

Sealkleen™ Filter Housings

Versatile In-line Filter Housings for Small-scale Production



Left: ZLK702G10NKH4
Right: ZLK702G23LHKH4



Sealkleen filter housings are versatile in-line filter housings for small-scale production. In-line filter housings are ideally suited for bench top applications and processes where minimal hold-up volumes are required to maximize product yields. The Pall **Sealkleen** housing combines this key requirement with a unique production safety concept.

Its patented sealing mechanism ensures that the downstream section of the filter is essentially never contaminated with unfiltered fluid. Designed for GMP use, these housings are easy to use and benefit from low installation and maintenance costs.

Pall **Sealkleen** filter housings are made from stainless steel grade AISI 316L. Advanced manufacturing technologies including CNC machining and orbital welding ensures a robust and highly sanitary design.

Features of this housing range include high quality electropolished internal surfaces, a design optimized for CIP/SIP requirements, design variants for easy automation, as well as convenient filter integrity testing.

Features and Benefits

- Aseptic design — with electropolished surfaces giving typical internal Ra-values of $\leq 0.4 \mu\text{m}$ ($\leq 15 \mu\text{in.}$) without crevices or deadlegs
- High product yields by low hold-up volumes
- Valve designed for easy operation, maintenance and filter integrity testing
- Variants for integration into automated systems
- Wide range of connection options

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Technical Specifications

Materials of Construction

All Product Wetted Parts	AISI 316L
V-Clamp	AISI 316L, Nitronic 60
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 psig)
Maximum Operating Temperature	150 °C (300 °F)

⁽¹⁾ Full vacuum.

Nominal Dimensions

Part Number	A ⁽²⁾	B	C ⁽³⁾	Weight	Volume
ZLK702G23LHKH4	202 mm (8.0 in.)	63.5 mm (2.5 in.)	135 mm (5.3 in.)	1.1 kg (2.42 lbs)	0.5 L
ZLK702G23LDDH4					
ZLK702GNW15NKH4					
ZLK702G10NKH4	270 mm (10.7 in.)	63.5 mm (2.5 in.)	135 mm (5.3 in.)	1.1 kg (2.42 lbs)	0.5 L

⁽²⁾ SLK7001 variant may be possible, please contact Pall for details.

⁽³⁾ For use with Sealkleen SLK7002 filter elements. Where SLK7001 type filters are used, the clearance requirement reduces to 75 mm (3.0 in.).

Gas flow and differential pressure characteristics refer to the empty housing only for air at 2 barg pressure and 20 °C (68 °F). Pressure drops for other pressure ratings may be obtained by multiplying the pressure drop at 2 barg by the factors shown in table below.

Pressure Comparisons

Working Pressure (barg)	1	2	3	4	5	6
Working Pressure (psi) ⁽⁴⁾	15	30	45	60	75	90
Factor to Apply	1.50	1	0.75	0.60	0.50	0.42

⁽⁴⁾ psi rounded figure.

Main Accessories and Spares

Part Number ⁽⁴⁾	Description
ACS0598CM	Diaphragm valve for ½ in. sanitary flange connections including clamp and silicone gasket
ACS0272EU	Silicone housing gasket
SLK1VG23H4	Downstream gasket (silicone)
ACS0718EU	Housing valve gasket (silicone)
ACS0224DA	V – Clamp housing closure
ORH4P-335	Silicone housing closure gasket

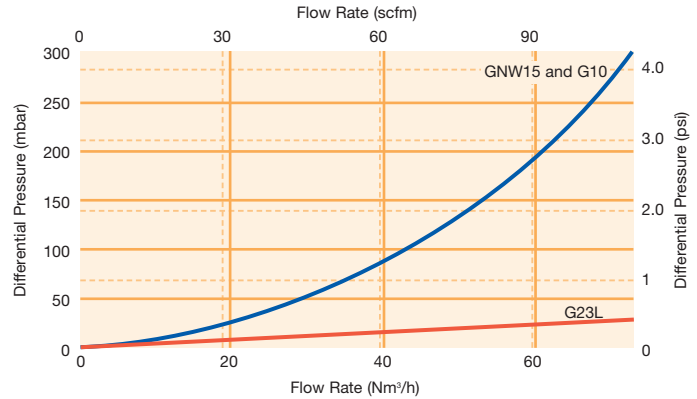
⁽⁴⁾ For steam jacketed housing option, please contact Pall.

Ordering Information

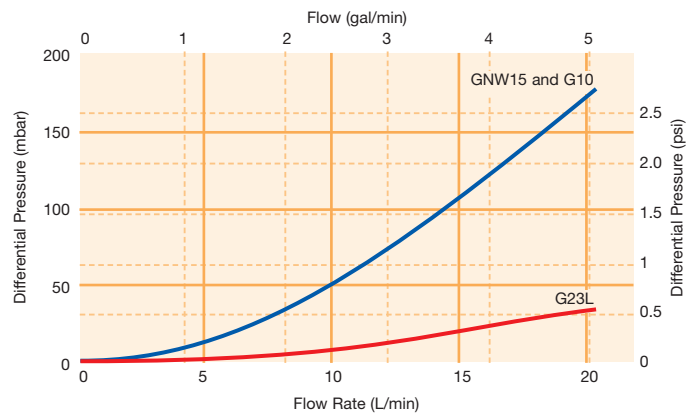
ZLK 702		G		H4 ⁽⁶⁾	
Code	Inlet and Outlet	Code	Vent	Code	Drain
23L	For 1½ in. sanitary flange ⁽⁵⁾	D	For ½ in. sanitary flange ⁽⁵⁾	D	For ½ in. sanitary flange ⁽⁶⁾
NW15	Dairy fitting NW15 to DIN 11851	H	Sanitary valve with quick release fitting for Stäubli* couplings ⁽⁶⁾	K	Sanitary hose barb valve for 6 mm (¼ in.) I.D. tubing
10 ⁽⁷⁾	Hosetail for 13 mm (½ in.) i.d. tubing	K	Sanitary hose barb valve for 6 mm (¼ in.) i.d. tubing ⁽⁷⁾		
		N	No vent		

⁽⁵⁾ Gasket material silicone, other materials available on request.
⁽⁶⁾ Available for sanitary flange inlet and outlet connections only.
⁽⁷⁾ Care should be taken to fit hoses to the housing in a secure manner suitable to withstand the maximum operating pressure of 10 barg (150 psig).

Typical Gas Flow Rates



Typical Water Flow Rates



Filter Styles and Dimensions

