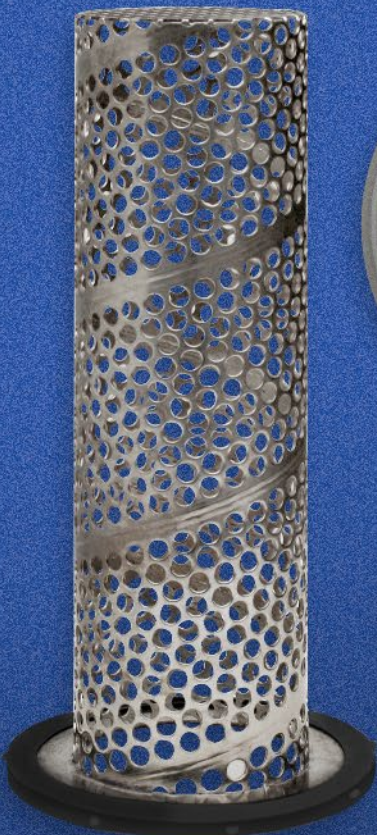
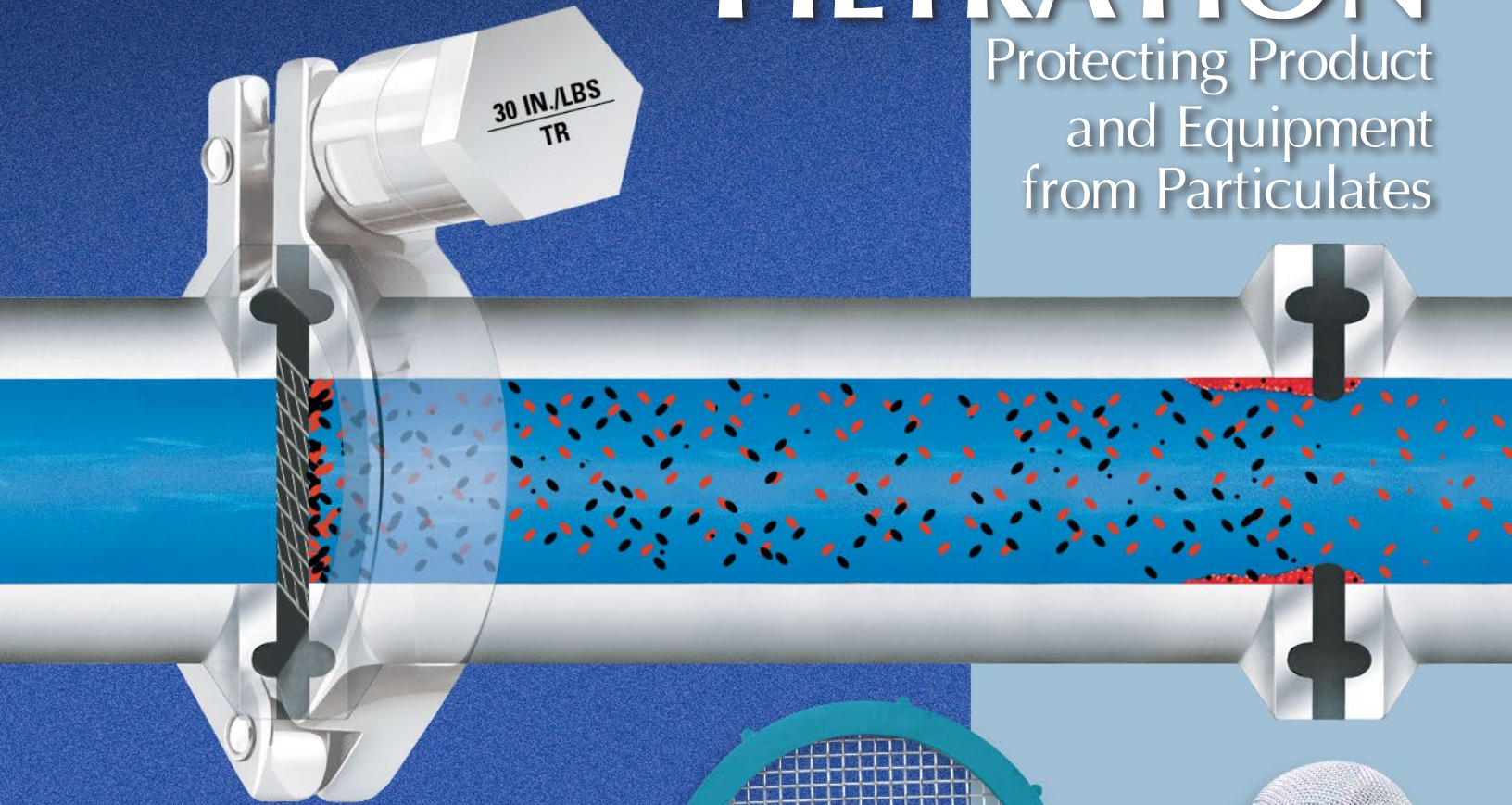


