

STAINLESS STEEL PROCESS FILTER HOUSINGS

- Filter Gases & Liquids
- 316L Stainless Steel Construction
- 1500 PSIG/400°F-Standard
- 10,000 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. However, we do offer these housings with up to a 10,000-psig rating. Simply consult UFS with your details.

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 CNG Filtration Blow Mold Production Food Plant Caustic Service High Pressure Compressor Service General High Pressure Air Service Adsorption cartridges; Carbon, Silica Gel, 13X, 4A, etc. Pleated for high dirt holding capacity | Particulate High Flow Sample Service Fuel Filtration Solvents/Coolants Cryogenic Service Corrosive Environmental Service Lubricants C.I.P. Service (Clean in place) |



United Filtration Systems, Inc ▪ 6558 Diplomat Drive ▪ Sterling Heights, MI 48314
 T (586) 802-5561 ▪ F (586) 802-5562
 sales@unitedfiltration.com ▪ www.unitedfiltration.com

STAINLESS STEEL PROCESS FILTER HOUSINGS

PRINCIPLE SPECIFICATIONS

| Housing Model w/ Drain | 150 | 151 | 152 | 160 | 161 | 162 |
|--------------------------------|-------------------------------------|--------------|--------------|--------------|--------------|--------------|
| Housing Model w/o Drain | N/A | N/A | N/A | N/A | N/A | N/A |
| Housing Model w/ Glass Bowl | N/A | N/A | N/A | N/A | N/A | N/A |
| Port Size (NPT) | 1" | 1 1/2" | 2" | 1" | 1 1/2" | 2" |
| Drain Type (NPT) | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" |
| Maximum Pressure (psig) | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| Max. Temp. – Viton (400°F) | GV150 | GV150 | GV150 | GV150 | GV150 | GV150 |
| Max. Temp. – PTFE (400°F) | GP150S | GP150S | GP150S | GP150S | GP150S | GP150S |
| Max. Temp. – Kalrez (600°F) | KZ150 | KZ150 | KZ150 | KZ150 | KZ150 | KZ150 |
| Principle Dimensions: (inches) | | | | | | |
| Center Of Port To Head | 1.50 | 1.85 | 1.85 | 1.50 | 1.85 | 1.85 |
| Head Diameter | 4.52 | 4.52 | 4.52 | 4.52 | 4.52 | 4.52 |
| Overall Length | 14.75 | 15.58 | 15.58 | 24.50 | 25.12 | 25.12 |
| Element Removal Clearance | 9.05 | 9.05 | 9.05 | 17.87 | 17.87 | 17.87 |
| Mounting Holes | M10 x 5/8" on 2 1/2" Centers | | | | | |
| Filter Element Codes: (1) | | | | | | |
| Disposable Element | 51-230-□ | 51-230-□ | 51-230-□ | 51-476-□ | 51-476-□ | 51-476-□ |
| Stainless Steel Element | SS-51-230-□ | SS-51-230-□ | SS-51-230-□ | SS-51-476-□ | SS-51-476-□ | SS-51-476-□ |
| PEL Element | PEL-51-230-□ | PEL-51-230-□ | PEL-51-230-□ | PEL-51-476-□ | PEL-51-476-□ | PEL-51-476-□ |
| PTFE Element | PT-51-230-□ | PT-51-230-□ | PT-51-230-□ | PT-51-476-□ | PT-51-476-□ | PT-51-476-□ |
| Materials Of Construction: (2) | | | | | | |
| Head, Internals & Bowl | 316LSS | 316LSS | 316LSS | 316LSS | 316LSS | 316LSS |
| Seals | Viton | Viton | Viton | Viton | Viton | Viton |
| Accessories: | | | | | | |
| Support Core | SC150 | SC150 | SC150 | SC160 | SC160 | SC160 |
| Mounting Bracket | MBSS150 | MBSS150 | MBSS150 | MBSS150 | MBSS150 | MBSS150 |
| Housing Model w/ PTFE Seals | N/A | N/A | N/A | N/A | N/A | N/A |
| Internal Volume (cc) | 1500 | 1500 | 1500 | 2700 | 2700 | 2700 |

- Note: (1) Replace "□" with grade required, e.g. 25-64-70C, SS-25-178-25, PT-25-64-10
 (2) Material abbreviations: 316LSS=316L Stainless Steel
 (3) All glass bowl "G" versions have a maximum pressure of 100 psig

| FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C / 70C ⁽¹⁾ | | | | |
|---|------------|-----|------------|-----|
| Air Line Pressure (PSIG) | 150 Series | | 160 Series | |
| | 50C | 70C | 50C | 70C |
| 2 | 23 | 48 | 38 | 55 |
| 15 | 41 | 87 | 70 | 100 |
| 30 | 61 | 127 | 147 | 213 |
| 60 | 102 | 218 | 176 | 255 |
| 80 | 132 | 277 | 228 | 330 |
| 100 | 166 | 345 | 281 | 420 |
| 150 | 230 | 473 | 390 | 585 |
| 200 | 290 | 610 | 495 | 750 |
| 250 | 350 | 733 | 600 | 960 |

Note: (1) Flow rates for Grade 50C rated at 99.99% against 0.01 micron / Flow rates for Grade 70C rated at 95% against 0.01 micron.

| WATER FLOW RATES IN GPM AT 3 PSID | | | | | | |
|--|-----|-----|-----|-----|-----|-----|
| Model | 150 | 151 | 152 | 160 | 161 | 162 |
| With 25 Micron Pleated Element | 5 | 6 | 6 | 12 | 14 | 14 |

Note: Please consult UFS for specific application requirements and flows.



United Filtration Systems, Inc ▪ 6558 Diplomat Drive ▪ Sterling Heights, MI 48314
 T (586) 802-5561 ▪ F (586) 802-5562
 sales@unitedfiltration.com ▪ www.unitedfiltration.com