

NMS 0450

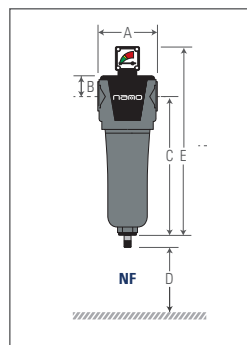
450 scfm medical sterile filter

nano F1 medical sterile filters are specifically designed and manufactured to exceed the requirements for medical gas pipeline systems. Applications include: dental, medical and veterinary.



general characteristics	
rated flow (scfm) ⁽¹⁾	450
operating limits	
design operating pressure range (psig)	0 to 232
design operating temperature range (°F)	35 to 176
housing construction	
materials	pressure die cast aluminum
finish	E-Coat™ surface treatment (internal & external) powder paint (external)
element construction	
media	borosilicate glass microfiber with Nomex® protective wrap
end caps	303 stainless steel
replacement element (part no)	E 0450 MS
components	
condensate drain	MDV 50 as standard
differential pressure indicator / gauge	NDP 1500 as standard
air circuit	
inlet & outlet connections (NPT) ⁽²⁾	2"

dimensions and weights	
A (ins)	5.75
B (ins)	2.05
C (ins)	17.01
D (ins)	3.00
E (ins)	21.85
weight (lbs)	9.2



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
flow direction through element	outside to inside
maximum steam sterilization cycles	100
maximum element life	6 months or 1000 hours

nano-purification solutions
charlotte, north carolina
united states

nano-purification solutions
new bethlehem, pennsylvania
united states

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F1: compressed air & gas filtration

- (1) at 100 psig. For all other pressures, contact support@n-psi.com
- (2) inlet and outlet connections are NPT threaded to ANSI B2.1
- (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

features

housing features

- third party tested and validated in accordance with HTM 02-01, NFPA 99, ISO 7396-1 and AS 2896
- includes element with stainless steel end caps for compatibility with autoclave sterilization
- designed in accordance with ASME pressure vessel standards
- carries CRN (Canadian Registration Numbers) for approved use in every province of Canada
- "dead stop" bowl feature provides full closure without overtightening
- optimized piston seal ensures zero leakage and ease of bowl removal during element replacement
- no tie rod simplifies element change out and reduces access requirements for bowl removal
- comprehensive range of filter mounting accessories
- 10 year housing warranty

accessories



connecting kits

description	fits	part number
NMS connecting kit	NMS 0450	NCK 0700



wall mounting kits

description	fits	part number
NMS wall mounting kit	NMS 0450	NMK 0700