MANN Europiclon
Two stage air cleaner – modular system

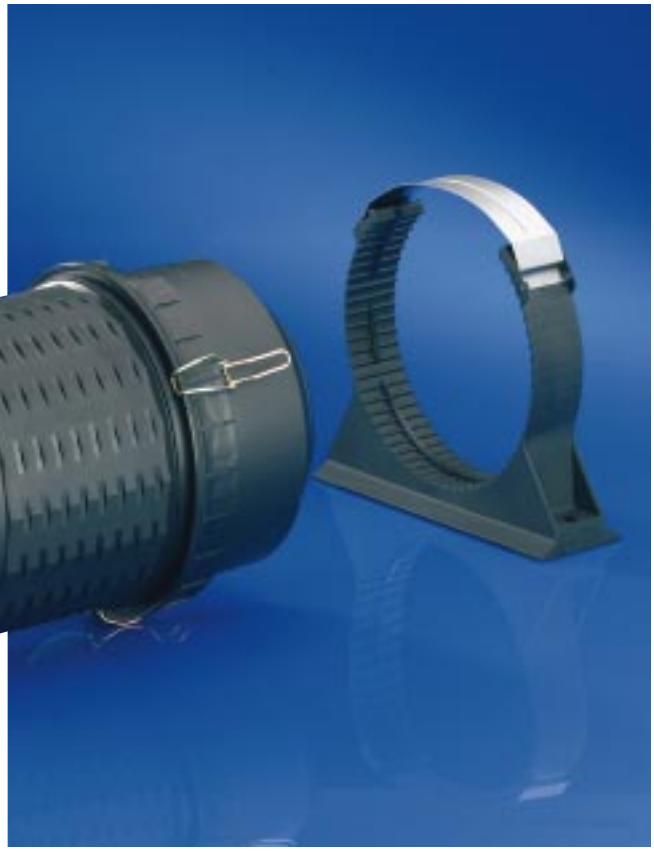
MANN+HUMMEL
Industriefilter

Background picture: Claas

MANN Europiclon ...

Applications
The MANN Europiclon is the ideal intake air cleaner for construction and agricultural machinery, compressors, stationary installations, etc.

Technical advantages
MANN Europiclon cleaners offer high dust capacities and low flow resistance. These values are some of the requirements necessary to fulfill future emission regulations. Top grade filter elements guarantee the necessary functional safety and an economical service life of the unit. No tools are required for the maintenance of the air cleaner.

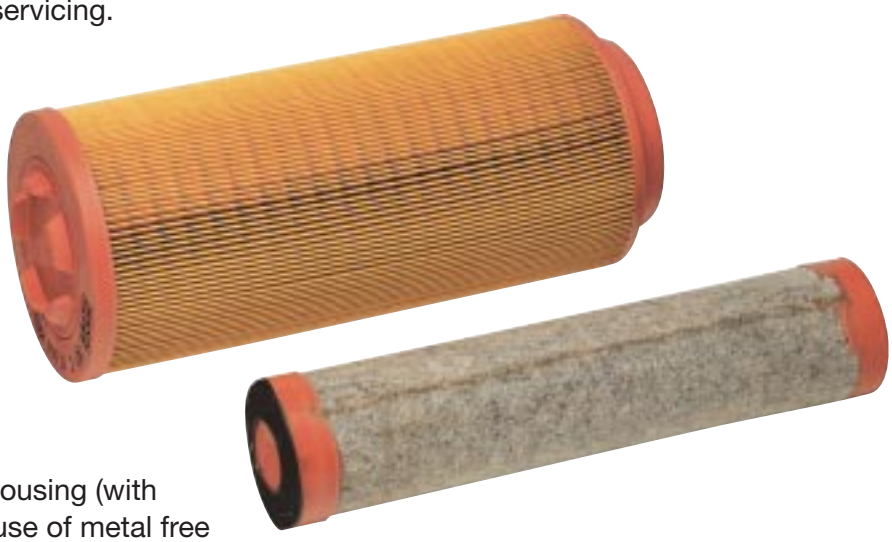


MANN Europiclon with bracket

Flexibility
The Europiclon series is a modular system. Different housing models and dust discharge devices equipped with a flexible position locking system allow the Europiclon to adapt to practically all planned or existing assemblies. There are two different brackets specially designed for the external polygon design of the housing which respectively offer more than 40 different fitting possibilities. An extensive array of system components (see page 63 ff) completes the range.

