

Pall Advanta™ ALT Series Sanitary Filter Housing



Description

Pall Advanta™ ALT Series liquid T-flow filter housings are optimized for sanitary pharmaceutical, bioprocess, food and beverage liquid process applications. These housings hold one single-open-ended (SOE) AB sanitary style code-7 filter cartridge.

Benefits of this housing are:

- Low Hold-Up Volume – maximizes product recovery.
- Easy-draining features, including downward sloping internal contour and low-point drain – allow easy removal of CIP solution or product.
- Fewer welds – results in an extremely sanitary design.
- 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.
- ISO 9001 manufacturing and design certification – assures documented procedures for a reliable product.
- Manufactured for use under GMP.
- 3A approval-evidences sanitary design.

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 μm Ra.
- Exterior polished to 32 μm Ra.
- Interior and exterior electropolished.

Inlet and Outlet Connections

- 1" sanitary flange (DIN and butt weld connections available upon request.)

Vent/Drain

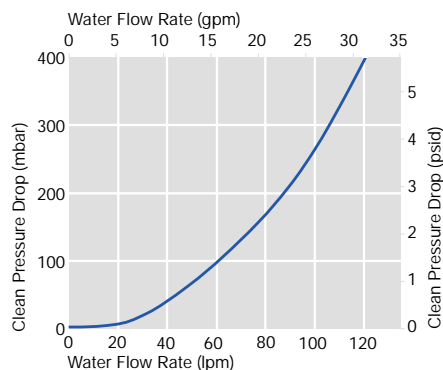
(See the part number table for standard combinations.)

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

Dimensions (Nominal)

- See part number table for dimensions.

Pressure Drop vs. Water Flow Rate



Filter Cartridges

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

Configuration

- T-style flow pattern

Housing Sealing Mechanism

- Stainless steel clamp
- O-ring seal†

Operating Conditions

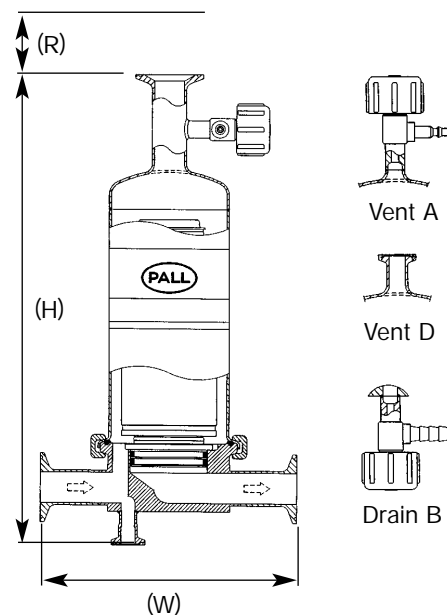
- 145 psig (10 bar g) and 284°F (140°C)

Sterilization

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

Reference Diagram for Part Numbers

(See Reverse Side)



Assembly above has Vent C and Drain D

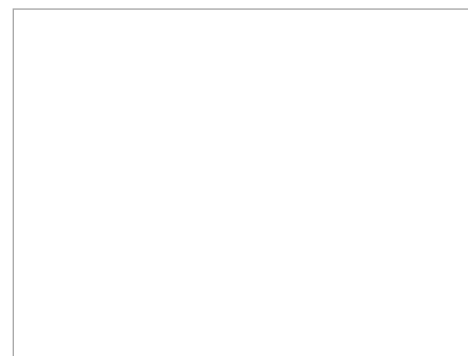
Part Numbers, Connection Styles and Dimensions (Nominal)

