

MEDICAL

Medical Sterile Filters

2020 Models | A30015MS to A31500MS 2017 Models | A3021MS to A3303MS

Flow Rates 15 SCFM (25 Nm³/hr) to 1500 SCFM (2550 Nm³/hr)

When it comes to patient care, quality and reliability of compressed air is paramount. Walker Filtration's range of Alpha Medical Sterile Filters guarantees reliable and outstanding air purity that meets internationally certified medical performance levels.

100% integrity tested, Alpha Medical Sterile elements are guaranteed for a minimum of 100 sterilisations at 120°C (248°F), ensuring your compressed air is free from live bacteria and other submicron particles.



Stainless Steel End Caps
Specially designed for autoclave
sterilisation compatibility



100% Integrity Tested
Each element is supplied with
an Air Sterilisation Certificate to
guarantee the highest quality to
our customers



Product Safety in Mind
Lock indication arrows assure
effective sealing

- International Validation Designed to exceed the requirements of HTM 02-01 medical gas pipeline systems
- **Simplified Serviceability** Ribbed bowl design and unique push fit elements ensure quick and reliable maintenance
- Product Safety in Mind Guaranteed safe housing closure with rotational safety stop
- Corrosion Protection Internal and external electrophoretic paint finish followed by a tough polyester powder coating
- Flexible Installation Modular design and accessible fixings enable simple close coupling assembly
- Robust and Sterilisable Materials Manufactured from cast aluminium alloy for enhanced strength and protection









Designed to exceed the requirements of UK Health Technical Memorandum, HTM 02-01





Technical Specification

Filter model (2017)	Filter model (2020)	Pipe size inches	Inlet flow rate*		Dimensions mm				Mainlet Ko	Flowent model	
			Nm³/hr	SCFM	Α	В	С	D	Weight Kg	Element model	
A3021MS	A30015MS	1/4	25	15	50	17	157	60	0.3	E30306SR	
A3022MS	A30025MS	1/4	42	25	70	23	231	70	0.6	E30408SR	
A3031MS	A30032MS	3/8	54	32	70	23	231	70	0.6	E30408SR	
A3051MS	A30050MS	1/2	85	50	70	23	231	70	0.6	E30412SR	
A3052MS	A30070MS	1/2	119	70	127	32	285	80	1.7	E30612SR	
A3071MS	A30085MS	3/4	144	85	127	32	285	80	1.7	E30612SR	
A3102MS	A30175MS	1	297	175	127	32	370	80	2.0	E30621SR	
A3122MS	A30280MS	11/4	476	280	140	41	476	85	3.0	E30731SR	
N/A	A30320MS	11/2	544	320	140	41	476	85	3.0	E30731SR	
A3151MS	A30400MS	11/2	680	400	170	53	508	100	4.9	E30831SR	
A3201MS	A30450MS	2	765	450	170	53	508	100	4.9	E30831SR	
A3202MS	A30700MS	2	1189	700	170	53	708	100	5.5	E30850SR	
A3251MS	A30850MS	21/2	1444	850	220	70	736	100	10.5	E31140SR	
A3301MS	A30900MS	3	1529	900	220	70	736	100	10.5	E31140SR	
A3302MS	A31250MS	3	2125	1250	220	70	857	100	11.5	E31160SR	
A3303MS	A31500MS	3	2550	1500	220	70	1005	100	12.5	E31175SR	

^{*} Rated flow at 7 barg, reference conditions 1 bar (a) 20°C

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Grade	SR						
DOP efficiency**	>99.9	9999%					
Particle removal	0.01 r	nicron					
Maximum operating temperature	120°C	248°F					
Recommended operating temperature	50°C	122°F					
Maximum autoclave temperature	134°C	273°F					
Pressure Loss - clean & dry	100 mbar	1.5 psi					
Maximum working pressure	20.7 barg	300 psig					
Element end cap material	Stainless steel						

** As specified in HTM 02-01 medical gas pipeline systems

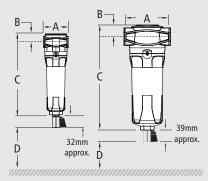
Pressure correction factors	For maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure									
Operating pressure barg (psig)	4 (58)	5 (72)	6 (87)	7 (100)	8 (115)	10 (145)	12 (174)	14 (203)	16 (232)	20.7 (300)
7 barg – correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51	1.73

0mm 71mm





65DP



A30025MS to A30050MS

A30070MS to A31500MS

Technical Notes

- Filter element end caps are stainless steel.
- Direction of air flow is outside to in through the filter element.
- Pop up indicators (65DPUG3) are fitted to models A30025MS to A30050MS as standard. Differential pressure indicators (65DPIG) are fitted to models A30070MS to A31500MS as standard.
- Manual drain valves (MDV25 on models A30015MS to A30050MS and MDVE25 on models A30070MS to A31500MS) are fitted as standard.
- 5. Medical Sterile Filter elements must not operate in water or oil saturated conditions.
- Maximum steam sterilising autoclave temperature refers to the filter element ONLY. Grade SR filter elements can be steam sterilised 100 times. Each element must be autoclaved before commencement of duty.
- Pre-filtration should be used in conjunction with 0.01 micron sterile filters.
- 8. Threaded filters are manufactured from cast aluminium alloy and are PED 2014/68/EU compliant for group 2 gases.
- 9. Standard threaded connections are Rp (BSP Parallel) to ISO 7-1 or NPT to ANSI/ASME B1.20.1 if supplied within North America. Rc (BSP Taper) to ISO 7-1 also available see price guide.
- 10. For NPT threads, add the suffix N, e.g., A30070NMS, and for Rc threads add the suffix C, e.g. A30070CMS see price guide.
- 11. Filter elements should be changed at least every 6 months.
- Filters are suitable for use in dry air conditions only, as any liquids passings through the filter could carry bacteria and compromise sterility.









