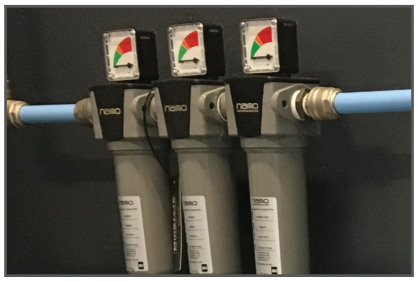
medical sterile filters

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
- 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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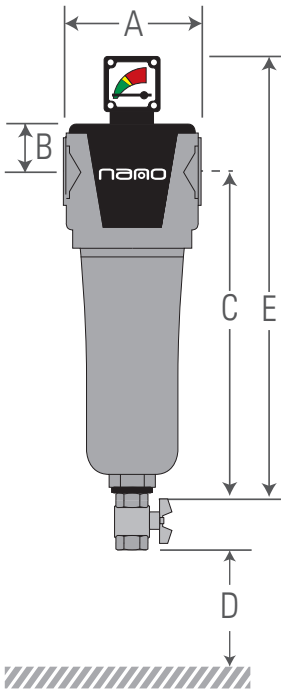
SPECIFICATIONS

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

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