Part Number	Cartridge Height	Inlet and Outlet	Vent*	Drain**	Dim (W) Face to Face	Dim (H) Overall Height	Dim (R) Required Clearance	Weight (Empty)
ALT105G23ABH4	5"	1" sanitary	A	B	190 mm 7.5 in	381 mm 15.0 in	180 mm 7.1 in	2.4 kg 5.3 lb
ALT105G23CBH4	5"	1" sanitary	C	B	190 mm 7.5 in	384 mm 15.1 in	180 mm 7.1 in	2.6 kg 5.7 lb
ALT105G23CDH4	5"	1" sanitary	C	D	190 mm 7.5 in	345 mm 13.6 in	180 mm 7.1 in	2.6 kg 5.7 lb
ALT105G23DDH4	5"	1" sanitary	D	D	190 mm 7.5 in	300 mm 11.8 in	180 mm 7.1 in	2.4 kg 5.3 lb
ALT11G23ABH4	10"	1" sanitary	A	B	190 mm 7.5 in	518 mm 20.4 in	340 mm 13.4 in	2.9 kg 6.4 lb
ALT11G23CBH4	10"	1" sanitary	C	B	190 mm 7.5 in	521 mm 20.5 in	340 mm 13.4 in	3.1 kg 6.8 lb
ALT11G23CDH4	10"	1" sanitary	C	D	190 mm 7.5 in	483 mm 19.0 in	340 mm 13.4 in	3.1 kg 6.8 lb
ALT11G23DDH4	10"	1" sanitary	D	D	190 mm 7.5 in	437 mm 17.2 in	340 mm 13.4 in	2.9 kg 6.4 lb
ALT12G23ABH4	20"	1" sanitary	A	B	190 mm 7.5 in	767 mm 30.2 in	589 mm 23.2 in	3.8 kg 8.4 lb
ALT12G23CBH4	20"	1" sanitary	C	B	190 mm 7.5 in	772 mm 30.4 in	589 mm 23.2 in	4.0 kg 8.8 lb
ALT12G23CDH4	20"	1" sanitary	C	D	190 mm 7.5 in	734 mm 28.9 in	589 mm 23.2 in	4.0 kg 8.8 lb
ALT12G23DDH4	20"	1" sanitary	D	D	190 mm 7.5 in	688 mm 27.1 in	589 mm 23.2 in	3.8 kg 8.4 lb
ALT13G23ABH4	30"	1" sanitary	A	B	190 mm 7.5 in	1041 mm 41.0 in	841 mm 33.1 in	4.7 kg 10.3 lb
ALT13G23CBH4	30"	1" sanitary	C	B	190 mm 7.5 in	1041 mm 41.1 in	841 mm 33.1 in	4.9 kg 10.7 lb
ALT13G23CDH4	30"	1" sanitary	C	D	190 mm 7.5 in	1006 mm 39.6 in	841 mm 33.1 in	4.9 kg 10.7 lb
ALT13G23DDH4	30"	1" sanitary	D	D	190 mm 7.5 in	963 mm 37.9 in	841 mm 33.1 in	4.7 kg 10.3 lb
ALT14G23ABH4	40"	1" sanitary	A	B	190 mm 7.5 in			
ALT14G23CBH4	40"	1" sanitary	C	B	190 mm 7.5 in			
ALT14G23CDH4	40"	1" sanitary	C	D	190 mm 7.5 in			
ALT14G23DDH4	40"	1" sanitary	D	D	190 mm 7.5 in			

† Seal Materials: H4 at end of part number designates silicone, H indicates FKM fluorocarbon elastomer, J indicates ethylene propylene. PTFE-encapsulated seals available with lowered housing design pressure.

* Vent options: **A** sanitary valve with quick connect/disconnect coupling, **B** sanitary valve with 3/8" (10 mm) hosetail, **C** 1½" sanitary-clamp-coupling gage port and side-fitted sanitary valve with quick connect/disconnect coupling, **D** ½" sanitary-clamp-coupling without valve.

** Drain options: **A** sanitary valve with quick connect/disconnect coupling, **B** sanitary valve with 3/8" (10 mm) hosetail, **D** ½" sanitary-clamp-coupling without valve, **N** none.



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