



Respiratory Filters

[Reliable Protection against Gases and Particles]

[Application]

Respiratory filters protect against numerous known contaminants which, if inhaled, can be harmful to health: toxic gases, vapors or particles, as well as many combinations with immediate or delayed harmful effects.

[Reliable Storage]

For factory sealed and properly stored gas and combined filters the following storage lives can be expected:

- Filters type A, AX, B, E, K, Hg, Reactor: 6 years
- Filters type CO, NO: 4 years

The expiration date is marked on the individual filters. Gas and combined filters that have been opened must be replaced after 6 months at the latest or earlier if they are exhausted. The storage life of MSA particle filters is unlimited, provided they are stored properly.

[Service Time]

The service time of respiratory filters depends on the conditions of use. For gas or combined filters that are used against gases the end of service time usually can be detected by odor, taste or irritation during inhalation. Some filters have a specified maximum service time [CO filter cartridges, combined filters 89 Hg/St] or they have an incorporated warning system [CO filter canisters]. For particle filters or combined filters that are used against particles the end

of service time can be detected by an increase in inhalation resistance. With combined filters – depending on the predominant protective function – both criteria must be observed. Particle filters must only be used once against radioactive contaminants, spores, bacteria, virus and proteolytic enzymes.

[Limitations of use]

Please note: respiratory filters may be used everywhere except under certain conditions, e.g. in containers and confined spaces, bunkers, tanks and in unpredictable situations.

Principally, the following conditions must be known:

- Type, properties and composition of contaminant.
- The oxygen content of the inhalation air must be sufficient [in Germany, 17 vol.-% is specified].
- When using particle filters, gaseous contaminants shall not be present. When using gas filters, particle contaminants shall not be present. In case of doubt, a combined filter must be used.

- In Germany, when using gas or combined filters of filter class 2, the concentration of the gaseous contaminant shall not exceed 5.000 ml/m³ [= 0.5 vol.-%], with filters of filter class 1; 1.000 ml/m³ [= 0.1 vol.-%]. The limits may be exceeded by double for brief periods of time.

- When using particle or combined filters, the maximum allowed concentrations for particles must be observed.

If any of the above conditions is not met or is in doubt, filtering devices may not be used and respiratory protective equipment independent of the ambient air is required.



Particle Filter 999



Combined Filter 89 B/St



Prefilter for Filter Cartridge



Particle Filter

High Performance and Robust:

	Description	Part No.	No. per Pack	Standardization acc. to DIN/EN
Mechanical Filter	Prefilter for Half Masks	D1008702	30	–
	Prefilter for Half Masks	D1008703	30	–
	Prefilter for Filter Cartridge	D1070754	12	flame-resistant
Particle Filter	Particle Filter 777	D1025707	10	P2
	Particle Filter 791	D1025713	10	P2
	Particle Filter 793	D1025727	10	P3
	Particle Filter 718	D1025716	10	P3
	Particle Filter 999	D1010700	1	P3
Gas Filter	Gas Filter 2655 ABE	D1081758	4	A1, B1, E1
	Gas Filter 2690 A	D1081791	5	A1
	Gas Filter 2690 B	D1081792	5	B1
	Gas Filter 2690 E	D1081793	5	E1
	Gas Filter 2690 K	D1081794	5	K1
	Gas Filter 87 A	D1040000	1	A2
	Gas Filter 87 B	D1041000	1	A2, B2
	Gas Filter 87 E	D1042000	1	E2
	Gas Filter 87 K	D1045000	1	K2
	Gas Filter 87 ABEK	D1040713	1	A2, B2, E2, K1
	Gas Filter 87 AX	D1051000	1	AX, A2
	Gas Filter 87 ABEK2	D1051700	1	A2, B2, E2, K2
	CO Filter Canister Berlin	D1098000	1	CO
	Combined Filter	Combined Filter 2689 ABE/St	D1077700	1
Combined Filter 88 A/St		D1061000	1	A2-P2
Combined Filter 88 B/St		D1062000	1	A2, B2-P2
Combined Filter 88 ABEK/St		D1061702	1	A2, B2, E2, K1-P2
Combined Filter 88 ABEK2/St		D1061703	1	A2, B2, E2, K2-P2
Combined Filter 89 A/St		D1106000	1	A2-P3
Combined Filter 89 AX/St		D1070708	1	AX-P3
Combined Filter 89 B/St		D1070000	1	A2, B2-P3
Combined Filter 89 K/St		D1112000	1	K2-P3
Combined Filter 89 ABEK-Hg/St		D1070705	1	A2, B2, E2, K1, Hg-P3
Combined Filter 89 ABEK2-Hg/St		D1070707	1	A2, B2, E2, K2, Hg-P3
Combined Filter F 89 ABEK2-Hg/St		D1070710	1	A2, B2, E2, K2, Hg-P3
Special Filter		Combined Filter 89 Hg/St	D1071000	1
	Combined Filter 89 NO-CO/St	D1018905	1	NO-P3
	Combined Filter F 89 ABEK-CO-NO-Hg/St	D1018702	1	A1, B2, E2, K1, CO, NO, Hg-P3
	Combined Filter 89 Reactor/St	D1070701	1	Reactor P3
	Combined Filter 89 Reactor B/St	D1070704	1	B2, Reactor P3
	Combined Filter F 89 Reactor B/St	D1070714	1	B2, Reactor P3
	Combined Filter 580 CO/St	D1094920	1	CO-P3
Combined Filter 89 ABEK-CO-NO-Hg/St	D1018700	1	A1, B2, E2, K1, CO, NO, Hg-P3	