**NEW CAMLOCK
SCREENS INSIDE!**

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

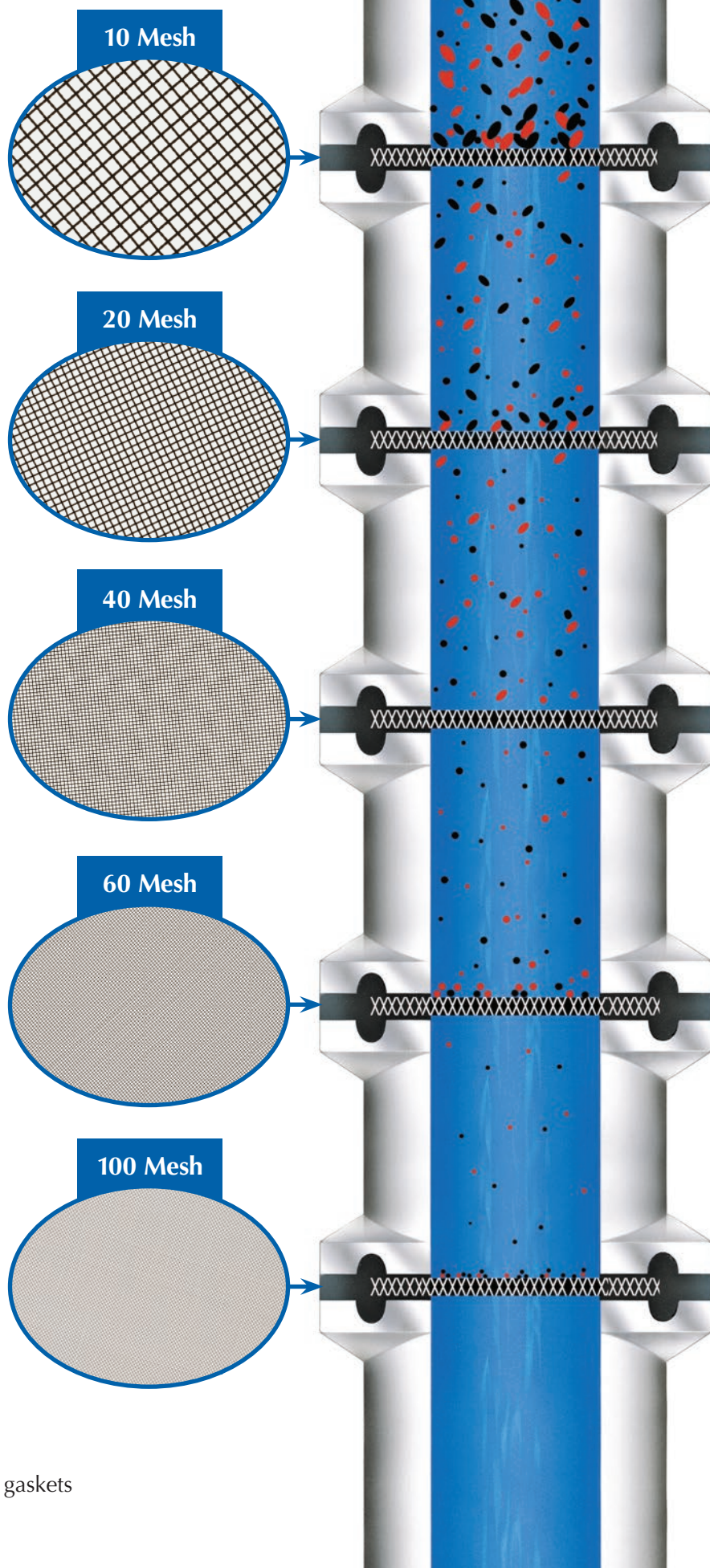
Fluid filtration gaskets are manufactured in the following elastomers:

