

# STAINLESS STEEL PROCESS FILTER HOUSINGS

## Features:

- Filter Gases & Liquids
- 316L Stainless Steel Construction
- 1,500 PSIG / 400°F - Standard
- 6,000 PSIG Available
- Flanges Available
- 3-Port Housings For Coalescing
- Particulate, Or Bypass Filtration



Our Gas and Liquid Process Filters protect equipment from sample impurities by removing solids and liquids from gases up to 99.999% efficiency at 0.01 micron. This series of filters is also ideal to use in liquid sample process applications by simply employing our pleated liquid elements, or stainless steel elements. A 1 micron efficiency can be reached in liquids with the aforementioned elements.

To satisfy the extreme wide range of requirements for process sample filters, we supply a complete line of filter elements in stainless steel, polypropylene, and other corrosion-resistant materials. A choice of high efficiency borosilicate microfiber filter elements, which are inert to most liquids and gases, are also offered.

Our 150 and 160 series of high-pressure 316L stainless steel filter housings offer exceptional value and performance. The threaded head to bowl connection with captured o-ring provides positive sealing even in very corrosive and demanding applications. The 1500 PSIG rating covers the majority of gas and liquid applications.

## Applications:

- CNG Filtration
- Blow Molding Equipment
- Gas Production
- Food And Dairy Processing
- High Pressure Liquid Filters

## PRINCIPLE SPECIFICATIONS

Housing Model	150*	151	152
Port Size (NPT)	1"	1 1/2"	2"
Drain Type (NPT)	1/4"	1/4"	1/4"
Maximum Pressure (psig)	1500	1500	1500
Internal Volume (cc)	1500	1500	1500
Maximum Temp. -Buna-N (250°F)	BN150	BN150	BN150
Maximum Temp. -EPDM (300°F)	GE150	GE150	GE150
Maximum Temp. -Viton (400°F)	GV150	GV150	GV150
Maximum Temp. -Silicone (450°F)	GS150	GS150	GS150
Maximum Temp. -Kalrez (600°F)	KZ150	KZ150	KZ150
Principle Dimensions: (inches)			
Center Of Port To Head	1.50	1.85	1.85
Head Diameter	4.52	4.52	4.52
Overall Length	14.75	15.58	15.58
Element Removal Clearance	9.05	9.05	9.05
Filter Element Codes: (1)			
Disposable Element	51-230-□	51-230-□	51-230-□
Stainless Steel Element	SS-51-230-□	SS-51-230-□	SS-51-230-□
PEL Element	PEL-51-230-□	PEL-51-230-□	PEL-51-230-□
PTFE Element	PT-51-230-□	PT-51-230-□	PT-51-230-□
Materials Of Construction: (2)			
Head & Internals	316LSS	316LSS	316LSS
Bowl	316LSS	316LSS	316LSS
O-Rings	Viton	Viton	Viton
Accessories:			
Mounting Bracket	MBSS150	MBSS150	MBSS150
Support Core	SC150	SC150	SC150

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(3)</sup> or 70C <sup>(4)</sup>

Air Line Pressure (PSIG)	150 Series	
	50C	70C
15	38	86
30	56	127
60	93	210
100	151	343
150	209	470
250	319	725
500	650	1450
1500	1897	4152

- Notes: (1) Replace '□' with grade required, e.g. 51-230-50C, PT-51-230-03  
 (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  
 (\*) Also available in 3/4" ports



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Partner of Headline Filters

**SS150-2 / SS160-2**

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## Features:

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- 6,000 PSIG Available
- Flanges Available
- 3-Port Housings For Coalescing
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## Applications:

- CNG Filtration
- Blow Molding Equipment
- Gas Production
- Food And Dairy Processing
- High Pressure Liquid Filters

## PRINCIPLE SPECIFICATIONS

Housing Model (1)	160*	161	162
Port Size (NPT)	1"	1 1/2"	2"
Drain Type (NPT)	1/4"	1/4"	1/4"
Maximum Pressure (psig)	1500	1500	1500
Internal Volume (cc)	2700	2700	2700
Maximum Temp. -Buna-N (250°F)	BN160	BN160	BN160
Maximum Temp. -EPDM (300°F)	GE160	GE160	GE160
Maximum Temp. -Viton (400°F)	GV160	GV160	GV160
Maximum Temp. -Silicone (450°F)	GS160	GS160	GS160
Maximum Temp. -Kalrez (600°F)	KZ160	KZ160	KZ160
Principle Dimensions: (inches)			
Center Of Port To Head	1.18	1.85	1.85
Head Diameter	4.33	4.33	4.33
Overall Length	24.72	25.12	25.12
Element Removal Clearance	19.37	17.87	17.87
Filter Element Codes: (2)			
Disposable Element	51-476-□	51-476-□	51-476-□
Stainless Steel Element	SS-51-476-□	SS-51-476-□	SS-51-476-□
PEL Element	PEL-51-476-□	PEL-51-476-□	PEL-51-476-□
PTFE Element	PT-51-476-□	PT-51-476-□	PT-51-476-□
Materials Of Construction: (3)			
Head & Internals	316LSS	316LSS	316LSS
Bowl	316LSS	316LSS	316LSS
O-Rings	Viton	Viton	Viton
Accessories:			
Mounting Bracket	MBSS150	MBSS150	MBSS150
Support Core	SC160	SC160	SC160

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(4)</sup> or 70C <sup>(5)</sup>

Air Line Pressure (PSIG)	160 Series	
	50C	70C
15	64	87
30	134	154
60	160	221
100	256	354
150	354	488
250	546	754
500	1091	1508
1500	3248	4466

- Notes: (1) The 160 Series is now manufactured with a two piece bowl which makes the housings weld free  
 (2) Replace '□' with grade required, e.g. 51-476-50C, PT-51-476-03  
 (3) Material abbreviations, 316LSS = 316L Stainless Steel  
 (4) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (5) Flow rates for Grade 70C rated at 95% against 0.01 micron  
 (\*) Also available in 3/4" ports

Our wide range of filter element materials and micron sizes allow multiple uses for these housings:

Gas Service Applications:	Liquid Service Applications:
Coalescing and/or Particulate	Particulate
CNG Filtration	High Flow Sample Service
Blow Molding Equipment	Fuel Filtration
Food Plant Caustic Service	Solvents / Coolants
High Pressure Compressor Service	Cryogenic Service
General High Pressure Air Service	Corrosive Environmental Service
Adsorption Cartridges; Carbon, Silica Gel, 13X, etc.	Lubricants
Pleated for High Dirt Holding Capacity	C.I.P. Service (Clean In Place)



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