

Fluid Conditioning Technology By Rubber Fab

SCREEN HYGIENIC SEALS

Protecting Products
From Particulates



Fluid Conditioning Seals

Rubber Fab's sanitary Fluid Conditioning Hygienic Seals are designed to be interchangeable with standard sanitary clamp gaskets.

Metallic Screens

- 316 Stainless Steel
- Hastelloy - consult factory
- Stainless steel perforated

Available Meshes

For in stock product, please see the Rubber Fab Fluid Conditioning Reference Chart on the back page.

Available Sizes

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

Applications

- Prefiltration for critical membrane filters
- Coalescence of water vapor from process exhaust 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 other 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
- Current Good Manufacturing Practices (CGMP)
- ASME-BPE Standards
- Animal Derived Ingredient Free*

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Rubber Fab Technologies Group's Metal Detectable products are patent pending.

* Buna in not an ADI Free elastomer.

Rubber Fab's Fluid Conditioning Program

Rubber Fab offers a hygienic seal program for your consideration and employment. For the first time, you can chose the USP Class VI elastomer of your choice in a variety of mesh sizes, **10 micron through 4 mesh**, which are all normally available for shipment on the day of order. Our fluid conditioning hygienic seals are also **available with metal detectable elastomers**. We hope after you have reviewed the Rubber Fab Technologies Group's Fluid Conditioning Program, you will once again discover...***the Rubber Fab Difference.***

Materials Available

Fluid conditioning hygienic seals are manufactured in the following elastomers:

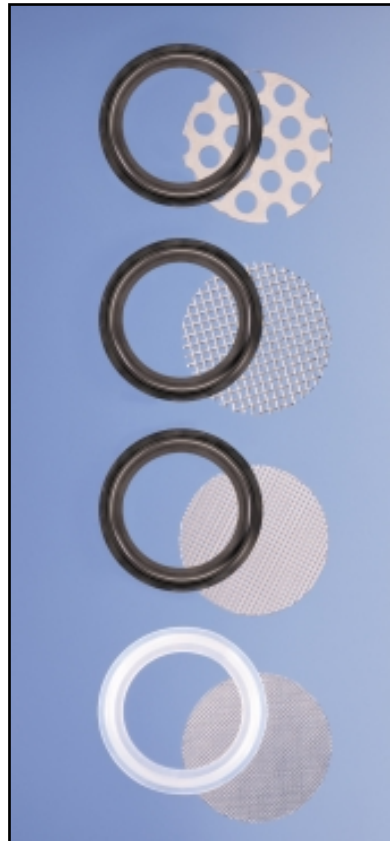
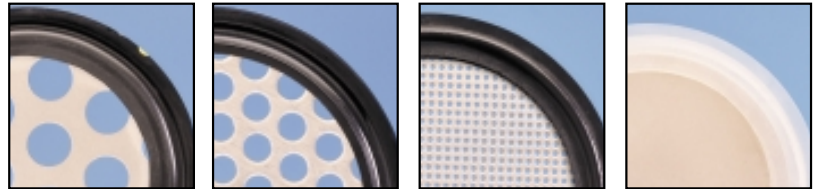
- FKM Fluoroelastomer
- EPDM
- Platinum Silicone
- Buna*
- PTFE (fluoropolymer)
- Tuf-Steel®

Also Available

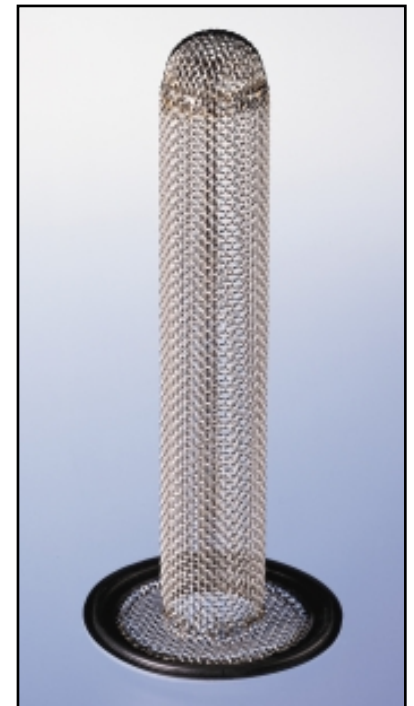
- Perforated fluid conditioning seals. Size range: 1"- 6".
- Complete elastomer selection
- Removable hygienic seal holders available for all discs
- Screen disc inserts
- Perforated disc inserts
- Orifice plate inserts

