

DN66T NYLON FILTER CARTRIDGES

HYDROPHILIC NYLON 66 MEMBRANE FILTERS DESIGNED FOR STERILIZATION AND BIO-BURDEN REDUCTION

DN66T Filter Cartridges are composed of a dual layer of hydrophilic Nylon 66 membrane. These filters are specifically designed for bio-burden reduction and the final filtration of a wide range of pharmaceutical and biological solutions.

FEATURE	BENEFIT
Hydrophilic Nylon 66 membrane	Ideal for rapid watability
	High bubble point ensures a more reliable retention efficiency
	Low pressure drop and high flow rates
	Dual layer ensures longer service life, with added security

QUALITY STANDARDS

Quality Assurance	These products are manufactured in a facility which adheres to ISO 9001 Practices.
Bacterial Retention	Retention of 10^7 cfu/cm ² <i>Brevundimonas diminuta</i> (ATCC® 19146) according to ASTM F838 for $\leq 0.2 \mu\text{m}$
TOC / Conductivity at 25°C	Autoclaved filter effluent meets the USP <643> for Total Organic Carbon and USP <645> for Water Conductivity per WFI requirements after a UPW flush of 50 L.
Particle Shedding	Autoclaved filter effluent meets the requirements in USP <788> for large volume parenterals/injections.
Non-Fiber Releasing	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6)
Bacterial Endotoxin	Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>.
USP <87> Cytotoxicity	Meet the requirement of USP <87> In Vitro Cytotoxicity Test
USP <88> Biological Toxicity	Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121°C plastics
Indirect Food Additive	All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182.

SPECIFICATIONS

Filter media	Hydrophilic Nylon 66 membrane (Dual Layer)
Membrane support	PET (Polyester)
Core/cage/end caps	Polypropylene
Cartridge effective filtration area	0.58m ² (6.2 ft ²)/ Ø69-10 inch
Cartridge O-rings	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM
Cartridge O-ring internal insert	PBT

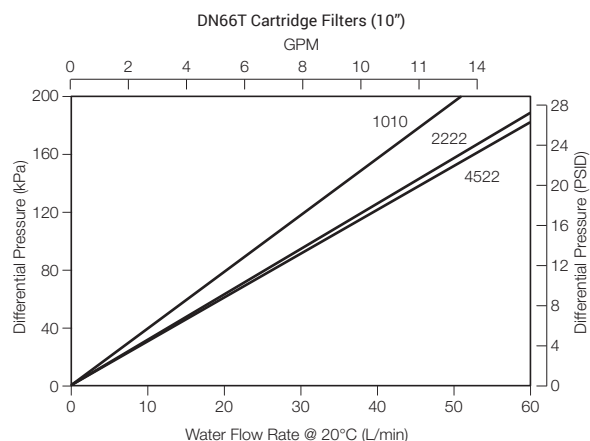


Typical Applications

- Buffer solutions
- WFI
- LVP & Antibiotics

Cartridge diameter	69 mm (2.7 in.)
Cartridge max. operating pressure	0.69 MPa (6.9 bar, 100 psi) at 25°C; 0.40 MPa (4.0 bar, 58 psi) at 60°C; 0.24 MPa (2.4 bar, 35 psi) at 80°C
Cartridge max. differential pressure	Forward: 0.69 MPa (6.9 bar, 100 psi) at 25°C; 0.40 MPa (4.0 bar, 58 psi) at 60°C; 0.24 MPa (2.4 bar, 35 psi) at 80°C Reverse: 0.3 MPa (3.0 bar, 44 psi) at 25°C; 0.1 MPa (1.0 bar, 15 psi) at 80°C
Bubble point	≥0.38 MPa (3.8 bar, 55 psi) wetted with water of 20°C, 0.1 μm + 0.1 μm ≥0.34 MPa (3.4 bar, 49 psi) wetted with water of 20°C, 0.22 μm + 0.22 μm ≥0.30 MPa (3.0 bar, 44 psi) wetted with water of 20°C, 0.45 μm + 0.22 μm
Cartridge steam sterilization	up to 50 cycles for 30 minutes at 121°C at Max.Differential Pressure of 0.3 bar (4.3 psi)
Cartridge autoclave	up to 50 cycles for 30 minutes at 121°C

