

# Inline Strainers

Today's processing pipe lines require strainers with an increased capacity to meet production needs of state-of-the-art Food, Beverage and Pharmaceutical manufacturing facilities.

Rubber Fab's sanitary strainers protect valuable processing equipment (pumps, spray nozzles, needle valves, heat exchangers and homogenizers) and have been specifically designed to meet the most stringent process requirements. Our sanitary strainer products are manufactured using 316L stainless steel and are designed for maximum installation flexibility, sanitary construction, and unrestricted flow.

Rubber Fab's Hi Capacity sanitary strainers feature a machined neck line, instead of a spun neckline; a design improvement that allows higher operating pressures and greater product out. Our Hi Capacity strainers also provide triple the effective filter area as standard Inline and Side Inlet units; increasing run time, and reducing costly down-time.

Rubber Fab's Inline and Side Inlet sanitary strainers are available in single length and double length models, both providing cost effective filtration. Rubber Fab's strainer housing accepts a wide range of re-usable strainer elements, wire mesh overscreens, sks overscreens, wedge wire and disposable filter socks. Rubber Fab's Side Inlet sanitary strainers use the same wire mesh overscreens and filter socks as the Inline units. The Side Inlet, however, is specially designed to accommodate piping configurations using a side inlet.

Rubber Fab's wire Mesh basket liners are continuously resistance spot welded inside the perforated support basket, providing a snag free seam. When in use the mesh lined perforated basket strainer seats on a machined neckline inside the housing and the strainer bucket's handle rests against the underside of the top cover. This design ensures that product cannot bypass the mesh lined strainer basket.



# Inline Strainer Components

| Complete Strainer Assemblies          | Item #<br>1" TC Size | Item #<br>1 1/2" TC Size | Item #<br>2" TC Size | Item #<br>2 1/2" TC Size | Item #<br>3" TC Size |
|---------------------------------------|----------------------|--------------------------|----------------------|--------------------------|----------------------|
| Single Length<br>(15 3/4") 1/8" Holes | RFILS-100-S-.125-316 | RFILS-150-S-.125-316     | RFILS-200-S-.125-316 | RFILS-250-S-.125-316     | RFILS-300-S-.125-316 |
| Double Length<br>(35 3/8") 1/8" Holes | RFILS-100-D-.125-316 | RFILS-150-D-.125-316     | RFILS-200-D-.125-316 | RFILS-250-D-.125-316     | RFILS-300-D-.125-316 |
| Single Length<br>(15 3/4") 1/4" Holes | RFILS-100-S-.250-316 | RFILS-150-S-.250-316     | RFILS-200-S-.250-316 | RFILS-250-S-.250-316     | RFILS-300-S-.250-316 |
| Double Length<br>(15 3/4") 1/4" Holes | RFILS-100-D-.250-316 | RFILS-150-D-.250-316     | RFILS-200-D-.250-316 | RFILS-250-D-.250-316     | RFILS-300-D-.250-316 |

| Strainer Individual Components*  | Item #<br>1" TC Size | Item #<br>1 1/2" TC Size | Item #<br>2" TC Size | Item #<br>2 1/2" TC Size | Item #<br>3" TC Size |
|----------------------------------|----------------------|--------------------------|----------------------|--------------------------|----------------------|
| A - Outlet Assembly              | RFILS-100-OCAP-316L  | RFILS-150-OCAP-316L      | RFILS-200-OCAP-316L  | RFILS-250-OCAP-316L      | RFILS-300-OCAP-316L  |
| B - Sanitary TC Gasket<br>(Buna) | 40MPU-400            | 40MPU-400                | 40MPU-400            | 40MVFU-400               | 40MVFU-400           |
| B - Sanitary TC Gasket<br>(FKM)  | 40MPSFY-400          | 40MPSFY-400              | 40MPSFY-400          | 40MVFSFY-400             | 40MVFSFY-400         |
| B - Sanitary TC Gasket<br>(EPDM) | 40MPE-400            | 40MPE-400                | 40MPE-400            | 40MPFE-400               | 40MPFE-400           |
| C - Clamp                        | 13MHMH-304-400       | 13MHMH-304-400           | 13MHMH-304-400       | 13MHMH-V-304-400         | 13MHMH-V-304-400     |

