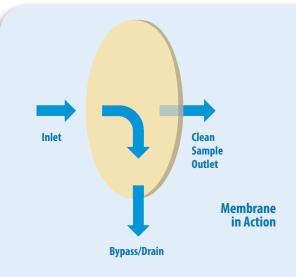


# **PTFE-Membrane Housings**

One of our most innovative filtration solutions available, PTFE membranes are perfectly suited for separating liquid from gas molecules, allowing for a pure gas sample to be produced for the protection of analysers and other instruments. We can also separate two liquid phases if required.

A porous PTFE membrane is supported by a sintered, porous stainless steel disc on the outlet side.





The effective combination of carefully manufactured components prevents 100% of liquid molecules from flowing through the membrane; allowing only molecules of gas to pass. Any liquid removed flows through to the drain port. This port can also be used as a bypass function for the main flow.

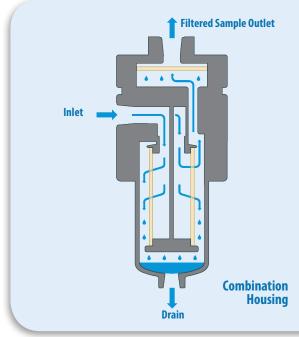
A range of membranes designed to separate two liquid phases are also available as well as a hydrophobic/oleophobic membrane to remove water and oils from a gas stream.

# Combination Housing with Filter Element and Membrane

When used in conjunction with a filter element, the service-life of the PTFE membrane can be extended significantly, allowing the filter element to remove the bulk of the liquid before it reaches the membrane.

Just ask us about 'combination filters' when you get in touch.





# **PTFE-Membrane Housing Options**

### **Liquid Block**

This option will stop the flow of the gas sample through the PTFE if the differential pressure becomes too high.

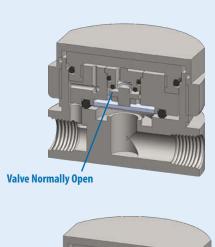
If the PTFE membrane becomes flooded, the increase in pressure drop can cause liquid to be forced through the membrane.

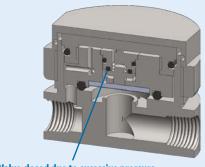
The valve in the housing plug will automatically close when a high differential pressure occurs and shut off the flow.



#### **Ordering information**

To order a membrane housing with this option , simply add the suffix .LB to the housing designation; so for example SM106.221.LB





Valve closed due to excessive pressure drop across face of the PTFE membrane

**Liquid Block Valve in Action** 

### **Twin Support Discs**

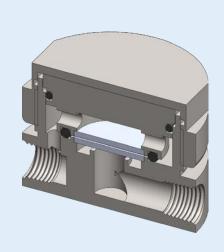
On standard membrane housings the PTFE membrane is supported by a sintered, porous stainless steel disc on the outlet side. The Twin Disc option adds another sintered support disc to the front face of the PTFE membrane.

If the flow is reversed during normal operation there is a chance that the PTFE membrane can be damaged. The second support disc on the front face of the membrane will keep it in place and prevent any damage.

#### **Ordering information**

To order a membrane housing with this option, simply add the suffix .TD to the housing designation; so for example SM106.221.TD

As well as our standard stocked housings, we offer a service to create custom housings to suit your application. Just let us know what you need.



Twin Support Disc Option

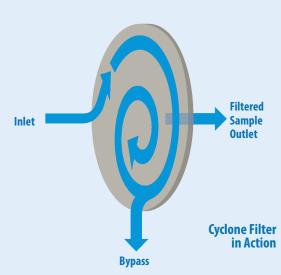
# **Cyclone Filter Housings**

Our cyclone filter housings are one of the most innovative, low-maintenance solutions for liquid bypass filtration.

The contaminated sample initially enters an angled inlet port, creating a cyclone effect in which the contaminants are filtered via a filter disc. Any particulates are blocked by the filter disc and carried to the bypass port at the bottom of the housing. The clean sample is allowed to pass through the sintered stainless steel filter disc to the sample outlet port.







Due to this cyclone effect, the filter disc is kept clean for a long period of time, extending the period required between service intervals when compared to standard filters.

Even when a service is due, the procedure is incredibly quick thanks to the 'threaded cap' design of the housing, allowing for easy access to, and replacement of, the filter disc.

