



NOVACISE™ HIGHLY ASYMMETRIC PES FILTERS

ULTRA-HIGH PARTICLE REMOVAL EFFICIENCY, WITH HIGH FLOW RATE AND HIGH SURFACE ENERGY TO SUPPORT RAPID OPERATION

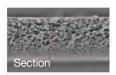
Cobetter Novacise™ Series is a cost-effective filtration alternative for dilute acids, bases and other process chemicals which are often used in certain high-purity wet etch and clean microelectronics applications.

The asymmetric PES membrane provides desirable characteristics including a high flux rate, high dirt holding capacity, and longer filter lifetime. In addition, the membrane structure reduces bubbles formation during flow.

Cobetter Novacise Filters have efficient particle retention and low metal extractables. In addition, these cartridges have high mechanical strength and are suitable for a wide variety of filtration applications.







FEATURE	BENEFIT	
High surface energy	Very high flow rates and longer life	
highly assymetric PES membrane	Excellent particle retention	
	Low surfactant binding	
	Shorter equipment pre-operation time	
Polypropylene supports, cage, & core	Low extractables	
	Good chemical compatibility	
Manufactured in a cleanroom environment	Meets high semiconductor manufacturing standards	
100% integrity tested	Ensures fail-safe performance every time	

SPECIFICATIONS

SF LOII ICATIONS		
Filter media	Hydrophobic HAPES / Hydrophilic HAPES	
Supports/core/cage/end caps	Polypropylene	
O-rings (cartridge only)	TEV or EPDM	
Shell (disposable only)	Polypropylene	
Max. operating temperature	Cartridge: 90°C; Capsule: Please refer to ordering information	
Capsule max. operating pressure	Please refer to ordering information	
Cartridge max. differential pressure	Forward/Reverse: 0.34 MPa (3.4 bar, 49 psi) at 25°C	

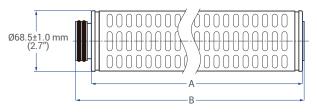


Typical Applications

- Process: Wet Etch and Cleans; chemical manufacturing
- Installation Point: Point of Tool, bulk filtration
- Chemistry: Dilute acids (such as BOE/ DHF/SC2); Dilute bases (such as SC1/ TMAH); DIW

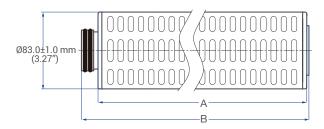
tive filtration area X1 Z1 ø68 mm (2.7") ø83 mm (3.27")
10" 0.8m² (8.6ft²) 1.4m² (15.0ft²)

NOVACISE X1 CARTRIDGE FILTERS (2-222/FLAT)



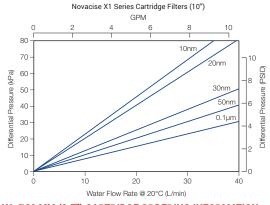
Length Code	Α	В
04	102.5 ±1 mm (4")	122.0 ±1 mm (4.8")
10	242.5 ±2 mm (9.5")	262.5 ±2 mm (10.3")
20	488.0 ±3 mm (19.2")	508.0 ±3 mm (20.0")
20C	478.0 ±3 mm (18.8")	498.0 ±3 mm (19.6")
30	731.5 ±4 mm (28.8")	751.5 ±4 mm (29.6")

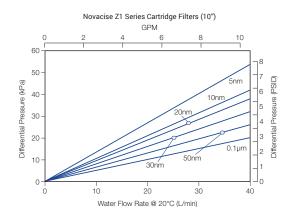
NOVACISE Z1 CARTRIDGE FILTERS (2-222/FLAT)



Length Code	Α	В
10	225.0 ±2 mm (8.9")	245.5 ±2 mm (9.7")
20	452.0 ±3 mm (17.8")	472.5 ±3 mm (18.6")

