



**"A leading worldwide supplier of high efficiency filters for a variety of industries and applications."**

# STEAM FILTER HOUSINGS – SCK SERIES (70YY)

Our rugged, cost effective design is a simple solution to improve overall steam quality. The SCK Series can remove large amounts of liquids and solid contamination. The standard 70YY disposable cartridge is rated at 98% removal of 0.01 micron liquids and solids. An automatic steam trap is recommended to constantly drain condensation.

Re-cleanable stainless steel sintered filter elements are also available, designated (01, 03, 10, 25, 50, 100 & 200) with a 98% removal rating. Grade 25 is recommended for removal of fine pipe scale and bulk condensate. The 25 micron provides high performance while allowing generous flow through the system.



## Features:

- 316L Stainless Steel Construction
- Cost Effective Rugged Design
- Remove Liquid & Solid Contamination
- Re-cleanable SS Elements Available
- Prevent Wet Packs And Stained Instruments
- No Tools Needed During Service

## Applications:

- Hospital Autoclave Protection
- C.I.P. Systems

**At the heart of our filter products is the filter element. Choosing the correct element insures proper results for your specific application:**

### Disposable Microfiber Elements

Our 51-460-70YY steam elements are constructed of 100% borosilicate microfiber providing up to 98% efficiency against 0.01 microns. We utilize a mixture of proprietary binders which allows the element to function at temperatures above 500°F (260°C). It is important to note that the 70YY elements should be changed-out every four to six weeks, and that solid particles will shorten their service life by reducing surface area which is needed to remove liquid droplets. The particles will also increase the pressure drop, which can lead to element rupture. For added security, the element is caged with inner and outer stainless steel support cores to stabilize the element as pressure and temperature swings occur.

### Stainless Steel 5-Layer Mesh Elements

Five layers of surface area / depth for removing solids and liquids. The rigid durable construction provides precise pore distribution, flow permeability, and low initial pressure drop. Standard microns available: 0.5, 1, 3, 10, 25, 50, 100, and 200.

**For Technical Information Please Consult The Factory.**

**Scroll Down for Flow Rates.**

# STEAM FILTER HOUSINGS – SCK SERIES (70YY)

## PRINCIPLE SPECIFICATIONS

| Housing Model                               | 150SCK  | 151SCK       | 152SCK       |
|---|---|--------------|--------------|
| Port Size (NPT)                             | 1"  | 1 1/2"       | 2"           |
| Drain Type (NPT)                            | 1/4"  | 1/4"         | 1/4"         |
| Maximum Pressure (psig)                     | 1500  | 1500         | 1500         |
| Internal Volume (cc)                        | 1500  | 1500         | 1500         |
| Maximum Temp. -Buna-N (250°F)               | BN150   | BN150        | BN150        |
| <b>Maximum Temp. -EPDM (300°F) Standard</b> | <b>GE150</b>  | <b>GE150</b> | <b>GE150</b> |
| Maximum Temp. -Viton (400°F)                | GV150   | GV150        | GV150        |
| Maximum Temp. -Silicone (450°F)             | GS150   | GS150        | GS150        |
| Maximum Temp. -Kalrez (600°F)               | KZ150   | KZ150        | KZ150        |
| Weight of Housing (lbs)                     | 22.0  | 22.0         | 22.0         |
| Principle Dimensions: (inches)              |   |              |              |
| Center Of Port To Head                      | 1.50  | 1.85         | 1.85         |
| Head Diameter                               | 4.52  | 4.52         | 4.52         |
| Overall Length                              | 14.75   | 15.58        | 15.58        |
| Element Removal Clearance                   | 9.05  | 9.05         | 9.05         |
| Filter Element Codes:                       |   |              |              |
| Disposable Element                          | 51-213-70YY   | 51-213-70YY  | 51-213-70YY  |
| Stainless Steel Element (1)                 | SS-51-213-□   | SS-51-213-□  | SS-51-213-□  |
| Materials Of Construction: (2)              |   |              |              |
| Head & Internals                            | 316LSS  | 316LSS       | 316LSS       |
| Bowl  | 316LSS  | 316LSS       | 316LSS       |
| O-Rings (Standard)                          | EPDM  | EPDM         | EPDM         |
| Accessories:                                |   |              |              |
| Mounting Bracket                            | MBSS150   | MBSS150      | MBSS150      |
| Notes:                                      | (1) Replace '□' with micron required 01, 03, 10, 25, 50, 100, 200, e.g. SS-51-213-25T |              |              |
|   | (2) Material abbreviations, 316LSS = 316L Stainless Steel                             |              |              |