### **Stainless Steel Filter Discs**

Our stainless steel filter discs are ultra-durable solutions to particulate filtration, especially in liquid applications. Several layers of 316 mesh are sintered together to form an integrated porous filter, with coarse mesh providing support and protection to the finer, central mesh.

Filter discs are stocked in grades, 1, 2, 5, 10, 20, 40, 100, and 200 micron.



# **Catchpot & Bubbler Applications**

### **Catchpots**

This clever accessory is ideal for highly contaminated applications, allowing you to overcome the common problem of flooding within your coalescing filter elements if large slugs of liquid are present.

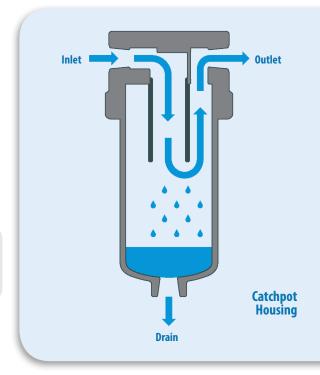
Catch pots essentially 'catch' the bulk of the liquid contaminant before it reaches the filter, hence the name 'catchpot'.

We can modify any of our existing selection of filter housing to accommodate a catchpot tube, or we can build a completely unique catchpot from scratch.

Whatever your requirements, we can deliver.

#### **Ordering information**

To order a catch pot on one of our existing housing designs, simply add the suffix .CP to the housing designation; so for example SS127.221.CP or AA213.461.CP



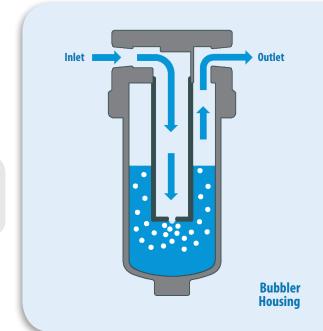
### **Bubblers**

Bubblers are another accessory that we offer on our existing housing range and also within custom-built filtration solutions.

These appropriately named, innovative pieces of equipment allow gas to pass through liquid. A typical example would be to maintain a relative humidity in a sample through added liquid in vapour form.

#### **Ordering information**

To order a bubbler on one of our existing housing designs, simply add the suffix .BB to the housing designation; so for example SS127.201.BB or AA213.461.BB



Low or negative pressure gas sample systems can be problematic when it comes to removing the coalesced liquids from the 'bowl' of the housing. Dismantlement of a filter housing, in this situation, would lead to a temporary lack of pressure in the system.

That's why we offer a purpose-built drain vessel installation to suit most of our existing range of filter housings.

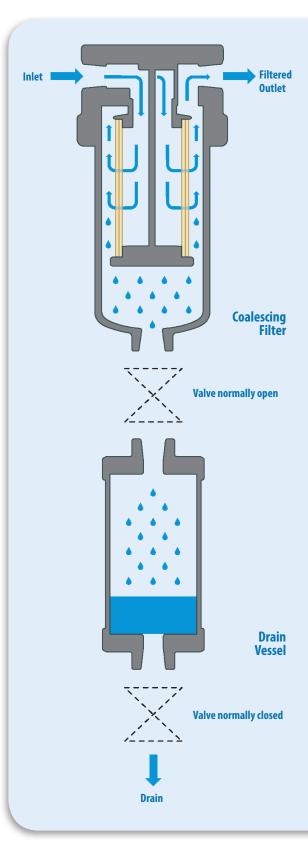
These carefully designed vessels allow for the isolation of liquid contaminants, whilst avoiding any negative impact on system.

Drain vessels can also be used in other applications in order to expand the volume of waste liquid that filter housings can hold, thus extending the requisite time between service intervals.



Facing the same problem with a high-pressure application?

We can manufacture drain vessels for this purpose too; get in touch for a no-obligation chat.



## **Automatic Float Drains**

# To remove liquids automatically, from a system with a positive pressure, we have two solutions -

The DF105 series automatic float drain uses a unique diaphragm operated valve and is constructed entirely from 316L stainless steel for use in corrosive applications.

Water drains from the coalescing housing into the drain body and as the water level increases a float controls the diaphragm operation of the valve. Once the water is drained, the float returns to the rest position and the valve closes.





For lower pressure non-corrosive applications, the DN103 series automatic float drain uses a self-contained plastic float mechanism to remove water in a similar way to the DF105 series.

