



**SOLBERG**  
Filtration & Separation

# Medical Vacuum Filtration

## HV Series 1" - 4"

### Application

Solberg's HV Series bacterial filters for medical vacuum service are designed to offer industry leading pressure drop performance and meet demanding filtration requirements in accordance with current European and US Medical Vacuum standards:

**ISO 7396-1:2016 Medical gas pipeline systems — Part 1 Pipeline systems for compressed medical gases and vacuum**

**NFPA 99:2018 Health Care Facilities Code**

With its exclusive transparent design, pleated element construction, maximized element surface area, and minimal pressure drop, the HV Series offers an innovative, high quality, and long lasting solution that satisfies the strict requirements of the medical industry.

***Third party verification ensures Solberg's elements meet ISO 45 H classification as defined in ISO 29463-1. The HV Series achieves greater than 99.995% total retention rate offering a very high level of protection in medical/hospital, dental, and laboratory applications.***

### Benefits

- Minimizes microbial contamination of vacuum pump oil and surrounding environment
- Visual pressure differential indication allows for real time monitoring and maintenance checks of the filter
- Biohazard labels improve safety and awareness at facility
- Increased surface area and large collection area maximizes contaminant holding capacity
- Low pressure drop design for reduced energy consumption over time
- Corrosion resistant and heavy duty materials of construction offer high performance and extended service life
- Isolation valve allows for quick and easy change out of glass flask for sterilization or disposal
- Equipped with pressure differential gauge for visual indication to service filter
- Easily incorporated into the medical gas distribution system piping allowing for a CE marking according to the Medical Devices Directive 93/42/EC
- High efficiency elements tested and verified to meet EN1822-1 filter class H14 requirements
- Meets NFPA 99 Requirements for vacuum filtration



Rev: HV-US1807K

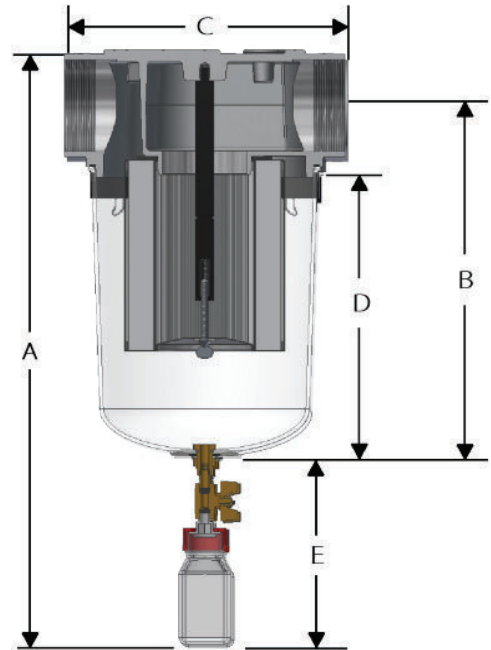
# HV Series 1" - 4"

## Technical Specifications

- Operating pressure range: atmospheric to full vacuum
- Particulate removal > 99.995% efficiency
- Meets ISO 29463-1 requirements for ISO 45H class filtration
- Temp (continuous): min -15°F (-26°C) max 220°F (104°C)
- Corrosion resistant aluminum cast head
- Shatter resistant polycarbonate collection area
- Glass drain flask for easy removal and sterilization

## Gauge & Mounting Boss

- Available with or without gauge (standard HV part number includes gauge). For information on a unit without gauge, please contact the factory.
- Housings can be modified for mounting brackets by tapping the precast mounting bosses.



| Inlet/Outlet<br>Size | Type | Assembly Part<br>Number<br>(w/ Gauge) | Approx. Dimensions - inches |        |        |        |       | Approx.<br>Weight<br>lbs. | Replacement<br>Element<br>Part No. | Rarified Air<br>Flow Rating<br>At 19"HgV | Air Flow at<br>Atmosphere: Free<br>Air Aspirated (FAA) |
|----------------------|------|---------------------------------------|-----------------------------|--------|--------|--------|-------|---------------------------|------------------------------------|------------------------------------------|--------------------------------------------------------|
|                      |      |                                       | A                           | B      | C      | D      | E     |                           |                                    |                                          |                                                        |
| 1"                   | NPSC | HV-UL896-100C                         | 22 1/2                      | 12     | 7      | 10 3/8 | 9 1/4 | 15                        | UL896                              | 110 CFM                                  | 40 SCFM                                                |
| 1 1/4"               | NPSC | HV-UL896-125C                         | 22 1/2                      | 12     | 7      | 10 3/8 | 9 1/4 | 15                        | UL896                              | 123 CFM                                  | 45 SCFM                                                |
| 1 1/2"               | NPSC | HV-UL896-150C                         | 22 1/2                      | 12     | 7      | 10 3/8 | 9 1/4 | 15                        | UL896                              | 123 CFM                                  | 45 SCFM                                                |
| 2"                   | NPSC | HV-UL850/1-200C                       | 25 1/2                      | 14 1/4 | 9      | 12 1/2 | 9 1/4 | 19                        | UL850/1                            | 383 CFM                                  | 140 SCFM                                               |
| 2 1/2"               | NPTF | HV-UL850/1-250C                       | 25 1/2                      | 14 1/4 | 9      | 12 1/2 | 9 1/4 | 19                        | UL850/1                            | 383 CFM                                  | 140 SCFM                                               |
| 3"                   | NPTF | HV-UL234/2G-300C                      | 29                          | 17     | 13 1/2 | 14     | 9 1/4 | 30                        | UL234/2G                           | 619 CFM                                  | 226 SCFM                                               |
| 4"                   | NPTF | HV-UL234/2G-400C                      | 29                          | 17     | 13 1/2 | 14     | 9 1/4 | 30                        | UL234/2G                           | 619 CFM                                  | 226 SCFM                                               |

6" option available upon request.



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[www.solbergmfg.com](http://www.solbergmfg.com)

All model offerings and design parameters are subject to change without prior notice.  
Contact your representative or Solberg for the most current information.