



Biotech

**LENNTECH**  
WATER TREATMENT Solutions

USD 2007a



# Pall Advanta® Liquid Filter Housings

Advanced filter housings for sanitary applications



Filtration. Separation. Solution.™

# Pall Advanta Liquid Filter Housings

Advanced filter housings for sanitary applications

The **Pall Advanta** range of filter housings has been specifically designed and engineered for today's manufacturing processes. These advanced housings are manufactured from 316L stainless steel and are engineered to meet the requirements of the Pharmaceutical, Biotechnology, Cosmetics and Food and Beverage industries. State-of-the-art manufacturing technologies are used to construct a housing ideal for the most critical of applications.



Pall Advanta ALT housings

Fine filtration of liquids is a key part of many production processes. These **Pall Advanta** housings have been specifically designed to meet the many requirements of this demanding application. During the design process critical features were optimized to ensure trouble-free use and low installation and maintenance costs. Areas such as surface finish, suitability for CIP and SIP, integrity testing and incorporation into automated production processes are included:

### Features and Benefits

- Aseptic design
  - Crevice-free electropolished surfaces (internal Ra value < 0.4 µm / 15 µin)
  - Fully self draining
  - No dead legs
- Low hold-up volumes for maximum product recovery

- Quick fit 'Staubli'-type connections for easy filter integrity testing
- Easy to use 'low point' sanitary drain valve
- Range of options to aid use in automated production systems
- CE marking shows design review to European Pressure Directive 97/9/EC
- Every housing supplied with a quality certificate and manufactured to ATEX Directive 94/9/EC (Group II Category 2)
- Variety of connection styles, vents and drains offer choice and convenience
- Filter cartridge accepts single-open-ended Pall code 7 and code 2 "AB" style 127mm (5"), 254mm (10"), 508mm (20") and 762mm (30") height filter cartridges

### Specification

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| Maximum Operating Pressure    | -1 to 10 bar g / -14.5* to 150** psi g                   |
| Maximum Operating Temperature | 150°C (300°F)                                            |
| Materials of Construction     |                                                          |
| Wetted parts                  | AISI 316L stainless steel                                |
| Clamp                         | AISI Nitronic 60                                         |
| O-ring:                       | Silicone - FDA listed                                    |
| Steam Sterilizable            | up to 150°C (300°F)                                      |
| Surface finish                | All electropolished                                      |
| Internal                      | Ra < 0.4 µm / < 15 µ inch (typical)                      |
| External                      | Ra < 0.8 µm / < 32 µ inch (typical)                      |
| Inspection documentation      | Test report type 2.3 to EN10204<br>Conformance to EC PED |

\* Full Vacuum

\*\* With compatible fluids, which do not soften, swell or adversely affect the materials.

# Pall Advanta Filter Housings

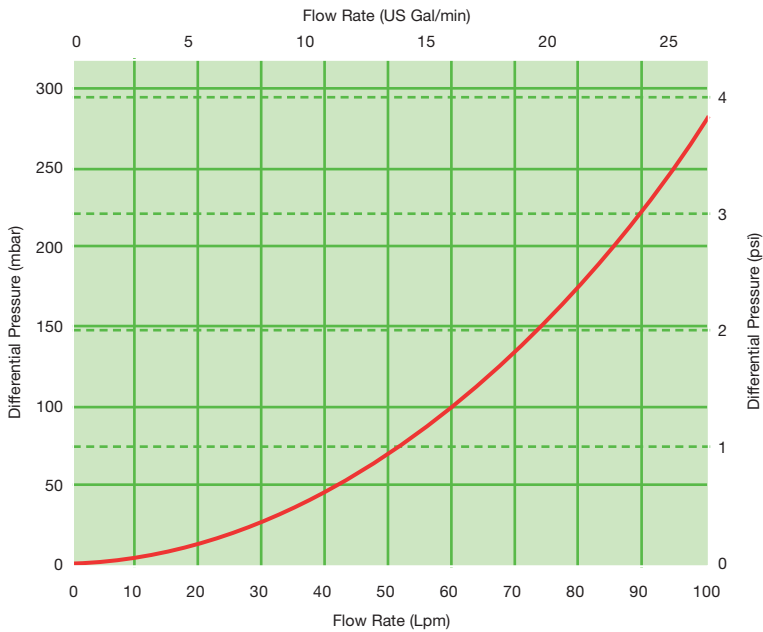
## Technical Specifications

### Dimensions

| Pall Housing<br>Part Number* | Dimension A |      | Dimension B |      | Dimension C |      |
|------------------------------|-------------|------|-------------|------|-------------|------|
|                              | mm          | inch | mm          | inch | mm          | inch |
| ALT105G23CBH4                | 190         | 7.4  | 378         | 14.8 | 160         | 6.2  |
| ALT11G23CBH4                 | 190         | 7.4  | 514         | 20.2 | 320         | 12.5 |
| ALT11G23CDH4                 | 190         | 7.4  | 519         | 20.4 | 320         | 12.5 |
| ALT11G23DDH4                 | 190         | 7.4  | 437         | 17.2 | 320         | 12.5 |
| ALT11GA25ABH4                | 190         | 7.4  | 517         | 20.3 | 320         | 12.5 |
| ALT11GNW25CBH4               | 190         | 7.4  | 514         | 20.2 | 320         | 12.5 |
| ALT12G23CBH4                 | 190         | 7.4  | 765         | 30.1 | 570         | 22.4 |
| ALT13G23CBH4                 | 190         | 7.4  | 1039        | 40.9 | 820         | 32.2 |
| ALT13GNW25CBH4               | 190         | 7.4  | 1039        | 40.9 | 820         | 32.2 |