**STEAM FLOW RATES FOR DISPOSABLE 51-460-70YY**

| Pressure (PSIG) | Flow, lbs/hr. At Indicated Pressure Drop |        |         |
|-----------------|--|--------|---------|
|                 | 2 PSIG                                   | 5 PSIG | 10 PSIG |
| 5               | 32                                       | 64     | 128     |
| 10              | 40                                       | 80     | 160     |
| 15              | 48                                       | 96     | 192     |
| 20              | 54                                       | 108    | 216     |
| 30              | 70                                       | 140    | 280     |
| 40              | 83                                       | 166    | 332     |
| 50              | 99                                       | 198    | 396     |
| 60              | 114                                      | 228    | 456     |
| 70              | 127                                      | 254    | 508     |
| 75              | 134                                      | 268    | 536     |
| 80              | 141                                      | 282    | 564     |
| 90              | 156                                      | 313    | 627     |
| 95              | 164                                      | 330    | 661     |
| 100             | 173                                      | 348    | 697     |
| 105             | 182                                      | 367    | 735     |
| 110             | 192                                      | 381    | 775     |
| 115             | 202                                      | 408    | 817     |
| 120             | 213                                      | 430    | 861     |
| 125             | 224                                      | 453    | 908     |

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Re-cleanable stainless steel sintered filter elements are also available, designated (01, 03, 10, 25, 50, 100 & 200) with a 98% removal rating. Grade 25 is recommended for removal of fine pipe scale and bulk condensate. The 25 micron provides high performance while allowing generous flow through the system.



## PRINCIPLE SPECIFICATIONS

| Housing Model (1)                           | 160SCK   | 161SCK       | 162SCK       |
|---|--|--------------|--------------|
| Port Size (NPT)                             | 1"   | 1 1/2"       | 2"           |
| Drain Type (NPT)                            | 1/4"   | 1/4"         | 1/4"         |
| Maximum Pressure (psig)                     | 1500   | 1500         | 1500         |
| Internal Volume (cc)                        | 2700   | 2700         | 2700         |
| Maximum Temp. -Buna-N (250°F)               | BN160  | BN160        | BN160        |
| <b>Maximum Temp. -EPDM (300°F) Standard</b> | <b>GE160</b>   | <b>GE160</b> | <b>GE160</b> |
| Maximum Temp. -Viton (400°F)                | GV160  | GV160        | GV160        |
| Maximum Temp. -Silicone (450°F)             | GS160  | GS160        | GS160        |
| Maximum Temp. -Kalrez (600°F)               | KZ160  | KZ160        | KZ160        |
| Weight of Housing (lbs)                     | 38.0   | 38.0         | 38.0         |
| Principle Dimensions: (inches)              |  |              |              |
| Center Of Port To Head                      | 1.50   | 1.85         | 1.85         |
| Head Diameter                               | 4.52   | 4.52         | 4.52         |
| Overall Length                              | 24.50  | 25.12        | 25.12        |
| Element Removal Clearance                   | 17.87  | 17.87        | 17.87        |
| Filter Element Codes:                       |  |              |              |
| Disposable Element                          | 51-460-70YY  | 51-460-70YY  | 51-460-70YY  |
| Stainless Steel Element (2)                 | SS-51-460-□  | SS-51-460-□  | SS-51-460-□  |
| Materials Of Construction: (3)              |  |              |              |
| Head & Internals                            | 316LSS   | 316LSS       | 316LSS       |
| Bowl  | 316LSS   | 316LSS       | 316LSS       |
| O-Rings (Standard)                          | EPDM   | EPDM         | EPDM         |
| Accessories:                                |  |              |              |
| Mounting Bracket                            | MBSS150  | MBSS150      | MBSS150      |
| Notes:                                      | (1) The 160SCK Series is now manufactured with a two piece bowl which makes the housings weld free |              |              |
|   | (2) Replace '□' with micron required 01, 03, 10, 25, 50, 100, 200, e.g. SS-51-460-25T              |              |              |
|   | (3) Material abbreviations, 316LSS = 316L Stainless Steel  |              |              |

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**Scroll Up for Flow Rates.**