NEW CAMLOCK SCREENS INSIDE!

FLUID FILTRATION
Protecting Product and Equipment from Particulates

Rubber Fab
a Garlock Hygienic Technologies company
Rubber Fab’s Fluid Filtration Gaskets

Rubber Fab’s sanitary fluid filtration gaskets are designed to be interchangeable with standard sanitary clamp gaskets. You can choose a screen gasket in a USP Class VI elastomer or fluoroelastomer in a variety of mesh sizes, **10 micron through 4 mesh**. Most of these are available for shipment on the day of order.

Our fluid filtration gaskets are also available in Detectomer®, a metal detectable/x-ray inspectable elastomer for use with metal detection and x-ray devices. X-ray inspection and metal detection systems provide confidence to food, dairy and pharmaceutical manufacturers by insuring product safety outlined in the Food Modernization Act. Detectomer® fluid filtration gaskets provide the security needed to avoid recalls, waste, and costly downtime.

We hope after you have reviewed Rubber Fab’s Fluid Filtration Program, you will once again discover...**the Rubber Fab Difference**.

**Full Range of Particulate Elimination**

If the complete elimination of particulates is critical to the CGMP in your injectable filled product, chromatography, columns, upstream particulate removal, or downstream filtration, consider the full range of Rubber Fab’s Fluid Filtration technology.

Fluid filtration gaskets provide the most comprehensive range of stainless steel mesh and filter cloth which provide for particulate elimination to protect fill and finish sterile products. As illustrated here, you can see a progressive large to fine particulate elimination system utilizing **10, 20, 40, 60, 80, and 100 mesh screens**.

Our filter cloth screen construction is Dutch Twill weave which provides for maximum strength and minimum pressure drop.

**Materials Available**

Fluid filtration gaskets are manufactured in the following elastomers:

- FKM Fluoroelastomer
- EPDM
- Platinum Silicone
- Buna*
- PTFE (fluoropolymer)
- Detectomers® Metal Detectable/ X-ray Inspectable
- Tuf-Steel®

*Buna does not pass U.S. Pharmacopeia Class VI Certification and Cytotoxicity.

**Available Sizes**

- 1/2", 3/4"
- 1", 1-1/2", 2", 2-1/2", 3", 4" and 6" sanitary screen gaskets
Tri-Clamp® Sock Screens:
Fluid filtration gaskets designed for greater soil capacity

The extended sock shaped mesh gasket offers up to 5 times more open area for 5 times more soil collection capability than conventional screens. They provide greater flow for situations where a large amount of particulates are involved. Due to the large capacity and open screen area, sock screens require less service therefore reducing down time and costly change outs, a major consideration with in-line pharmaceutical processing.

While protecting expensive processing pumps and equipment from foreign matter, sock screens are especially effective in decreasing pump wear and burnout while increasing energy conservation. Regularly used in the transfer of liquids from a bulk tank to a tank truck and/or in the opposite direction, sanitary sock screens are specifically designed for high volume applications with low pressure drop.

Superior Quality
- Rubber Fab sock design assures a tight fit while allowing continuous fluid flow and filtration.
- Available in 10 mesh to 325 mesh with standard 16 mesh and 10 mesh in stock.
- Electropolishing available
- Durable 316 Stainless Steel with the elastomer of your choice:
  - EPDM
  - Silicone
  - FKM
  - Buna
- Available configurations:
  - Tri-Clamp®
  - Bevel Seat
  - Camlock

Superior Performance
- Fully reusable.
- Eliminates leaks and breakage in your lines.

Superior Economy
- Dramatically increases unloading pressures for smoother operation.

Applications
- In-line fluid conditioning
- Pump protection
Tri-Clamp® Perforated Plate Gaskets

Rubber Fab also offers a full line of perforated plate gaskets.

**Perforations Available**
- .033” standard. Also available in .045”, .062”, .094”, .125”, .187” .250”, .375” and .500”
- Consult factory for custom hole configurations

**Available Sizes**
- 1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4" and 6"

**Materials Available**
- FKM Fluoroelastomer
- EPDM
- Platinum Silicone
- Buna*
- PTFE (fluoropolymer)
- Tuf-Steel®
  * Buna does not pass U.S. Pharmacopeia Class VI Certification and Cytotoxicity.

**Also Available**
- Removable gasket holders available for all discs
- Screen disc inserts
- Perforated disc inserts
- Orifice plate inserts
Camlock Screen Gasket

Rubber Fab offers a complete line of Camlock Screen Gaskets specifically designed to protect your pump during transfer of materials from tanker to silo. The extended sock screen mesh gasket offers up to 5 times more open area for 5 times more soil collection capability than conventional screens.

Available Mesh
• 10 - 100 screen mesh

Available Sizes
• 1", 1-1/2", 2", 2-1/2", 3", 4" and 6"
  (Consult factory for 6")

Materials Available
• FKM Fluoroelastomer
• EPDM
• Platinum Silicone
• Buna*
• Detectomer® Metal Detectable/
  X-ray Inspectable Buna and Silicone

* Buna does not pass U.S. Pharmacopeia Class VI Certification & Cytotoxicity.

Also Available
• Sock Screens are available in 6" lengths
  as a standard stock. Consult factory for other lengths.

Removable Inserts are available

Centering Knobs on the side of all gaskets make for ease of installation and removal.

Female Camlock Fitting, a Camlock Screen Gasket and a Male Camlock shown above

Detectomer® is a registered trademark of Rubber Fab Gasket & Molding, Inc.
Camlock Perforated Plate Gasket

New to the Rubber Fab perforated plate line of products is the Camlock perforated hole plate gaskets. These gaskets are ideal for large particulate filtration.

