



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

MULTI-PORT ANALYZER HOUSING (120B SERIES)

The 120B / 122B 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. The 120B series is a versatile sample process filter, which encompasses the standard features of our 120 series housings, but also has a built in support core.

The B4 model has four ports in the head and one in the bowl. The four head ports allow multi-sample streams to be serviced by one filter assembly or the multiple ports may be used for a gauge, vent, and/or drain.

If using a head port as a drain, the B4 should be installed horizontally, or on a slight incline for the liquid to drain properly. When using the head port as a drain, element service is fast and simple since no connections need to be broken. The built in support core provides extra element stability in liquid streams, and superior collapse safety in heavily contaminated gaseous samples. The filter element merely slips over the core and is held in place by the bowl. An integral mounting bracket is included with the assembly.



Features:

- 316L Stainless Steel Construction
- One Bowl Port
- Traditional T-Type
- Integral Support Core
- Multi Port Model Available

Applications:

- CNG Analyzer Protection
- Sample Process Filter
- Duplicates Foot Pattern of 95S6
- Multi Line Filter

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

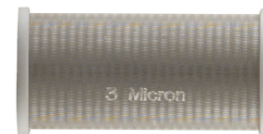
Disposable Microfiber Elements are most commonly used since they offer exceptional filtration, high flows with minimal pressure drops, and excellent chemical compatibility. These are ideal for use in sample conditioning, instrumentation, CNG, and Emission/Environmental service.

- 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, 130P, 130PG, 132P, 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 contaminants. Standard micron sizes available: 10, 25, and 75.

MULTI-PORT ANALYZER HOUSING (120B SERIES)

- Sample Conditioning
- Four Ports Provides Flexibility
- Small Footprint, Fast Response Time, Multi-Ports
- Accepts Microfiber, Stainless Steel, PTFE, & PEL Filter Elements



TECHNICAL INFORMATION

Housing Model	120B	122B	120B4	122B4
Port Size (NPT)	1/8"	1/4"	1/8"	1/4"
Drain Type (NPT)	1/8"	1/4"	1/8"	1/4"
Maximum Pressure (psig)	5000	5000	5000	5000
Internal Volume (cc)	35	35	35	35
Maximum Temp. -Buna-N (250°F)	BN120B	BN120B	BN120B	BN120B
Maximum Temp. -EPDM (300°F)	GE120B	GE120B	GE120B	GE120B
Maximum Temp. -Viton (400°F) Standard	GV120B	GV120B	GV120B	GV120B
Maximum Temp. -Silicone (450°F)	GS120B	GS120B	GS120B	GS120B
Maximum Temp. -Kalrez (600°F)	KZ120B	KZ120B	KZ120B	KZ120B
Weight on Housing (lbs)	1.0	1.0	1.0	1.0
Principle Dimensions: (Inches)				
Center Of Port To Head	0.39	0.39	0.39	0.39
Head Diameter	1.73	1.73	1.73	1.73
Overall Length	3.66	3.66	3.66	3.66
Element Removal Clearance	2.36	2.36	2.36	2.36
Filter Element Codes: (1)				
Disposable Element	12-57-□	12-57-□	12-57-□	12-57-□
Stainless Steel Element	SS-12-57-□	SS-12-57-□	SS-12-57-□	SS-12-57-□
PEL Element	PEL-12-57-□	PEL-12-57-□	PEL-12-57-□	PEL-12-57-□
PTFE Element	PT-12-57-□	PT-12-57-□	PT-12-57-□	PT-12-57-□
Materials Of Construction: (2)				
Head & Internals	316LSS	316LSS	316LSS	316LSS
Bowl	316LSS	316LSS	316LSS	316LSS
O-Rings (Standard)	Viton	Viton	Viton	Viton
Accessories:				
Mounting Bracket	MBSS110	MBSS110	MB120B4 Included	MB120B4 Included

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

Air Line Pressure (PSIG)	120B Series	
	50C	70C
15	3	7
30	4	10
60	7	17
100	11	27
150	15	36
250	23	56
500	44	108
1500	133	330
3000	265	659
5000	468	1118

- Notes: (1) Replace '□' with grade required, e.g. 12-57-50C, 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

Flow Path of Ports: (Multi-Port Housing)

- Port 1: Out to In
- Port 2: Out to In
- Port 3: Out to In
- Port 4: In to Out
- Port 5: Traditional Drain