

# Medical Sterile Filters

Models | A3021MS to A3303MS

Flow Rates 15 SCFM (25 Nm<sup>3</sup>/hr) to 1500 SCFM (2550 Nm<sup>3</sup>/hr)

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

100% integrity tested, New 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.



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



**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





# Technical Specification

Filter model	Pipe size inches	Inlet flow rate*		Dimensions mm				Weight Kg	Element model
		Nm <sup>3</sup> /hr	SCFM	A	B	C	D		
A3021MS	1/4	25	15	50	17	157	60	0.45	E30306SR
A3022MS	1/4	42	25	70	24	231	70	0.8	E30408SR
A3031MS	3/8	54	32	70	24	231	70	0.8	E30408SR
A3051MS	1/2	85	50	70	24	231	70	0.8	E30412SR
A3052MS	1/2	119	70	127	32	285	80	2.1	E30612SR
A3071MS	3/4	144	85	127	32	285	80	2.1	E30612SR
A3102MS	1	297	175	127	32	371	80	2.4	E30621SR
A3122MS	1 1/4	476	280	170	53	508	100	5.4	E30831SR
A3151MS	1 1/2	680	400	170	53	508	100	5.6	E30831SR
A3201MS	2	765	450	170	53	508	100	5.6	E30831SR
A3202MS	2	1189	700	170	53	708	100	6.2	E30850SR
A3251MS	2 1/2	1444	850	220	70	736	100	11.6	E31140SR
A3301MS	3	1529	900	220	70	736	100	11.6	E31140SR
A3302MS	3	2125	1250	220	70	857	100	12.6	E31160SR
A3303MS	3	2550	1500	220	70	1005	100	13.6	E31175SR

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

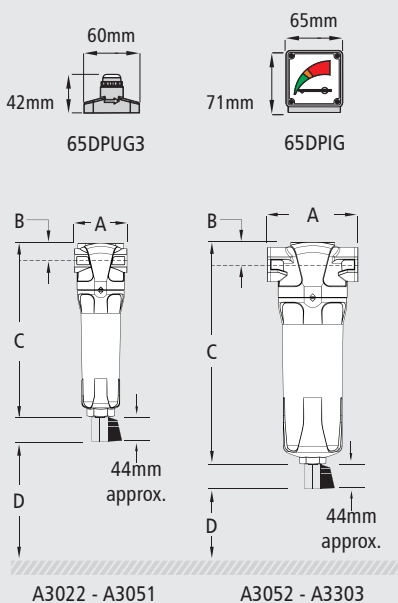
Grade	SR	
DOP efficiency**	>99.9999%	
Particle removal	0.01 micron	
Maximum operating temperature	120°C	248°F
Recommended operating temperature	50°C	122°F
Maximum autoclave temperature	134°C	273°F
Pressure Loss - clean & dry	100 mbar	1.5 psi
Maximum working pressure	20.7 barg	300 psig
Element end cap 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)
7 barg – correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51	1.6

## 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 A3022 to A3051 as standard. Differential pressure indicators (65DPIG) are fitted to models A3052 to A3303 as standard.
- Manual drain valves (MDV25 on models A3021MS to 3051MS and MDV25 on models A3052MS to A3303MS) are fitted as standard.
- 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.
- Threaded filters are manufactured from cast aluminium alloy and are PED 2014/68/EU compliant for group 2 gases.
- 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.
- For NPT threads, add the suffix N, e.g., A3052NMS, and for Rc threads add the suffix C, e.g. A3052CMS - see price guide.
- Filter elements should be changed at least every 6 months.
- Filters are suitable for use in dry air conditions only, as any liquids passing through the filter could carry bacteria and compromise sterility.



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