

## Fluid Conditioning Seals



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

### **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

### **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

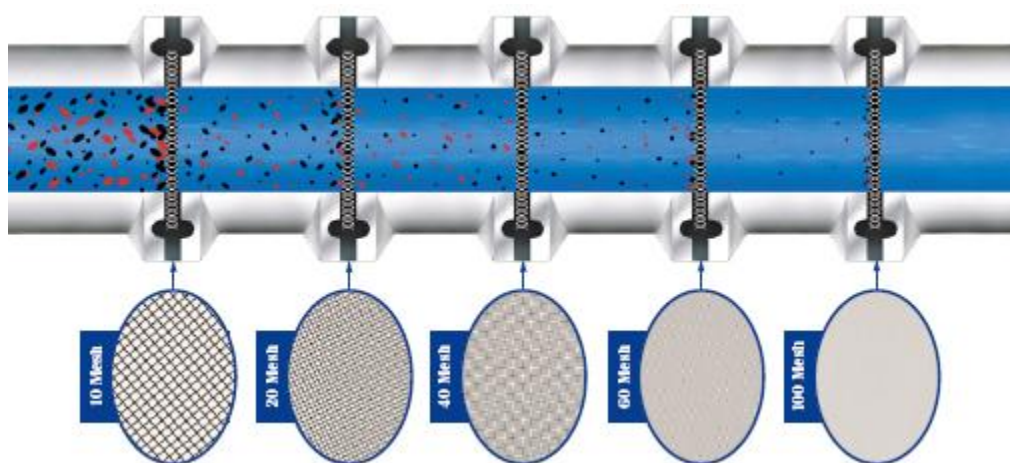
### Meets High Pharmaceutical Standards

- 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\*

® Tuf-Steel and ADI Free are registered trademarks of Rubber Fab Technologies Group. Rubber Fab Technologies Group's Metal Detectable products are patent pending.

\* Buna in not an ADI Free elastomer.

### 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 **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**.

## RUBBER FAB

### 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).

Square Mesh					Filter Cloth	
Approx Retention Microns	Opening (inches)	Mesh (Wires/inches)	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