... flexible air cleaner system

Patented filter elements
The metal free main and secondary elements of the MANN Europiclon are protected by patents and available around the world through our extensive service network.
The MANN Europiclon can be purchased or retrofitted with a secondary element. The secondary element protects the clean air side from the entrance of dust during filter servicing.



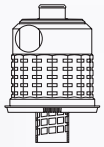
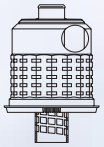
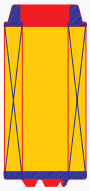
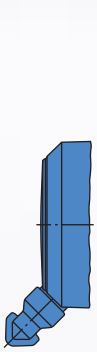
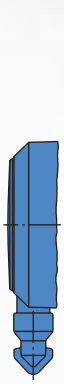
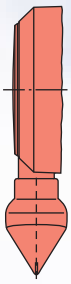
Metal free main and secondary elements

Recycling
The innovative design of the housing (with fixed centre tube), allows the use of metal free main and secondary elements. As no environmentally harmful adhesives are used, the elements are particularly easy on the environment.

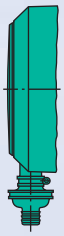
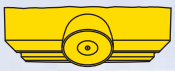
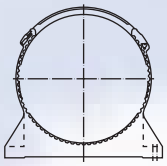
Advantages in a glance
- highly economical
- corrosion free
- easy to recycle
- flexible adaptation to existing aggregates
- extensive range of accessories
- patented technology for main and secondary elements
- accessories and spare parts available worldwide
- easy to service without tools
- naturally in the usual MANN+HUMMEL original equipment quality

Technical specifications
- Nominal flow range 1 to 15 m^3/min
- Allowed continuous running temperature: -40 °C to +80 °C, for short periods +100 °C
- Housing material: impact resistant polypropylene
- Filter elements with radial seal

Less components – many possible combinations ...

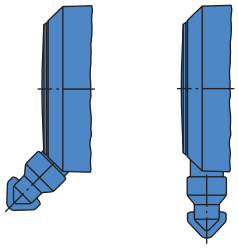
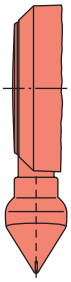
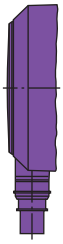
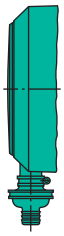
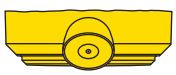
Sizes	Nominal flow rate m^3/min	Housing	Main and secondary elements	Small dust-discharge valve		Large dust-discharge valve
		 Housing – Inlet left hand side (basic model)  Housing – Inlet right hand side (on request)	 Main element  Secondary element			
44 100 ...	1 – 3	●	●	●		
45 200 ...	2 – 4.5	●	●		●	●
45 300 ...	3 – 6	●	●		●	●
45 400 ...	4 – 8	●	●		●	●
45 500 ...	6 – 12	●	●		●	●
45 600 ...	7.5 – 15	●	●		●	●

Other combinations on request.

Dust-discharge variations				Accessories	
Adapter for ejector extraction	**Adapter with backpressure valve**	**Diaphragm valve**	**Vacuum filter**	**Bracket**	**Elbow adapter**
				 Bracket with wide base  Bracket with narrow base	 Elbow adapter  Straight connector  Elbow adapter with M 10x1 connection  Straight connector with M 10x1 connection  Adapter for service indicators M 10x1
		●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●

... thanks to the modular system

The right type for any situation
The MANN Europiclon is available with a number of dust discharge variations:

Dust discharge		Application	End number of the part number
Small dust-discharge valve		Engines with high pulsation (usually aspirating engines up to 4 cylinders)	.. 910/.. 911
Large dust-discharge valve		Engines with low pulsation (usually aspirating engines with 5 or more cylinders, turbo-charged engines)	.. 940/.. 941
Adapter for ejector extraction		Engine with integrated ejector extraction, for extremely high dust loads	.. 980/.. 981
Adapter for ejector extraction with integrated backpressure valve		Engine with integrated ejector extraction, for extremely high dust loads	.. 970/.. 971
Diaphragm valve		Engines with high pulsation, where installation space is limited	.. 920/.. 921
Rubber plug and seal		Vacuum filter	.. 960/.. 961

