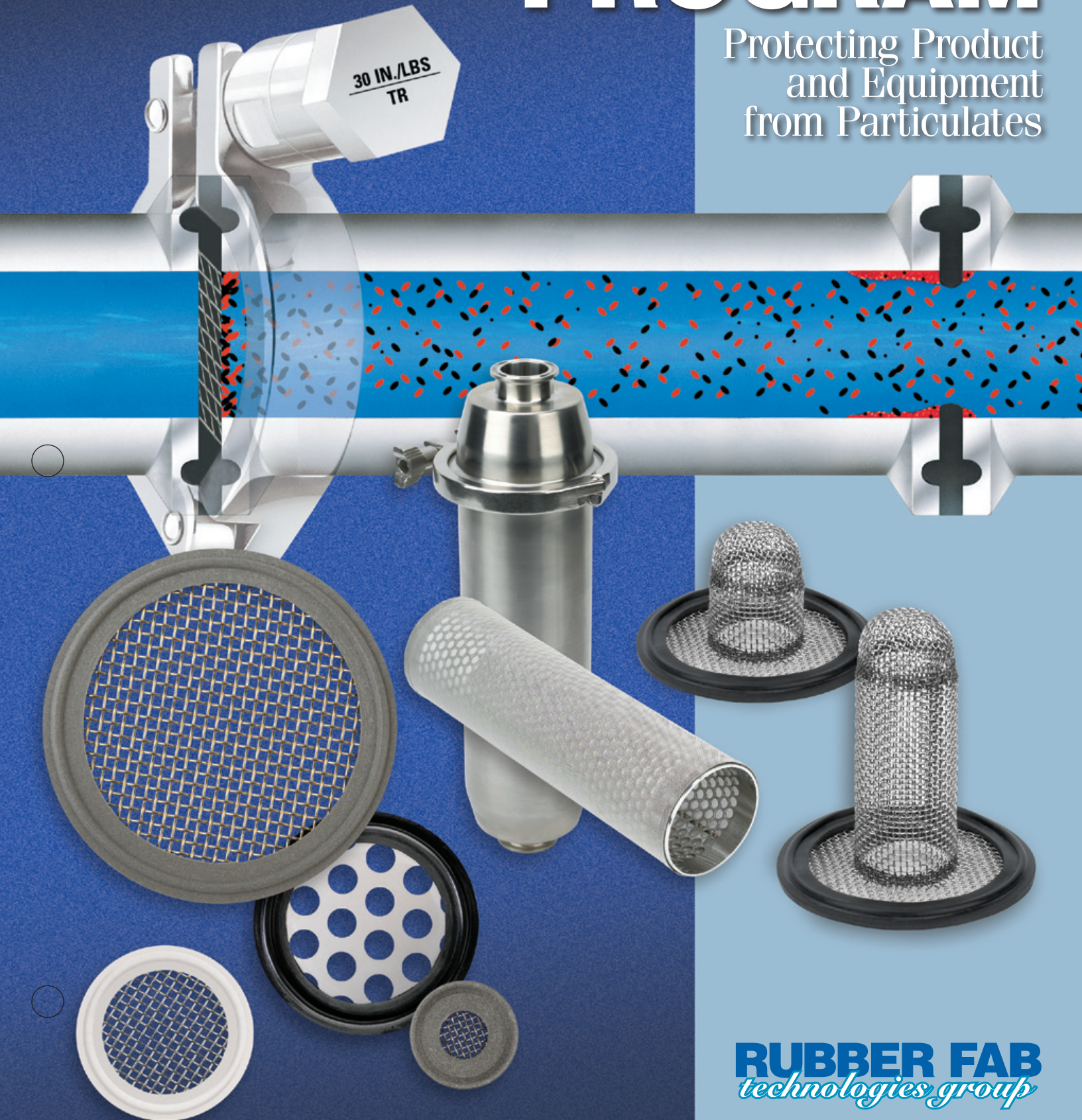


SCREENS, SOCKS AND INLINE STRAINERS FLUID FILTRATION PROGRAM

Protecting Product
and Equipment
from Particulates



RUBBER FAB
technologies group

Rubber Fab's Fluid Filtration Gaskets

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 screen 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, spray balls and spray nozzles**. As illustrated here, you can see a progressive large to fine particulate elimination system utilizing **10, 20, 40, 60 and 100 mesh screens**.