Perforations Available
• Consult factory for custom hole configurations

Available Sizes
• 1-1/2", 2", 2-1/2", 3", 4" and 6" (Consult factory for 6")

Materials Available
• FKM Fluoroelastomer
• EPDM
• Platinum Silicone
• Buna*

* Buna does not pass U.S. Pharmacopeia Class VI Certification and Cytotoxicity.

Also Available
• 6" lengths as a standard stock
• Electropolished
• Orifice Plate style
# Fluid Filtration Screen Reference Chart

<table>
<thead>
<tr>
<th>APPROX. RETENTION MICRONS</th>
<th>OPENING (INCHES)</th>
<th>MESH (WIRES/INCH)</th>
<th>OPEN AREA %</th>
<th>FILTER CLOTH MESH</th>
<th>FILTER CLOTH THICKNESS</th>
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</thead>
<tbody>
<tr>
<td>5156</td>
<td>0.203</td>
<td>4 x 4</td>
<td>65.9</td>
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<tr>
<td>3340</td>
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<td>6 x 6</td>
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<td>2464</td>
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<td>60.2</td>
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<td>1905</td>
<td>0.075</td>
<td>10 x 10</td>
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<tr>
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<td>–</td>
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<tr>
<td>864</td>
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<tr>
<td>703</td>
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<td>–</td>
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<td>–</td>
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<tr>
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<td>60 x 60</td>
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<td>70</td>
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<td>–</td>
<td>120 x 180</td>
<td>0.010</td>
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<tr>
<td>65</td>
<td>–</td>
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<td>–</td>
<td>120 x 200</td>
<td>0.009</td>
</tr>
<tr>
<td>61</td>
<td>0.002</td>
<td>250 x 250</td>
<td>36.0</td>
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<td>–</td>
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<tr>
<td>50</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>120 x 330</td>
<td>0.010</td>
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<td>43</td>
<td>0.001</td>
<td>325 x 325</td>
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<tr>
<td>40</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>120 x 400</td>
<td>0.009</td>
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<td>35</td>
<td>–</td>
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<td>–</td>
<td>120 x 500</td>
<td>0.009</td>
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<tr>
<td>30</td>
<td>–</td>
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<td>–</td>
<td>120 x 600</td>
<td>0.009</td>
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<tr>
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<td>200 x 600</td>
<td>0.006</td>
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<td>21</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>200 x 830</td>
<td>0.006</td>
</tr>
<tr>
<td>10</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>200 x 1150</td>
<td>0.006</td>
</tr>
</tbody>
</table>

*Stock Items in Stainless Steel 316. Also available: Hastelloy or PTFE Screen (limited mesh for removable gasket holders only).

# Perforated Plate Reference Chart

<table>
<thead>
<tr>
<th>DIAMETER DECIMALS</th>
<th>DIAMETER FRACTION INCHES</th>
<th>CENTER TYPE</th>
<th>HOLES PER SQ. INCH</th>
<th>OPEN AREA %</th>
</tr>
</thead>
<tbody>
<tr>
<td>.033&quot;</td>
<td>.055&quot;</td>
<td>STRAIGHT LINE CENTERS</td>
<td>330</td>
<td>28%</td>
</tr>
<tr>
<td>.045&quot;</td>
<td>.066&quot;</td>
<td>STRAIGHT LINE CENTERS</td>
<td>225</td>
<td>36%</td>
</tr>
<tr>
<td>.062&quot;</td>
<td>1/16&quot;</td>
<td>.094&quot; STAGGERED LINE CENTERS</td>
<td>132</td>
<td>41%</td>
</tr>
<tr>
<td>.094&quot;</td>
<td>3/32&quot;</td>
<td>.156&quot; STAGGERED LINE CENTERS</td>
<td>46</td>
<td>33%</td>
</tr>
<tr>
<td>.125&quot;</td>
<td>1/8&quot;</td>
<td>.187&quot; STAGGERED LINE CENTERS</td>
<td>33</td>
<td>40%</td>
</tr>
<tr>
<td>.187&quot;</td>
<td>3/16&quot;</td>
<td>.250&quot; STAGGERED LINE CENTERS</td>
<td>18</td>
<td>50%</td>
</tr>
<tr>
<td>.250&quot;</td>
<td>1/4&quot;</td>
<td>.375&quot; STAGGERED LINE CENTERS</td>
<td>330</td>
<td>58%</td>
</tr>
</tbody>
</table>
Fluid Conditioning Applications
- Prefiltration for critical membrane filters
- Coalescence of water vapor from process lines
- Liquid gassing or degassing
- Large particulate removal before fill and finish
- Turbulence generation for enhanced mass or heat transfer
- Protection for pump, check valves, and components
- Particulate removal in sterile filling operations
- Sparging
- Chromatography purification
- Metal Detectable Elastomers available

Meets High Pharmaceutical Standards
- U.S. Pharmacopeia Class VI Certification
- Cytotoxicity Criteria
- Title 21 CFR 177.2600
- Title 21 CFR 177.1550
- USDA Sanitary Standards
- 3-A Sanitary Standards
- Current Good Manufacturing Practices (CGMP)
- ASME-BPE Standards
- Animal Derived Ingredient Free*

Rubber Fab offers a wide array of high quality, after market screen products for the tableting and coating industry.

Our factory consultants can work with you to lower your costs, and increase quality though our superior identification practices.

Applications
- Tablet presses
- Fluidizer beds
- Sifters
- All major manufacturers

Features
- Plasma etched identification (product, heat number, lot, diameter, mesh size)
- Precision CNC cut
- Seamed Welds
- Crush proof packaging
- Just in time inventory program

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