MANN Europiclon

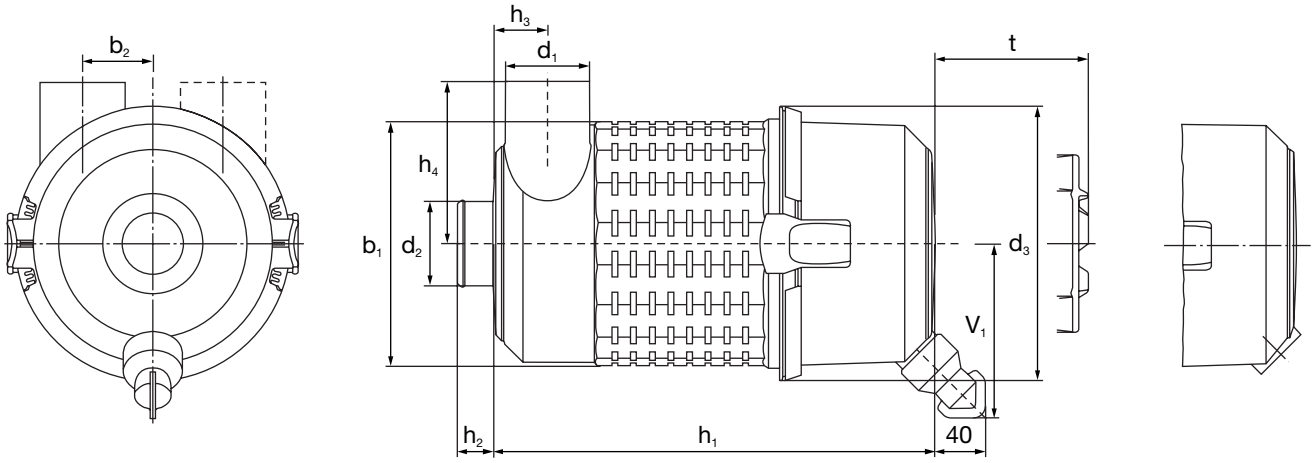


Fig. 1 *1a* *1b*
Mirror image version of air inlet on request
Cover with snap fastener

Part No. without secondary element	Part No. with secondary element	Fig.	Flow rate range [m³/min]	Replacement filter element MANN micro-Top filter	Replacement filter element MANN secondary element	Weight approx. [kg]
44 100 92 910	**44 100 92 911**	1a	1 – 3	**C 11 100**	**CF 100**	0.9
44 100 92 920	**44 100 92 921**	1b				
45 200 92 910	**45 200 92 911**	2a				
45 200 92 920	**45 200 92 921**	2b				
45 200 92 940	**45 200 92 941**	2c	2 – 4.5	**C 14 200**	**CF 200**	1.7
45 200 92 970	**45 200 92 971**	2d				
45 200 92 980	**45 200 92 981**	2e				
45 300 92 910	**45 300 92 911**	2a				
45 300 92 920	**45 300 92 921**	2b				
45 300 92 940	**45 300 92 941**	2c	3 – 6	**C 15 300**	**CF 300**	2.1
45 300 92 970	**45 300 92 971**	2d				
45 300 92 980	**45 300 92 981**	2e				
45 400 92 910	**45 400 92 911**	2a				
45 400 92 920	**45 400 92 921**	2b				
45 400 92 940	**45 400 92 941**	2c	4 – 8	**C 16 400**	**CF 400**	3.0
45 400 92 970	**45 400 92 971**	2d				
45 400 92 980	**45 400 92 981**	2e				
45 500 92 910	**45 500 92 911**	2a				
45 500 92 920	**45 500 92 921**	2b				
45 500 92 940	**45 500 92 941**	2c	6 – 12	**C 20 500**	**CF 500**	3.8
45 500 92 970	**45 500 92 971**	2d				
45 500 92 980	**45 500 92 981**	2e				
45 600 92 910	**45 600 92 911**	2a				
45 600 92 920	**45 600 92 921**	2b				
45 600 92 940	**45 600 92 941**	2c	7.5 – 15	**C 23 610**	**CF 610**	5.0
45 600 92 970	**45 600 92 971**	2d				
45 600 92 980	**45 600 92 981**	2e				

