

Poro-Klean® Stainless Steel Filter Elements



Poro-Klean® stainless steel filter elements are formed from porous sheet stock produced from sintered powdered stainless steel. The sintering process, performed in a controlled atmosphere furnace, produces a strong metallurgical fusion with each stainless steel “bead” securely bonded at several points of contact. Properties such as porosity, pore distribution and uniformity of material thickness are accurately controlled. Elements can be cleaned chemically, ultrasonically, or by backflushing, and reused. Request literature LITMSPKCLN for recommended cleaning instructions.

APPLICATIONS

- Corrosive fluids that attack other types of filter media.
- Liquids and gases 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.

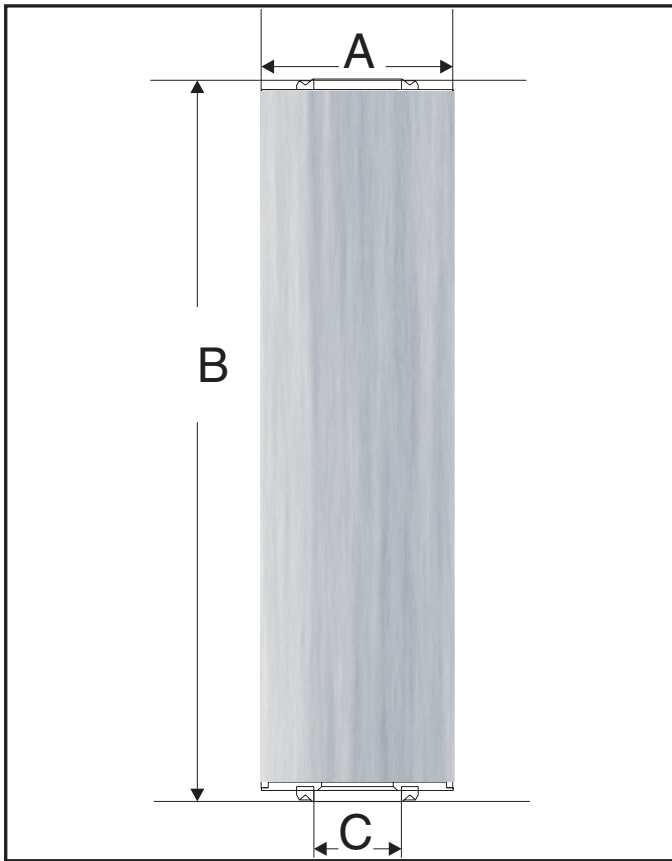
SPECIFICATIONS

| | |
|--|---|
| Materials of Construction: | |
| Sintered media | 316 Stainless steel |
| End caps | 304L Stainless steel standard, 316 Stainless steel available |
| Gaskets (2 required) | Buna N, Viton, PTFE or Ethylene Propylene |
| Filtration Ratings (nominal) | 5, 10, 20, or 40 micron |
| Element Operating Temperature: | |
| with Buna N gaskets | ≤ 250° F |
| with Ethylene Propylene gaskets | ≤ 300° F |
| with Viton gaskets | ≤ 400° F |
| with PTFE gaskets | ≤ 450° F |
| Maximum Forward Differential Pressure | < 40 micron = 75 psid 40 micron = 50 psid |
| Maximum Reverse Differential Pressure (backflushing) | 15 psid |

PORO-KLEAN FILTER ELEMENT FLOW RATES

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

| 5 Micron | | | 10 Micron | | | 20 Micron | | | 40 Micron | | |
|----------|--------|---------|-----------|--------|---------|-----------|--------|---------|-----------|--------|---------|
| Water | 80 SSU | 200 SSU | Water | 80 SSU | 200 SSU | Water | 80 SSU | 200 SSU | Water | 80 SSU | 200 SSU |
| 4.5 | 2 | 0.68 | 7 | 3.2 | 1.1 | 9.5 | 4.3 | 1.4 | 12 | 5.4 | 1.8 |



CARTRIDGE DIMENSIONS

| Basic Element Number 50387 | Element Height | A | B | C |
|----------------------------|----------------|---------|--------|----|
| | One-High | 2 3/4" | 9 3/4" | 1" |
| Two-High | 2 3/4" | 19 1/2" | 1" | |

SPECIAL DESIGNS

Poro-Klean media can be sintered to shape for incorporation in pumps, valves and similar equipment for the protection of fine orifices and close tolerances. Poro-Kleans are also available in all-316 stainless steel, in special diameters and lengths, with threaded connector single open end, and additional filtration ratings. For special designs, please consult your local Cuno Distributor.

Your Local Cuno Distributor is:

PORO-KLEAN FILTER ELEMENTS ORDERING GUIDE

| XXXXX BasicElement No. | -XX Element Height | -XX Element Mate- rial | -XXXX Filtration Rating |
|------------------------------|-------------------------------|------------------------------|----------------------------|
| 50387 | -06 (9 3/4") -07 (19 1/2") | -41 (316 stainless media) | -0051 (5 micron) |
| | | | -0101 (10 micron) |
| | | | -0201 (20 micron) |
| | | | -0401 (40 micron) |

For example: catalog number 50387-07-41-0101 identifies a Poro-Klean element 19 1/2" high, 316 stainless media, 10 micron nominal rating. Specify gasket material separately (two gaskets per cartridge): Buna N, 81754-31; Ethylene Propylene, 81754-34; PTFE, 30718-31; or Viton, 81754-33.

WARRANTY

Seller warrants its equipment against defects in workmanship and material for a period of 12 months from date of shipment from the factory under normal use and service and otherwise when such equipment is used in accordance with instructions furnished by Seller and for purposes disclosed in writing at the time of purchase, if any. Any unauthorized alteration of modification of the equipment by Buyer will void this warranty. Seller's liability under this warranty shall be limited to the replacement or repair, F.O.B., point of manufacture, of any defective equipment or part which, having been returned to the factory, transportation charges prepaid, has been inspected and determined by Seller to be defective. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR USE, OR ANY OTHER MATTER. Under no circumstances shall Seller be liable to Buyer or any third party for any loss of profits or other direct or indirect costs, expenses, losses or consequential damages arising out of or as a result of any defects in or failure of its products or any part or parts thereof or arising out of or as a result of parts or components incorporated in Seller's equipment but not supplied by the Seller.



a 3M company

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