

Stainless Steel High Pressure Filters



A comprehensive range of stainless steel filters ideal for a wide variety of high pressure applications.

The nano F-Series⁴ range of stainless steel high pressure filters consists of 21 models across three pressure ranges offering flow ratings up to 2000 scfm and pressure ratings up to 5000 psig.

Manufactured from high grade 316 stainless steel* the nano F-Series⁴ are precision engineered with high pressure applications in mind.

The 725 psig range incorporates an innovative push-fit element design to ensure optimum sealing and mechanical strength. Elements are color coded for easy identification. The 1450 and 5000 psig ranges incorporate elements with corrosion resistant stainless steel end caps.

Up to 5000 psig MAWP

Choose from six different levels of contaminant removal including water separation, 25, 5, 1 and 0.01 micron coalescing and/or dust filtration and activated carbon oil vapor removal. The custom engineered filter media is designed to provide low air velocity preventing oil carry over for high efficiency filtration with minimal pressure drop.

Manufactured in an ISO 9001 approved facility and tested in accordance with ISO 8573-1:2010.



Applications Include:

Chemical

Food & Beverage

Manufacturing

Military

Oil & Gas

Pharmaceuticals

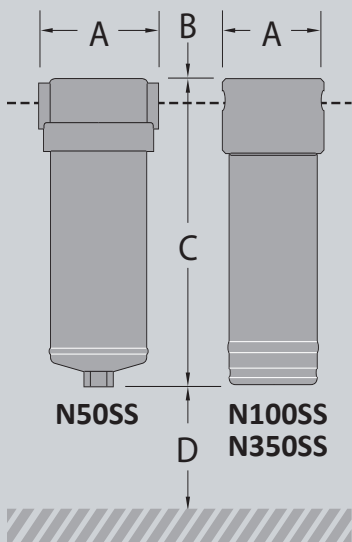
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Technical Specification

| Filter Model | Inlet & Outlet | Rated Flow ⁽¹⁾ | | Dimensions (inches) | | | | Approx. Weight | Replacement Element |
|---------------------------|----------------|---------------------------|--------------------|---------------------|------|------|------|----------------|---------------------|
| | NPT | scfm | Nm ³ /h | A | B | C | D | lbs | Part No. |
| N50SS (725 psig) | | | | | | | | | |
| N50SS 0060 (grade) | ¼" | 60 | 100 | 3.34 | 0.70 | 6.69 | 2.95 | 3.7 | E50SS 0060 (grade) |
| N50SS 0120 (grade) | ¾" | 120 | 200 | 3.34 | 0.70 | 8.07 | 3.93 | 4.4 | E50SS 0120 (grade) |
| N50SS 0200 (grade) | ½" | 200 | 340 | 3.34 | 0.70 | 8.07 | 3.93 | 4.8 | E50SS 0200 (grade) |
| N50SS 0300 (grade) | ¾" | 300 | 500 | 4.43 | 1.06 | 10.6 | 5.90 | 8.8 | E50SS 0300 (grade) |
| N50SS 0600 (grade) | 1" | 600 | 1000 | 4.43 | 1.06 | 16.5 | 11.8 | 11.0 | E50SS 0600 (grade) |
| N50SS 1000 (grade) | 1 ½" | 1000 | 1700 | 5.90 | 1.77 | 20.7 | 11.8 | 33.0 | E50SS 1000 (grade) |
| N50SS 1200 (grade) | 2" | 1200 | 2040 | 5.90 | 1.77 | 20.7 | 11.8 | 33.0 | E50SS 1200 (grade) |
| N50SS 2000 (grade) | 2" | 2000 | 3400 | 5.90 | 1.77 | 32.5 | 19.7 | 46.2 | E50SS 2000 (grade) |
| N100SS (1450 psig) | | | | | | | | | |
| N100SS 0060 (grade) | ¼" | 60 | 100 | 2.55 | 0.78 | 5.31 | 2.75 | 7.0 | E100SS 0060 (grade) |
| N100SS 0185 (grade) | ½" | 185 | 315 | 2.55 | 0.78 | 9.84 | 7.08 | 12.3 | E100SS 0185 (grade) |
| N100SS 0270 (grade) | ¾" | 270 | 460 | 3.46 | 0.78 | 10.8 | 9.84 | 13.4 | E100SS 0270 (grade) |
| N100SS 0400 (grade) | 1" | 400 | 680 | 5.19 | 1.02 | 10.4 | 9.84 | 23.1 | E100SS 0400 (grade) |
| N100SS 0700 (grade) | 1" | 700 | 1200 | 5.19 | 1.02 | 18.9 | 11.8 | 32.4 | E100SS 0700 (grade) |
| N100SS 1000 (grade) | 1 ½" | 1000 | 1700 | 5.90 | 1.77 | 20.7 | 11.8 | 48.5 | E100SS 1000 (grade) |
| N100SS 2000 (grade) | 2" | 2000 | 3400 | 5.90 | 1.77 | 32.5 | 19.7 | 61.7 | E100SS 2000 (grade) |
| N350SS (5000 psig) | | | | | | | | | |
| N350SS 0028 (grade) | ¼" | 28 | 48 | 1.61 | 0.39 | 4.05 | 2.36 | 3.5 | E350SS 0028 (grade) |
| N350SS 0067 (grade) | ¼" | 67 | 111 | 2.55 | 0.78 | 5.31 | 2.75 | 7.0 | E350SS 0067 (grade) |
| N350SS 0150 (grade) | ½" | 150 | 255 | 2.55 | 0.78 | 8.26 | 5.90 | 12.3 | E350SS 0150 (grade) |
| N350SS 0300 (grade) | ¾" | 300 | 510 | 3.46 | 0.98 | 11.0 | 9.84 | 13.4 | E350SS 0300 (grade) |
| N350SS 0445 (grade) | 1" | 445 | 750 | 5.90 | 1.37 | 13.0 | 7.87 | 31.5 | E350SS 0445 (grade) |
| N350SS 0775 (grade) | 1" | 775 | 1330 | 5.90 | 1.37 | 18.9 | 11.8 | 38.3 | E350SS 0775 (grade) |