Dimensions and part numbers

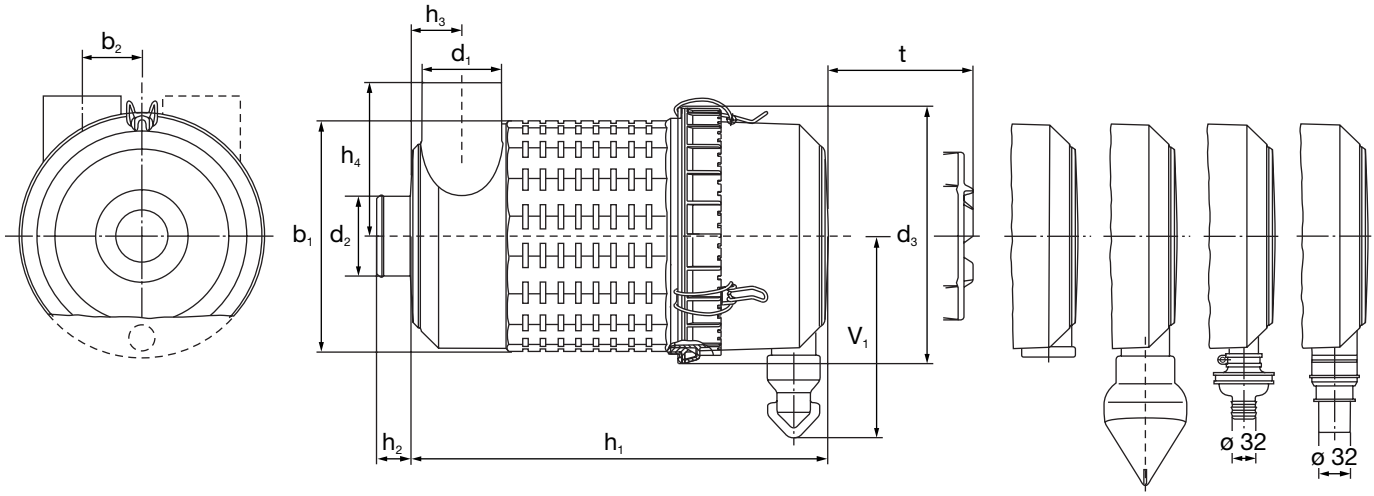


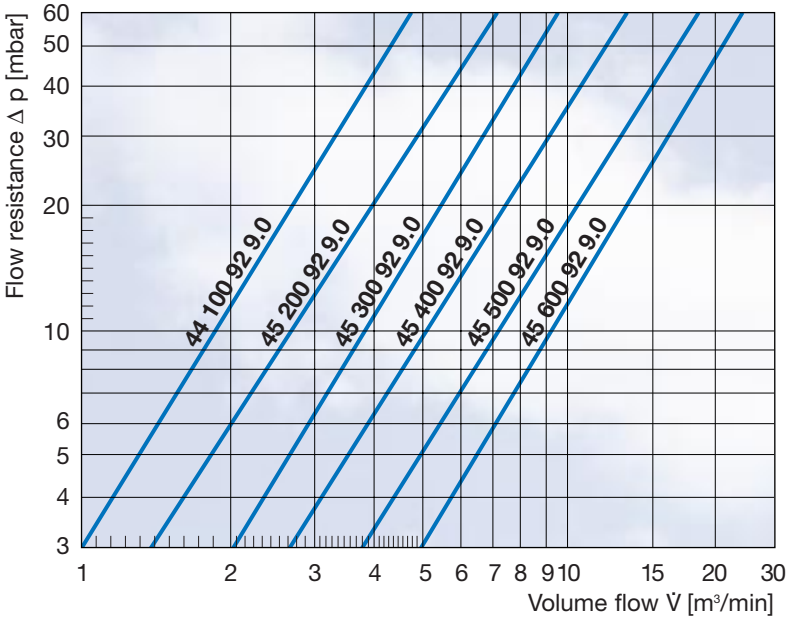
Fig. 2 *2a* *2b* *2c* *2d* *2e*
Mirror image version of air inlet
on request
Cover with wire clamps

