

medical sterile filters

FEATURES

- manufactured to exceed the requirements for medical gas pipeline systems
- 16 models with connections from ¼" to 3" NPT and rated flows from 15 to 1500 scfm
- manufactured from cast aluminum alloy providing enhanced strength
- E-Coat™ optimum corrosion protection provided by an internal and external epoxy powder coating followed by an external tough polyester powder coat finish
- supplied with an Air Sterilization Certificate to guarantee the highest downstream air quality
- third party tested and validated in accordance with HTM 02-01, NFPA 99, ISO 7396-1 and AS 2896
- applications include dental, medical and veterinary



modular design

modular design allows close coupling of filters to simplify installation and maintenance



element design

includes element with stainless steel end caps for compatibility with autoclave sterilization



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united states

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SPECIFICATIONS

| filter model | inlet & outlet ⁽¹⁾ | | rated flow ⁽²⁾ | | dimensions (inches) | | | | | approx. weight | replacement element |
|--------------|-------------------------------|------|---------------------------|------|---------------------|-------|------|-------|------|----------------|---------------------|
| | NPT | scfm | Nm ³ /h | A | B | C | D | E | lbs | | |
| NMS 0015 | ¼" | 15 | 25.5 | 1.93 | 0.71 | 5.47 | 3.00 | 6.18 | 0.7 | E0015 MS | |
| NMS 0025 | ¼" | 25 | 42.5 | 2.76 | 0.98 | 6.65 | 3.00 | 9.29 | 1.3 | E0035 MS | |
| NMS 0035 | ⅜" | 35 | 59.5 | 2.76 | 0.98 | 6.65 | 3.00 | 9.29 | 1.3 | E0035 MS | |
| NMS 0050 | ½" | 50 | 85 | 2.76 | 0.98 | 8.31 | 3.00 | 10.93 | 1.5 | E0050 MS | |
| NMS 0070 | ½" | 70 | 119 | 3.94 | 1.34 | 9.69 | 3.00 | 13.82 | 3.5 | E0085 MS | |
| NMS 0085 | ¾" | 85 | 144 | 3.94 | 1.34 | 9.69 | 3.00 | 13.82 | 3.5 | E0085 MS | |
| NMS 0175 | 1" | 175 | 297 | 3.94 | 1.34 | 14.41 | 3.00 | 18.55 | 4.4 | E0175 MS | |
| NMS 0280 | 1 ¼" | 280 | 476 | 4.80 | 1.65 | 16.50 | 3.00 | 20.97 | 6.2 | E0325 MS | |
| NMS 0325 | 1 ½" | 325 | 550 | 4.80 | 1.65 | 16.50 | 3.00 | 20.97 | 6.2 | E0325 MS | |
| NMS 0400 | 1 ½" | 400 | 680 | 5.75 | 2.05 | 17.01 | 3.00 | 20.97 | 9.2 | E0450 MS | |
| NMS 0450 | 2" | 450 | 765 | 5.75 | 2.05 | 17.01 | 3.00 | 21.85 | 9.2 | E0450 MS | |
| NMS 0700 | 2" | 700 | 1190 | 5.75 | 2.05 | 29.06 | 3.00 | 33.91 | 13.9 | E0700 MS | |
| NMS 0850 | 2 ½" | 850 | 1445 | 8.27 | 2.64 | 20.94 | 3.00 | 26.38 | 18.7 | E1000 MS | |
| NMS 1000 | 3" | 1000 | 1700 | 8.27 | 2.64 | 20.94 | 3.00 | 26.38 | 18.7 | E1000 MS | |
| NMS 1250 | 3" | 1250 | 2125 | 8.27 | 2.64 | 29.53 | 3.00 | 34.96 | 23.1 | E1250 MS | |
| NMS 1500 | 3" | 1500 | 2550 | 8.27 | 2.64 | 35.75 | 3.00 | 41.18 | 26.4 | E1500 MS | |

| specifications | NMS 0015 | NMS 0025 to NMS 0050 | NMS 0070 to NMS 1500 |
|---|---|----------------------|----------------------|
| design operating pressure range | 0 to 232 psig | 0 to 232 psig | 0 to 232 psig |
| condensate drain (included) | MDV 25 | MDV 25 | MDV 50 |
| differential pressure indicator / gauge | - | NDP 50 | NDP 1500 |
| filter housing material | cast aluminum with E-Coat™ & powder top coat finish | | |

| element performance | |
|--|------------------------|
| DOP efficiency ⁽³⁾ | >99.9999% |
| particle removal | 0.01 micron |
| recommended operating temperature range | 35 to 212°F |
| design operating temperature range | 35 to 248°F |
| maximum autoclave temperature ⁽⁴⁾ | 273°F |
| pressure drop - clean | 1.5 psid |
| pressure drop - recommended replacement | 6.0 psid |
| end cap material | stainless steel |
| flow direction through element | outside to inside |
| maximum steam sterilization cycles | 100 |
| maximum element life | 6 months or 1000 hours |

| pressure correction factors | | | | | | | | | | |
|-----------------------------|------|------|------|------|------|------|------|------|------|--|
| operating pressure (psig) | 58 | 72 | 87 | 100 | 115 | 145 | 174 | 203 | 232 | |
| correction factor | 0.76 | 0.84 | 0.92 | 1.00 | 1.07 | 1.19 | 1.31 | 1.41 | 1.51 | |

- (1) inlet and outlet connections are NPT threaded to ANSI B2.1
- (2) at 100 psig. For all other pressures, refer to the pressure correction factor table above
- (3) as specified in HTM 02-01 medical gas pipeline systems
- (4) applies to the element only
- (5) technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182

