

Pall Advanta™ In-Line Liquid and Gas Filter Housings

Advanced Sanitary In-Line Filter Housings for Liquid and Gas 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 and gases is a key part of many production processes. These Pall **Advanta** housings have been specifically designed to meet the many requirements of these demanding applications. Optimization of critical features during the design process has provided a housing range which ensures trouble-free use and low installation and maintenance costs. Areas included in this process were:

- Surface finish
- Suitability for CIP and SIP
- Integrity testing
- Incorporation into automated production processes

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
- Every housing supplied with a quality certificate and manufactured to ATEX Directive 94/9/EC (Group II Category 2)
- CE marked in accordance with Pressure Equipment Directive 97/23/EC

* Stäubli is a trademark of Stäubli AG.

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Technical Specifications

Materials of Construction

Housing	AISI 316L Stainless Steel
Clamp	431 Stainless Steel
Seals	Silicone elastomer
Surface Finish	All electropolished Internal: Ra ≤ 0.4 μm (≤ 15 μin.) (typical) External: Ra ≤ 0.8 μm (≤ 32 μin.) (typical)
Documentation	Certificate type 2.3 to EN10204

Operating Conditions

Maximum Operating Pressure	-1 ⁽¹⁾ to 10 barg (-14.5 ⁽¹⁾ to 150 ⁽²⁾ psig)
Maximum Operating Temperature	150 °C (300 °F)

⁽¹⁾ Full vacuum.

⁽²⁾ With compatible fluids, which do not soften, swell or adversely affect the gasket materials.

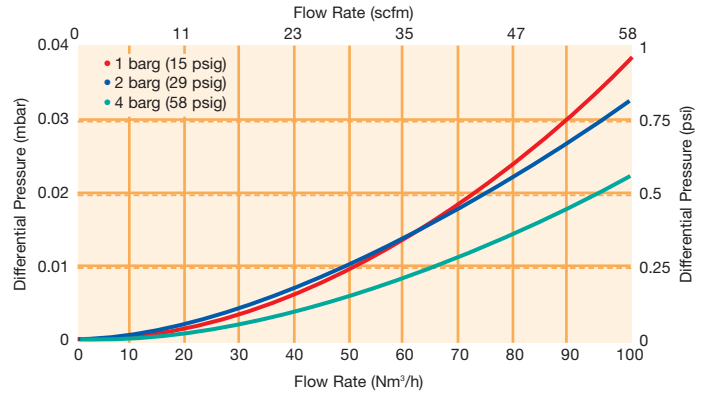
Nominal Dimensions

Part Number	Overall Height	Clearance Required	Weight
ALI105G23LABH4 ALI105G23LDDH4	301 mm (11.8 in.)	150 mm (5.9 in.)	2.2 kg (4.8 lbs)
ALI11G23LAAH4 ALI11G23LABH4 ALI11GA23LDDH4	437 mm (17.2 in.)	310 mm (12.2 in.)	2.6 kg (5.7 lbs)
ALI12G23LABH4 ALI12G23LDDH4	688 mm (27 in.)	564 mm (22.2 in.)	3.5 kg (7.7 lbs)
ALI13G23LABH4 ALI13G23LDDH4	961 mm (37.8 in.)	818 mm (32.2 in.)	4.3 kg (9.47 lbs)

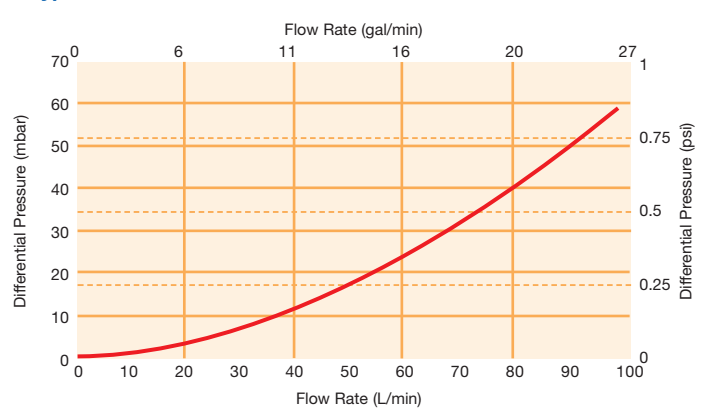
⁽³⁾ The flow and pressure drop characteristics refer to the empty housing only for water at 20 °C (68 °F). For other liquids multiply pressure drop by relative density. To obtain the total pressure drop of a complete filter assembly, the cartridge pressure drop must be added.

Gas Filtration: This housing style is suitable for use in the filtration of gases and the in-line design ensures that the pressure drops are exceptionally low. Pall recommends using the cartridge pressure drop when calculating the system pressure drops. Please refer to the relevant cartridge literature or contact Pall.

Typical Air Flow Rates⁽³⁾



Typical Water Flow Rates⁽³⁾



Main Accessories and Spares

Part Number	Description
ACS5098CM	Diaphragm valve kit for ½ in. sanitary flange connections including clamp and silicone gasket
ORH4P-238	Silicone housing closure gasket
ACS0602EM	Silicone housing valve gasket kit

Contact your Pall representative or local representative for other spares and accessories.

Ordering Information

ALI	1	G				H4 ⁽⁴⁾			
Code	Design	Code	Filter Height	Code	Inlet and Outlet	Code	Vent	Code	Drain
-	To European Pressure Equipment Directive	05	AB05 code 2	23L	1 in. Tri-clamp* fittings to ISO2852	A	Sanitary valve coupling to Stäubli** type RBE.03	A	Sanitary valve coupling to Stäubli type RBE.03
D	To European Pressure Equipment Directive with enhanced documentation including 3.1b stamped material and certification	1	AB1 code 7	94	33.7 mm (1.33 in.) O.D x 2.0 mm (0.079 in.) wall butt weld to ISO 1127	D	½ in. sanitary flange connection to ISO 2852	B	Sanitary valve with hosetail for 6 mm (¼ in.) ID tubing
		2	AB2 code 7					D	½ in. sanitary flange connection to ISO 2852
		3	AB3 code 7						

* Tri-Clamp is a trademark of Alfa-Laval, Inc.

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⁽⁴⁾ Gasket material — silicone, other gasket materials available on request. Please contact Pall.