| Strainer Individual Components**<br>D - Perforated Core | Item #<br>1" TC Size         | Item #<br>1 1/2" TC Size     | Item #<br>2" TC Size         |
|---------------------------------------------------------|------------------------------|------------------------------|------------------------------|
| 3" Dia (Single Length 10.875") 1/8" Dia Holes           | RFILS-1/1.5/2-PC-S-.125-316L | RFILS-1/1.5/2-PC-S-.125-316L | RFILS-1/1.5/2-PC-S-.125-316L |
| 3" Dia (Single Length 10.875") 1/4" Dia Holes           | RFILS-1/1.5/2-PC-S-.250-316L | RFILS-1/1.5/2-PC-S-.250-316L | RFILS-1/1.5/2-PC-S-.250-316L |
| 3" Dia (Double Length 30.75") 1/8" Dia Holes            | RFILS-1/1.5/2-PC-D-.125-316L | RFILS-1/1.5/2-PC-D-.125-316L | RFILS-1/1.5/2-PC-D-.125-316L |
| 3" Dia (Double Length 30.75") 1/4" Dia Holes            | RFILS-1/1.5/2-PC-D-.250-316L | RFILS-1/1.5/2-PC-D-.250-316L | RFILS-1/1.5/2-PC-D-.250-316L |

| Strainer Individual Components**<br>D - Perforated Core | Item #<br>2 1/2" TC Size   | Item #<br>3" TC Size       |
|---------------------------------------------------------|----------------------------|----------------------------|
| 3.5" Dia (Single Length 10.875") 1/8" Dia Holes         | RFILS-2.5/3-PC-S-.125-316L | RFILS-2.5/3-PC-S-.125-316L |
| 3.5" Dia (Single Length 10.875") 1/4" Dia Holes         | RFILS-2.5/3-PC-S-.250-316L | RFILS-2.5/3-PC-S-.250-316L |
| 3.5" Dia (Double Length 30.75") 1/8" Dia Holes          | RFILS-2.5/3-PC-D-.125-316L | RFILS-2.5/3-PC-D-.125-316L |
| 3.5" Dia (Double Length 30.75") 1/4" Dia Holes          | RFILS-2.5/3-PC-D-.250-316L | RFILS-2.5/3-PC-D-.250-316L |

| Strainer Individual Components*            | Item #<br>1" TC Size    | Item #<br>1 1/2" TC Size | Item #<br>2" TC Size    | Item #<br>2 1/2" TC Size | Item #<br>3" TC Size  |
|--------------------------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-----------------------|
| E - Distributor Cap                        | RFILS-1/1.5/2-DCAP-316L | RFILS-1/1.5/2-DCAP-316L  | RFILS-1/1.5/2-DCAP-316L | RFILS-2.5/3-DCAP-316L    | RFILS-2.5/3-DCAP-316L |
| F - Spring                                 | RFICS-1/1.5/2-SPR-316L  | RFICS-1/1.5/2-SPR-316L   | RFICS-1/1.5/2-SPR-316L  | RFICS-2.5/3-SPR-316L     | RFICS-2.5/3-SPR-316L  |
| G - Filter Body<br>(Single Length 15 3/4") | RFILS-100-FBDY-S-316L   | RFILS-150-FBDY-S-316L    | RFILS-200-FBDY-S-316L   | RFILS-250-FBDY-S-316L    | RFILS-300-FBDY-S-316L |
| G - Filter Body<br>(Double Length 35 3/8") | RFILS-100-FBDY-D-316L   | RFILS-150-FBDY-D-316L    | RFILS-200-FBDY-D-316L   | RFILS-250-FBDY-D-316L    | RFILS-300-FBDY-D-316L |

\* See labeled strainer components on page 1. For Side Inlet Strainer Part Numbers, please consult factory.

