



Life Sciences

USD 2130c



Pall Advanta™ Junior Gas Housings

High quality sanitary housings for general purpose small scale gas filtration



Filtration. Separation. Solution.™

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High quality sanitary housings for general purpose small scale gas filtration

Sterile filtration of gases with membrane filters requires specific design features, filter housings to maximize the benefits of membrane filter technology. Recent developments in GMP have raised the importance of filter integrity testing within the pharmaceutical, biopharmaceutical, beverage and allied industries. It has become widely accepted to enhance product safety and increase economy of filtration. To meet these requirements, Pall has developed this **Pall Advanta** range of filter housings.



Pall Advanta junior housing
AGT463G05DDH4

Pall Advanta Junior Filter housings are made from low carbon stainless steel grade AISI 316L. Advanced manufacturing technologies including CNC (computer numeric control) and orbital welding ensure a robust and highly sanitary design.

Features of this housing range for use in sanitary gas applications are high quality electropolished internal surfaces, a design optimized for CIP/SIP requirements, design variants for easy automation, as well as convenient filter integrity testing with the Water Intrusion Test method for hydrophobic filters.

Features and benefits

- Aseptic design - with electropolished surfaces giving typical internal Ra-Values of $< 0.4 \mu\text{m}$ / $< 15 \mu\text{in}$ without crevices or deadlegs and fully self draining
- In - situ water intrusion test using Pall's Palltronic® integrity test devices
- New valve design for easy operation, maintenance and filter integrity testing
- Connection variants for integration into automated systems e.g AGT463G23DDH4
- Every housing supplied with a quality certificate and manufactured to ATEX Directive 94/9/EC (Group II Category 2)

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 All product wetted parts V-Clamp Seals	AISI 316L AISI 316L, Nitronic 60 Silicone elastomer
Surface Finish Internal External	All electropolished Ra $< 0.4 \mu\text{m}$ / $< 15 \mu\text{in}$ (typical) Ra $< 0.8 \mu\text{m}$ / $< 32 \mu\text{in}$ (typical)
Inspection Documentation	Certificate type 2.3 to EN10204

* Full vacuum

** With compatible fluids, which do not soften, swell or adversely affect the gasket materials. Please also refer to appropriate literature for Pall filter cartridges.

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Technical Specifications

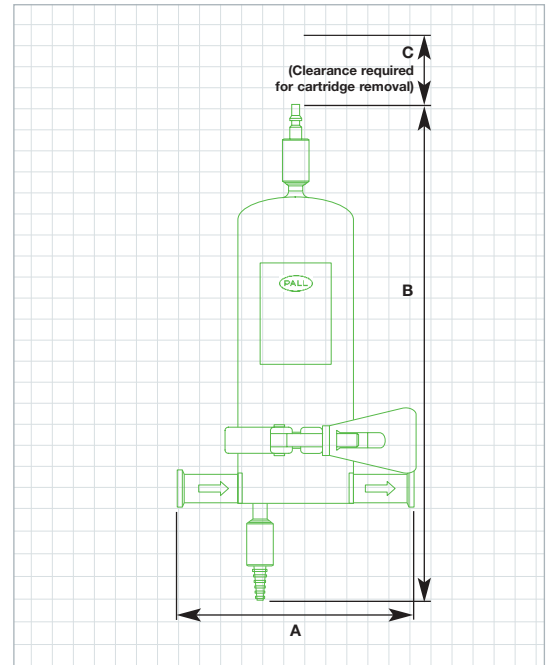
Dimensions

Pall Housing Part Number ⁽¹⁾	Dimension A		Dimension B ⁽²⁾		Dimension C	
	mm	inch	mm	inch	mm	inch
AGT463G05HKH4	151	5.9	308	12.1	112	4.4
AGT463G05DDH4	151	5.9	226.5	8.9	112	4.4
AGT463G23HKH4	151	5.9	308	12.1	112	4.4
AGT463GNW15HKH4	151	5.9	308	12.1	112	4.4
AGT463GB21HKH4	151	5.9	308	12.1	112	4.4
AGT463GB21NEH4	151	5.9	211	8.3	112	4.4
AGT463GB21NNH4	151	5.9	187	7.3	112	4.4

⁽¹⁾ Pall Advanta Junior AGT463 housings are not designed to be fitted with MCY2230 filter elements. For special Pall Advanta Junior housings accepting MCY2230 filter elements, please contact Pall.

