

Straining Element Selection / Model Information



Figure 3 - Wedge-Wire Straining Elements

Straining Element Selection

The Model SFA Straining Element (Fig. 3) is an extremely rugged, single-piece unit available in a variety of standard and custom openings and materials.

Screen opening should be selected based on the amount of protection necessary, and not on the smallest opening available. By specifying a smaller opening than needed, more debris will be retained and subsequently result in longer cleaning durations and increased backwash fluid loss. Also, smaller than necessary screen openings will reduce open screen area and increase pressure loss.

The screen opening should be approximately one-third (1/3) to one half (1/2) the largest size particle that can safely pass downstream. Example: A strainer protecting spray nozzles with a 1/16" orifice would be supplied with a 1/32" screen opening.

Straining Element Selection Guide

| Standard | | | | |
|-----------------------|---------------------------------|-----------------|-------------------|-------------|
| Slot Opening (Inches) | Fraction Equivalent inches (mm) | Mesh Equivalent | Micron Equivalent | % Open Area |
| 0.003 | (0.08) | 200 | 75 | 9 |
| 0.006 | (0.15) | 100 | 149 | 16.5 |
| 0.010 | (0.25) | 50 | 250 | 17.5 |
| 0.015 | 1/64 (0.4) | 40 | 385 | 24 |
| 0.020 | (0.5) | 35 | 500 | 30 |
| 0.032 | 1/32 (0.8) | 20 | 795 | 40 |
| 0.062 | 1/16 (1.6) | 10 | 1590 | 51 |
| 0.125 | 1/8 (3.2) | 6 | 3205 | 67 |
| 0.187 | 3/16 (4.8) | 4 | 4795 | 72 |
| 0.250 | 1/4 (6.4) | 3 | 6410 | 78 |

Other slot openings are available upon request.

Standard screen material is 304 Stainless Steel.

316 Stainless Steel, 316L Stainless Steel, Monel and other materials are available upon request.

Model Information

| The WEB Base Unit | | |
|-------------------|---------------|------------|
| Model | Body Material | Size Range |
| SFA10 | Cast Iron | 2" - 10" |
| SFA20 | Carbon Steel | 1" - 10" |
| SFA30 | Carbon Steel | 10" - 36" |

| The WEB With Spyder-Clean | | |
|---------------------------|---------------|--------------|
| Model | Body Material | Size Range |
| SFA11 | Cast Iron | 2" - 10" |
| SFA31 | Carbon Steel | 1 1/2" - 36" |



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