# Inline Strainer Wire Mesh Over Screens

**1", 1 1/2" and 2" Sanitary Tri-Clamp® Gasket Line Sizes**

**Nominal Dimensions: Single Length 3" dia x 10 7/8" long • Double Length: 3" dia x 30 3/4" long**

| Material: 316L SS Total Over Screen Surface Area |                   |                       |                        |             | (102.49 SQ. IN.)          | (289.81 SQ. IN.)          |
|--------------------------------------------------|-------------------|-----------------------|------------------------|-------------|---------------------------|---------------------------|
| Mesh                                             | Wire Dia (Inches) | Opening Size (Inches) | Opening Size (Microns) | Open Area % | Single Length             | Double Length             |
| 10 x 10                                          | 0.025             | 0.075                 | 1905                   | 56.30       | RFILS-1/1.5/2-MOS-S-10SS  | RFILS-1/1.5/2-MOS-D-10SS  |
| 12 x 12                                          | 0.023             | 0.060                 | 1524                   | 51.80       | RFILS-1/1.5/2-MOS-S-12SS  | RFILS-1/1.5/2-MOS-D-12SS  |
| 14 x 14                                          | 0.020             | 0.051                 | 1295                   | 51.00       | RFILS-1/1.5/2-MOS-S-14SS  | RFILS-1/1.5/2-MOS-D-14SS  |
| 16 x 16                                          | 0.018             | 0.045                 | 1130                   | 50.70       | RFILS-1/1.5/2-MOS-S-16SS  | RFILS-1/1.5/2-MOS-D-16SS  |
| 18 x 18                                          | 0.017             | 0.039                 | 980                    | 48.30       | RFILS-1/1.5/2-MOS-S-18SS  | RFILS-1/1.5/2-MOS-D-18SS  |
| 20 x 20                                          | 0.016             | 0.034                 | 864                    | 46.20       | RFILS-1/1.5/2-MOS-S-20SS  | RFILS-1/1.5/2-MOS-D-20SS  |
| 24 x 24                                          | 0.014             | 0.028                 | 704                    | 44.20       | RFILS-1/1.5/2-MOS-S-24SS  | RFILS-1/1.5/2-MOS-D-24SS  |
| 30 x 30                                          | 0.013             | 0.020                 | 516                    | 37.10       | RFILS-1/1.5/2-MOS-S-30SS  | RFILS-1/1.5/2-MOS-D-30SS  |
| 40 x 40                                          | 0.010             | 0.015                 | 381                    | 36.00       | RFILS-1/1.5/2-MOS-S-40SS  | RFILS-1/1.5/2-MOS-D-40SS  |
| 50 x 50                                          | 0.009             | 0.011                 | 280                    | 30.30       | RFILS-1/1.5/2-MOS-S-50SS  | RFILS-1/1.5/2-MOS-D-50SS  |
| 60 x 60                                          | 0.008             | 0.009                 | 234                    | 30.50       | RFILS-1/1.5/2-MOS-S-60SS  | RFILS-1/1.5/2-MOS-D-60SS  |
| 80 x 80                                          | 0.006             | 0.007                 | 178                    | 31.40       | RFILS-1/1.5/2-MOS-S-80SS  | RFILS-1/1.5/2-MOS-D-80SS  |
| 100 x 100                                        | 0.005             | 0.006                 | 140                    | 30.30       | RFILS-1/1.5/2-MOS-S-100SS | RFILS-1/1.5/2-MOS-D-100SS |
| 120 x 120                                        | 0.004             | 0.005                 | 117                    | 30.70       | RFILS-1/1.5/2-MOS-S-120SS | RFILS-1/1.5/2-MOS-D-120SS |
| 150 x 150                                        | 0.003             | 0.004                 | 104                    | 37.40       | RFILS-1/1.5/2-MOS-S-150SS | RFILS-1/1.5/2-MOS-D-150SS |
| 200 x 200                                        | 0.002             | 0.003                 | 74                     | 33.60       | RFILS-1/1.5/2-MOS-S-200SS | RFILS-1/1.5/2-MOS-D-200SS |

