WALKER FILTRATION

SILICONE FREE

Silicone Free Dust Filters

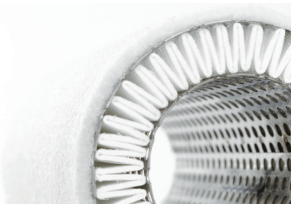
Models | SF0006 to SF1500

Flow Rates 6 SCFM (10 Nm³/hr) to 1500 SCFM (2550 Nm³/hr)

Our new Silicone Free Dust Filters combine market leading Alpha filtration performance with a silicone-free manufacturing process to protect your manufacturing equipment from dust carryover and silicone contamination.

Ideally suited for applications such as paint spraying and automotive industry, where silicone-free air prevents costly downtime and product spoilage, our Silicone Free Filters deliver significantly reduced pressure loss and particle removal down to 0.01 micron in line with air quality standard ISO 8573-1: 2010.

Available in a range of connection sizes from 1/8” to 3” NPT, BSP Parallel and BSP Tapered threaded connections, these filters are suitable for worldwide installation.



Filtration Technology
Alpha deep pleated media technology delivers a step change in performance

Silicone-Free Manufacturing
Introduce filtration manufactured in a controlled environment to ensure silicone is not present or introduced during the production process

Improve Operational Efficiencies
Deliver improved production and operational efficiencies in your industrial paint plant with market leading silicone-free filtration technology

- **Market Leading Performance** Custom engineered filtration media delivers optimum performance in line with air quality standard ISO 8573-1: 2010
- **Improved Operational Efficiencies** Deliver improved production and operational efficiencies in your industrial paint plant with market leading silicone-free filtration technology
- **Simplified Serviceability** Externally accessible drain, profiled bowl design and unique push fit elements ensure quick and reliable maintenance
- **Flow-Optimized Design** Advanced filter head design for optimized flow performance
- **Flexible Installation** Modular design and accessible fixings enable simple close coupling assembly
- **Corrosion Protection** Internal and external electrophoretic paint finish followed by a tough exterior polyester powder coating
- **Product Safety in Mind** Guaranteed safe housing closure with rotational safety stop

Silicone-free removal of oil aerosol and dust contaminants

For further information please visit www.walkerfiltration.com

Technical Specification

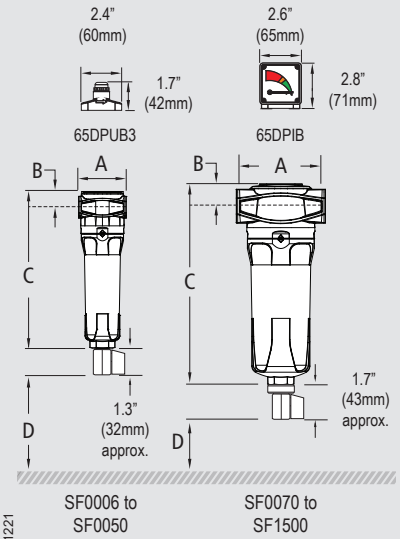
Filter model	Pipe size inches	Inlet flow rate*		Dimensions inches (mm)				Weight lbs	Weight kg	Element model
		SCFM	Nm/hr	A	B	C	D			
SF0006 (grade)	1/8	6	10	1.97 (50)	0.67 (17)	6.18 (157)	2.36 (60)	0.6	0.3	ESF0306
SF0015 (grade)	¼	15	25	1.97 (50)	0.67 (17)	6.18 (157)	2.36 (60)	0.6	0.3	ESF0306
SF0025 (grade)	¼	25	42	2.76 (70)	0.91 (23)	9.09 (231)	2.76 (70)	1.3	0.6	ESF0408
SF0032 (grade)	3/8	32	54	2.76 (70)	0.91 (23)	9.09 (231)	2.76 (70)	1.3	0.6	ESF0408
SF0050 (grade)	½	50	85	2.76 (70)	0.91 (23)	9.09 (231)	2.76 (70)	1.3	0.6	ESF0412
SF0070 (grade)	½	70	119	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7	ESF0612
SF0085 (grade)	¾	85	144	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7	ESF0612
SF0105 (grade)	1	105	178	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7	ESF0612
SF0125 (grade)	¾	125	212	5.00 (127)	1.26 (32)	14.57 (370)	3.15 (80)	4.4	2.0	ESF0621
SF0175 (grade)	1	175	297	5.00 (127)	1.26 (32)	14.57 (370)	3.15 (80)	4.4	2.0	ESF0621
SF0280 (grade)	1¼	280	476	5.51 (140)	1.61 (41)	18.74 (476)	3.35 (85)	6.6	3.0	ESF0731
SF0320 (grade)	1½	320	544	5.51 (140)	1.61 (41)	18.74 (476)	3.35 (85)	6.6	3.0	ESF0731
SF0400 (grade)	1½	400	680	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9	ESF0831
SF0450 (grade)	2	450	765	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9	ESF0831
SF0700 (grade)	2	700	1189	6.69 (170)	2.08 (53)	27.87 (708)	3.94 (100)	12.1	5.5	ESF0850
SF0850 (grade)	2½	850	1444	8.66 (220)	2.75 (70)	28.98 (736)	3.94 (100)	23.1	10.5	ESF1140
SF0900 (grade)	3	900	1529	8.66 (220)	2.75 (70)	28.98 (736)	3.94 (100)	23.1	10.5	ESF1140
SF1250 (grade)	3	1250	2125	8.66 (220)	2.75 (70)	33.74 (857)	3.94 (100)	25.4	11.5	ESF1160
SF1500 (grade)	3	1500	2550	8.66 (220)	2.75 (70)	39.57 (1005)	3.94 (100)	27.6	12.5	ESF1175

