



Pall Advanta™ ALI Series Sanitary Filter Housing

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Pall Advanta ALI series sanitary inline housings are optimized for pharmaceutical, biotech, biological, food and beverage process filtration applications. These housings hold one single-open-ended (SOE) AB sanitary style code-7 filter cartridge. Benefits of this housing are:

Features

- *Low Hold-Up Volume* – maximizes product recovery.
- *Easy-draining* features, including downward sloping internal contour and low-point drain – allow easy removal of product, CIP solution, and steam condensate.
- *Automated orbital welding* – produces consistent high-quality welds.
- *Non-rotating vent and drain* – prevent twisted hoses and allow hard piping.
- *Quick connect/disconnect* vent coupling - enables easy hook-up to a Palltronic® filter integrity test system.
- *ISO9001* manufacturing and design certification – assures documented procedures for a reliable product.
- *Manufactured for use under GMP.*

Specifications

Materials

- Housing: 316L stainless steel
- O-ring: Silicone manufactured from material listed in Title 21 of the United States Code of Federal Regulations (other elastomers available†)

Surface Finishes

- Interior polished to 16 µin (0.4 µm) Ra.
- Exterior polished to 32 µin (0.8 µm) Ra.
- Interior and exterior electropolished.

Inlet and Outlet Connections

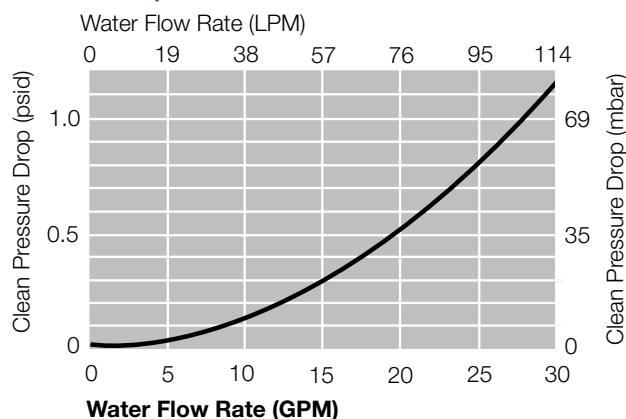
- 1.5" sanitary flange

Vent/Drain

(See the part number table for standard combinations.)

- vent: valve with non-rotating quick connect/disconnect or 3/8" (10mm) hosetail; fractional sanitary flange (no valve)

Pressure Drop Vs Water Flow Rate



- drain: valve with non-rotating quick connect/disconnect or 3/8" (10mm) hosetail; fractional sanitary flange (no valve); "no drain" option available upon request

Dimensions (nominal)

- See part number table for dimensions.

Filter Cartridges

- Housing accepts one single- open-end AB code 7 style cartridge, in 5", 10", 20", 30" or 40" length.