# **SBF Flanged Housings**

# The SBF flanged housings are designed to be weld-free. The heads are machined from solid stainless steel bar.

By removing the welding process, the costly additional documentation, approvals and testing for CE marking are eliminated.

Various flange types and pressure rating are offered as standard. Sizes from 1/2" up to 2" can be produced.





Several flange types and sizes are available as standard designs and are based on our SS series housings

### **Special Designs**

Need an unconventional or bespoke housing?

No problem.

Our skilled designers and engineers will work alongside you to build a custom-made solution that suits your needs.

Just let us know what you need.

### Flange Types Available Include -

- ASME/ANSI B16.5 1996 Pipe Flanges and Flanged Fittings
- British Standard BS 4504 Section 3.1:1989 Circular Flanges for Pipes, Valves and Fittings
- SAE J 518 C SAE Flanges Standard

# **Heatable Housings**

These housings are specifically engineered for hot gas analysis, in particular, diesel exhaust – this gas has an especially high dew-point, so to prevent condensation during analysis, the sample must be heated.

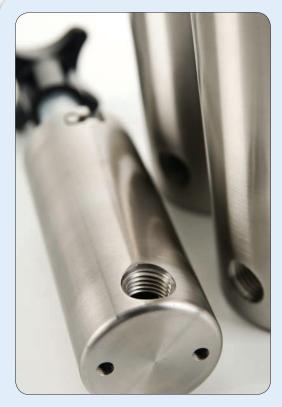
In essence then, these housings offer the same level of quality as all our stainless steel housings, but with the added benefits of a housing designed for a specific application.

Filter elements used in heatable housings can be replaced quickly and easily (even at operating temperatures) thanks to a quick-release bayonet connection, thus minimising disruption to your analysis and operations.

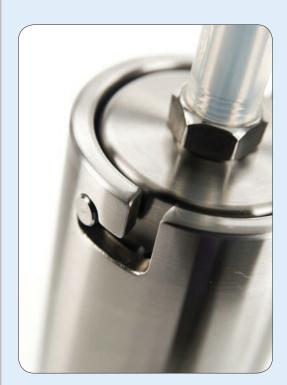
Optional configurations of the ports and internals include a support core or a tie rod and element retainer.

Disposable, S-type filter elements are perfect for heated applications when used in tandem with Heatable Housings





Several port and internal options are available and housings have threaded mounting bracket holes as standard



Quick-release bayonet connection for the head to bowl

# **Aluminium Filter Housings**

If you use compressed air for instrument or industrial applications, efficiency and flow-rate are of paramount importance. Aluminium filter housings for particulate and coalescing filter applications

Classic Filters' high-efficiency aluminium filter housings are purpose built for compressed air applications in mind. With a wide selection of port sizes and pressure ratings available, we will provide a high efficiency filtration solution to suit your application requirements.

### **Special Filter Housings and OEM Applications**

Does your application have special filter requirements? As well as our standard housings we also offer bespoke filter housings manufactured in aluminium and plastics to suit your OEM product or special application. Contact our team with your requirements today.

### **High Pressure to 250 bar**

With ports ranging from 1/8" to 2" NPT and pressure ratings from 7 to 35 bar available from stock, our filter housings can be used in a wide range of environments and situations. Of course, if you need very high pressures, we have produced aluminium filter housings up to 250 bar and our stainless steel filter housings for higher pressures are also available.



### **Catchpot Housings**

If there is a high chance of bulk liquid flowing through the line with the compressed air to the coalescing filter, it is good practice to use a catchpot before the coalescing filter to increase the performance and prevent the filter element from flooding.

### **Filter Housing Options**

A range of filter housing options can be supplied with a variety of seal types and other options to suit your needs.



### **Special Designs?**

Need an unconventional or bespoke housing?

No problem.

Let our skilled designers & engineers take care of every aspect including:

- Port Sizes
- OEM Labeling
- Differential Pressure Indicators
- Automatic/Manual Drains
- Sealing Types

# **Plastic Filter Housings**

Available in Nylon, Polypropylene, PTFE or PVDF, Classic Filters offer a range of low-cost plastic filter housing solutions that deliver high-performance corrosion resistance.