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **DN66T2222HSF10S-P** = Nylon, Sterilization grade, 0.22 μm + 0.22 μm, 226/Fin, 10" filter with silicone seals

DN66T



Removal Rating

1010 = 0.1 μm + 0.1 μm
2222 = 0.22 μm + 0.22 μm
4522 = 0.45 μm + 0.22 μm
4545 = 0.45 μm + 0.45 μm
1045 = 1.0 μm + 0.45 μm



Connection

DOE = Double Open End, Flat Gasket
HTC = 222 O-ring/Flat (PBT Insert)
HTF = 222 O-ring/Fin (PBT Insert)
HSC = 226 O-ring/Flat (PBT Insert)
HSF = 226 O-ring/Fin (PBT Insert)



Nominal Length

05 = 5"
10 = 10"
20 = 20"
30 = 30"
40 = 40"



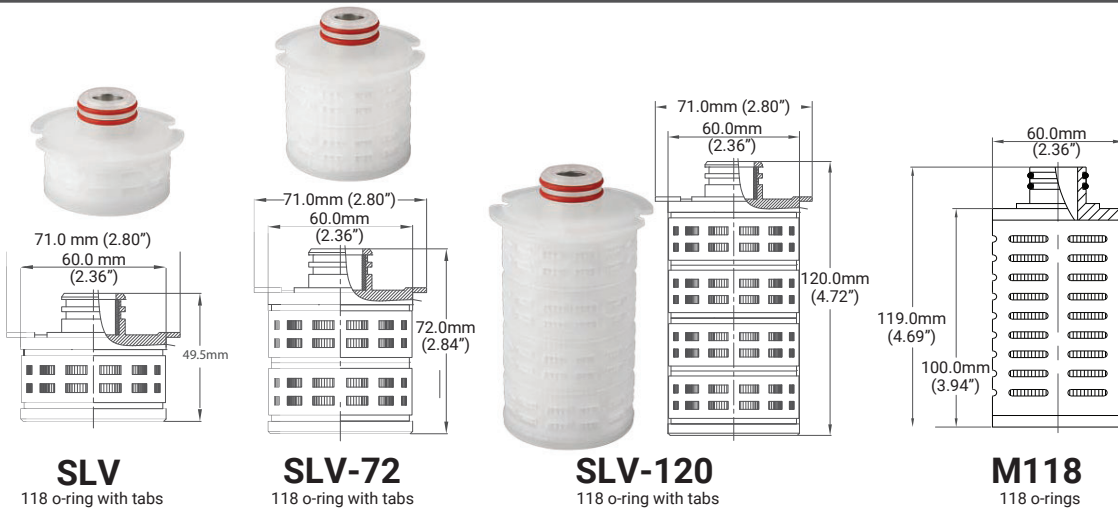
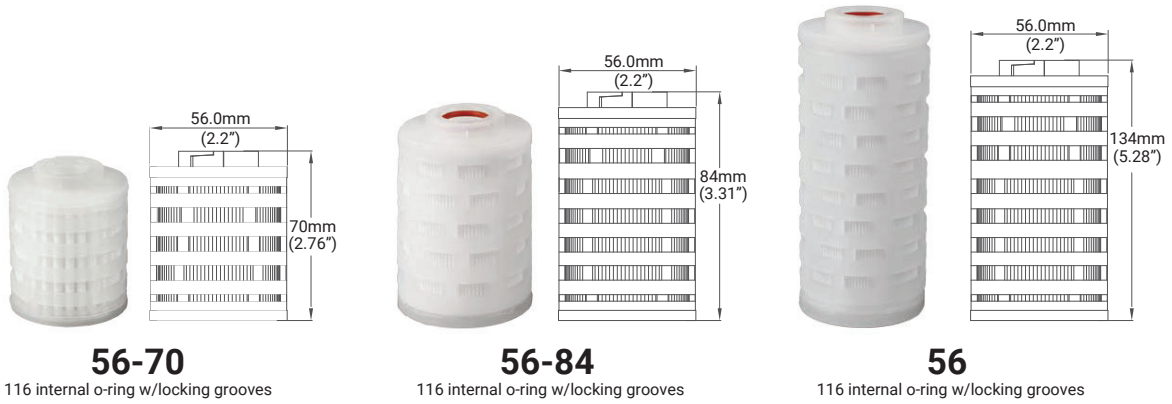
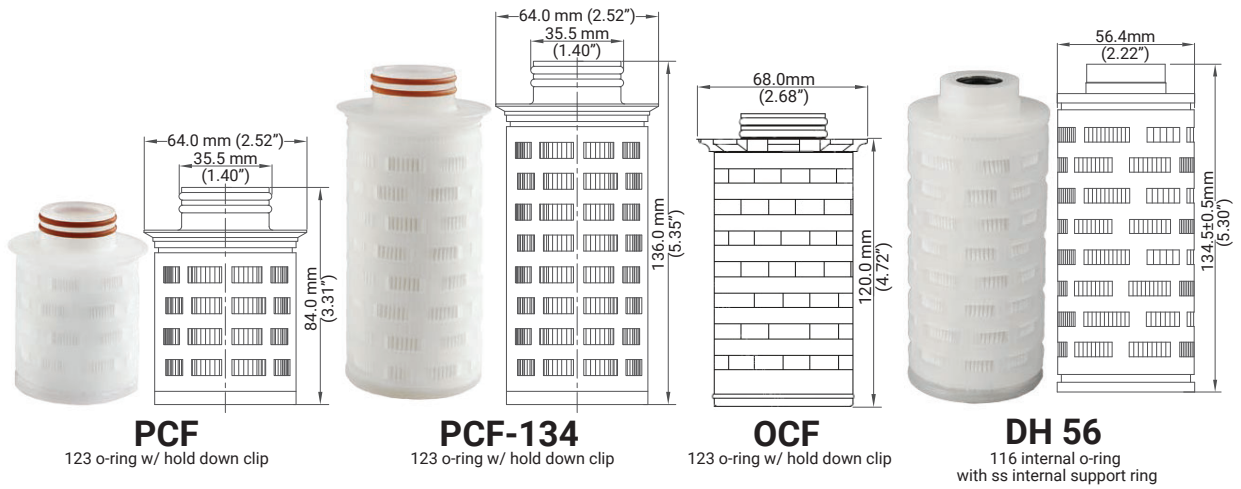
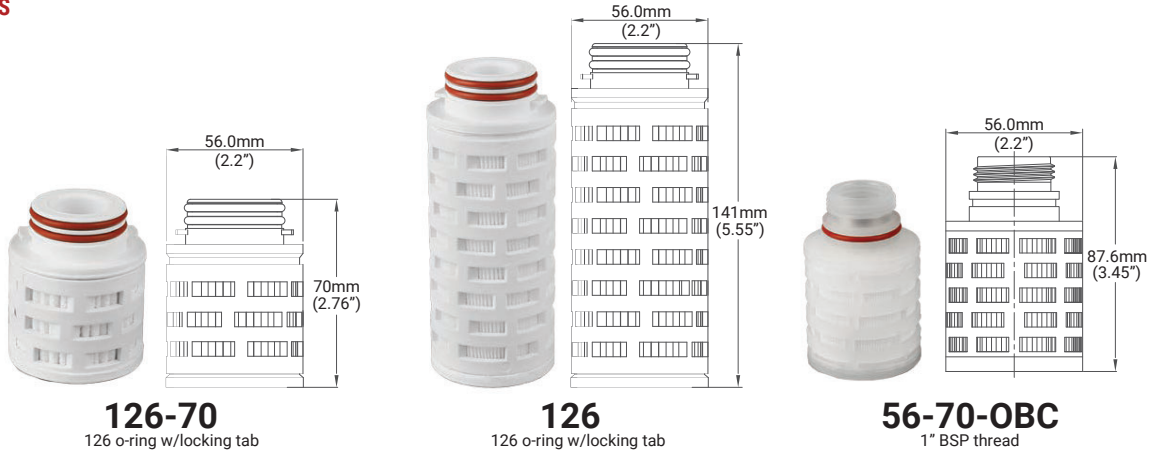
Seal Material