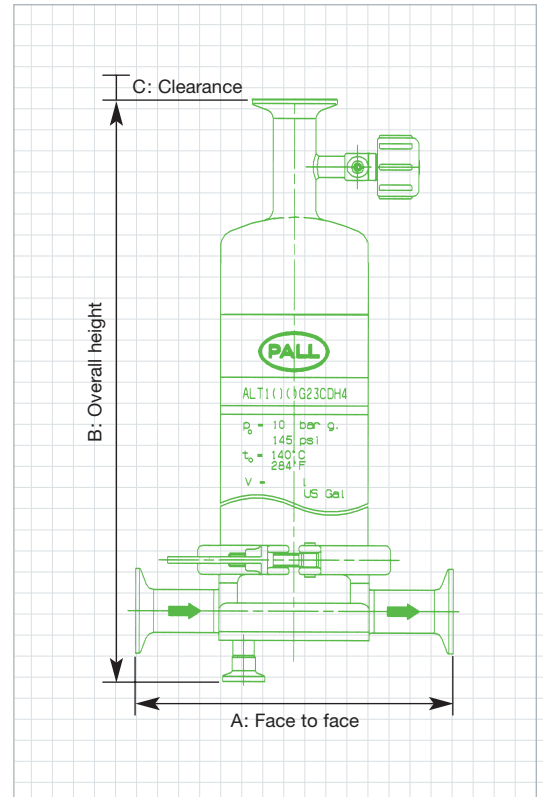
\* These part numbers represent the most commonly used housing variants with the shortest lead times. Many other variants are available (see ordering information). Please contact Pall for further information.

### Typical Water Flow vs Differential Pressure\*\*



\*\* The flow/pressure drop characteristics refer to the empty housing only for water at 20°C (68°F). For other liquids multiply pressure drop by relative density. To obtain the total pressure drop of a complete filter assembly, the cartridge pressure drop must be added. Please refer to the relevant filter cartridge literature or contact Pall.

### Dimensions



# Pall Advanta Filter Housings

## Ordering Information

Pall Part Number: **ALT**  **1**     **H4\***

| Code     | Design                                                                                                                 |
|----------|------------------------------------------------------------------------------------------------------------------------|
| -        | To European Pressure Equipment Directive                                                                               |
| <b>D</b> | To European Pressure Equipment Directive with enhanced documentation including 3.1b stamped material and certification |

| Code      | Filter Cartridge Type |
|-----------|-----------------------|
| <b>05</b> | AB05 / AB02 Code 2    |
| <b>1</b>  | AB1 Code 7            |
| <b>2</b>  | AB2 Code 7            |
| <b>3</b>  | AB3 Code 7            |

| Code  | Inlet/Outlet                                   |
|-------|------------------------------------------------|
| G23   | 1" 'Tri-Clamp' compatible to ISO 2852          |
| GNW25 | Dairy fitting NW 25 to DIN 11851               |
| GA25  | Aseptic thread connection NW 25 to DIN 11864-1 |
| G94   | Butt weld 33.7 x 2.0 mm to ISO 1127            |

| Code | Vent                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------|
| A    | Sanitary valve fitting for 'Stäubli' type couplings                                                                               |
| C    | 1½" <b>Tri-Clamp</b> connection to ISO 2852 with side sanitary valve with quick release fitting for <b>Stäubli</b> type couplings |
| D    | ½" <b>Tri-Clamp</b> to ISO 2852                                                                                                   |
| E    | Butt weld 13.5 x 1.6 mm to ISO 1127                                                                                               |

| Code | Drain                                      |
|------|--------------------------------------------|
| B    | Sanitary valve with hosebarb               |
| D    | ½" <b>Tri-Clamp</b> connection to ISO 2852 |
| N    | No drain                                   |

\*Gasket Material - Silicone elastomer  
(other materials available upon request - please contact Pall).

### Main Accessories and Spares

| Pall Part Number | Description                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------------------|
| <b>ACS0598CM</b> | Diaphragm valve for ½" <b>Tri-Clamp</b> compatible connection (includes clamp and gasket)                     |
| <b>ACS0457FA</b> | Pressure gauge kit -1 to 10 bar g for 1½" <b>Tri-Clamp</b> connection to ISO 2852 (includes clamp and gasket) |
| <b>ORH4P-238</b> | Silicone housing closure gasket                                                                               |
| <b>ACS0602EM</b> | Silicone housing valve gasket kit                                                                             |
| <b>ACS0632HA</b> | Housing stand                                                                                                 |

Further spares and accessories available upon request



**LENNTECH**  
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### International Offices

Pall Corporation has offices and plants throughout the world in: Argentina, Australia, Austria, Belgium, Brazil, Canada, China, France, Germany, India, Indonesia, Ireland, Italy, Japan, Korea, Malaysia, New Zealand, Norway, Philippines, Poland, Russia, Singapore, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, United Kingdom, and Vietnam. Distributors in all major industrial areas of the world. To locate the Pall office or distributor nearest you, visit [www.pall.com/contact](http://www.pall.com/contact).

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