SKR filter cartridges are pleated, small-area filters for critical point-of-use filtration and small batch processing of liquids and gases. Available in 2.5" and 5" lengths, they are designed for use in Meissner’s SKR filter housings and in competitive filter housings that accommodate a skirt-flange sealing mechanism. SKR filter cartridges are part of Meissner’s SFE (Small Flow Element) filter product line.

A skirt-flange adapter is integrally welded to the end cap of each SKR filter cartridge. In conjunction with the closure O-ring, the adapter prevents downstream fluid bypass.

**Design Features**

- Full range of hydrophilic or hydrophobic filter media
- Retention ratings from 0.04 µm to 100 µm
- High flow rates at low pressure drops
- Ideal for flow rates less than 3 gpm in liquids, and 60 scfm in gases
- Extremely low extractables
- Wide chemical compatibility
- Cleanroom manufactured
- All materials of construction meet FDA requirements for food contact use and are biosafe in compliance with USP Class VI Plastics biological reactivity tests
- Ultraclean - no additives, surfactants or post-treatments
- No glues, adhesives, epoxies or other extraneous materials used in construction
- Extremely rugged - withstands backpressure surges, hydraulic shocks, multiple sterilizations, and rigorous application conditions

**Industries**

- Pharmaceutical
- Biopharmaceutical
- Biologics
- Bioprocessing
- Chemical
- Cosmetics
- Food and beverage
- Microelectronics

**Applications**

- Point-of-use filtration
- Continuous or small batch processing
- Laboratory, pilot plant and production
- Clarification
- Particulate filtration
- Prefiltration
- Sterile filtration
- Sterile air/gas/venting
- Mycoplasma removal
- Virus reduction
### Effective Filtration Area (Nominal)

- **2SK Model:** 1 ft² (1000 cm²)
- **5SK Model:** 2 ft² (2000 cm²)

### Operating Characteristics

**Maximum Operating Temperatures and Pressures**

- 100 °F (38 °C) @ 80 psid (5.5 bar)
- 150 °F (66 °C) @ 60 psid (4.1 bar)
- 180 °F (82 °C) @ 30 psid (2.1 bar)

### Cartridge Dimensions (nominal)

- Diameter: 2.25" (5.7 cm)
- Lengths: 2.5" or 5" (6.4 cm or 12.7 cm)

### Sterilization

- **Inline Steam:** 121-135 °C, 30-60 min.
- **Autoclave:** 121-125 °C, 30-60 min.

SKR cartridges are capable of repeated sterilization cycles without loss of integrity.

### Biosafety

All materials of construction meet FDA requirements for food contact use and are biosafe in compliance with USP Class VI Plastics biological reactivity tests. All materials are non-cytotoxic and non-pyrogenic.

### Filter Element Selection

SKR filter cartridges are available in a variety of filtration media and pore sizes for both pre- and final filtration applications. For complete specifications and a description of available media, refer to Meissner’s “Small Flow Filters” brochure.