

Pall Advanta™ ALT Liquid Filter Housings

Advanced Sanitary T-Style Filter Housings for Liquid 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 BioPharmaceutical industry. State-of-the-art manufacturing technologies are used to construct a housing ideal for the most critical of applications.

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 with an internal Ra value of $\leq 0.4 \mu\text{m}$ ($\leq 15 \mu\text{in.}$)
 - ◆ Fully self draining
 - ◆ No dead legs
- Low hold-up volumes for maximum product recovery
- Quick fit Stäubli*-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 5 in. (127 mm), 10 in. (254 mm), 20 in. (508 mm), and 30 in. (762 mm) height filter cartridges

* Stäubli is a trademark of Stäubli AG.

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Technical Specifications

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 µin.) (typical) External: Ra ≤ 0.8 µm (≤ 32 µin.) (typical)
Inspection Documentation	Test report type 2.3 to EN10204 Conformance to EC PED ⁽¹⁾

⁽¹⁾ With compatible fluids, which do not soften, swell or adversely affect the materials.

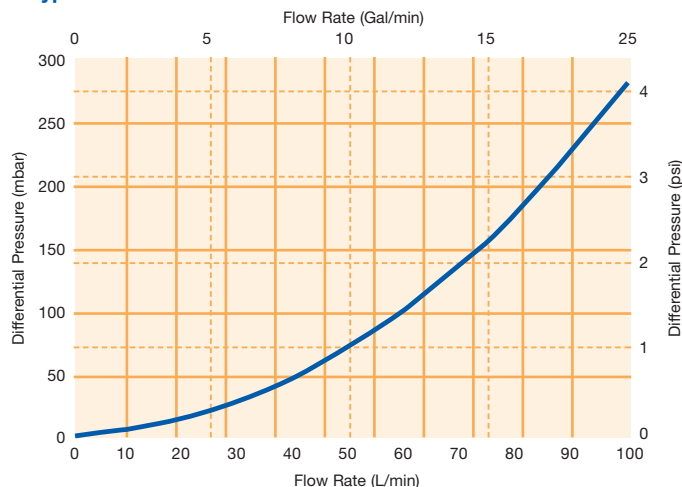
* Nitronic is a registered trademark of Armcoc Inc.

Nominal Dimensions

Part Number ⁽²⁾	Face to Face Width	Overall Height	Clearance Required
ALT105G23CBH4	190 mm (7.4 in.)	378 mm (14.8 in.)	160 mm (6.2 in.)
ALT11G23CBH4 ALT11GNW25CBH4	190 mm (7.4 in.)	514 mm (20.2 in.)	320 mm (12.5 in.)
ALT11G23CDH4	190 mm (7.4 in.)	519 mm (20.4 in.)	320 mm (12.5 in.)
ALT11G23DDH4	190 mm (7.4 in.)	437 mm (17.2 in.)	320 mm (12.5 in.)
ALT11GA25ABH4	190 mm (7.4 in.)	517 mm (20.3 in.)	320 mm (12.5 in.)
ALT12G23CBH4	190 mm (7.4 in.)	765 mm (30.1 in.)	570 mm (22.4 in.)
ALT13G23CBH4 ALT13GNW25CBH4	190 mm (7.4 in.)	1039 mm (40.9 in.)	820 mm (32.2 in.)

⁽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 Rates⁽³⁾



⁽³⁾ The flow and 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.

Operating Conditions

Maximum Operating Pressure	-1 to 10 barg (-14.5 ⁽⁴⁾ to 150 ⁽⁵⁾ psig)
Maximum Operating Temperature	150 °C (300 °F)

⁽⁴⁾ Full vacuum.

⁽⁵⁾ With compatible fluids, which do not soften, swell or adversely affect the materials.

Ordering Information

ALT		1		G				H4 ⁽⁶⁾	
Code	Design	Code	Cartridge Type	Code	Inlet and Outlet	Code	Vent	Code	Drain
-	To European Pressure Equipment Directive	05	AB05 code 2	23	1 in. sanitary flange to ISO 2852	A	Sanitary valve fitting for Stäubli type couplings	B	Sanitary valve with hosebarb
D	To European Pressure Equipment Directive with enhanced documentation including 3.1b stamped material and certification	1	AB1 code 7	NW25	Dairy fitting NW 25 to DIN 11851	C	1½ in. sanitary flange connection to ISO 2852 with side sanitary valve with quick release fitting for Stäubli type couplings	D	½ in. sanitary flange connection to ISO 2852
		2	AB2 code 7	A25	Aseptic thread connection NW 25 to DIN 11864-1	D	½ in. sanitary flange compatible with side sanitary valve with fitting for Stäubli type couplings	N	No drain
		3	AB3 code 7	95	ISO butt weld 33.7 x 2.0 mm to ISO 1127	E	ISO butt weld 13.5 x 1.6 mm to ISO 1127		

⁽⁶⁾ Silicone elastomer seal material. other materials available upon request.

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