* Filter has connector M 45 x 3 [according to EN 148-3]

Respiratory Filters from MSA



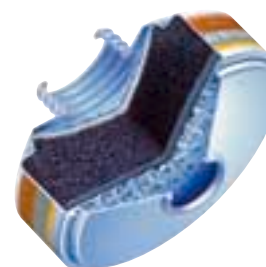
Gas Filter 87B



Combined Filter 89 ABEK2-Hg/St



Assembled Prefilter



Gas Filter



Combined Filter

Weight [approx.]	Dimensions [approx.] Ø/height in mm	Facepiece resp. Filter receptacle	
3 g	–	Half Masks Trilix, Half Masks 264, F.r.**: 910, 920, 930, 940	Mechanical Filter
3 g	–	Half Masks Trilix, Half Masks 264, F.r.**: 910, 920, 930, 940	
3 g	107/35	P-Filter 999, series 88 and 89	
5 g	–	Half Masks 264, Filter receptacle: 910	Particle Filter
12 g	–	Half Masks Trilix, F.r.**: 920, 930, 940	
12 g	–	Half Masks Trilix, F.r.**: 920, 930, 940	
12 g	–	Half Masks 264, F.r.**: 910	
80 g	110/56	Full Face Masks EN 148-1, Half Masks 380	Gas Filter
130 g	86/36	Half Masks 264	
105 g	96/32	Half Masks Trilix, F.r.**: 920, 930, 940	
125 g	96/32	Half Masks Trilix, F.r.**: 920, 930, 940	
135 g	96/32	Half Masks Trilix, F.r.**: 920, 930, 940	
140 g	96/32	Half Masks Trilix, F.r.**: 920, 930, 940	
180 g	107/70	Full Face Masks EN 148-1, Half Masks 380	
210 g	107/70	Full Face Masks EN 148-1, Half Masks 380	
260 g	107/70	Full Face Masks EN 148-1, Half Masks 380	
260 g	107/70	Full Face Masks EN 148-1, Half Masks 380	
260 g	107/70	Full Face Masks EN 148-1, Half Masks 380	
260 g	107/80	Full Face Masks EN 148-1, Half Masks 380	
340 g	107/77	Full Face Masks EN 148-1	
1700 g	oval 145 x 75 x 275	Full Face Masks with breathing tube and carrier	
180 g	107/65	Half Masks 264, EN 148-1	
250 g	107/90	Full Face Masks EN 148-1, Half Masks 380	
290 g	107/90	Full Face Masks EN 148-1, Half Masks 380	
300 g	107/90	Full Face Masks EN 148-1, Half Masks 380	
370 g	107/95	Full Face Masks EN 148-1	
250 g	107/90	Full Face Masks EN 148-1, Half Masks 380	
300 g	107/90	Full Face Masks EN 148-1, Half Masks 380	
290 g	107/90	Full Face Masks EN 148-1, Half Masks 380	
300 g	107/90	Full Face Masks EN 148-1, Half Masks 380	
300 g	107/90	Full Face Masks EN 148-1, Half Masks 380	
370 g	107/95	Full Face Masks EN 148-1	Special Filter
380 g	107/98	Full Face Masks* 3S-PF, Ultra Elite PF	
255 g	107/90	Full Face Masks EN 148-1, Half Masks 380	
455 g	107/90	Full Face Masks EN 148-1	
460 g	107/96	Full Face Masks* 3S-PF, Ultra Elite PF	
260 g	107/90	Full Face Masks EN 148-1, Half Masks 380	
260 g	107/90	Full Face Masks EN 148-1, Half Masks 380	
270 g	107/90	Full Face Masks* 3S-PF, Ultra Elite PF	
500 g	107/110	Full Face Masks EN 148-1	
450 g	107/96	Full Face Masks EN 148-1	

** Filter receptacle

With MSA You Have the Perfect Fit

[Ordering Information]

- D2262701 Half Mask TRILIX I
- D2262707 Half Mask TRILIX II
- D2167904 Half Mask 380 AS
- D1025910 Filter receptacle 910
- D1025920 Filter receptacle 920
- D1025930 Filter receptacle 930
- D1025940 Filter receptacle 940 [M 45 x 3]
- D1070712 Adapter Rd 40 x 1/7/plug¹⁾
- 10039412 Adapter PS-MaXX²⁾
- D2055000 Full Face Mask 3S
- D2055790 Full Face Mask 3S Basic Plus
- D2056700 Full Face Mask Ultra Elite
- 10027723 Advantage 3121, medium
- 10027724 Advantage 3111, small
- 10027725 Advantage 3131, large
- D5026000 Breathing tube for full face masks

¹⁾ Filter adapter for full face masks with MSA plug-in adapter

²⁾ Filter adapter for full face masks with MaXX-Quick connector



Filter receptacle 920



Filter receptacle 930

[Full Face Mask 3S]

3S is the synonym for safety, sight and styling. With its connector EN 148-1, it can be used with respiratory filters or with breathing apparatus.



[Full Face Mask Ultra Elite]

The full face mask with the specially large field of vision, comfortable and secure fit. It is service friendly and robust [e.g. lens with silicate coating].



[Full Face Mask Advantage 3000]

The innovative full face mask series with a large, optically corrected lens. The Advantage 3000 comes in 3 different sizes and offers an incomparable comfort in donning and using.



Please ask for our detailed leaflets on full face masks.

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