Top filters for silos and containers

Industrial processes often generate dust, especially when filling, mixing, dosing or weighing materials. This dust can pollute the working environment, worsen air quality and cause long-term damage to machinery.
Top-mounted filters, which have been specially developed for dedusting and venting silos and containers, offer an effective solution.

Features:

- Pressure-resistant to -900mbar
- Pressure shock resistant up to +1 bar
- For air volumes from 500 – 4000 m³/h
- Quick-release fasteners for opening the chamber
- Optionally with swivelling slotted plate and tool-free filter change
- For 3 – 24 filter elements
- Filter area 4 – 40m²
- Pneumatic cleaning with full immersion system
- Optionally with integrated final filter

Options:

- Silencer
- Fan
- Weather bonnet
- Integrated final filter
- Differential pressure measurement
- Pressure relief systems (flameless or bursting disc)
- Version for installation in ATEX zone 21 or 22

Materials:

- Normal steel
- In contact with product 1.4301 (V2A) or 1.4404 (V4A)
- Complete 1.4301 (V2A) or 1.4404 (V4A)
- Pressure tank made of mild steel, aluminium or stainless steel

Layout guidelines

Calculation of required filter area:	for Polyester-needle felt, standard:	AFilter: [m2] = Air volume [m³/h]/90
	for Polyester-needle felt with PTFE:	AFilter: [m2] = Air volume [m³/h]/60

Use of filter media	Clean gas content	Grain size	Amount of dust
Polyester-needle felt, standard	< 10 mg/m³	> 0,5 µm	< 500 g/m³
Polyester-needle felt with PTFE	< 2 mg/m³	> 0,1 µm	< 100 g/m³
with endfilter H13 / H14	< 0,1 mg/m³	> 0,1 µm	< 0,01 g/m³

1 row of filter bags

Filter surface	Typ 0.3	Typ 0.4	Typ 0.5	Typ 0.6	Typ 0.7	Typ 0.8	Typ 0.9	Typ 0.12
Bag size 1: 0.85 m²	2.6	3.4	4.3	5.1	6	6.8	7.7	10.2
Bag size 2: 1.1 m²	3.3	4.4	5.5	6.6	7.7	8.8	9.9	13.2
Bag size 3: 1.25 m²	3.8	5	6.3	7.5	8.8	10	11.3	15
Bag size 4: 1.6 m²	4.8	6.4	8	9.6	11.2	12.8	14.4	19.2

2 rows of filter bags

Filter surface	Typ 2.3	Typ 2.4	Typ 2.5	Typ 2.6	Typ 2.7	Typ 2.8	Typ 2.9	Typ 2.12
Bag size 1: 0.85 m²	5.1	6.8	8.5	10.2	11.9	13.6	15.3	20.4
Bag size 2: 1.1 m²	6.6	8.8	11	13.2	15.4	17.6	19.8	16.4
Bag size 3: 1.25 m²	3.8	10	12.5	15	17.5	20	22.5	30
Bag size 4: 1.6 m²	9.6	12.8	16	19.2	22.4	25.6	28.8	38.4

3 rows of filter bags

Filter surface	Typ 3.3	Typ 3.4	Typ 3.5	Typ 3.6	Typ 3.7	Typ 3.8	Typ 3.9	Typ 3.12
Bag size 1	7.7	10.2	12.8	15.3	17.9	20.4	23	30.6
Bag size 2	9.9	13.2	16.5	19.8	23.1	26.4	29.7	39.6
Bag size 3	11.3	15	18.8	22.5	26.3	30	33.8	45
Bag size 4	14.4	19.2	24	28.8	33.6	38.4	43.2	57.6

Technical Specifications

Compressed air	Connection < 6 bar	Consumption 0,02 - 0,2 m³/h/m²
Control with or without Delta p cleaning	**Voltage:**	**Frequency:**
	230 V	AC
	110 V	AC
	24 V	DC/AC

Dimensions / Measurements

Flange Dimensions for AAS 4 Top-Mounted Filter	Single-row	610 x 405	610 x 510	610 x 615	610 x 720	610 x 825	610 x 930	610 x 1.035	610 x 1350
	2-row	1.150 x 405	1.150 x 510	1.150 x 615	1.150 x 720	1.150 x 825	1.150 x 930	1.150 x 1.035	1.150 x 1.350
	3-row	1.690 x 405	1.690 x 510	1.690 x 615	1.690 x 720	1.690 x 825	1.690 x 930	1.690 x 1.035	1.690 x 1.350

Flange Dimensions for AAS 5 Top-Mounted Filter	Pocket. 1	1.000 x 545	1.000 x 650	1.000 x 755	1.000 x 860	1.000 x 965	1.000 x 1.070	1.000 x 1.175	1.000 x 1.490
	Pocket. 2	1.250 x 545	1.250 x 650	1.250 x 755	1.250 x 860	1.250 x 965	1.250 x 1.070	1.250 x 1.175	1.250 x 1.490
	Pocket. 3	1.400 x 545	1.400 x 650	1.400 x 755	1.400 x 860	1.400 x 965	1.400 x 1.070	1.400 x 1.175	1.400 x 1.490
	Pocket. 4	1.750 x 545	1.750 x 650	1.750 x 755	1.750 x 860	1.750 x 965	1.750 x 1.070	1.750 x 1.175	1.750 x 1.490