medical sterile filters

16 models specifically designed and manufactured to exceed the requirements for medical gas pipeline systems

The nano F¹ range of medical sterile filters are manufactured from cast aluminum alloy providing enhanced strength and feature an E-Coat[™] finish for optimum corrosion protection.

This range encompasses 16 filters with connections from 1/4" to 3" BSPP and rated flows from 25 to 2550 m³/h. The modular design allows close coupling of filters to simplify installation and maintenance.

This unique design includes elements with stainless steel end caps for compatibility with autoclave sterilization. Each element is 100% integrity tested and provided with an Air Sterilization Certificate to guarantee the highest downstream air quality.

100% integrity tested elements

Tested and validated to international standards, elements are guaranteed for a minimum of 100 sterilization cycles at 120°C.



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specifications	NMS 0015	NMS 0025 to 0050	NMS 0070 to 1500				
design operating pressure range (barg)	0 to 16	0 to 16	0 to 16				
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	MS
DOP efficiency (3)	>99.9999%
particle removal	0.01 micron
recommended operating temperature range	1.5 to 100°C
design operating temperature range	1.5 to 120°C
maximum autoclave temperature (4)	134°C
pressure drop - clean	100 mbar
pressure drop - recommended replacement	400 mbar
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

(1) inlet and outlet connections are BSPP threaded.

(3) as specified in HTM 02-01 medical gas pipeline systems

at 7 barg. For all other pressures, refer to the pressure correction factor table above

(4) applies to the element only





Experience. Customer. Service.



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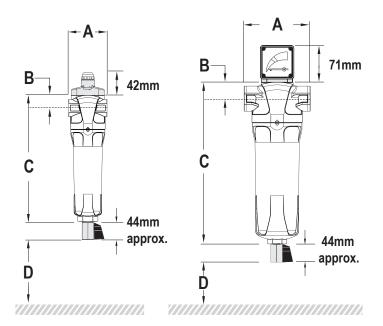
technical specifications

filter model <u></u>	inlet & outlet (1)				dimensions (mm)					replacement element
	BSPP	scfm	Nm³/h	A	В	C	D	E	kg	part no.
GMSB 0006	1/8"	6	10	50	17	157	28	60	0.31	GEN 0006 MS
GMSB 0015	1/4"	15	25.5	50	17	157	28	60	0.31	GEN 0015 MS
GMSB 0025	3/8"	25	42.5	70	24	231	28	70	0.58	GEN 0025 MS
GMSB 0032	1/2"	32	59.5	70	24	231	28	70	0.58	GEN 0032 MS
GMSB 0050	1/2"	50	85	70	24	231	28	70	0.68	GEN 0050 MS
GMSB 0070	1/2"	70	119	127	32	285	42	80	1.58	GEN 0070 MS
GMSB 0085	3/4"	85	144	127	32	285	42	80	1.58	GEN 0085 MS
GMSB 0105	1"	105	178	127	32	285	42	80	1.58	GEN 0105 MS
GMSB 0125	1"	125	212	127	32	371	42	80	1.99	GEN 0125 MS
GMSB 0175	1"	175	297	127	32	371	42	80	1.99	GEN 0175 MS
GMSB 0280	1 1/4"	280	476	140	40	475	42	80	2.81	GEN 0280 MS
GMSB 0325	1 ½"	325	550	140	40	475	42	80	2.81	GEN 0325 MS
GMSB 0450	2"	450	765	170	53	508	42	100	4.17	GEN 0450 MS
GMSB 0700	2"	700	1190	170	53	708	42	100	6.30	GEN 0700 MS
GMSB 0850	2 ½"	850	1445	220	70	736	42	100	8.48	GEN 0850 MS
GMSB 0900	3"	0900	1530	220	70	736	42	100	8.48	GEN 0900 MS
GMSB 1250	3"	1250	2125	220	70	857	42	100	10.47	GEN 1250 MS
GMSB 1500	3"	1500	2550	220	70	1005	42	100	11.97	GEN 1500 MS

pressure correction factors									
operating pressure (barg)	4	5	6	7	8	10	12	14	16
correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51

 $^{(1) \}quad \text{at 7 barg. For all other pressures, refer to the pressure correction factors above} \\$

⁽⁵⁾ technical specifications subject to change without notice. Direct inquiries to sales@n-psi.co.uk





⁽²⁾ for pressures below 1.5 barg order with an GMSB 0050 condensate drain

⁽³⁾ When high liquid loads are anticipated we recommend installing a high capacity external manual drain. Contact sales@n-psi.co.uk for available options

⁽⁴⁾ per ISO 8573.1:2010