### **Materials: PA, PP, PTFE and PVDF**

PTFE filter housings are machined from solid PTFE bar and have a 316L stainless steel collar on the outside of the head to increase the strength of the head to bowl connection. When the PTFE filter housings are used with our PTFE filter elements, a 100% PTFE filter solution is available. Other plastic filter housings are moulded in quality, high-performance materials

Our plastic filter housings are ideal for emissions and environmental filter applications as well as other OEM filter applications requiring a low-cost solution. They can be used for both particulate and coalescing applications. They can be supplied as catchpots and bubbler housings. They can also be fitted with adsorber cartridges.

Port sizes from 1/8" up to 1/2" help to offer great flexibility from this range of products and the can be supplied with or without drain ports.



### **Special Filter Housings and OEM Applications**

Does your application have special filter requirements? In addition to standard filter housings, Classic Filters offers custom-made filter housings based on our proven NL, NT and NNS housings that are ideal for OEM or special applications.

Let us know what you need.





NNS241.211 Filter Housing for Automotive Emissions Analysis

# **Float Valve Housing**

Float valve housings are an essential filtration tool when gas is being drawn to an analyser or other instrument, preventing the carry-over of bulk liquids. Normally these are used after coalescing filter housing as a safety device.



#### **Ordering information**

Two sizes of plastic housing can be supplied: The small NN122 or the larger capacity NN212.

To order this type of housing, simply add the suffix .F to the housing part number; so for example NN122.161.F or NN212.261.F

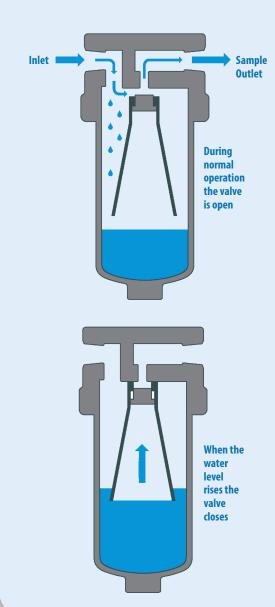
A small 316L stainless steel housing using a PVDF float is also available, the SS125.F series, and as well as our standard stocked housings we offer a service to create custom housings to suit your application. Just let us know what you need.

#### How they work:

As liquid is collected in the bowl, the level start to rise, gas becomes trapped in the open-end of the float and it too starts to rise.

The entire float assembly then begins to move upwards and eventually closes the valve and shuts off the flow to the analyser. This loss of flow is then detected and an alarm is sounded.

Without the float valve, the flow remains open to the analyser, substantial damage could be caused through the transmission of liquid into the analyser. Float valve housings can therefore protect you from costly repairs.



## **Differential Pressure Indicators**

These housings are specifically engineered to offer an indication of the differential pressure across the filter element. They offer a cost effective method of monitoring the service life and prevent costly failures due to lack of maintenance.

The SiS series housings feature a visual indication. A plunger sealed by an o-ring separates an area of the head into two chambers. A spring causes the plunger to take up its home position when the pressure difference is zero.

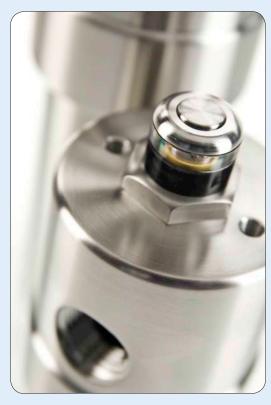
As the pressure difference increases, the plunger is forced to move against the spring. At the same time, an indicator disc is moved magnetically. The indicator will show yellow when the differential pressure is 0.25 bar and red when it reaches 0.5 bar.

The SeS series housings use the same mechanical system as the SiS, except the two reed contact switches are actuated.

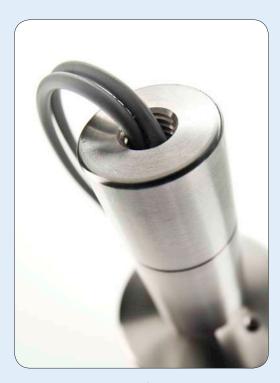
As well as our standard housings, we offer a service to create custom housings to suit your application.

Just let us know what you need.





The SiS series housings feature a visual indicator



The SeS series housings offer electrical control

### **Sealing Options**

Filter housings are mostly fitted with Viton o-ring style seals as standard. We have a number of sealing options that can be specified and the housings delivered with the seals installed.