S = Silicone
E = EPDM
V = FKM
P = E-FKM (FEP/PFA encapsulated FKM)

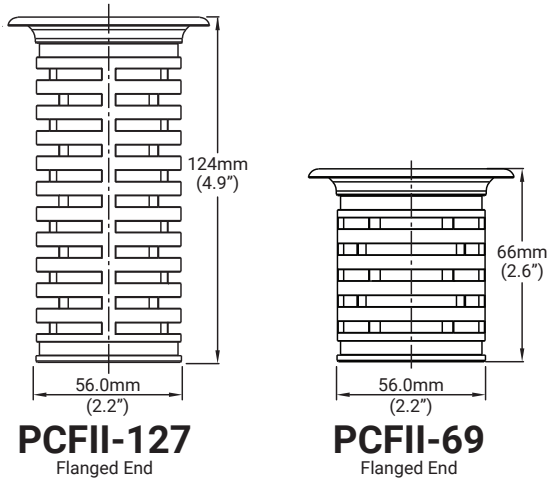
-P



DIMENSIONS



DIMENSIONS



DN66T - MINI CARTRIDGE ORDERING INFORMATION

EXAMPLE: **56-DN66T0022SP** = 116 o-ring with locking groove, 124 mm (5.28 in.), nylon membrane, 0.2 μm , silicone seal, for pharmaceutical applications



- **DN66T**



Filter Code (see drawings)

Internal 116 O-ring w/locking groove:

56-70 = 70mm (2.76")

56-84 = 84mm (3.31")

56 = 134mm (5.28")

Internal 116 O-ring w/ ss internal support ring:

DH 56 = 134.5mm (5.3")

123 O-ring w/hold down lip:

OCF = 120mm (4.72")

PCF = 84mm (3.31")

PCF-134 = 136mm (5.35")

126 O-ring w/locking tab:

126-70 = 70mm (2.76")

126 = 141mm (5.5")

118 O-ring w/tabs:

SLV = 49.5mm (1.95")

SLV-72 = 72mm (2.84")

SLV-120 = 120mm (4.72")

118 O-rings:

M118 = 119mm (4.69")

1" BSP (British Standard Pipe Thread):

56-70-OBC = 87.6mm (3.45")

*Flanged End (*No seal needed):*

PCFII-127 = 124 mm (4.88")

PCFII-69 = 66 mm (2.6")

Removal Rating

1010 = 0.1 μm + 0.1 μm

2222 = 0.22 μm + 0.22 μm

4522 = 0.45 μm + 0.22 μm

1045 = 1.0 μm + 0.45 μm

Seal Material

S = Silicone

E = EPDM

V = FKM

P = E-FKM (FEPFA encapsulated FKM)