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

Perforated fluid conditioning seals



Fluid conditioning sock designed for greater soil capacity



Removable disc inserts and holders sold separately

Mesh sizes available: 10 mesh and 16 mesh

Range of Particulate Elimination

Fluid conditioning hygienic seals 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, you can see a progressive particulate elimination utilizing **10, 20, 40, 60 and 100 mesh screens**.

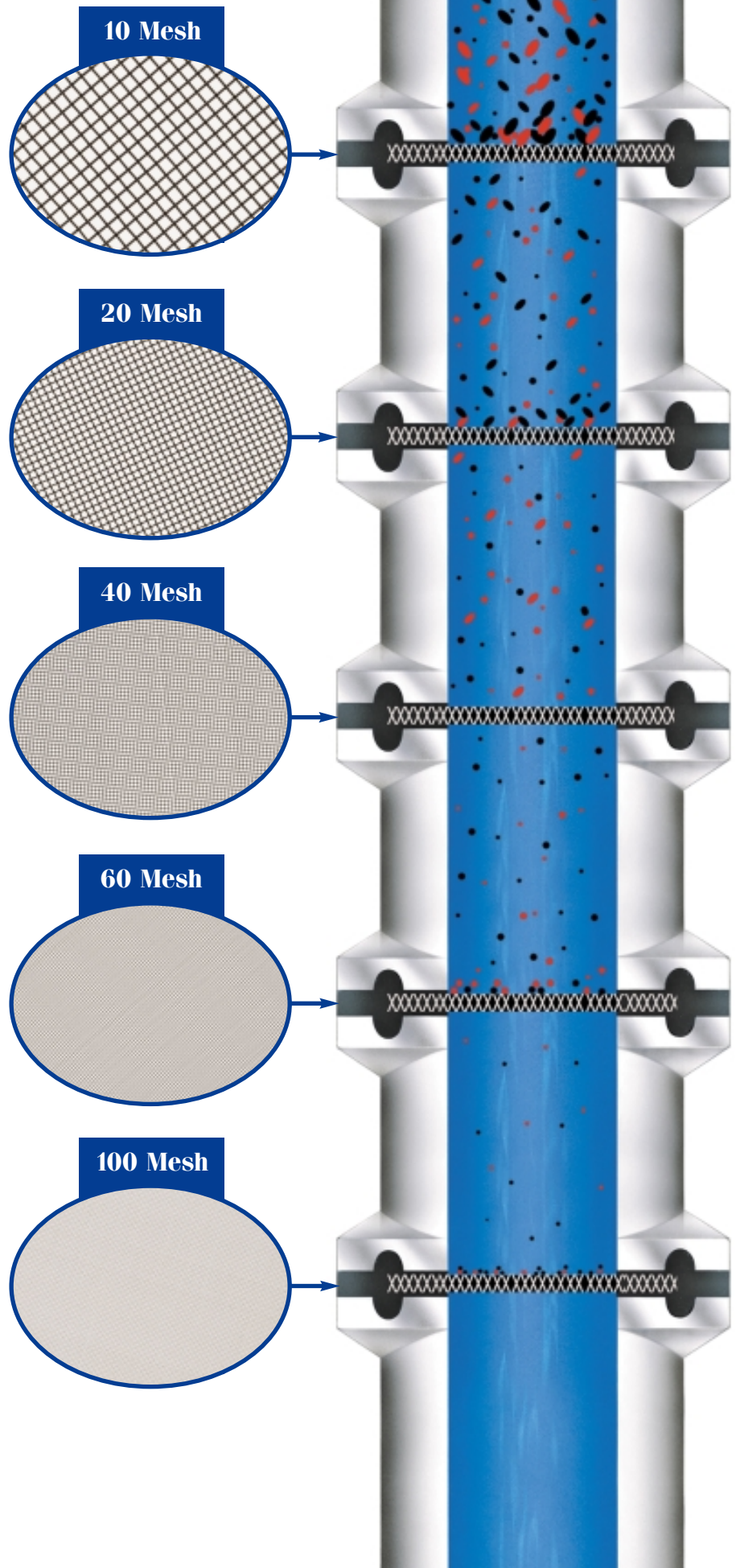
We are also able to provide hygienic seals which will allow you to remove your screen disc, accept an orifice plate disc or membrane of choice, providing the membrane thickness **does not exceed .032 inches**.

