

		MSA The Safety Company	
Technical Data Sheet			
Description			
Description	93 ABEK CO NO Hg / St		93 ABEK CO NO Hg P3
Part Number	10115315		10160507
Marking according to EN	A1, B2, E2, K1, CO, NO, Hg-P3		
Conditions of use	• organic gases and vapors with a boiling point > 65° C • inorganic gases and vapors, e.g. chlorine, hydrogen sulfide, hydrogen cyanide • sulfur dioxide, hydrogen chloride and other acid gases • ammonia and organic ammonia derivatives • carbon monoxide • nitrous gases, e.g. NO, NO2, NOX • mercury • particles		
Colour code			
Label			
Characteristics			
Weight [g]	420		
Diameter [mm]	108,2		
Height incl. thread [mm]	88		
Connection	EN 148-1		
Breathing Resistance			
	at	EN 14387 requirements	Typical values
	30 l / min	2,6 mbar	2,30 mbar mbar
	95 l / min	9,8 mbar	8,50 mbar
Concentration of Testing Gases			
Class 1	1000 ppm [0,1 vol.-%]		
Class 2	5000 ppm [0,5 vol.-%]		
NO, CO	2500 ppm [0,25 vol.-%]		
Hg	13 mg/m³		
Performances			
Filter type and class	Gases of reference	EN 14387/58620 requirements	Typical values
A1	cyclohexane [C ₆ H ₁₂]	70 min	130 min
B2	chlorine [Cl ₂]	20 min	32 min
	hydrogen sulfide [H ₂ S]	40 min	> 120 min
	hydrocyanic acid [HCN]	25 min	95 min
E2	sulfur dioxide [SO ₂]	20 min	40 min
K1	ammonia [NH ₃]	50 min	100 min
CO 20	carbon monoxide [CO]	< 200 ppm (temporal weighted average / 20 min)	23 min
NO	nitric oxide [NO]	20 min	48 min
	nitrogen dioxide [NO ₂]	20 min	40 min
Hg	mercury [vapor]	100 h	> 200 h
Filter type and class	Particles of reference	EN 143 requirements	Typical values
P3	sodium chloride [NaCl]	0,05%	< 0,01%
	paraffin oil	0,05%	< 0,01%
R	Reusable according EN 143:2000/A1:2006		
D	Dolomite clogging test & marking according to EN 143:2000/A1:2006 and EN 14387		
Material			
Housing	aluminium		
Cover (particle filter)	polypropylene		
Filtering material	filtering paper / hopcalite / impregnated activated carbon		
Details/Special Information			
Storage conditions & time	- 5 °C to + 50°C, < 90 % r. h. 4,0 years		
The maximum service time of the special filter against mercury is 50 h. This applies if no other hazardous agents has penetrated the filter earlier. The filter must always be replaced in case of penetration by a hazardous agent.			