- 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

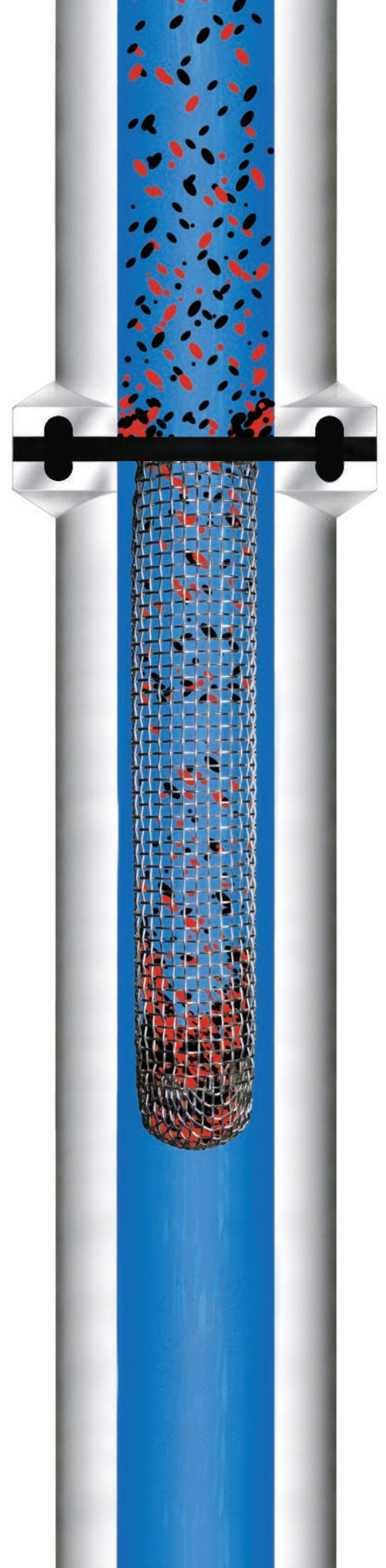
- Fully reusable.
- Eliminates leaks and breakage in your lines.

Superior Economy

- Dramatically increases unloading pressures for smoother operation.

Applications

- In-line fluid conditioning
- Pump protection



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

- 1-1/2", 2", 2-1/2", 3", and 4"

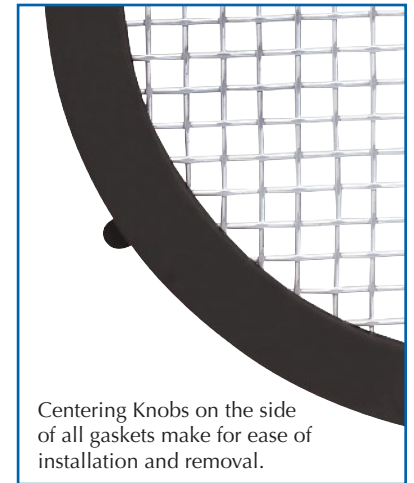
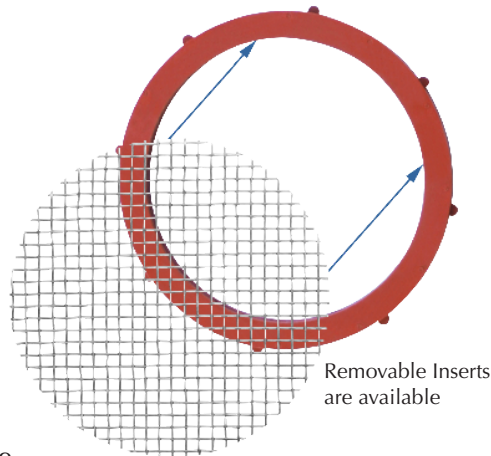
Materials Available

