

# Pall Advanta™ ALT4 Multi-round Housings

## Advanced Multi-round Sanitary Filter Housings for Liquid Applications



The Pall **Advanta** filter housings have 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.

This multi-round version of the Pall **Advanta** housing range is designed to allow up to four filter elements in parallel arrangement.

During the design process, critical features were optimized to ensure 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
- Options available for use with CIP spray cleaning device
- Every housing supplied with a quality certificate and manufactured to ATEX Directive 94/9/EC (Group II Category 2)
- Design variants to ASME and European Pressure Equipment Directive, CE marking available

\* Stäubli is a trademark of Stäubli AG.

# Pall Advanta ALT4 Multi-round Housings

## Technical Specifications

### Materials of Construction

<b>Housing</b>	AISI 316L Stainless Steel
<b>Clamp</b>	AISI 316L and Nitronic* 60 Stainless Steel
<b>Seals</b>	Silicone elastomer
<b>Surface Finish</b>	<b>Internal:</b> Ra ≤ 0.4 μm (≤ 15 μin.) (typical) <b>External:</b> Ra ≤ 0.8 μm (≤ 32 μin.) (typical)
<b>Inspection Documentation</b>	Certificate type 2.3 to EN10204

\* Nitronic is a registered trademark of Armco, Inc.

### Operating Conditions

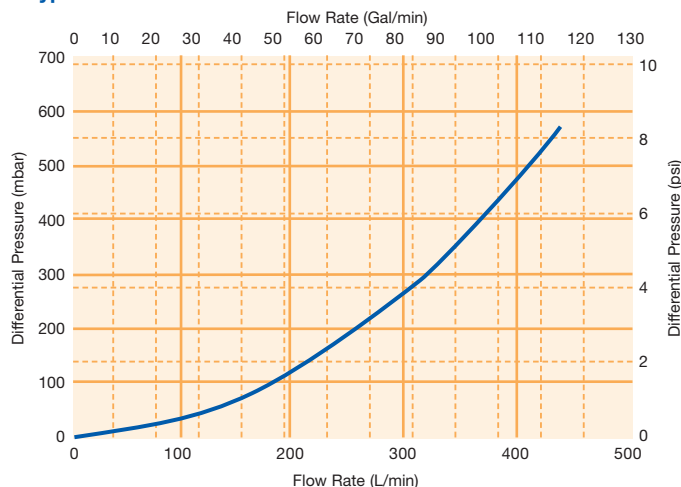
<b>Maximum Operating Pressure</b>	-1 to 10 barg (-14.5 <sup>(1)</sup> to 150 psig)
<b>Maximum Operating and Steaming Temperature</b>	150 °C (300 °F)

<sup>(1)</sup> Full vacuum.

### Nominal Dimensions

Part Number	Width (Face to Face)	Overall Height	Clearance Required
ALT41G31ABH4	319 mm (12.6 in.)	528.5 mm (20.8 in.)	310 mm (12.2 in.)
ALT41G31CBH4	319 mm (12.6 in.)	486.5 mm (19.2 in.)	310 mm (12.2 in.)
ALT41G31CDH4	319 mm (12.6 in.)	476.5 mm (18.8 in.)	310 mm (12.2 in.)
ALT41G31DDH4	319 mm (12.6 in.)	476.5 mm (18.8 in.)	310 mm (12.2 in.)
ALT41GNW50ABH4	319 mm (12.6 in.)	528.5 mm (20.8 in.)	310 mm (12.2 in.)
ALT41GA50ABH4	319 mm (12.6 in.)	528.5 mm (20.8 in.)	310 mm (12.2 in.)
ALT41G95ABH4	368 mm (14.5 in.)	528.5 mm (20.8 in.)	310 mm (12.2 in.)
ALT42G31ABH4	319 mm (12.6 in.)	777.5 mm (30.6 in.)	564 mm (22.2 in.)
ALT43G31ABH4	319 mm (12.6 in.)	1025.4 mm (40.4 in.)	818 mm (32.2 in.)
ALTA41G31ABH4	373 mm (14.7 in.)	526 mm (20.7 in.)	310 mm (12.2 in.)
ALTA41G31CBH4	373 mm (14.7 in.)	526 mm (20.7 in.)	310 mm (12.2 in.)
ALTA41G31CDH4	373 mm (14.7 in.)	526 mm (20.7 in.)	310 mm (12.2 in.)
ALTA41G31DDH4	373 mm (14.7 in.)	487 mm (19.2 in.)	310 mm (12.2 in.)

### Typical Water Flow Rates<sup>(2)</sup>



<sup>(2)</sup> 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.

### Main Accessories and Spares

Part Number	Description
ACS0598CM	Diaphragm valve for ½ in. sanitary flange compatible connections including clamp and silicone gasket
ACS0457FA	Pressure gauge kit -1 to 10 barg for 1½ in. sanitary flange connection to ISO 2852 (includes clamp and gasket)
ORH4P-676	Silicone housing closure gasket
ACS0602EM	Silicone housing valve gasket kit
LY00381	Valve knob cap
CC41608CC00	Valve stem
ACS0364DA	V-clamp housing closure
ACS0814AS	CIP Spray Device

\* Further spares and accessories available upon request.

### Ordering Information

ALT		4		G				H4	
Code	Design	Code	Cartridge Type	Code	Inlet and Outlet	Code	Vent	Code	Drain
-	To European Pressure Equipment Directive	05	AB05 code 2	G31	50 mm (2 in.) OD tubing with sanitary flange to ISO 2852	A	Sanitary valve with quick release fitting for Stäubli* type couplings	B	Sanitary valve with hosebarb for 8 mm ID tubing
A	To ASME Code	1	AB1 code 7	GNW50	Dairy fitting NW50 to DIN 11851	C	For 1½ in. sanitary flange connection to ISO 2852 with side sanitary valve with quick release fitting for Stäubli* type couplings	D	For ½ in. sanitary flange connection
D	To European Pressure Equipment Directive with enhanced documentation including 3.1b stamped material and certification	2	AB2 code 7	GA50	Aseptic thread connection NW50 to DIN 11864-1	D	For ½ in. sanitary flange	N	No drain
		3	AB3 code 7	G95	Butt weld 60.3 x 2.3 mm <sup>(3)</sup>	E	Butt weld 13.5 x 1.6 mm <sup>(3)</sup>		
		4	AB4 code 7	G34	50 mm (2 in.) NB SCH10	S	For 1½ in. sanitary flange connection to ISO 2852 with side connection for ½ in. sanitary flange		
						N	No vent		

<sup>(3)</sup> Wall thickness as specified in ISO1127.

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