Providing a Full Range of Particulate Elimination

Rubber Fab's sanitary fluid filtration screen 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 which are available for shipment on the day of order. Our fluid filtration screen gaskets are also **available in metal detectable elastomers** for use with metal detection systems. We hope after you have reviewed the Rubber Fab Technologies Group's Fluid Filtration Program, you will once again discover...*the Rubber Fab Difference*.

Materials Available

Fluid filtration gaskets are manufactured in the following elastomers:

- FKM Fluoroelastomer
- EPDM
- Platinum Silicone
- Buna*
- PTFE (fluoropolymer)
- Tuf-Steel®

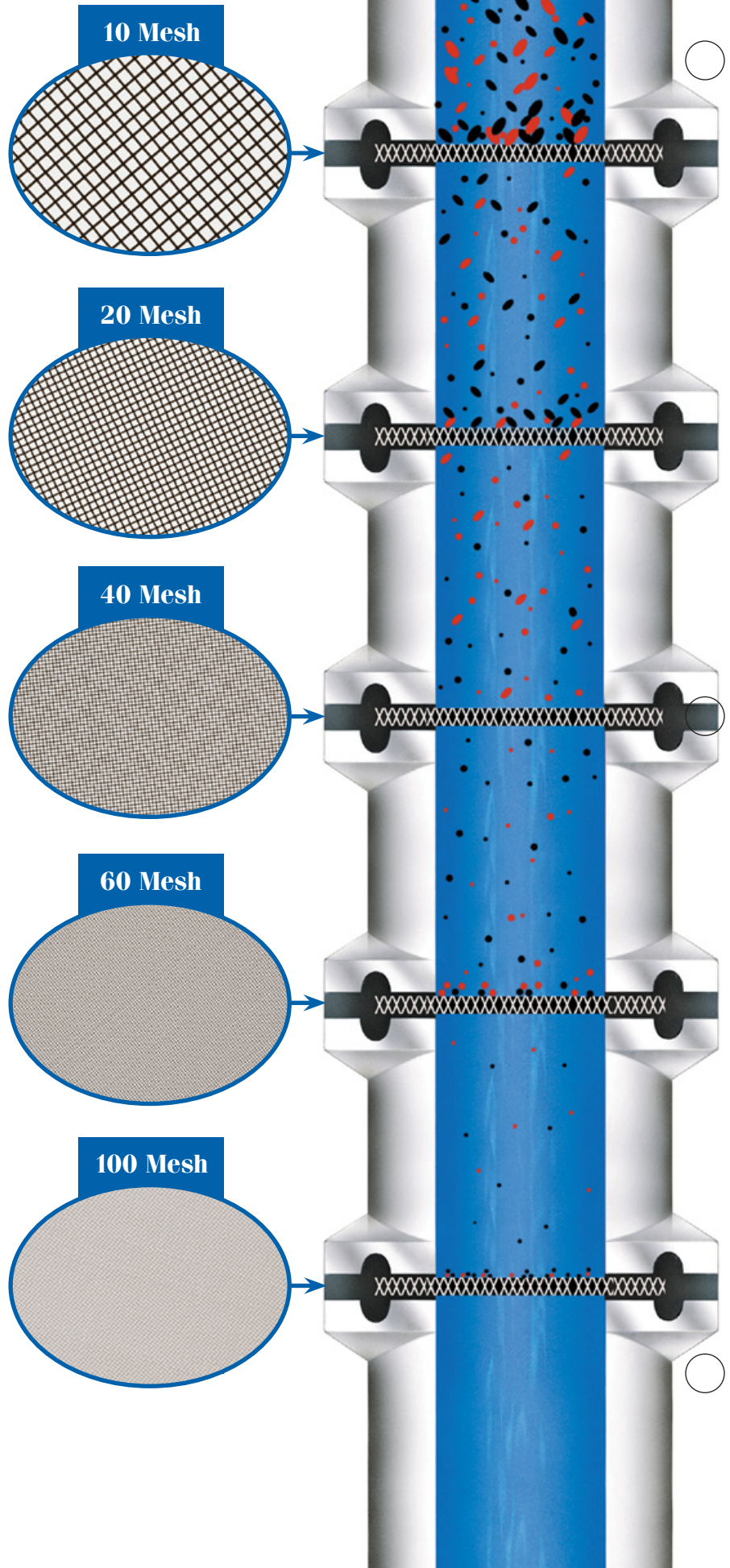
Available Sizes

- Mini, 1/2", 3/4"
- 1", 1-1/2", 2", 2-1/2", 3", 4" and 6" sanitary screen gaskets

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**
- **Current Good Manufacturing Practices (CGMP)**
- **ASME-BPE Standards**
- **Animal Derived Ingredient Free**

* Buna-N does not pass U.S. Pharmacopeia Class VI Certification and Cytotoxicity and is not an ADI Free elastomer.



