

Description

The Pall XpressKleen KC disposable assembly uses a new generation of surface modified PTFE membrane designed for leading edge critical chemical processes.

The XpressKleen KC filter provides control of critical size particles and maintains purity of critical fluids with a product guarantee of total metal ion extractables. The XpressKleen filter's surface cleanliness includes removal of organic contamination and surface particles. This makes the filter suitable for use in point of use (POU) and at the point of process (POP) to help fabs define a contamination control system that delivers the required fluid purity to the wafer.

Filter cleanliness reduces process downtime and delivers fast qualification following filter change.

The XpressKleen KC assembly is a completely disposable filter unit designed for critical single pass use.



Features & Benefits

- Low extractables
- > 40 nm particle rinse up control in UPW¹
- TOC control
- 100% prewetted with ultrapure water in package
- Medium size designed KC assembly for POU retention
- Disposable filter unit with filter cartridge integrally sealed in housing
- Sealed assembly for safer handling and faster change-out
- 100% integrity tested

¹ > 20 nm particle rinse up control in UPW for 5 nm and 2 nm grade

Specifications

Materials of Construction

Parts	Material ²
Filter Medium	Surface-modified PTFE
Media Support	PTFE / PFA
Core, Cage and End Caps	PFA
Housing	PFA

² All fluoropolymer materials made without PFOA

Removal Ratings and Operating Conditions

Removal Ratings	1 nm	2 nm	5 nm	10 nm	12 nm	15 nm	30 nm
Media Code	XP1	XP2	XP5	XP10	XP12	XP15	XP30
Metal Extractables	< 1 ppb ⁵		< 1 ppb ⁴	< 1 ppb ³	< 3 ppb ³		
Flow	In-line						
Maximum Operating Temperature	185 °C / 365 °F						
Maximum Operating Pressure	0.49 MPaG @ 25 °C / 71 psig @ 77 °F						
	0.39 MPaG @ 60 °C / 56.6 psig @ 140 °F						
	0.34 MPaG @ 90 °C / 49.3 psig @ 194 °F						
	0.20 MPaG @ 120 °C / 29 psig @ 248 °F						
	0.15 MPaG @ 150 °C / 21.8 psig @ 302 °F						
	0.12 MPaG @ 185 °C / 17.4 psig @ 365 °F						

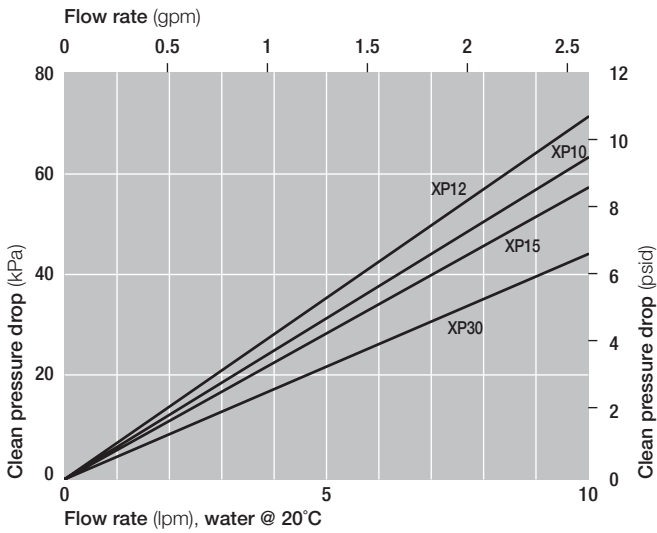
³ Total metal concentrations in 13 elements: Li, Na, Mg, Al, K, Ca, Cr, Mn, Fe, Ni, Cu, Zn, Pb.

⁴ Total metal concentrations in 19 elements: Al, Ba, B, K, Na, Fe, Li, Mg, Mn, Pb, Sn, Ti, Zn, Ni, Cu, Cr, Co, Ca, Ag.

