

CMP StarKleen™ Nano Filter Capsules



Data Sheet MECMPSNCENb

Description

CMP StarKleen™ Nano filter capsules have been developed for the classification of both ceria and low solids colloidal silica slurries at or near tools used in advanced CMP processes, such as shallow trench isolation (STI) and barrier copper. Pall's most advanced melt-blowing process has been utilized to manufacture extremely fine fibers that improve removal efficiency of particles as fine as 100 nm. The ultra-fine fiber matrix is ideally suited for removing particles like ceria that are predominantly captured by mechanical filtration mechanisms like sieving.

Features & Benefits

- Multi-zone pore construction optimizes both efficiency and long service life
- Compact, completely disposable all-polypropylene material with Flare style or NPT connections for easy change-outs. Vents and drains are available with either NPT or Flare style fittings
- Each zone is manufactured to a given specification that ensures consistent, reproducible performance
- Steep efficiency curves result in minimal strip-out of desirable slurry particles while sharply increasing removal of oversized particles

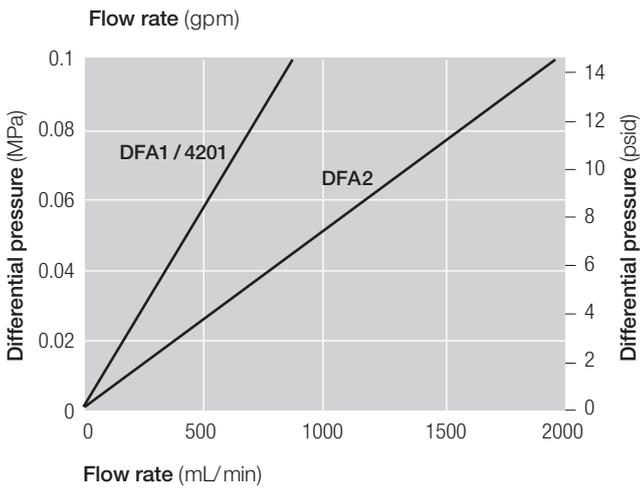


Specifications

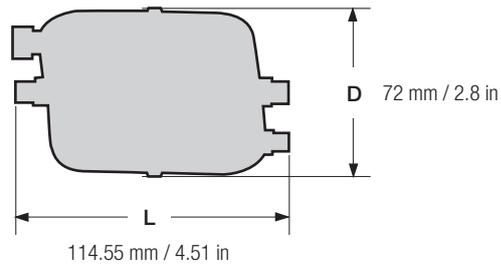
Materials	Medium: Polypropylene
	Core: Polypropylene
	Shell: Polypropylene
Removal Rating	100 nm
Operating Conditions¹	Maximum operating pressure: 0.5 MPa @ 25 °C / 72.5 psig @ 77 °F
	Maximum operating pressure: 0.2 MPa @ 40 °C / 29 psig @ 104 °F
	Maximum operating temperature: 40 °C / 104 °F
Connections	Inlet / outlet: 1/4" NPT, 1/4" Flare style, 3/8" Flare style
	Vent / drain: 1/8" NPT, 1/4" Flare style

¹ In compatible fluids which do not soften, swell, or adversely affect the filter performance or materials of construction.

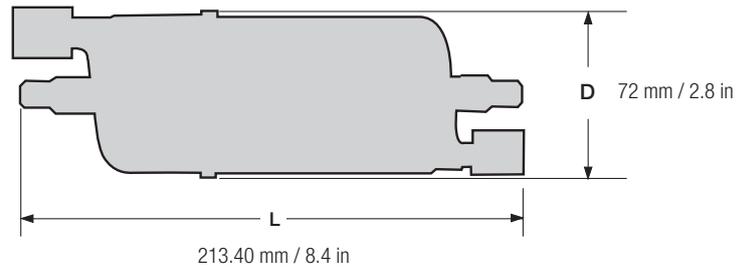
Typical Flow Characteristics – 1 cP fluid, 20 °C



Dimensions



DFA1 / DFA4201



DFA2

Part Numbers / Ordering Information

Part Number	Removal rating	Connections Inlet, outlet / Vent, drain	Nominal length (mm / in)
DFA4201NP100	100 nm	1/4" NPT / 1/8" NPT	114.55 / 4.51
DFA1NP100FL4N2	100 nm	1/4" Flare style / 1/8" NPT	114.55 / 4.51
DFA2NP100F64	100 nm	3/8" Flare style / 1/4" Flare style	213.40 / 8.4



Microelectronics

25 Harbor Park Drive
Port Washington, NY 11050
+1 516 484 3600 telephone
+1 800 360 7255 toll free US

Nihon Pall Ltd.

6-5-1, Nishishinjuku,
Shinjuku-ku
Tokyo 163-1325 Japan
+81 3 6901 5700 telephone
+81 3 5322 2109 fax

Visit us on the Web at www.pall.com/microelectronics
Contact us at www.pall.com/contact

Pall Corporation has offices and plants throughout the world. To locate the Pall office or distributor nearest you, visit www.pall.com/contact.

The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly.

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.

© Copyright 2021, Pall Corporation. Pall, , and Starkleen are trademarks of Pall Corporation.
® Indicates a trademark registered in the USA.