Configuration

- Inline style flow pattern

Housing Sealing Mechanism

- Stainless steel clamp
- O-ring seal†

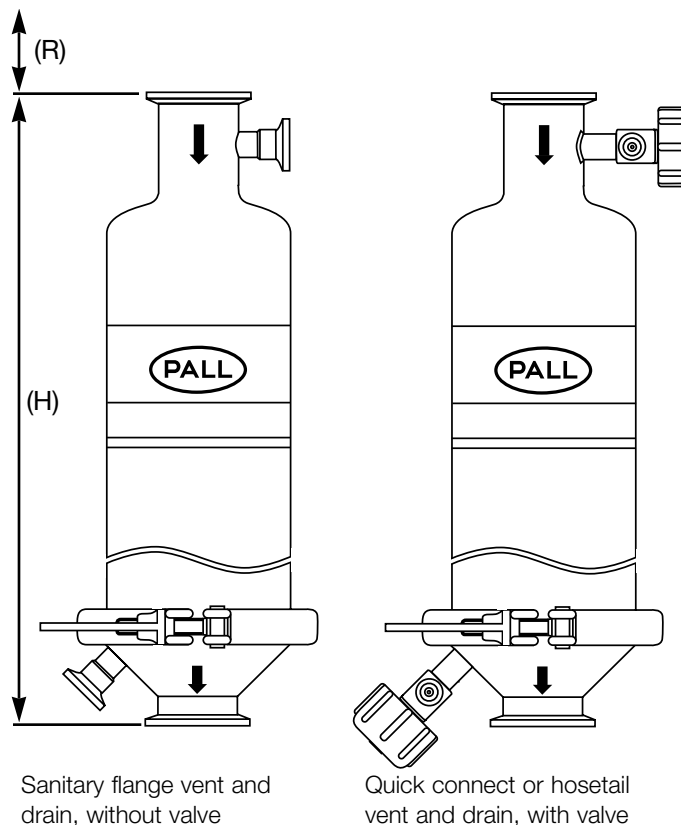
Operating Conditions

- 145 psig (10 bar g) and 285°F (140°C)

Sterilization

Steamable *in situ* (SIP) and steam autoclavable.

Dimensional Drawings



Part Numbers, Connection Styles and Dimensions (Nominal)

Part Number	Cartridge Height	Inlet and Outlet	Vent*	Drain**	Dim (H) Overall Face to Face Height	Dim (R) Required Clearance	Weight (Empty)
ALI105G23LAAH4	5"	1.5" sanitary flange	A	A	11.9 in 301 mm	5.9 in 150 mm	4.85 lb 2.2 kg
ALI105G23LABH4	5"	1.5" sanitary flange	A	B	11.9 in 301 mm	5.9 in 150 mm	4.85 lb 2.2 kg
ALI105G23LDDH4	5"	1.5" sanitary flange	D	D	11.9 in 301 mm	5.9 in 150 mm	4.85 lb 2.2 kg
ALI11G23LAAH4	10"	1.5" sanitary flange	A	A	17.2 in 437 mm	12.2 in 310 mm	5.73 lb 2.6 kg
ALI11G23LABH4	10"	1.5" sanitary flange	A	B	17.2 in 437 mm	12.2 in 310 mm	5.73 lb 2.6 kg
ALI11G23LDDH4	10"	1.5" sanitary flange	D	D	17.2 in 437 mm	12.2 in 310 mm	5.73 lb 2.6 kg
ALI12G23LAAH4	20"	1.5" sanitary flange	A	A	27.1 in 688 mm	22.2 in 564 mm	7.72 lb 3.5 kg
ALI12G23LABH4	20"	1.5" sanitary flange	A	B	27.1 in 688 mm	22.2 in 564 mm	7.72 lb 3.5 kg
ALI12G23LDDH4	20"	1.5" sanitary flange	D	D	27.1 in 688 mm	22.2 in 564 mm	7.72 lb 3.5 kg
ALI13G23LAAH4	30"	1.5" sanitary flange	A	A	37.8 in 961 mm	32.2 in 818 mm	9.48 lb 4.3 kg
ALI13G23LABH4	30"	1.5" sanitary flange	A	B	37.8 in 961 mm	32.2 in 818 mm	9.48 lb 4.3 kg
ALI13G23LDDH4	30"	1.5" sanitary flange	D	D	37.8 in 961 mm	32.2 in 818 mm	9.48 lb 4.3 kg
ALI14G23LAAH4	40"	1.5" sanitary flange	A	A	Consult Pall Corporation	Consult Pall Corporation	Consult Pall Corporation
ALI14G23LABH4	40"	1.5" sanitary flange	A	B	Consult Pall Corporation	Consult Pall Corporation	Consult Pall Corporation
ALI14G23LDDH4	40"	1.5" sanitary flange	D	D	Consult Pall Corporation	Consult Pall Corporation	Consult Pall Corporation

† Seal Materials: H4 at end of part number designates silicone, H indicates FKM fluorocarbon elastomer, J indicates ethylene propylene.

* Vent options: **A** sanitary valve with quick connect/disconnect coupling, **B** sanitary valve with 3/8" (10 mm) hosetail, **D** 1/2" sanitary flange without valve, **N** none.

** Drain options: **A** sanitary valve with quick connect/disconnect coupling, **B** sanitary valve with 3/8" (10 mm) hosetail, **D** 1/2" sanitary flange without valve, **N** none.



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