Perforated Plate Gaskets

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

Perforations Available

- .033", .045", .062", .094", .125", .187" and .250" standard
- Consult factory for custom hole configurations

Available Sizes

- 1", 1-1/2", 2", 2-1/2", 3", 4" and 6"

Materials Available

- FKM Fluoroelastomer
- EPDM
- Platinum Silicone
- Buna*
- PTFE (fluoropolymer)
- Tuf-Steel®

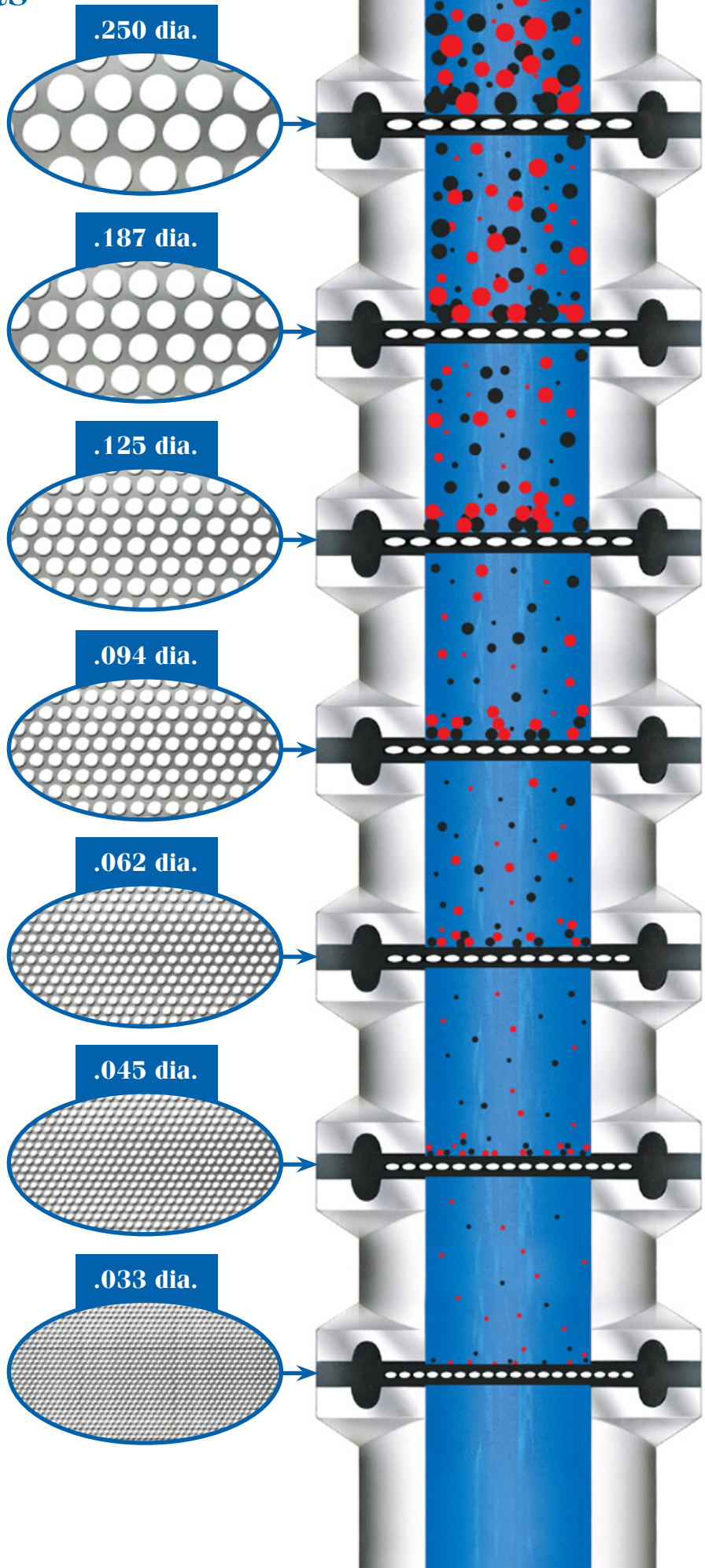
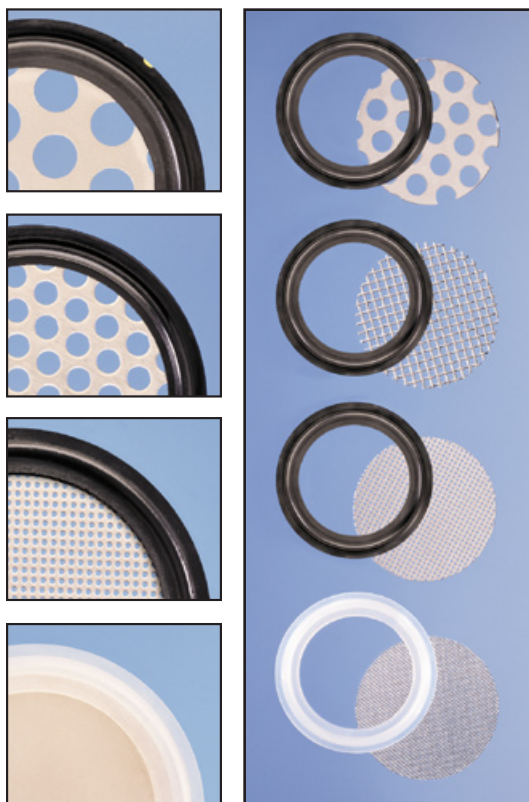
Also Available