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

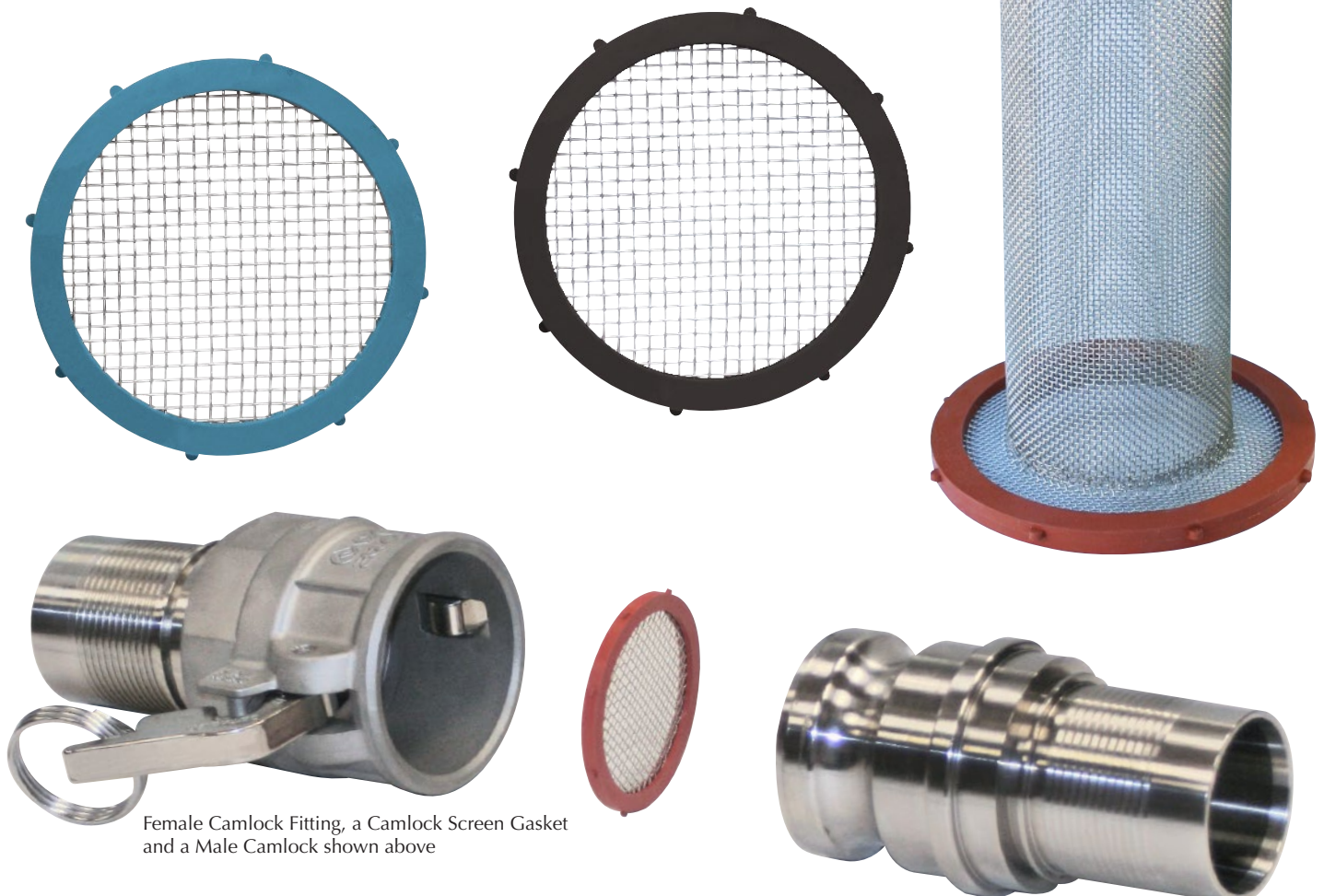
* Buna does not pass U.S. Pharmacopeia Class VI Certification & Cytotoxicity.