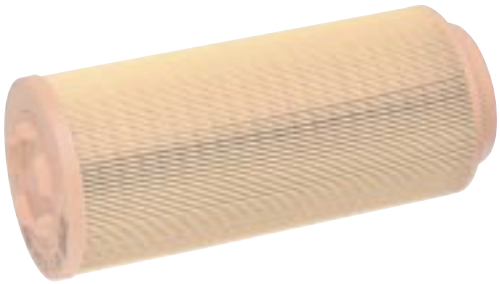
Part No. without secondary element	Part No. with secondary element	Fig.	Dimensions in mm b_1	b_2	d_1	d_2	d_3	h_1	h_2	h_3	h_4	t	V_1
44 100 92 910	**44 100 92 911**	1a	158	45	54	50	188	260	27	38	104	237	131
44 100 92 920	**44 100 92 921**	1b											76
45 200 92 910	**45 200 92 911**	2a	173	48	62	60	198	327	27	42	112	304	164
45 200 92 920	**45 200 92 921**	2b											88
45 200 92 940	**45 200 92 941**	2c											201
45 200 92 970	**45 200 92 971**	2d											184
45 200 92 980	**45 200 92 981**	2e											163
45 300 92 910	**45 300 92 911**	2a	203	59	70	70	228	367	30	45	135	344	179
45 300 92 920	**45 300 92 921**	2b											103
45 300 92 940	**45 300 92 941**	2c											216
45 300 92 970	**45 300 92 971**	2d											199
45 300 92 980	**45 300 92 981**	2e											179
45 400 92 910	**45 400 92 911**	2a	223	63	82	80	248	383	32	52	144	359	189
45 400 92 920	**45 400 92 921**	2b											113
45 400 92 940	**45 400 92 941**	2c											226
45 400 92 970	**45 400 92 971**	2d											209
45 400 92 980	**45 400 92 981**	2e											188
45 500 92 910	**45 500 92 911**	2a	264	73	102	100	288	408	37	62	174	384	209
45 500 92 920	**45 500 92 921**	2b											133
45 500 92 940	**45 500 92 941**	2c											246
45 500 92 970	**45 500 92 971**	2d											229
45 500 92 980	**45 500 92 981**	2e											208
45 600 92 910	**45 600 92 911**	2a	295	87	110	110	323	414	27	65	190	384	226
45 600 92 920	**45 600 92 921**	2b											150
45 600 92 940	**45 600 92 941**	2c											263
45 600 92 970	**45 600 92 971**	2d											246
45 600 92 980	**45 600 92 981**	2e											225

MANN Europiclon

Flow characteristics without secondary element ...

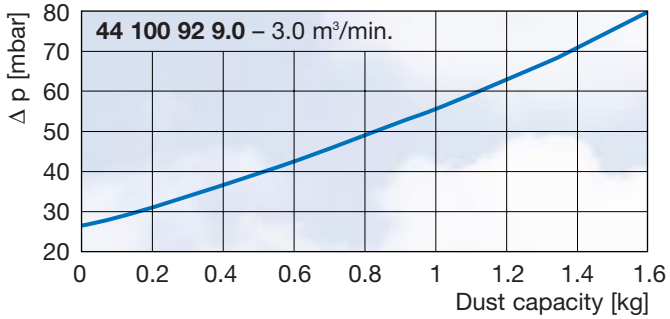
... for the flow rate as per ISO 5011

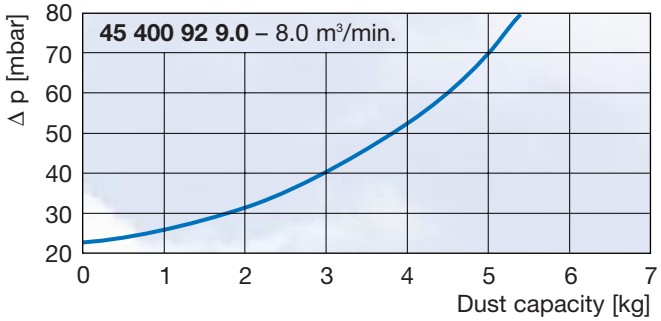


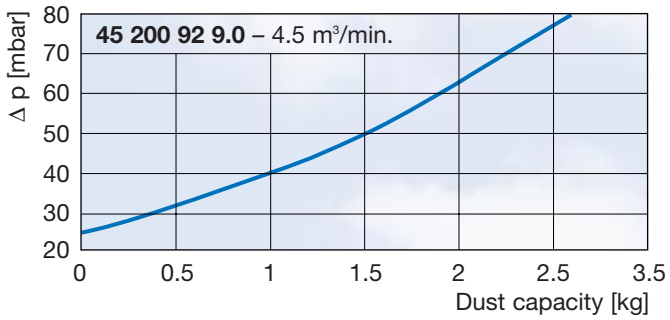


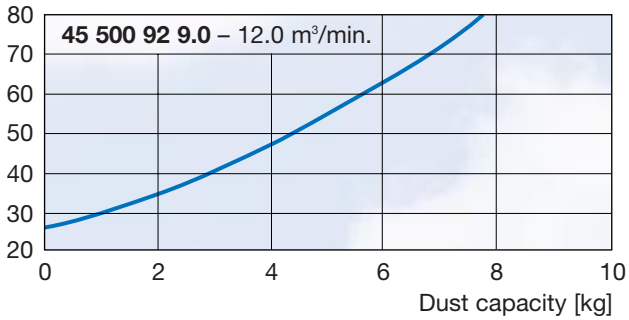
... for the dust capacity as per ISO 5011