Sock designs are also available. Sock designs are inserted into the I.D. of your stainless steel tubing and provide filtration when a greater soil burden is present.

Please do not hesitate to contact us regarding your special needs and thoughts as it pertains to your fluid conditioning program.

Photography presented here is actual size pertaining to **10, 20, 40, 60 and 100 mesh sizes**. For full product availability, refer to the Fluid Conditioning Reference Chart on the back page. **Screen construction is Dutch Twill weave for maximum strength and minimum pressure drop.** Perforated .033 seals are also available.

If elimination of particulates are critical to the **CGMP** in your injectable filled product, chromatography, columns, upstream particulate removal, downstream, filtration, as a reassurance, consider **Rubber Fab Technologies Group's Fluid Conditioning technology**.

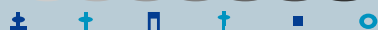


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Fluid Conditioning Reference Chart

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

Approx. Retention MICRONS	Square Mesh			Filter Cloth		
	Opening (Inches)	Mesh (Wires/Inch)	Wire Diameter	Cloth Thickness	Mesh	Cloth Thickness
5156	0.2030	4x4	0.047	0.094	—	—
3340	0.110	6x6	0.035	0.056	—	—
2464	0.0970	8x8	0.028	0.056	—	—
1905	0.0750	10x10*	0.025	0.050	—	—
1532	0.0603	12x12	0.023	0.048	—	—
1306	0.0514	14x14	0.020	0.040	—	—
1130	0.0445	16x16	0.018	0.036	—	—
1081	0.0426	18x18	0.013	0.026	—	—
979	0.0386	18x18	0.017	0.034	—	—
864	0.0340	20x20*	0.016	0.032	—	—
703	0.0277	24x24	0.014	0.028	—	—
516	0.0203	30x30	0.013	0.026	—	—
381	0.0150	40x40*	0.010	0.020	—	—
318	0.0125	50x50	0.0075	0.015	—	—
233	0.0092	60x60*	0.0075	0.015	—	—
225	—	—	—	—	16x100	0.038
168	0.0065	105x105	0.0030	0.006	—	—
160	—	—	—	—	24x110	0.035
140	0.0055	80x80*	0.0070	0.014	—	—
140	0.0055	100x100*	0.0045	0.009	—	—
120	—	—	—	—	30x160	0.023
118	0.0046	120x120	0.0037	0.007	—	—
110	0.0043	120x120	0.0040	0.008	—	—
103	0.0041	150x150	0.0026	0.005	—	—
96	—	—	—	—	20x200	0.0325
93	0.0037	150x150	0.0030	0.006	—	—
90	—	—	—	—	20x250	0.026
85	—	—	—	—	40x200	0.018
83	0.0033	180x180	0.0023	0.005	—	—
80	—	—	—	—	120x160	0.011
75	—	—	—	—	30x250	0.028
74	0.0029	200x200	0.0021	0.004	—	—
70	—	—	—	—	120x180	0.011
69	0.0027	200x200	0.0023	0.005	—	—
65	—	—	—	—	120x200	0.011
61	0.0024	250x250	0.0016	0.003	—	—
60	—	—	—	—	28x500	0.016
50	—	—	—	—	120x330	0.010
43	0.0017	325x325	0.0014	0.003	—	—
40	—	—	—	—	120x400	0.010
35	—	—	—	—	120x500	0.010
30	—	—	—	—	80x700	0.010
30	—	—	—	—	120x800	0.009
25	—	—	—	—	20x350	0.022
25	—	—	—	—	200x600	0.006
21	—	—	—	—	200x830	0.006
10	—	—	—	—	200x1150	0.006



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