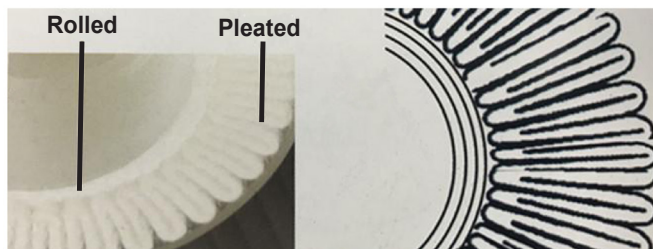


DUALVALID™ SERIES CMP FILTER

DUAL TECHNOLOGY POLYPROPYLENE NANOFIBER DEPTH CMP SLURRY FILTRATION

Dualvalid CMP filters are uniquely designed for integrated circuit manufacturers and chemical mechanical planarization slurry manufacturers. Cobetter's patented construction combines two slurry filtration technologies, wide pleats and rolled graded density polypropylene media in one filter. The outer wide pleats increase media surface area and promote longer filter life, while the rolled media construction around the core provides efficient retention of those particles which are likely to cause scratches on the surface of the wafer.

Dualvalid is a good choice for slurries where lower pressure drops are desirable, without giving up efficient defect-causing particle removal.



FEATURE

BENEFIT

Outer layer wide pleats	Provides high flow rates and dirt holding capacity
Inner multi-layer nanofiber rolled media	Provides high flux rate and efficient defect causing particle removal
Polypropylene media	Compatible with most slurries
Flushed with ultra-pure water	Ensures high cleanliness and low particle shedding

SPECIFICATIONS

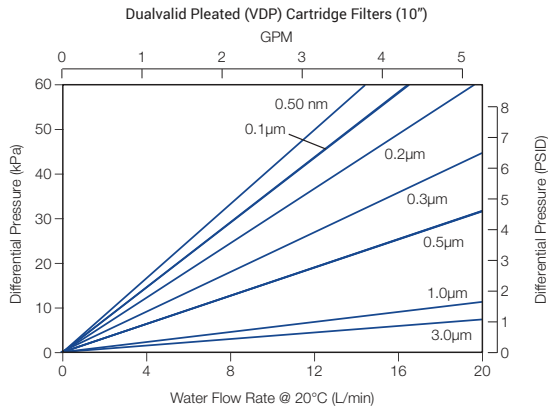
Filter media	Combined pleated (outer) and rolled (inner) Polypropylene Micro and Nanofiber
Retention	50 nm to 3 μm
Cage/Core/End Caps	Polypropylene
O-rings	TEV, EPDM
Max. operating temperature	Cartridge: 80°C



Typical Applications

- Most slurries, including those for ILD, PMD, STI, W, and Cu/barrier

DUALVALID CARTRIDGE FLOW RATES



DUALVALID CARTRIDGE ORDERING INFORMATION (222/FLAT)

EXAMPLE: **VDP00500TC10PD** = dual pleated filter, 0.5 µm, 10" length, TEV O-rings, packaged dry

VDP



Removal Rating

NM50 = 50 nm
 0010 = 0.1 µm
 0020 = 0.2 µm
 0030 = 0.3 µm
 0050 = 0.5 µm
 0100 = 1.0 µm
 0300 = 3.0 µm

OTC



Nominal Length

10 = 10"
 20 = 20"



Seal Material

P = TEV
 E = EPDM



Package

D = Dry
 WH = Prewet,
 UPW + 1% H₂O₂

DUALVALID CAPSULE ORDERING INFORMATION

EXAMPLE: **VDP005BFL64-4D** = dual pleated filter, 0.5 µm, flare connection with 3/8" inlet/outlet and 1/4" vent/drain, packaged dry

VDP



Removal Rating

NM50 = 50 nm
 0010 = 0.1 µm
 0020 = 0.2 µm
 0030 = 0.3 µm
 0050 = 0.5 µm
 0100 = 1.0 µm
 0300 = 3.0 µm
 0500 = 5.0 µm



Connection Type

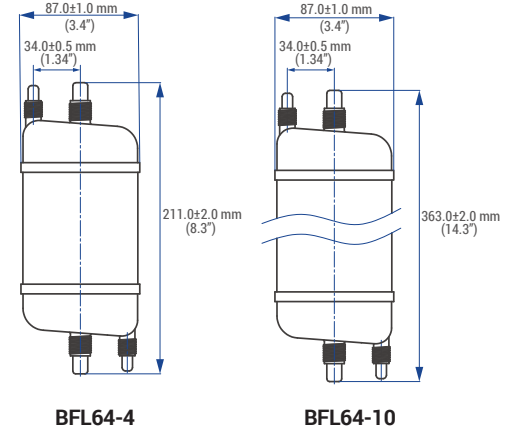
BFL64-4 = Flare Connection: 3/8" Inlet/Outlet;
 1/4" Vent/Drain, 211 mm (8.3")
BFL64-10 = Flare Connection: 3/8" Inlet/Outlet;
 1/4" Vent/Drain, 363 mm (14.3")



Package

D = Dry
 WH = Prewet,
 UPW + 1% H₂O₂

DUALVALID CAPSULE DIMENSIONS



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