For alternative seals, a suffix is added to the filter housing part number, for example if you require a SS127.221 filter housing with an EPDM seal add .E to give SS127.221.E - if a standard seal is required do not add the suffix

Refer to the filter housing data sheets for information about the seals types available for each housing.

Please consult us for any special requirements.



<b>Types of Seals</b>	Types of Seals					
Suffix	Name	Туре	Temp. Range			
.v	Viton	Fluorocarbon	- 30°C to +200 °C			
.c	Chemraz	Perfluorelastomer	- 18°C to +324°C			
л	PTFE	FEP Encapsulated (1)	- 60°C to +200 °C			
л	PTFE	Solid PTFE <sup>(1)</sup>	- 260°C to +200 °C			
.К	Kalrez	Perfluorelastomer	- 50°C to +316°C			
.s	Silicone	Silicone	- 60°C to +230°C			
.R	Neoprene	Chloroprene-Neoprene	- 45°C to +100°C			
.E	EPDM	Ethylene-propylene	- 55°C to +150°C			
.N	Nitrile	Buna N-Nitrile	- 35°C to +110°C			

<sup>(1)</sup> Please note that some housing designs can only use the FEP encapsulated seals

### **Mounting Brackets**

Mounting brackets can be supplied for all filter housings making the installation process quicker and easier. All our mounting brackets are supplied with screws and washers to join them to the housing so only fixings for the panel or wall are required.

Use of a mounting bracket will avoid excessive loads on the fittings and piping.

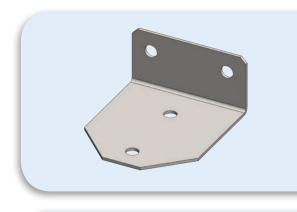
All mounting brackets are constructed in stainless steel giving superior corrosion resistance in wet areas.

### **Support Cores**

When using disposable filter elements in a liquid application, a support core should be used to increase the strength of the filter elements.

Plastic and aluminium housings have a built in support, but stainless steel housings will need to use the optional extra support.

The SC series support cores are constructed from 316L stainless steel.





# **Selecting the Correct Filter Housing**

### **How to select the Correct Filter Housing -**

The wide range of filter housing and element combinations enable us to supply the most suitable equipment for your application and specifications.

To select the correct filter housing and element, the following information about the application is required -

1	Maximum pressure
2	Maximum temperature
3	Chemical & physical composition of the sample
4	Type of duty: inlet, particulate, coalescing, bypass, membrane
5	Contaminants to be removed
6	Maximum flow rate
7	Line size and port type
8	Level of filtration required
9	Relative importance of cost, response time, service life and interval

Items 1, 2 and 3 will determine the materials of construction of the filter housing, including the element and seals. Filter housings are available in a wide variety of materials to ensure there is a product for even the most specialised applications. As well as our range of standard materials a wide range of exotic materials are also available.

Item 4 will determine the configuration of the housing, one port for inlet filters, two ports for in-line housings and three ports for coalescing, bypass or fast loop housings.

Items 5, 6, 7, 8 and 9 will establish the most appropriate size of filter. This is generally a compromise between those factors favouring a small filter (fast response time, smallest space requirement, lowest cost, minimised adsorption losses) and those factors favouring a large filter (long service intervals, low pressure drop). The exact choice will therefore depend on the relative importance of these factors in each particular application.



#### **Additional Assistance**

Our representatives have a vast experience of specifying successful installations and we will be pleased to help you select the best solution for your filtration problem.

We also have an Applications Form available for you to complete and return and this will ensure we have all the information required to make a selection for your individual application.

#### **Service Intervals**

A disposable microfibre filter element continues to filter at its original efficiency as long as it is kept in service. The life of the element is determined by the increase in flow resistance caused by trapped solids. The element should be changed when the flow falls below an acceptable level, or the pressure drop becomes too high. In any case the element should be replaced before the pressure drop across it reaches 0.7 Bar. The disposable microfibre filter elements cannot be cleaned as the solids are trapped within the depth of the element not on the surface.

### **Installing the Filter Housing**

Given that filter housing is a pressure vessel, any connections and accessory outlets must be leak-tight.

Therefore, a good pipe sealant (PTFE tape, paste etc.) should be used on all fittings prior to connecting the filter housing ports. This will also allow for disassembly at a later time, if required.