**2 1/2" and 3" Sanitary Tri-Clamp® Gasket Line Sizes**

**Nominal Dimensions: Single Length 3" dia x 10 7/8" long • Double Length: 3" dia x 30 3/4" long**

| Material: 316L SS Total Over Screen Surface Area |                   |                       |                        |             | (119.57 SQ. IN.)        | (388.00 SQ. IN.)        |
|--------------------------------------------------|-------------------|-----------------------|------------------------|-------------|-------------------------|-------------------------|
| Mesh                                             | Wire Dia (Inches) | Opening Size (Inches) | Opening Size (Microns) | Open Area % | Single Length           | Double Length           |
| 10 x 10                                          | 0.025             | 0.075                 | 1905                   | 56.30       | RFILS-2.5/3-MOS-S-10SS  | RFILS-2.5/3-MOS-D-10SS  |
| 12 x 12                                          | 0.023             | 0.060                 | 1524                   | 51.80       | RFILS-2.5/3-MOS-S-12SS  | RFILS-2.5/3-MOS-D-12SS  |
| 14 x 14                                          | 0.020             | 0.051                 | 1295                   | 51.00       | RFILS-2.5/3-MOS-S-14SS  | RFILS-2.5/3-MOS-D-14SS  |
| 16 x 16                                          | 0.018             | 0.045                 | 1130                   | 50.70       | RFILS-2.5/3-MOS-S-16SS  | RFILS-2.5/3-MOS-D-16SS  |
| 18 x 18                                          | 0.017             | 0.039                 | 980                    | 48.30       | RFILS-2.5/3-MOS-S-18SS  | RFILS-2.5/3-MOS-D-18SS  |
| 20 x 20                                          | 0.016             | 0.034                 | 864                    | 46.20       | RFILS-2.5/3-MOS-S-20SS  | RFILS-2.5/3-MOS-D-20SS  |
| 24 x 24                                          | 0.014             | 0.028                 | 704                    | 44.20       | RFILS-2.5/3-MOS-S-24SS  | RFILS-2.5/3-MOS-D-24SS  |
| 30 x 30                                          | 0.013             | 0.020                 | 516                    | 37.10       | RFILS-2.5/3-MOS-S-30SS  | RFILS-2.5/3-MOS-D-30SS  |
| 40 x 40                                          | 0.010             | 0.015                 | 381                    | 36.00       | RFILS-2.5/3-MOS-S-40SS  | RFILS-2.5/3-MOS-D-40SS  |
| 50 x 50                                          | 0.009             | 0.011                 | 280                    | 30.30       | RFILS-2.5/3-MOS-S-50SS  | RFILS-2.5/3-MOS-D-50SS  |
| 60 x 60                                          | 0.008             | 0.009                 | 234                    | 30.50       | RFILS-2.5/3-MOS-S-60SS  | RFILS-2.5/3-MOS-D-60SS  |
| 80 x 80                                          | 0.006             | 0.007                 | 178                    | 31.40       | RFILS-2.5/3-MOS-S-80SS  | RFILS-2.5/3-MOS-D-80SS  |
| 100 x 100                                        | 0.005             | 0.006                 | 140                    | 30.30       | RFILS-2.5/3-MOS-S-100SS | RFILS-2.5/3-MOS-D-100SS |
| 120 x 120                                        | 0.004             | 0.005                 | 117                    | 30.70       | RFILS-2.5/3-MOS-S-120SS | RFILS-2.5/3-MOS-D-120SS |
| 150 x 150                                        | 0.003             | 0.004                 | 104                    | 37.40       | RFILS-2.5/3-MOS-S-150SS | RFILS-2.5/3-MOS-D-150SS |
| 200 x 200                                        | 0.002             | 0.003                 | 74                     | 33.60       | RFILS-2.5/3-MOS-S-200SS | RFILS-2.5/3-MOS-D-200SS |

Rubber Fab Hygienic (HYG) Over Screens are comparable to traditional Wire Mesh Screens. The Hygienic Over Screens have similar opening sizes and open area percentages as wire mesh only Hygienic Over Screens are punched from stainless steel sheeting instead of stainless steel woven wire. Wire Mesh Screens have wire intersections, the wires touch each other where they intersect. The Hygienic Over Screen has no wire intersections.

