

CUNO™ Metal Screen Filter Elements

CUNO™ Metal Screen Stainless Steel Filter Elements



CUNO™ metal screen filter elements are produced from premium quality woven stainless steel screen mesh. Elements are all 304 or 316 stainless steel, with screen and perforated internal support attached to end caps equipped with replaceable gaskets. Elements can be cleaned chemically or ultrasonically and reused. Cylindrical elements may also be cleaned in place by backflushing. Request literature LITMSPKCLN for recommended cleaning instructions.

CUNO™ Metal Screen Filter Element Flow Rates

Recommended flow in gallons per minute per one-high element based on clean fluid at 2 psi pressure drop (actual flow may be reduced by a fouling factor depending on service).

CUNO™ Metal Screen Pleated Cartridge Filters

2 Micron				5 Micron				10 Micron				20 Micron				40 Micron			
Water	80 SSU	200 SSU	600 SSU	Water	80 SSU	200 SSU	600 SSU	Water	80 SSU	200 SSU	600 SSU	Water	80 SSU	200 SSU	600 SSU	Water	80 SSU	200 SSU	600 SSU
12	6.3	3.7	3	12	7.1	5	3.2	12	8.0	5.8	4.8	12	8.4	6.7	5.7	12	8.4	6.7	5.8

CUNO™ Metal Screen Cylindrical Cartridge Filters

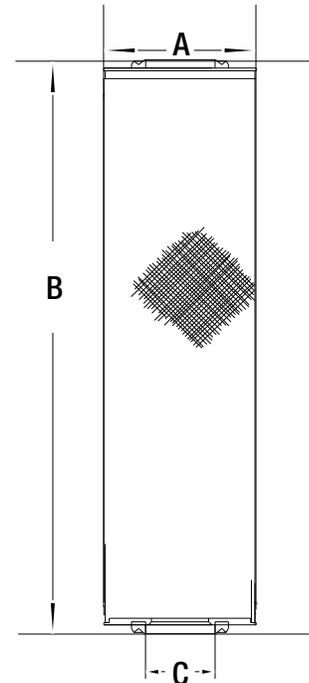
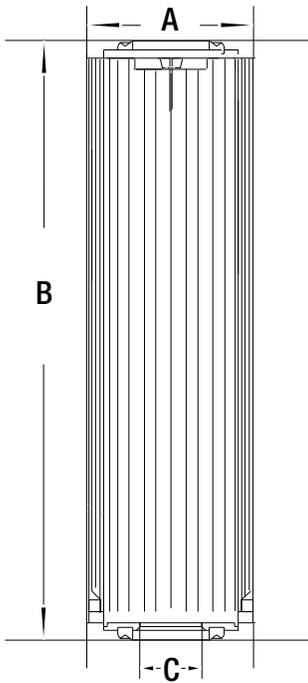
2 Micron				5 Micron				10 Micron				20 Micron				40 Micron			
Water	80 SSU	200 SSU	600 SSU	Water	80 SSU	200 SSU	600 SSU	Water	80 SSU	200 SSU	600 SSU	Water	80 SSU	200 SSU	600 SSU	Water	80 SSU	200 SSU	600 SSU
12	3.9	2.1	1.2	12	5.4	3.0	1.5	12	6.8	4.9	2.9	12	7.1	5.8	4.0	12	7.2	5.8	4.6

Applications

- Corrosive fluids that attack other types of filter media.
- Liquids and gasses at high operating temperatures.
- Steam filtration, including culinary steam.
- Airborne hydraulic-pneumatic control systems subject to vibration, shock, or other unusual environmental operating conditions.
- Ultra-clean fluids requiring non-fibrous media of absolute structural integrity.
- Heavy viscosity liquids requiring high differential pressures to achieve specified flow rates.

Specifications

Construction	Cylindrical or Pleated
Materials of Construction:	
Screen, end caps	304L stainless steel standard, 316 stainless steel available
Inner support	304 stainless steel
Gaskets (2 required)	Buna N, Fluorocarbon, PTFE or Ethylene Propylene
Elemental Operating Temperature:	
with Buna N Gaskets	≤ 250 °F
with Ethylene Propylene gaskets	≤ 300 °F
with Fluorocarbon gaskets	≤ 400 °F
with PTFE gaskets	≤ 450 °F
Maximum Forward Differential Pressure	70 psid
Maximum Reverse Differential Pressure (backflushing)	15 psid
Nominal Ratings (Microns)	2, 5, 10, 20, 40



Cartridge Dimensions of Pleated Element

Basic Element Number	Elemental Height	A	B	C
52043	One-High	2 13/16"	9 3/4"	1"
	Two-High	2 13/16"	19 1/2"	1"

Cartridge Dimensions of Cylindrical Element

Basic Element Number	Elemental Height	A	B	C
52243	One-High	2 3/4"	9 3/4"	1"
	Two-High	2 3/4"	19 1/2"	1"

CUNO™ Metal Screen Pleated & Cylindrical Filter Elements Ordering Guide

XXXXX Basic Element No.	-XX Elemental Height	-XX Elemental Material	-XXXX Filtration Rating
52043 Pleated 52243 Cylindrical	-01 (One-High) 9 3/4" -02 (Two-High) 19 1/2"	-41 (All 304 stainless Steel)	-0024 (2 micron)
			-0054 (5 micron)
			-0104 (10 micron)
			-0204 (20 micron)
			-0403 (40 micron)

Specify gasket material separately (two per cartridge): Buna N - 81754-31, Ethylene Propylene - 81754-34, PTFE - 30718-31, or Fluorocarbon - 81754-33.

Special Designs

CUNO™ metal screen filter cartridges are also available in all-316 stainless steel and 29 1/4" and 39" lengths. Other special mesh ratings available are: 200, 150, 120, 100, 80, 60, and 40 mesh. CUNO metal screen filter is also available in special diameters and lengths, and with threaded connector single open end. Special CUNO metal screen miniature filter elements are available for jet engine fuel, air and hydraulic systems. Incorporated into system component parts, they conserve space and weight. For special designs, please consult your local 3M Purification Inc. Distributor.

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