

medical vacuum filters

features

- designed to protect vacuum pumps from both solid and liquid contamination
- 15 models with connections from 3/8" to 3" BSPP and rated flows from 7 to 490 Nm³/h
- modular design allows close coupling of filters to simplify installation and maintenance
- housing manufactured from cast aluminum alloy providing enhanced strength and feature an E-Coat™ finish for optimum corrosion protection
- minimises pressure drop for optimum energy efficiency
- applications include, laboratories, dental and medical.



proprietary media technology

oleophobic borosilicate glass microfiber media provides exceptional dirt holding and drainage capabilities with a low dP



accessories

manual valve as standard and drain flask available as option



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technical specifications

filter model	inlet & outlet ⁽¹⁾		exhaust flow rate (vacuum displacement) ⁽²⁾		dimensions (mm)					approx. weight	replacement element
	BSP	scfm	Nm ³ /h	A	B	C	D	E	kg		
GMVB 0032	3/8"	4.1	7	70	24	231	28	70	0.5	GEN 0032 (grade)	
GMVB 0050	1/2"	6.5	11	70	24	231	28	70	0.5	GEN 0050 (grade)	
GMVB 0070	1/2"	11.8	20	127	32	285	42	80	1.58	GEN 0105 (grade)	
GMVB 0085	3/4"	14.7	25	127	32	285	42	80	1.58	GEN 0105 (grade)	
GMVB 0105	1"	105	178	127	32	285	42	80	1.7	GEN 0105 (Grade)	
GMVB 0125	1"	20.6	35	127	32	371	42	80	1.99	GEN 0175 (grade)	
GMVB 0175	1"	29.4	50	127	32	371	42	80	1.99	GEN 0175 (grade)	
GMVB 0280	1 1/4"	44.1	75	140	40	475	42	80	2.81	GEN 0325 (grade)	
GMVB 0325	1 1/2"	50	85	140	40	475	42	80	2.81	GEN 0325 (grade)	
GMVB 0450	2"	67.5	115	170	53	508	42	100	4.17	GEN 0450 (grade)	
GMVB 0700	2"	106	180	170	53	708	42	100	6.30	GEN 0700 (grade)	
GMVB 0850	2 1/2"	118	200	220	70	736	42	100	8.48	GEN 0900 (grade)	
GMVB 0900	3"	138	235	220	70	736	42	100	8.48	GEN 0900 (grade)	
GMVB 1250	3"	212	360	220	70	857	42	100	10.47	GEN 1250 (grade)	
GMVB 1500	3"	288	490	220	70	1005	42	100	11.97	GEN 1500 (grade)	

specifications	GMVB 0032 to 0050	GMVB 0070 to 1500
vacuum indicator/gauge	NDV 50	NDV 1500
design operating pressure range	full vacuum to 0.5 barg	
condensate drain (included) ⁽³⁾	manual valve	
filter housing material	cast aluminum with E-Coat™ & powder top coat finish	

element performance	MV
DOP particle removal efficiency	>99.995%
pressure drop - clean	30 mbar
pressure drop - recommended replacement	100 mbar
recommended operating temperature range	2-60°C
design operating temperature range	2-60°C
flow direction through element	outside to inside
maximum element life	12 months or 1000 hours

pressure correction factors										
operating pressure (psia)	14.7	13.0	11.6	10.2	8.7	7.3	5.8	3.3	2.9	
operating pressure (inch Hg)	29.9	26.6	23.6	20.7	17.7	14.8	11.8	8.9	5.9	
operating pressure (mbar abs)	atm	900	800	700	600	500	400	300	200	
operating pressure (Torr)	760	675	600	525	450	375	300	225	150	
correction factor	1.00	0.93	0.86	0.79	0.71	0.64	0.57	0.50	0.43	

- (1) inlet and outlet connections are BSP threaded to ISO 7/1
- (2) free air conditions when operating at atmospheric pressure. For vacuums refer to the vacuum correction factor table above
- (3) models GMVB 0070 to GMVB 1500 can be adapted to use 1/4" drains with a reducer. Drain flasks are available for liquid collection for vacuum (or atmospheric pressure) applications only
- (4) technical specifications subject to change without notice. Direct inquiries to sales@n-psi.co.uk

