

UltiKleen™ Excellar ER JKC Assemblies

Description

The UltiKleen Excellar ER filters show enhanced retention (ER) and improved non-dewetting properties over previous designs. These properties enable semiconductor makers to meet the chemical process filtration requirements of the 22 nanometer manufacturing node and beyond. The result is a robust, reliable, and chemically clean filter suitable for use in aggressive cleaning chemistries such as SPM, SC-1 and SC-2.

The JKC (Junior Kleen-Change®) assembly is a completely disposable filter unit and is designed for critical single-pass, point-of-use retention.

Features

- Enhanced retention (ER) of particles
- Robust non-dewetting PTFE medium
- High flow rates
- Hyperfine porous media matrix design
- All ultra high purity fluoropolymer construction
- 100% integrity tested



Specifications

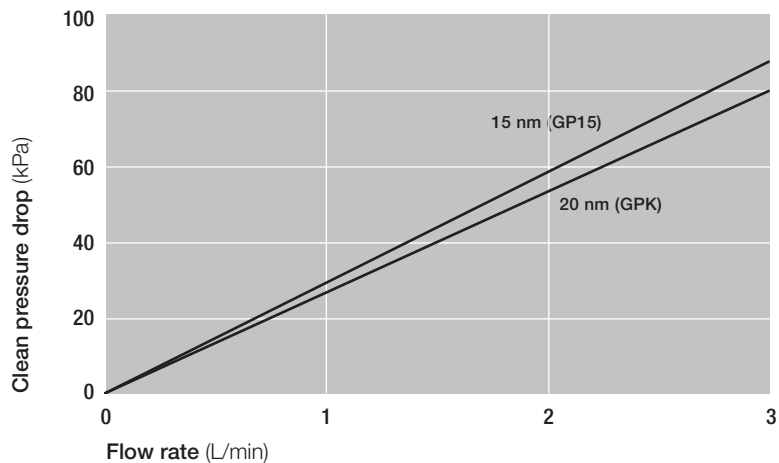
Materials of Construction

Components	Materials
Filter Medium	Surface modified PTFE
Media Support	PFA
Core / Outer Cage	PFA
End Caps	PFA
Housing	PFA

Removal Ratings and Operating Conditions

Removal Ratings	20 nm, 15 nm
Configurations	In-line
Nominal Filter Area	1300 cm ² / 1.4 ft ²
Maximum Operating Temperature	120 °C / 248 °F
Maximum Operating Pressure	0.50 MPaG < 25 °C / 73 psig < 77 °F 0.20 MPaG < 90 °C / 28 psig < 194 °F 0.15 MPaG < 120 °C / 21 psig < 248 °F

Pressure Drop vs. Liquid flow Rate¹ (Water, 20°C)

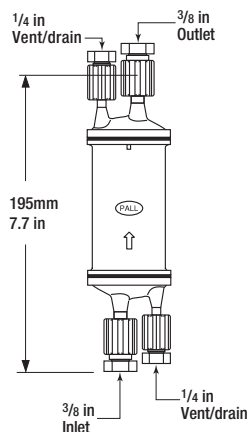


¹ Typical flowrates. For liquids with viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.

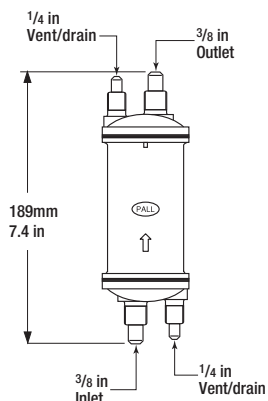
Unit conversion: 1 bar = 100 kPa

Dimensions²

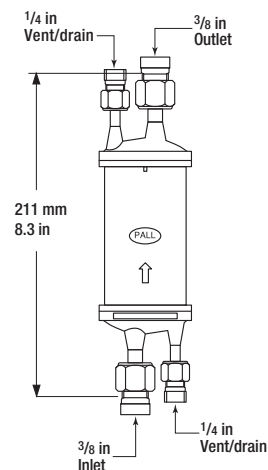
Female Flare style type



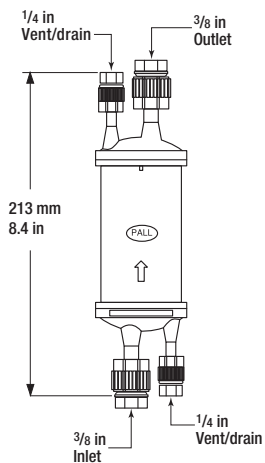
Male Flare style type



Female Super Pillar type



Female Super Pillar 300P series type



² Nominal length

Part Numbers / Ordering Information

LDFN 03 1 2 E 3 4

Table 1

Code	Removal Ratings
GP15	15 nm
GPK	20 nm

Table 2

Code	Inlet / Outlet	Vent / Drain
06 ²	3/8 in male	1/4 in male
7	3/8 in female	1/4 in female
08 ²	1/2 in male	1/4 in male

² 06 and 08 are available for Flare style connection.

Table 3

Code	Connections
0	Non-connection
1	20 series (Flowell)
2	Super Pillar Type (Nippon Pillar) ³
51	Flare style
71	Super Pillar 300 P series (Nippon Pillar)
72	Super Pillar 300 P series L type (Nippon Pillar)

Table 4

Code	Prewet Option
K3	Prewet filter (packaged in DI water)
K7	Prewet filter (packaged in DI water), Low metal extractables ⁴

³ Pillar is a trademark of Nippon Pillar Packing Co.

⁴ Please contact Pall on the extractable conditions.

⁵ Part numbers in combination with all codes are not always available.

Please contact Pall for the part number availability.



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