# Hygienic (HYG) Wire Mesh Over Screens

1", 1 1/2" and 2" Sanitary Tri-Clamp® Gasket Line Sizes

Nominal Dimensions: Single Length 3" dia x 10 7/8" long • Double Length: 3" dia x 30 3/4" long

| Material: 316L SS Total Over Screen Surface Area |                   |                       |                        |             |             |                       |                        |                    |             | (102.49 SQ. IN.)          | (289.81 SQ. IN.)          |
|--------------------------------------------------|-------------------|-----------------------|------------------------|-------------|-------------|-----------------------|------------------------|--------------------|-------------|---------------------------|---------------------------|
| Mesh                                             | Wire Dia (Inches) | Opening Size (Inches) | Opening Size (Microns) | Open Area % | HYG Product | Opening Size (Inches) | Opening Size (Microns) | Material Thickness | Open Area % | Single Length             | Double Length             |
| 12 x 12                                          | 0.023             | 0.060                 | 1524                   | 51.80       | HYG-12      | 0.060                 | 1499                   | 0.020              | 52.00       | RFILS-1/1.5/2-HOS-S-12SS  | RFILS-1/1.5/2-HOS-D-12SS  |
| 14 x 14                                          | 0.020             | 0.051                 | 1295                   | 51.00       | HYG-14      | 0.518                 | 1316                   | 0.020              | 50.00       | RFILS-1/1.5/2-HOS-S-14SS  | RFILS-1/1.5/2-HOS-D-14SS  |
| 16 x 16                                          | 0.018             | 0.045                 | 1130                   | 50.70       | HYG-16      | 0.045                 | 1148                   | 0.024              | 48.00       | RFILS-1/1.5/2-HOS-S-16SS  | RFILS-1/1.5/2-HOS-D-16SS  |
| 18 x 18                                          | 0.017             | 0.039                 | 980                    | 48.30       | HYG-18      | 0.039                 | 998                    | 0.016              | 46.00       | RFILS-1/1.5/2-HOS-S-18SS  | RFILS-1/1.5/2-HOS-D-18SS  |
| 20 x 20                                          | 0.016             | 0.034                 | 864                    | 46.20       | HYG-20      | 0.033                 | 848                    | 0.016              | 47.00       | RFILS-1/1.5/2-HOS-S-20SS  | RFILS-1/1.5/2-HOS-D-20SS  |
| 24 x 24                                          | 0.014             | 0.028                 | 704                    | 44.20       | HYG-24      | 0.030                 | 749                    | 0.016              | 45.00       | RFILS-1/1.5/2-HOS-S-24SS  | RFILS-1/1.5/2-HOS-D-24SS  |
| 30 x 30                                          | 0.013             | 0.020                 | 516                    | 37.10       | HYG-30      | 0.022                 | 549                    | 0.012              | 40.00       | RFILS-1/1.5/2-HOS-S-30SS  | RFILS-1/1.5/2-HOS-D-30SS  |
| 40 x 40                                          | 0.010             | 0.015                 | 381                    | 36.00       | HYG-40      | 0.016                 | 399                    | 0.012              | 38.00       | RFILS-1/1.5/2-HOS-S-40SS  | RFILS-1/1.5/2-HOS-D-40SS  |
| 70 x 70                                          | 0.007             | 0.008                 | 198                    | 29.80       | HYG-70      | 0.008                 | 198                    | 0.005              | 28.00       | RFILS-1/1.5/2-HOS-S-70SS  | RFILS-1/1.5/2-HOS-D-70SS  |
| 80 x 80                                          | 0.006             | 0.007                 | 178                    | 31.40       | HYG-80      | 0.007                 | 178                    | 0.005              | 26.00       | RFILS-1/1.5/2-HOS-S-80SS  | RFILS-1/1.5/2-HOS-D-80SS  |
| 100 x 100                                        | 0.005             | 0.006                 | 140                    | 30.30       | HYG-100     | 0.005                 | 132                    | 0.004              | 24.00       | RFILS-1/1.5/2-HOS-S-100SS | RFILS-1/1.5/2-HOS-D-100SS |