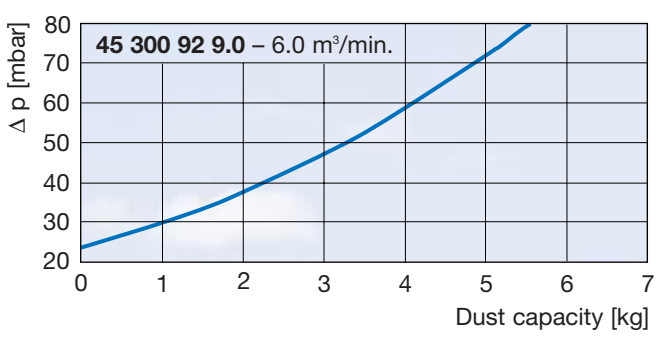
with SAE coarse test dust

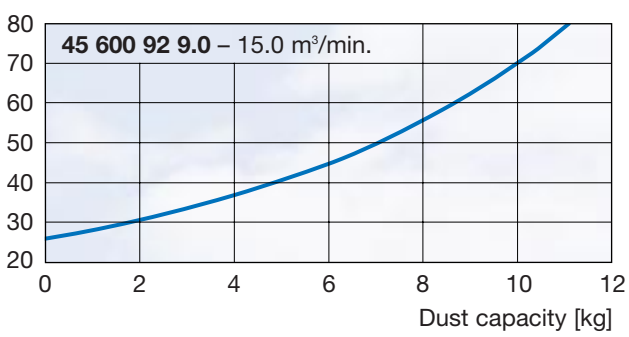












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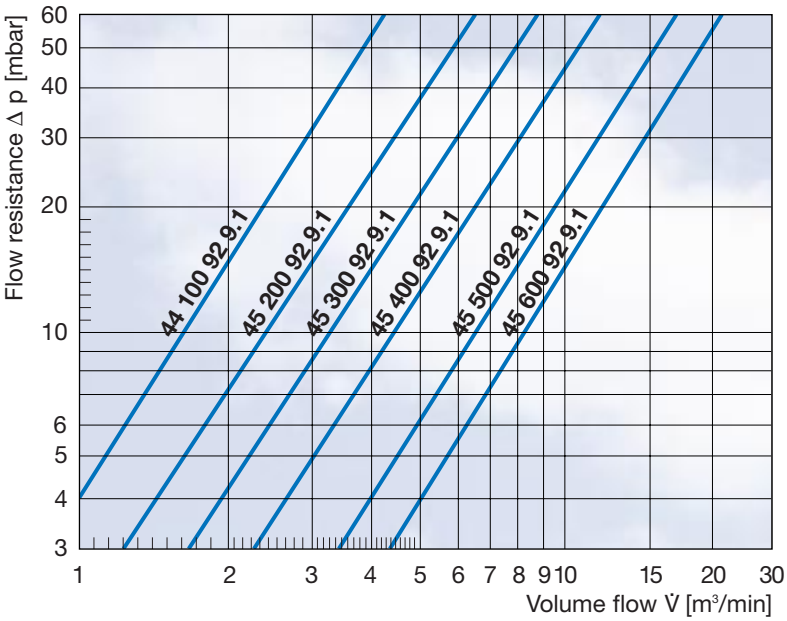
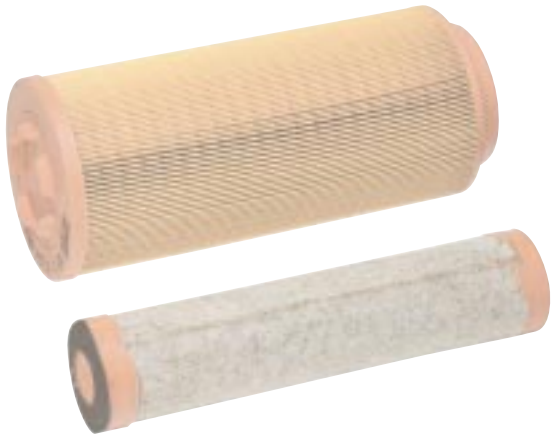
Flow characteristics with secondary element ...