- Removable gasket holders available for all discs
- Screen disc inserts
- Perforated disc inserts
- Orifice plate inserts

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
- Current Good Manufacturing Practices (CGMP)
- ASME-BPE Standards
- Animal Derived Ingredient Free

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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	—	—	—
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 150	0.006

Standard stock items in 316 Stainless Steel. Also available: Hastelloy, Membrane Inserts, and PTFE Screen (limited mesh for removable gasket holders).

Perforated Plate Reference Chart

DIAMETER DECIMALS	DIAMETER FRACTION INCHES	CENTER TYPE	HOLES PER SQ. INCH	OPEN AREA %
.033"		.055" STRAIGHT LINE CENTERS	330	29%
.033"		.074" STRAIGHT LINE CENTERS	232	20%
.045"		.066" STRAIGHT LINE CENTERS	225	37%
.045"		.089" STRAIGHT LINE CENTERS	167	28%
.045"		.098" STRAIGHT LINE CENTERS	120	19%
.062"	1/16"	.094" STRAIGHT LINE CENTERS	132	41%
.062"	1/16"	.100" STRAIGHT LINE CENTERS	100	31%
.094"	3/32"	.156" STRAIGHT LINE CENTERS	46	33%
.094"	3/32"	.187" STRAIGHT LINE CENTERS	33	23%
.094"	3/32"	.250" STRAIGHT LINE CENTERS	18	13%
.125"	1/8"	.187" STRAIGHT LINE CENTERS	33	40%
.125"	1/8"	.219" STRAIGHT LINE CENTERS	33	32%
.125"	1/8"	.250" STRAIGHT LINE CENTERS	33	23%
.187"	3/16"	.250" STRAIGHT LINE CENTERS	18	50%
.187"	3/16"	.312" STRAIGHT LINE CENTERS	12	32%
.187"	3/16"	.375" STRAIGHT LINE CENTERS	8	23%
.250"	1/4"	.375" STRAIGHT LINE CENTERS	330	40%
.250"	1/4"	.437" STRAIGHT LINE CENTERS	330	30%
.250"	1/4"	.500" STRAIGHT LINE CENTERS	330	20%

Sock Screens: Fluid filtration gaskets designed for greater soil capacity

The extended sock shaped mesh gasket offers up to **300% more open area for 300% 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 changeouts**, a major consideration with inline 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 filtration and flow.
- Available in 10 mesh to 325 mesh with standard 16 mesh and 20 mesh in stock.
- Available electropolished.
- Durable 316 Stainless Steel with the elastomer of your choice:
 - EPDM
 - Silicone
 - FKM
 - Buna*
- Available configurations:
 - Tri-Clamp®
 - Bevel Seat
 - Cam & Groove

Superior Performance

- Fully reusable for an average of 250 to 300 procedures.
- Eliminates leaks and breakage in your lines.