***N** = No seal

Application

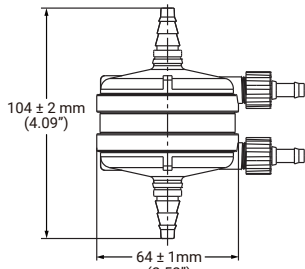
P = Pharmaceutical

F = Food and Beverage

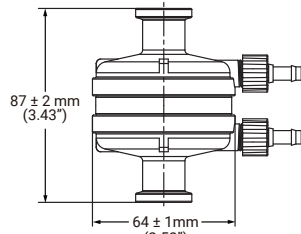
C = Chemical

DIMENSIONS

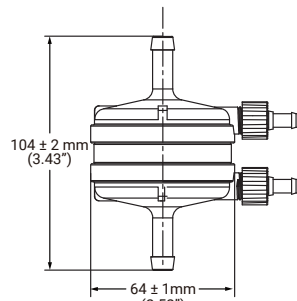
Bricap C01



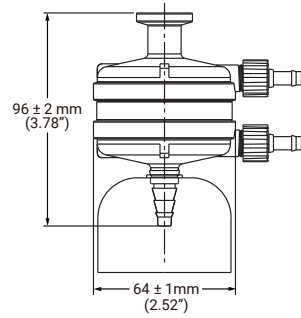
C01BB



C01TT

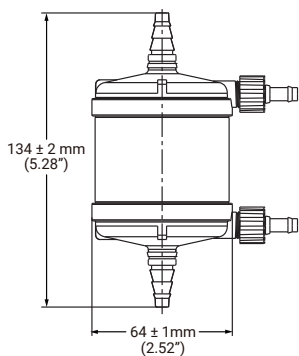


C01YY

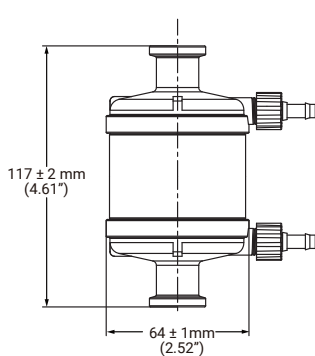


C01TA

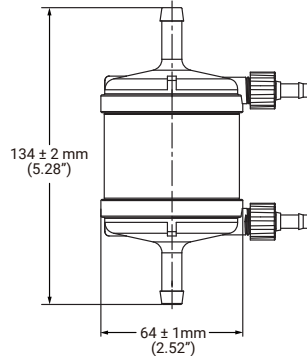
Bricap C02



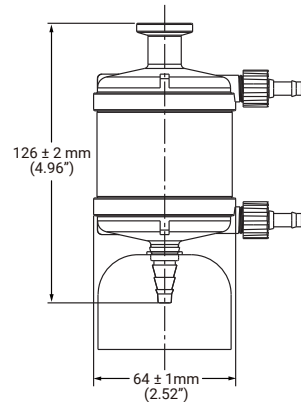
C02BB



C02TT

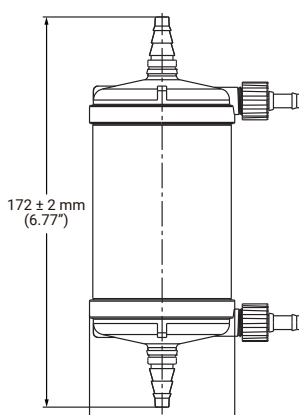


C02YY

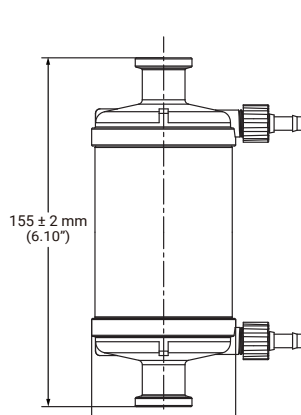


C02TA

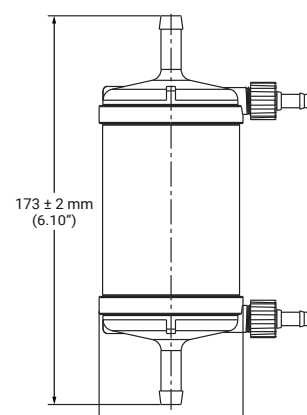
Bricap C03



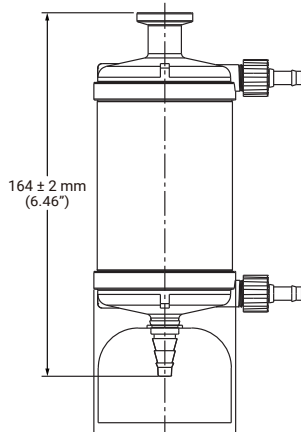
C03BB



C03TT



C03YY



C03TA

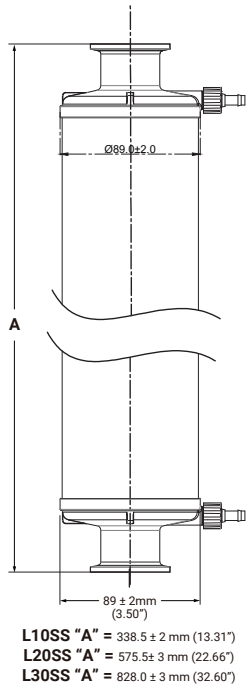
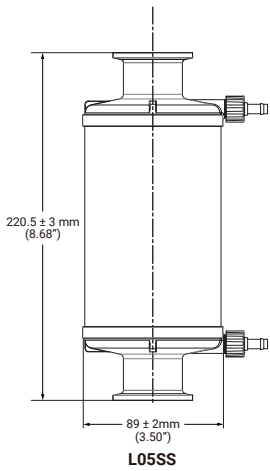
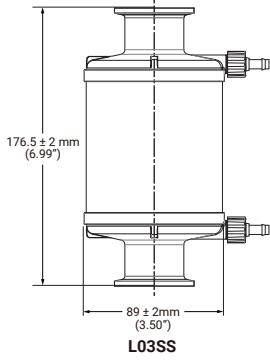
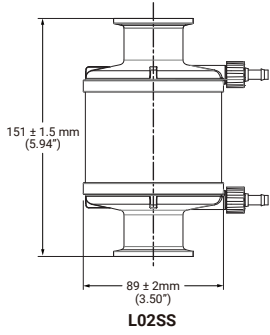
Max. Differential Pressure Capsules