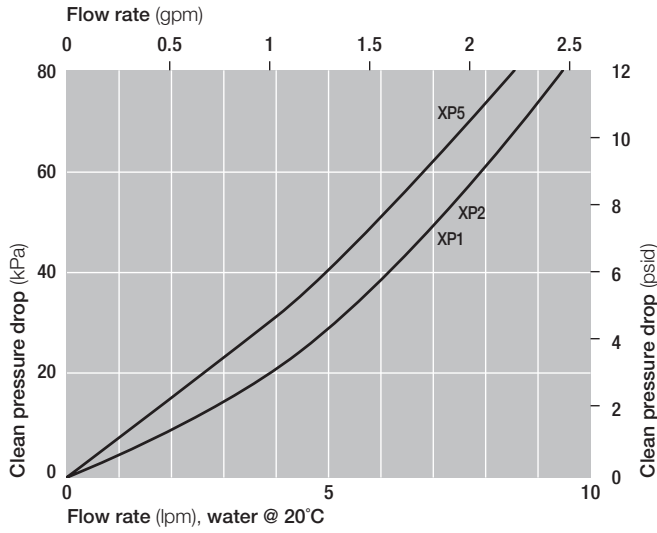
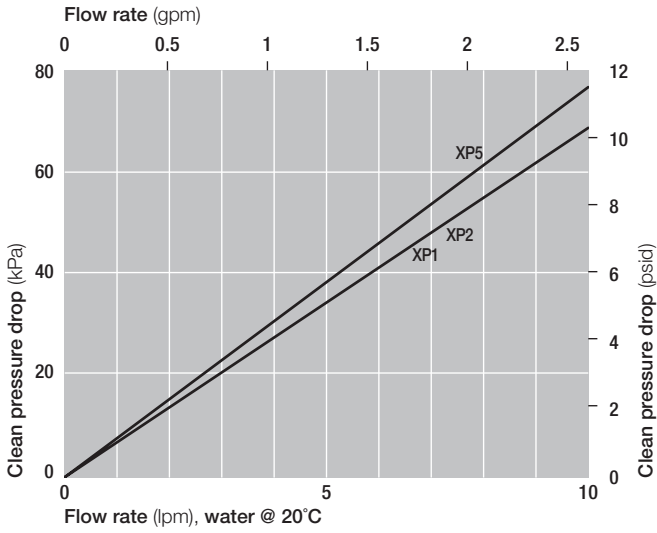
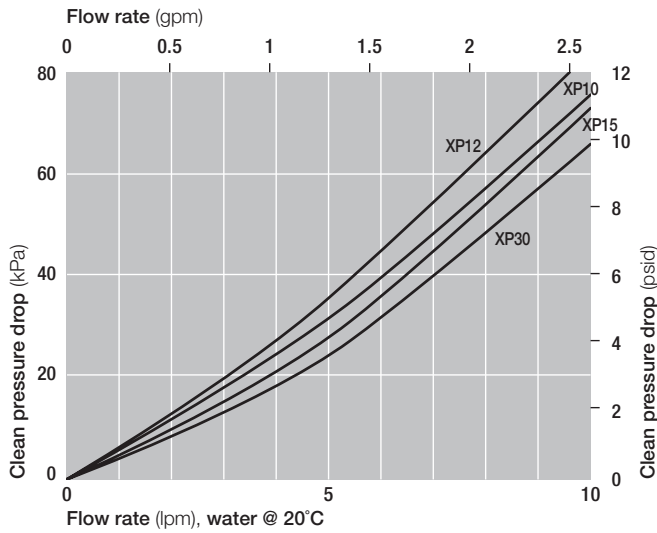
⁵ Total metal concentrations in 30 elements: Al, Ba, B, K, Na, Fe, Li, Mg, Mn, Pb, Sn, Ti, Zn, Ni, Cu, Cr, Co, Ca, Ag, Mo, Pd, Pt, Ru, As, Au, Cd, Sb, Sr, V, W.