Superior Economy

- Dramatically increases unloading pressures for smoother operation.

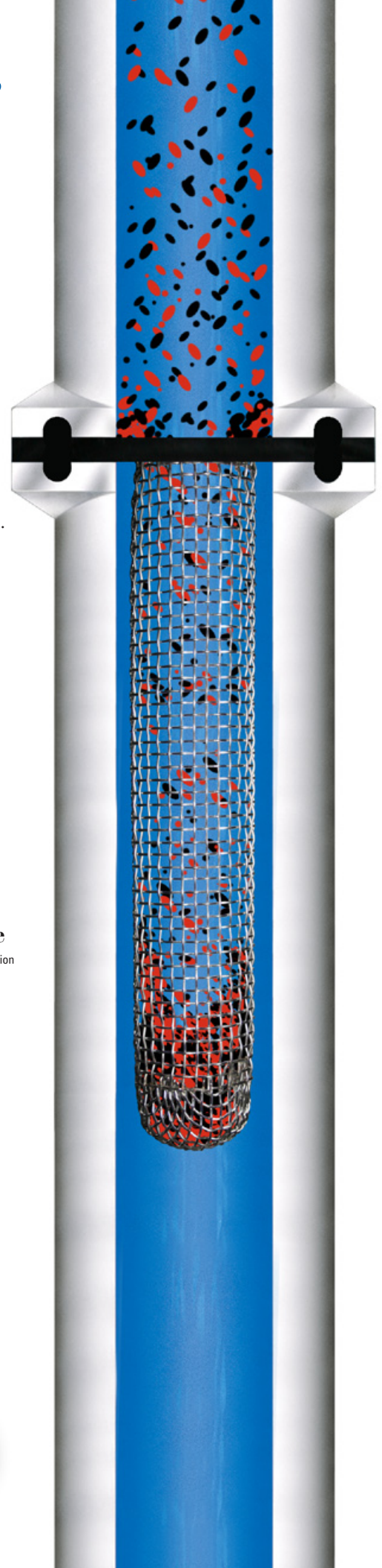
Applications

- Inline fluid conditioning
- Pump protection

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
- Current Good Manufacturing Practices (CGMP)
- ASME-BPE Standards
- Animal Derived Ingredient Free

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Fluid Filtration 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

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
- Current Good Manufacturing Practices (CGMP)
- ASME-BPE Standards
- Animal Derived Ingredient Free*

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Metal Detectable products US patent #7,390,580.

* Buna in not an ADI Free elastomer.



Inline Strainers and OverScreens

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.

Screens for the Tableting and Coating Industry

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

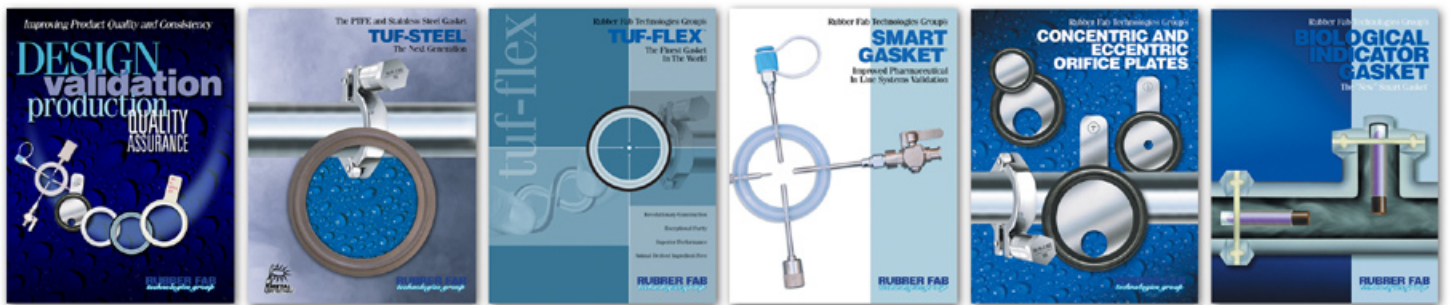
Our factory consultants can work with you to lower your costs, and increase quality through our superior identification practices.

Applications

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

Features

- Laser etched identification (screen, lot, heat number, diameter, mesh size)
- Plasma cut all screen configurations
- Seemed



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