0.55 MPa (5.5 bar, 80 psi) at 25°C
0.1 MPa (1.0 bar, 14.5 psi) at 80°C

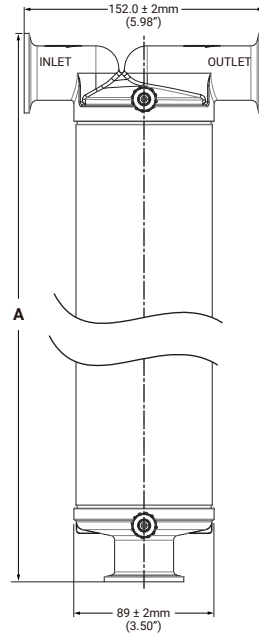
Effective Filtration Area (EFA)

C01: 180 cm² (0.19 ft²)
C02: 420 cm² (0.45 ft²)
C03: 640 cm² (0.69 ft²)

DIMENSIONS - BICAP L



DIMENSIONS - BICAP T



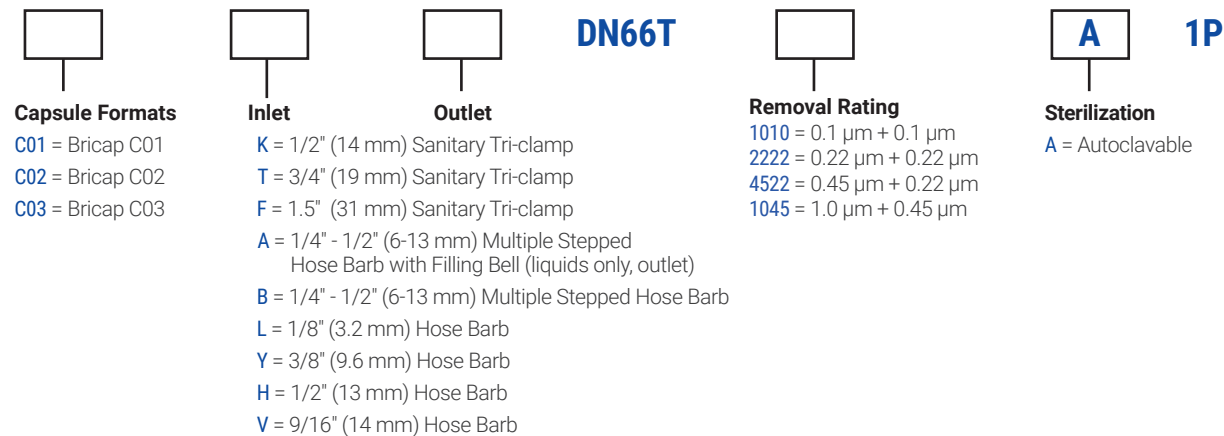
T10SS "A" = 348.0 ± 2 mm (13.70")
T20SS "A" = 586.0 ± 3 mm (23.07")
T30SS "A" = 839.0 ± 3 mm (33.03")

Effective Filtration Area (EFA)

- L02: 0.12 m² (1.3 ft²)
- L03: 0.16 m² (1.7 ft²)
- L05: 0.29 m² (3.12 ft²)
- T/L10: 0.58 m² (6.24 ft²)
- T/L20: 1.16 m² (12.5 ft²)
- T/L30: 1.74 m² (18.7 ft²)