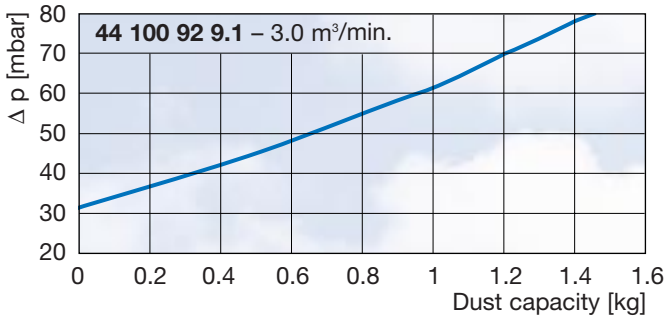
... for the flow rate as per ISO 5011

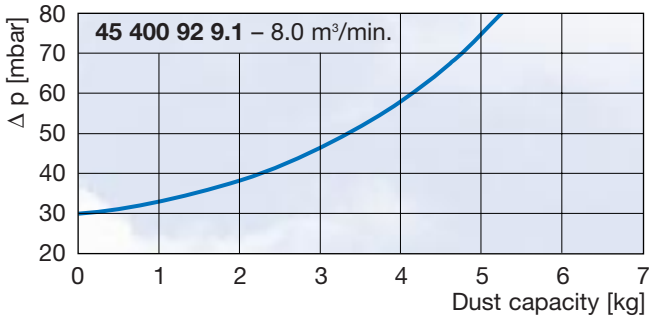


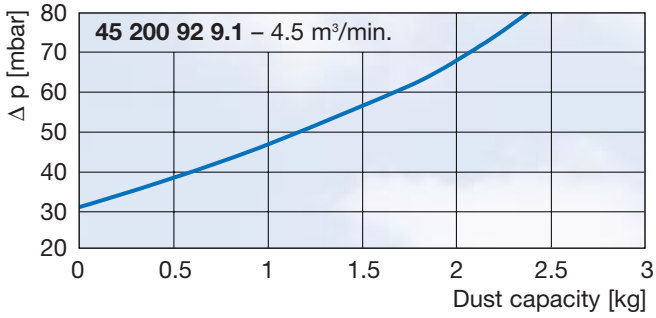


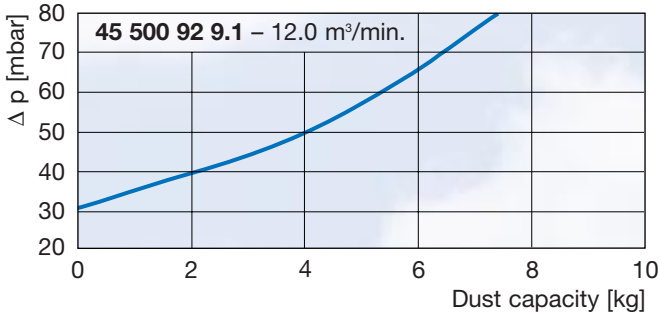
... for the dust capacity as per ISO 5011