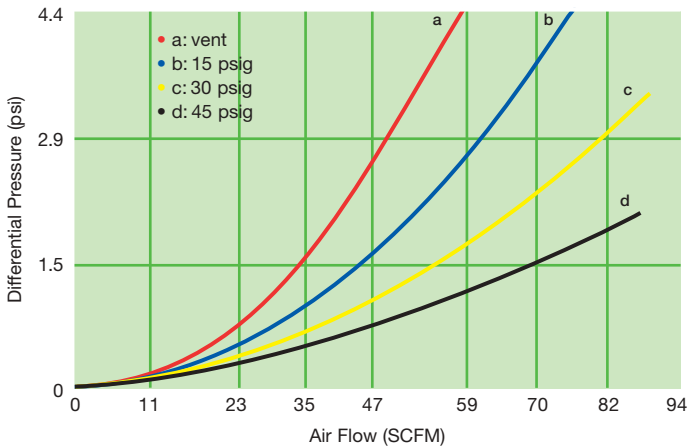
⁽²⁾ When MCY2230 elements are used, please consult Pall.

Dimensions

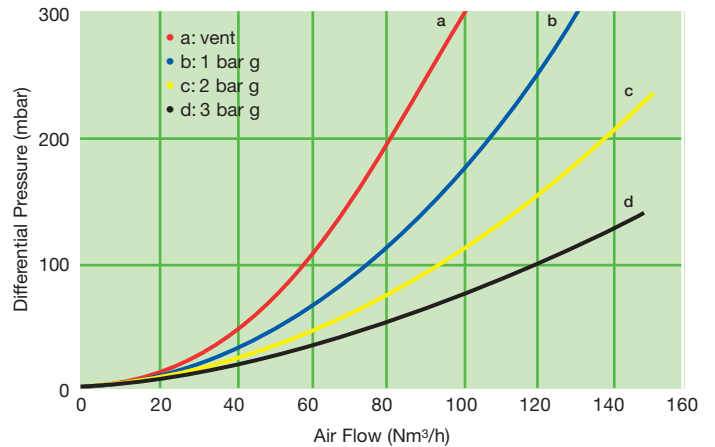


Typical Pressure Comparisons

Air Flow vs Differential Pressure⁽³⁾



Air Flow vs Differential Pressure⁽³⁾



⁽³⁾ Gas flow/differential pressure characteristics refer to the empty housing only for air at 20°C (68°F). Pressure drops for other pressure ratings may be obtained by multiplying the pressure drop at the pressure stated, (related to 2 bar g / 30 psig) by the factors shown in the table below.

Working pressure (bar g)	1	2	3	4	5	6
Working pressure (psig) ⁽⁴⁾	15	30	45	60	75	90
Factors to apply	1.50	1.00	0.75	0.60	0.50	0.45

To convert mbar to kPa multiply by 0.1

⁽⁴⁾ psi rounded figure.

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Ordering Information

Pall Part Number: **AGT** **463 G** **H4***

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

Code	Inlet/Outlet
05	For 3/8" 'Tri-Clamp' to ISO 2852
23	For 1" Tri-Clamp to ISO 2852
NW15	Dairy fitting NW15 to DIN11851
B21	Buttweld 21.3 x 1.6 mm to ISO1127

Code	Vent
D	For 1/2" Tri-Clamp to ISO 2852
E	Butt weld 13.5 x 1.6 mm to ISO 1127
H	Sanitary valve with quick-release fitting for 'Stäubli' couplings
N	No vent

Code	Drain
D	For 1/2" Tri-Clamp to ISO 2852
H	Sanitary valve with quick release fitting for Stäubli couplings
K	Sanitary valve with hose barb for 6 mm i.D. tubing
E	Butt weld 13.5 x 1.6 mm to ISO 1127
N	No drain

* Gasket material silicone, other gasket materials available on request. Please contact Pall.

Main Accessories and Spares

Pall Part Number	Description
ACS0598CM	Diaphragm valve for 1/2" Tri-Clamp compatible connections to ISO 2852 inc. clamp and silicone gasket
ORH4P-150	Silicone housing closure gasket
ACS0718EU	Housing valve gasket kit
ACS0224DA	V - Clamp housing closure

Further spares and accessories available upon request



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