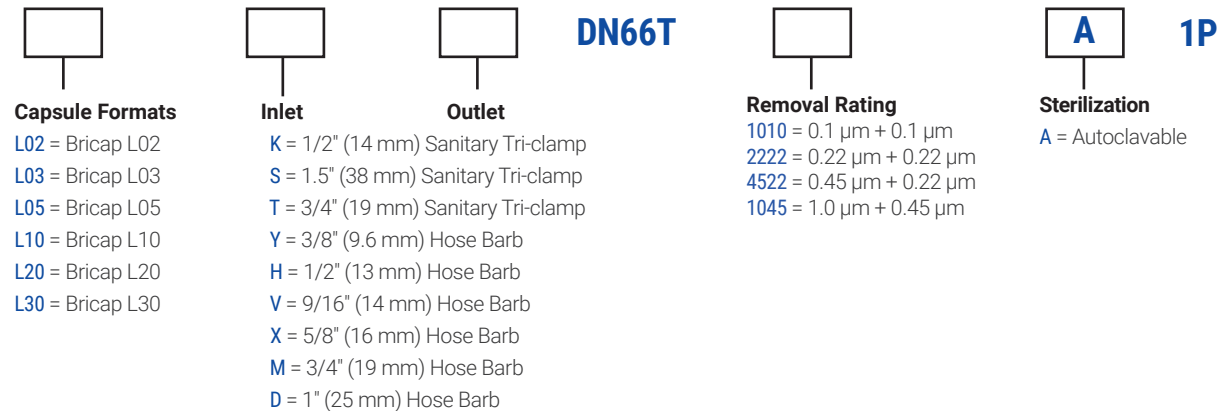
BRICAP C/D SMALL CAPSULE FILTERS - ORDERING INFORMATION

EXAMPLE: **C01TTDN66T2222A1P** = Bricap C01, 3/4" Tri-Clamp I/O, 0.2 µm + 0.2 µm, autoclavable



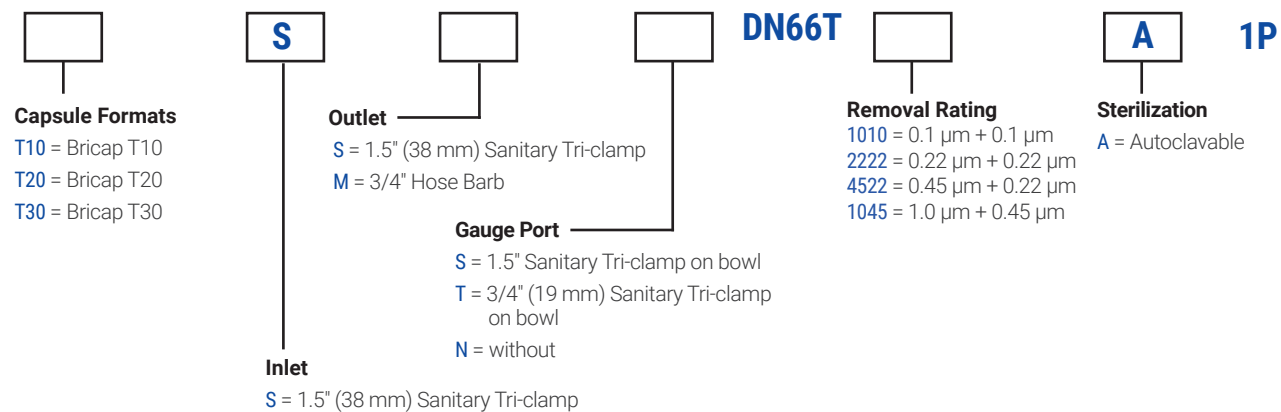
BRICAP L INLINE CAPSULE FILTERS - ORDERING INFORMATION

EXAMPLE: **L01SSDN66T2222A1P** = Inline Bricap, 10", 1.5" Tri-Clamp I/O, 0.2 µm + 0.2 µm, autoclavable



BRICAP T CAPSULE FILTERS - ORDERING INFORMATION

EXAMPLE: **T10SSSDN666T2222A1P** = T-line Bricap, 10", 1.5" Tri-Clamp I/O, 0.2 µm + 0.2 µm, autoclavable



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