Also Available

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



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

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

- Available in .033", .045", .062", .094", .125", .187", .250", .375" and .500" perforations (minimums apply)
- Consult factory for custom hole configurations

Available Sizes

- 1-1/2", 2", 2-1/2", 3", and 4"

Materials Available

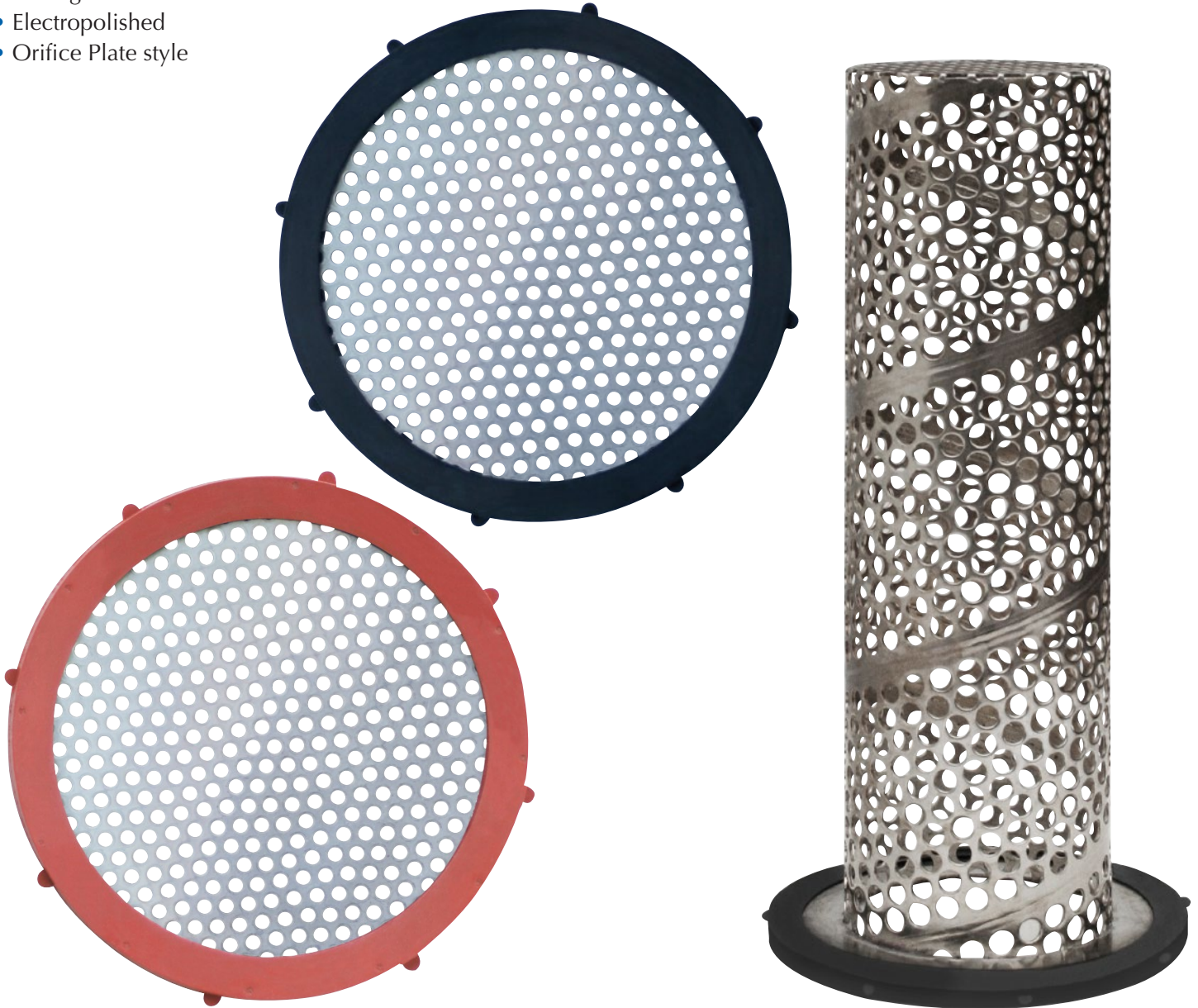
- FKM Fluoroelastomer
- EPDM
- Platinum Silicone
- Buna*