| element performance | WS | M25 | M5 | M1 | M01 | AC |
|--|--------|--------|--------|--------|--------|--------|
| particle removal (microns) | - | 25 | 5 | 1 | 0.01 | - |
| max oil carry over at 68°F (ppm or mg/m ³) | - | 10 | 5 | 0.1 | 0.01 | 0.003 |
| recommended operating temp range (°F) | 35-212 | 35-212 | 35-212 | 35-212 | 35-212 | 35-77 |
| design operating temperature range (°F) | 35-248 | 35-248 | 35-248 | 35-248 | 35-248 | 35-122 |

| specifications | N50SS | N100SS | N350SS |
|---------------------------------|---------------|---------------------|----------------|
| design operating pressure range | 0 to 725 psig | 0 to 1450 psig | 0 to 5000 psig |
| condensate drain (included) | | manual ball valve | |
| housing material | | 316 stainless steel | |

| pressure correction factors | | | | | | | | | | |
|-----------------------------|------|------|------|------|------|------|------|------|------|--|
| N50SS (725 psig) | | | | | | | | | | |
| operating pressure (psig) | 60 | 90 | 120 | 150 | 220 | 290 | 435 | 580 | 725 | |
| correction factor | 0.14 | 0.22 | 0.28 | 0.34 | 0.47 | 0.56 | 0.70 | 0.85 | 1.00 | |
| N100SS (1450 psig) | | | | | | | | | | |
| operating pressure (psig) | 290 | 435 | 580 | 725 | 870 | 1015 | 1160 | 1305 | 1450 | |
| correction factor | 0.45 | 0.57 | 0.68 | 0.80 | 0.84 | 0.88 | 0.92 | 0.96 | 1.00 | |
| N350SS (5000 psig) | | | | | | | | | | |
| operating pressure (psig) | 725 | 1450 | 2175 | 2900 | 3625 | 4350 | 5000 | | | |
| correction factor | 0.73 | 0.78 | 0.82 | 0.87 | 0.91 | 0.96 | 1.00 | | | |

(1) At 725, 1450 or 5000 psig as applicable. For all other pressures, refer to the pressure correction factor table above.

- Install with air flow inside to outside for coalescing filtration and outside to inside for dry particulate filtration.
- Differential pressure indicator not included.