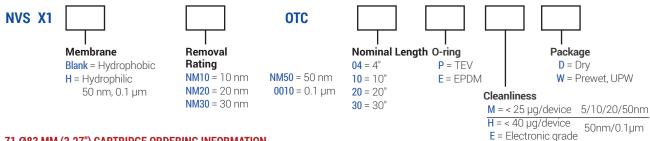
CARTRIDGE FLOW RATES





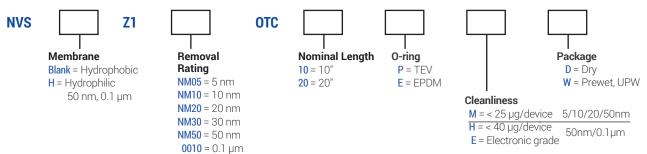
X1 Ø68 MM (2.7") CARTRIDGE ORDERING INFORMATION

EXAMPLE: NVSX1NM100TC10PMWH = hydrophobic, 2.7"W, 10nm, 10" length, TEV O-rings, M grade, pre-wet

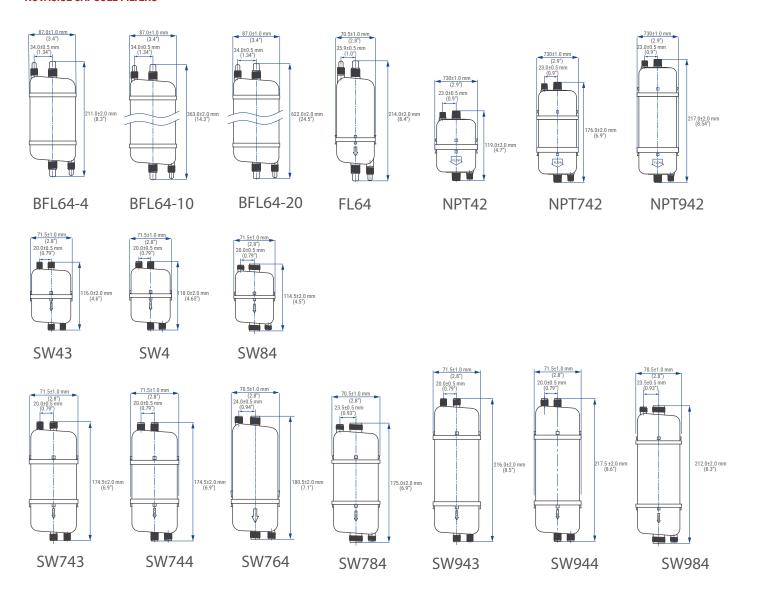


Z1 Ø83 MM (3.27") CARTRIDGE ORDERING INFORMATION

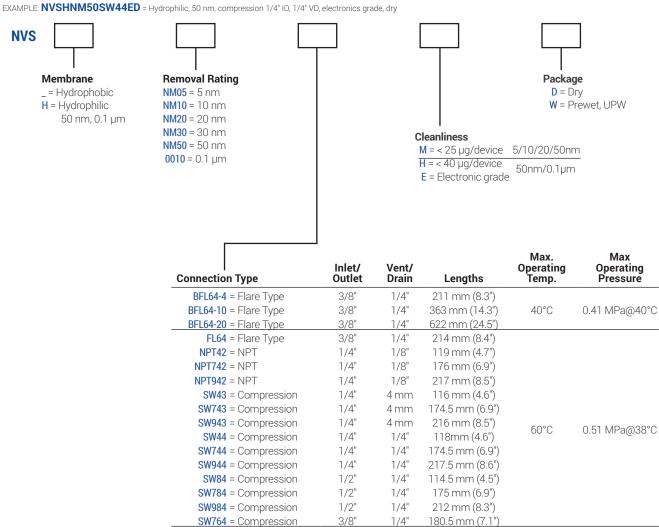
EXAMPLE: **NVSZ1NM1010PMWH** = hydrophobic, 3.27"W, 10nm, 10" length, TEV O-rings, M grade, pre-wet



NOVACISE CAPSULE FILTERS



NOVACISE CAPSULE ORDERING INFORMATION¹





¹ Not all combinations of surface area options and removal ratings are available. Please contact Banner Industries with any questions about part number availability.