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

Also Available

- 6" lengths as a standard stock
- Electropolished
- Orifice Plate style

Reusable Screens,
Socks and Plates



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"

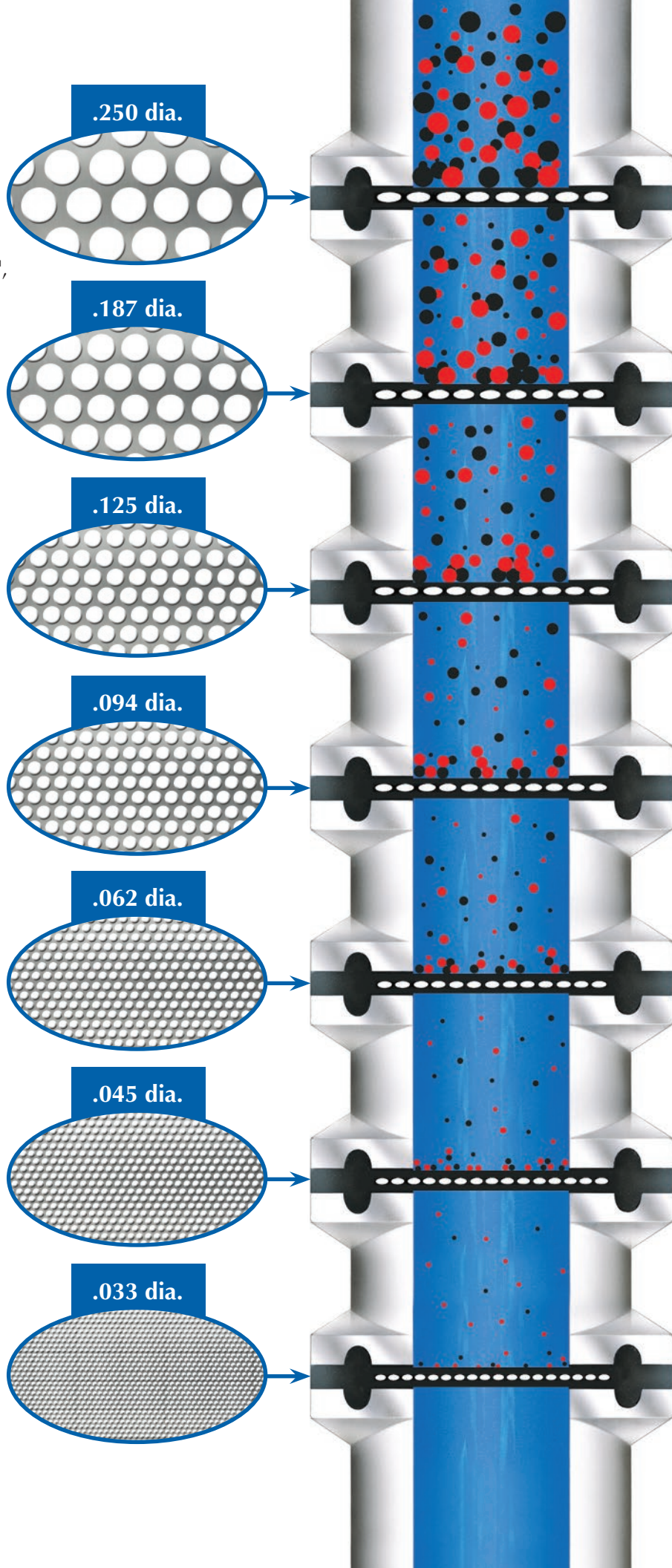
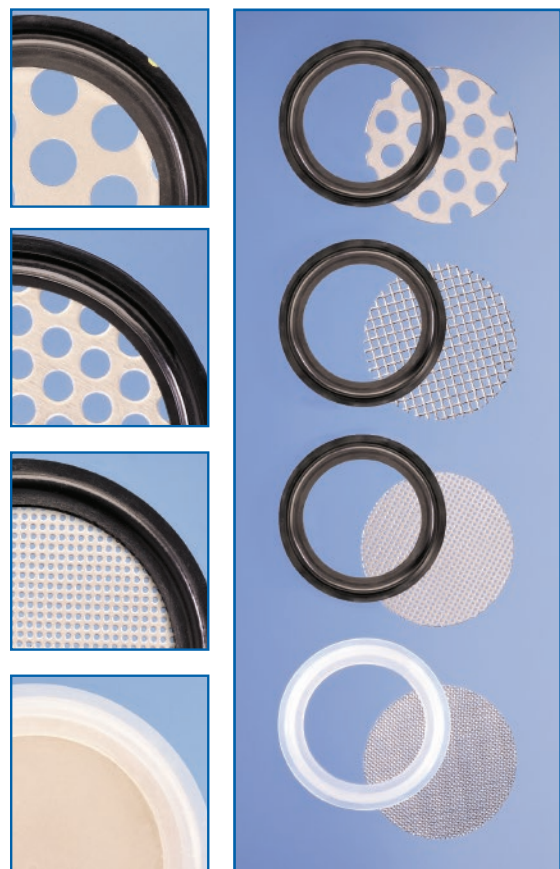
Materials Available