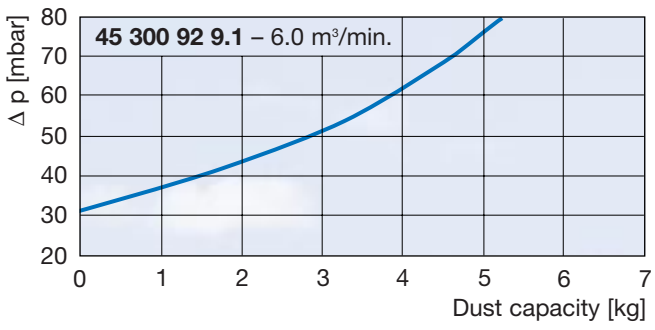
with SAE coarse test dust

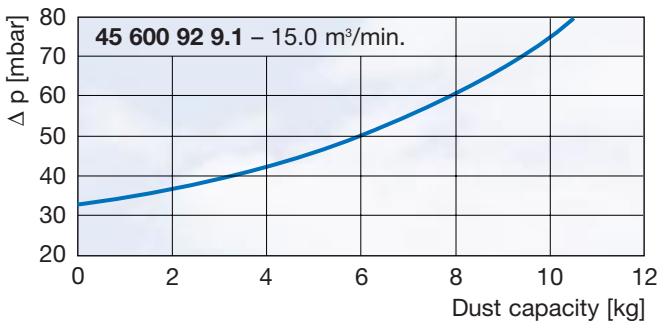






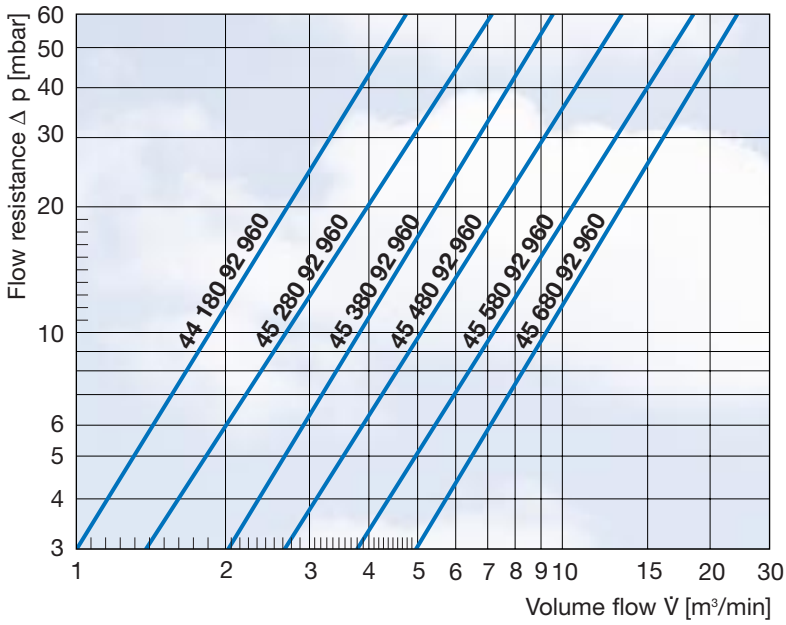






MANN Europiclon for vacuum application

A vacuum filter has been developed, for use in heavy duty conditions with high dust levels and mechanical load. E.g. for construction site lorries, based on the successful Europiclon line.



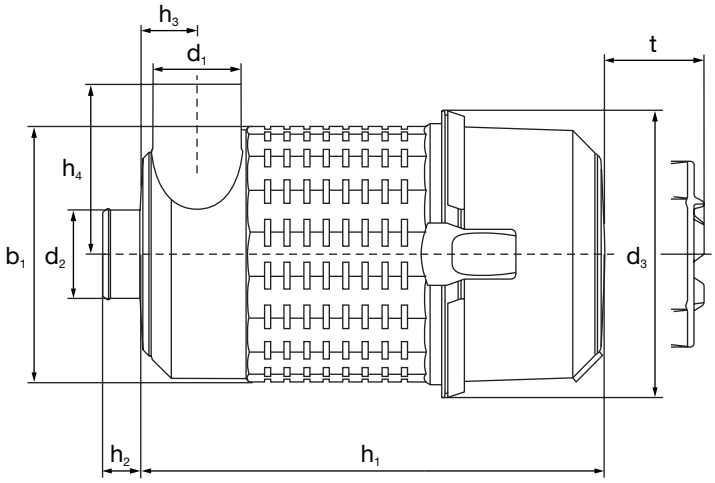


Fig. 1
Cover with snap fastener

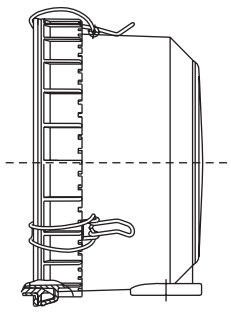


Fig. 2
Cover with wire clamps

Part No.	Fig.	Flow rate range [m³/min]	Dimensions in mm										Weight approx. [kg]
			b_1	b_2	d_1	d_2	d_3	h_1	h_2	h_3	h_4	t	
44 180 92 960	1	1 – 3	158	45	54	50	188	260	27	38	104	237	0.9
45 280 92 960	2	2 – 4.5	173	48	62	60	198	327	27	42	112	304	1.7
45 380 92 960	2	3 – 6	203	59	70	70	228	367	30	45	135	344	2.1
45 480 92 960	2	4 – 8	223	63	82	80	253	383	32	52	144	359	3.0
45 580 92 960	2	6 – 12	264	73	102	100	293	408	37	62	174	384	3.8
45 680 92 960	2	7.5 – 15	295	87	110	110	323	414	27	65	190	384	5.0