2 1/2" and 3" Sanitary Tri-Clamp® Gasket Line Sizes

Nominal Dimensions: Single Length 3" dia x 10 7/8" long • Double Length: 3" dia x 30 3/4" long

| Material: 316L SS Total Over Screen Surface Area |                   |                       |                        |             |             |                       |                        |                    |             | (102.49 SQ. IN.)        | (289.81 SQ. IN.)        |
|--------------------------------------------------|-------------------|-----------------------|------------------------|-------------|-------------|-----------------------|------------------------|--------------------|-------------|-------------------------|-------------------------|
| Mesh                                             | Wire Dia (Inches) | Opening Size (Inches) | Opening Size (Microns) | Open Area % | HYG Product | Opening Size (Inches) | Opening Size (Microns) | Material Thickness | Open Area % | Single Length           | Double Length           |
| 12 x 12                                          | 0.023             | 0.060                 | 1524                   | 51.80       | HYG-12      | 0.059                 | 1499                   | 0.020              | 52.00       | RFILS-2.5/3-HOS-S-12SS  | RFILS-2.5/3-HOS-D-12SS  |
| 14 x 14                                          | 0.020             | 0.051                 | 1295                   | 51.00       | HYG-14      | 0.052                 | 1316                   | 0.020              | 50.00       | RFILS-2.5/3-HOS-S-14SS  | RFILS-2.5/3-HOS-D-14SS  |
| 16 x 16                                          | 0.018             | 0.045                 | 1130                   | 50.70       | HYG-16      | 0.045                 | 1148                   | 0.024              | 48.00       | RFILS-2.5/3-HOS-S-16SS  | RFILS-2.5/3-HOS-D-16SS  |
| 18 x 18                                          | 0.017             | 0.039                 | 980                    | 48.30       | HYG-18      | 0.039                 | 998                    | 0.016              | 46.00       | RFILS-2.5/3-HOS-S-18SS  | RFILS-2.5/3-HOS-D-18SS  |
| 20 x 20                                          | 0.016             | 0.034                 | 864                    | 46.20       | HYG-20      | 0.033                 | 848                    | 0.016              | 47.00       | RFILS-2.5/3-HOS-S-20SS  | RFILS-2.5/3-HOS-D-20SS  |
| 24 x 24                                          | 0.014             | 0.028                 | 704                    | 44.20       | HYG-24      | 0.030                 | 749                    | 0.016              | 45.00       | RFILS-2.5/3-HOS-S-24SS  | RFILS-2.5/3-HOS-D-24SS  |
| 30 x 30                                          | 0.013             | 0.020                 | 516                    | 37.10       | HYG-30      | 0.022                 | 549                    | 0.012              | 40.00       | RFILS-2.5/3-HOS-S-30SS  | RFILS-2.5/3-HOS-D-30SS  |
| 40 x 40                                          | 0.010             | 0.015                 | 381                    | 36.00       | HYG-40      | 0.016                 | 399                    | 0.012              | 38.00       | RFILS-2.5/3-HOS-S-40SS  | RFILS-2.5/3-HOS-D-40SS  |
| 70 x 70                                          | 0.007             | 0.008                 | 198                    | 29.80       | HYG-70      | 0.008                 | 198                    | 0.005              | 28.00       | RFILS-2.5/3-HOS-S-70SS  | RFILS-2.5/3-HOS-D-70SS  |
| 80 x 80                                          | 0.006             | 0.007                 | 178                    | 31.40       | HYG-80      | 0.007                 | 178                    | 0.005              | 26.00       | RFILS-2.5/3-HOS-S-80SS  | RFILS-2.5/3-HOS-D-80SS  |
| 100 x 100                                        | 0.005             | 0.006                 | 140                    | 30.30       | HYG-100     | 0.005                 | 132                    | 0.004              | 24.00       | RFILS-2.5/3-HOS-S-100SS | RFILS-2.5/3-HOS-D-100SS |