

ChamberKleen[™] Diffusers

Description

Gas diffusers are ideally suited for vent applications on load lock interfaces or other vacuum chambers where large volumes of gas are flowing in a short amount of time.

The Pall ChamberKleen[™] 1100 and 5500 Series diffusers combine a stainless steel filter and a unique diffuser membrane that allows flow in 360 degrees. This combination allows large volumes of gas to flow in a uniform manner, limiting the disturbance of particles in the chamber. Consequently, fast vent times can be achieved with little particle disturbance.

- Reduces turbulent gas flow during venting of process chambers
- 360° diffuser design optimizes gas flow
- 316L stainless steel filter medium
- 316L stainless steel diffuser
- Cleanroom manufactured and packaged

Specifications

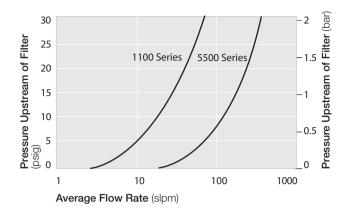
Materials	 316L stainless steel filter medium 316L stainless steel diffuser Viton¹ O-ring ≤ 22 µin / 0.56 µm R_a internal surface finish
Removal Rating	 ≥ 0.003 µm No particle contribution above background; ≤ 1 particle /(ft³ or m³)
Connections	 1100 Series: NW25 ISO Vacuum Flange 5500 Series: NW63 ISO Vacuum Flange

Operating Conditions	 Design Flow Rate² 1100 Series: 15 slpm @15 psig/1 bar inlet and outlet to full vacuum (<10 torr) 5500 Series: 150 slpm @15 psig/1 bar inlet and outlet to full vacuum (<10 torr) Maximum Operating Temperature 1100, 5500 Series: 300°F/149°C (limited by O-ring flange connection) 	
Recommended Applications	Vacuum chamberLoad lock chamber	

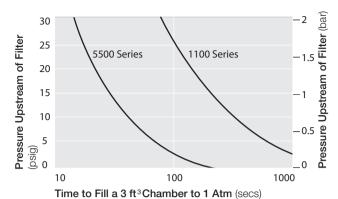
¹ Viton is a registered trademark of DuPont Dow Elastomers

² Additional designs are available. Please contact Pall Microelectronics for more information.

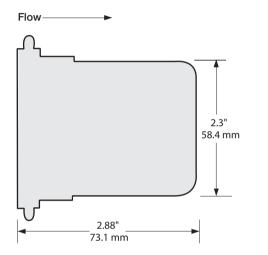
Pressure vs. Average Flow Rate

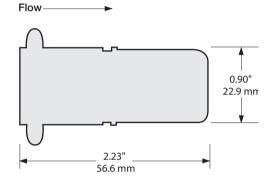


Pressure vs. Chamber Fill Time



Dimensions





1100 Series

5500 Series

Part Numbers / Ordering Information

Part Number	Description	Design Flow Rate (slpm)
CK1100I25H	1100 Series, 316L stainless steel filter, Viton ¹ O-ring	0-15
CK5500163H	5500 Series, 316L stainless steel filter, Viton O-ring	0-150



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