* Rated flow at 100 psig (7 barg), reference conditions at 14.7 psi(a) (1.014 bar(a)), 68°F (20°C)

Grade	RX5		RX1		RXA		RAC	
Particle removal	5 micron		1 micron		0.01 micron		0.01 micron	
Maximum particle size class**	4		3		1		1	
Maximum oil carryover at 68°F (20°C)	-		-		-		0.003 ppm	0.003 mg/m³
Pressure loss - clean & dry	0.6 psi	40 mbar	1.1 psi	75 mbar	1.5 psi	100 mbar	1.1 psi	75 mbar
Pressure loss - element change	12 mths	8000 hrs	12 mths	8000 hrs	12 mths	8000 hrs	at least every 6 mths	
Maximum temperature	248°F	120°C	248°F	120°C	248°F	120°C	122°F***	50°C***
Maximum working pressure	300 psig	20.7 barg	300 psig	20.7 barg	300 psig	20.7 barg	300 psig	20.7 barg
Element end cap color	Black							

** to ISO 8573-1:2010 *** Maximum recommended operating temperature 77ºF (25ºC)

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



Technical Notes

1. Direction of air flow is outside to in through the filter element.
2. Pop Up Indicator (65DPUB3) is fitted to models SF0025 to SF0050 as standard. Differential Pressure Indicator (65DPIB) is fitted to models SF0070 to SF1500 as standard. Activated Carbon (AC) grade filters do not include DP equipment. Volt free contact options are available upon request.
3. Manual Drain Valves (SFMDV25 on models SF0006 to SF0050 and SFMDVE25 on models SF0070 to SF1500), are fitted as standard.
4. Activated Carbon Filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide (CO) and carbon dioxide (CO_2).
5. Alpha Filters are manufactured from cast aluminum alloy and are PED 2014/68/EU compliant for group 2 gases.
6. Standard threaded connections are NPT to ANSI/ASME B1.20.1. RP (BSP Parallel) to ISO 7-1 and RC (BSP Taper) to ISO 7-1 are also available upon request.
7. Filters are suitable for use with mineral and synthetic oils plus oil-free compressed air applications.
8. Filter elements should be changed every 12 months / 8000 hours (whichever comes first). Activated Carbon Filter elements should be changed at least every 6 months.
9. These filters are manufactured and tested in a controlled environment to ensure that traces of silicone or paint wetting impairment substances (PWIS) are not present on the components used, or unintentionally introduced during the production process. While the product itself does not contain significant traces of such substances, they are not designed to remove pre-existing silicone contaminants from the air stream.

CRN

ISO 9001

MEMBER OF CAGI Compressed Air & Gas Institute

bcas BRITISH COMPRESSED AIR SOCIETY LIMITED

THE QUEEN'S AWARDS FOR ENTERPRISE: INNOVATION 2016

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