Wherever possible, installation of filter housings should be made using an appropriate mounting bracket to avoid excessive loads on the piping.

Full installation instructions are included with each filter housing.

Materials 316L SS
Pressure 350 Bar
Ports 1/8" or 1/4"

The DS127 drain vessels are specified to increase the housing capacity in coalescing applications where an automatic float drain cannot be used. The housings are constructed from 316L stainless steel.

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 and are CE marked in accordance with PED 2014/68/EU.

These housings can also be supplied in a wide range of exotic materials, such as Hastelloy, Monel, Titanium etc.





### **Technical Specifications**

Housing Model	DS127.111	DS127.221
D . (C)	4 (OUND)	4 (All NIDT
Port Size	1/8" NPT	1/4" NPT
Drain	1/8" NPT	1/4" NPT
Maximum Pressure, Bar	350	350
Maximum Temperature, °C (1)	200	200
Materials of Construction (2)		
Head & Bowl	316L SS	316L SS
Seals (3)	Viton	Viton
Principal Dimensions in mm		
Diameter	40	40
Height	114	114
Volume, cc	35	35
Weight, kg	0.35	0.35

#### Notes

- (1) Maximum temperature 200°C using standard seal. For temperatures up to 324°C use a Chemraz 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. DS127.221.T)

Materials 316L SS
Pressure 100 Bar
Ports 1/4" or 1/2"

The DS215 drain vessels are specified to increase the housing capacity in coalescing applications where an automatic float drain cannot be used. They are constructed entirely from 316L stainless steel.

Standard housings have NPT ports and include a Viton seal. 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 and conform to SEP of PED 2014/68/EU.

These housings can also be supplied in a wide range of exotic materials, such as Hastelloy, Monel, Titanium etc.





### **Technical Specifications**

Housing Model	DS215.221	DS215.441
Port Size	1/4" NPT	1/2" NPT
Drain	1/4" NPT	1/2" NPT
Maximum Pressure, Bar (1)	100	100
Maximum Temperature, °C (2)	200	200
Materials of Construction (3)		
Head & Bowl	316L SS	316L SS
Seal (4)	Viton	Viton
Principal Dimensions in mm		
Diameter	63	63
Height	128.5	128.5
Volume, cc	105	105
Weight, kg	1.35	1.35

#### Notes

- (1) Above 200°C the pressure rating is reduced, consult us for the exact rating at any specific temperature
- (2) Maximum temperature 200°C using standard seal. For temperatures up to 324°C use a Chemraz seal
- (3) Material abbreviations, 316L SS = 316L Stainless Steel
- $(4) Add \ suffix for \ other \ seal \ types, PTFE=.T, Chemraz=.C, Nitrile=N, Kalrez=.K, EPDM=.E, Silicone=.S, (e.g. DS215.221.T)$

Materials 316L SS
Pressure 100 Bar
Ports 1/4" or 1/2"

The DS235 drain vessels are specified to increase the housing capacity in coalescing applications where an automatic float drain cannot be used. They are constructed entirely from 316L stainless steel.

Standard housings have NPT ports and include a Viton seal. 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 and conform to SEP of PED 2014/68/EU.

These housings can also be supplied in a wide range of exotic materials, such as Hastelloy, Monel, Titanium etc.





### **Technical Specifications**

Housing Model	DS235.221	DS235.441
Port Size	1/4" NPT	1/2" NPT
Drain	1/4" NPT	1/2" NPT
Maximum Pressure, Bar (1)	100	100
Maximum Temperature, °C (2)	200	200
Materials of Construction (3)		
Head & Bowl	316L SS	316L SS
Seal (4)	Viton	Viton
Principal Dimensions in mm		
Diameter	63	63
Height	241.5	421.5
Volume, cc	255	255
Weight, kg	1.9	1.9
Weight, kg	112	112

#### Notes

- (1) Above 200°C the pressure rating is reduced, consult us for the exact rating at any specific temperature
- (2) Maximum temperature 200°C using standard seal. For temperatures up to 324°C use a Chemraz seal
- (3) Material abbreviations, 316L SS = 316L Stainless Steel
- $(4) Add \ suffix for \ other \ seal \ types, PTFE = .T, Chemraz = .C, Nitrile = N, Kalrez = .K, EPDM = .E, Silicone = .S, (e.g. DS235.221.T)$