Typical Flow Characteristics - 1cP fluid, 20 °C

In-line KC (1/2 in)



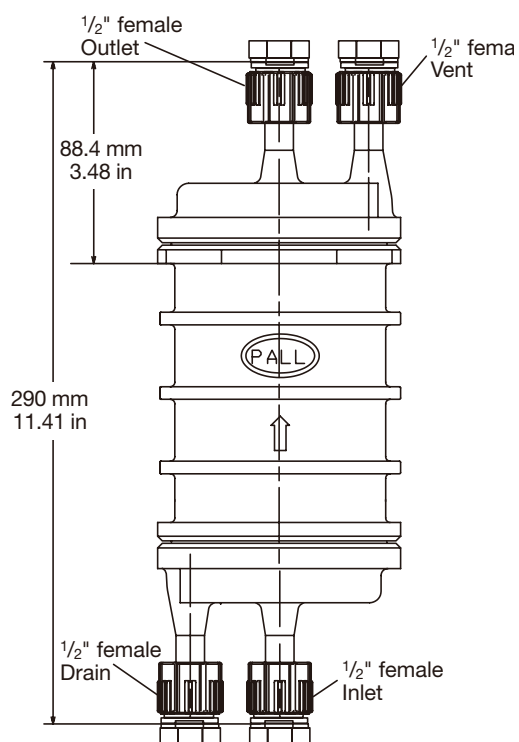
In-line KC (3/8 in)



Nominal Dimensions

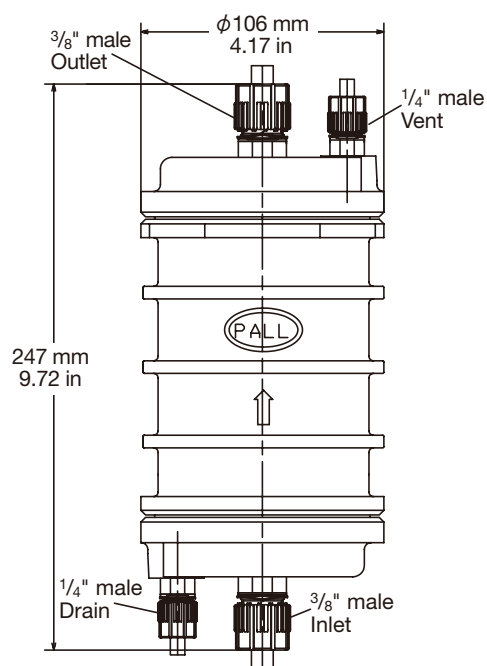
Super Pillar⁵ 300 P series

1/2" female fitting



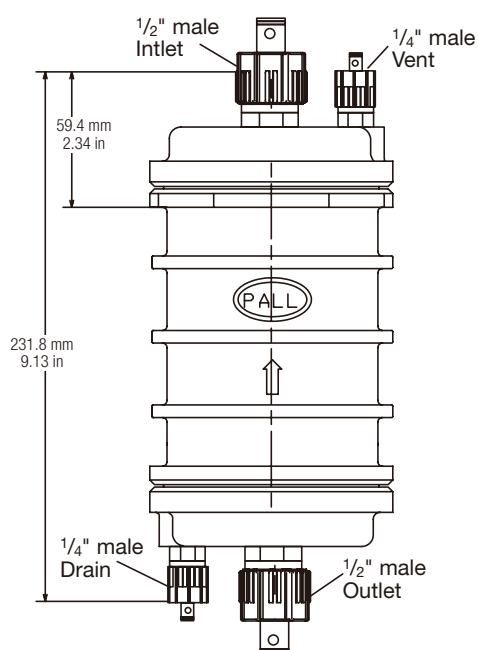
LDFN05_09E71 / 72

3/8" male fitting



LDFN05_64E71

1/2" male fitting



LDFN05_84E71

⁵ Super Pillar is a trademark of Nippon Pillar Packing Co., Ltd.

Part Numbers / Ordering Information⁶

LDFN05XP 1 2 E 3

Table 1

Code	Removal Ratings
1	1 nm
2	2 nm
5	5 nm
10	10 nm
12	12 nm
15	15 nm
30	30 nm

Table 2

Code	Inlet / Outlet	Vent / Drain
06⁷	3/8" in male	1/4" in male
64⁸	3/8" in male	1/4" in male
08	1/2" in male	1/4" in male
84⁸	1/2" in male	1/4" in male
09	1/2" in female	1/2" in female

Table 3

Code	Connections
51	Flare style
71	Super Pillar 300 P series
72	Super Pillar 300 P series L type

⁶ Part numbers in combination with all codes are not always available. Please contact Pall for part number availability.

⁷ Flare style only

⁸ Super Pillar 300 P series only



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IF APPLICABLE Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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