- 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



Fluid Filtration Screen Reference Chart

APPROX. RETENTION MICRONS	OPENING (INCHES)	MESH (WIRES/INCH)	OPEN AREA %	FILTER CLOTH MESH	FILTER CLOTH THICKNESS
5156	0.203	4 x 4	65.9	–	–
3340	0.110	6 x 6	62.4	–	–
2464	0.097	8 x 8	60.2	–	–
1905	0.075	10 x 10	56.3	–	–
1532	0.060	12 x 12	52.4	–	–
1306	0.051	14 x 14	51.8	–	–
1130	0.045	16 x 16	50.7	–	–
979	0.039	18 x 18	48.2	–	–
864	0.034	20 x 20*	46.2	–	–
703	0.028	24 x 24	44.1	–	–
516	0.020	30 x 30	37.2	–	–
381	0.015	40 x 40*	36.0	–	–
318	0.013	50 x 50*	30.3	–	–
233	0.009	60 x 60	30.3	–	–
160	0.007	80 x 80*	31.4	–	–
140	0.006	100 x 100*	30.3	–	–
118	0.005	120 x 120	30.9	–	–
103	0.004	150 x 150	37.2	–	–
96	–	–	–	20 x 200	0.033
80	0.003	180 x 180	34.3	–	–
74	0.002	200 x 200	33.6	–	–
70	–	–	–	120 x 180	0.010
65	–	–	–	120 x 200	0.009
61	0.002	250 x 250	36.0	–	–
50	–	–	–	120 x 330	0.010
43	0.001	325 x 325	29.7	–	–
40	–	–	–	120 x 400	0.009
35	–	–	–	120 x 500	0.009
30	–	–	–	120 x 600	0.009
25	–	–	–	200 x 600	0.006
21	–	–	–	200 x 830	0.006
10	–	–	–	200 x 1150	0.006

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

Perforated Plate Reference Chart

DIAMETER DECIMALS	DIAMETER FRACTION INCHES	CENTER TYPE	HOLES PER SQ. INCH	OPEN AREA %
.033"		.055" STRAIGHT LINE CENTERS	330	28%
.045"		.066" STRAIGHT LINE CENTERS	225	36%
.062"	1/16"	.094" STAGGERED LINE CENTERS	132	41%
.094"	3/32"	.156" STAGGERED LINE CENTERS	46	33%
.125"	1/8"	.187" STAGGERED LINE CENTERS	33	40%
.187"	3/16"	.250" STAGGERED LINE CENTERS	18	50%
.250"	1/4"	.375" STAGGERED LINE CENTERS	330	58%

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*

® Tuf-Steel and ADI Free are registered trademarks of Rubber Fab.
Metal Detectable products US patent #7,390,580.

* Buna in not an ADI Free elastomer.

Tableting and Coating Industry

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 through 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



Rubber Fab

a Garlock Hygienic Technologies company

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