

## Dust filter cartridge 328 NZ/NZC/UZ/XZ

Ø 328 mm, cylindrical

### 1. Features

Star-pleated Filtration Group dust cartridges are used to separate dust from gases. The gas flows inward through the cartridge and is discharged via the open end cap on the top. The retained dust can be cleaned off with a cleaning pulse or compressed air. Two systems multi-jet nozzle (pressure cleaning) or rotating wing (cleaning pulse) are available.

This is also supported by a special technology of element pleat stabilisation/pleat distance control (see data sheet Pleat Distance Control).

Regular and extensive performance testing of all materials used in production is the key to the consistently high quality of Filtration Group dust cartridges. Additional applications tests are carried out both on the test stands in our own development laboratory and on the customer's site. The results of these tests form the backbone of innovative products, mature production methods and unmatched operational reliability.

### Characteristics

- High loading capacity
- Improved cleaning properties
- Optimised flow conditions
- Defined pleat allocation for best performance
- High stability
- Installation on the raw or clean gas side
- Universally suitable
- Reliable operation
- Large filter surface
- Optimised filter materials
- High energy efficiency
- Worldwide sales



## 2. Technical Data

### Materials

<b>Inner core:</b>	Galvanized steel (standard) or stainless steel V4A
<b>End caps:</b>	Galvanized steel (standard) or stainless steel V4A
<b>Seal:</b>	self adhesive needle felt alternative silicone form seal/O-Ring
<b>Filter material:</b>	Ti 07/1 - Electrostatical conductive polyester fleece with PTFE membrane Ti 08 - Electrostatical conductive polyester fleece, aluminium coated Ti 15 - Polyester fleece Ti 19/2 - Cellulose/polyester carrier with PP meltblown Ti 26 - Glass fibre, laminated other media on request

### Cleaning

<b>Cleaning unit:</b>	Multi-jet nozzle (MJD) G1 Rotating wing (RLD)
<b>Cleaning pressure:</b>	MJD 6 bar (max. 7 bar) RLD 3 - 4 bar (max. 4.2 bar)
<b>Differential pressure:</b>	max. 18 mbar

For information on the compressed air tank and consumption, see data sheets on cleaning units.

Technical data is subject to change without notice!

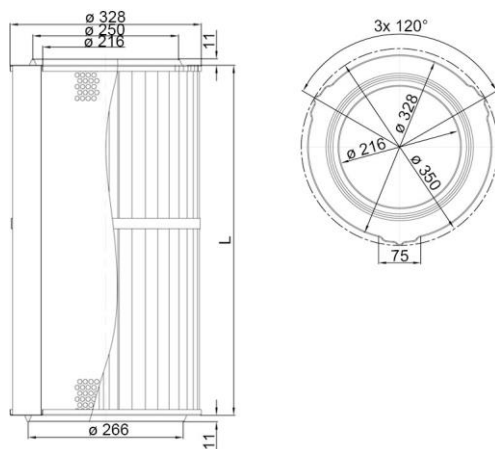
## 3. Type number key, description and dimensions

### 3.1 Type number key

Type	Series	Filter material	Filter surface	Material	Design	Example
852	781	Ti 15	-10	V4A	FDA	

### 3.2 Description 328 NZ raw gas side

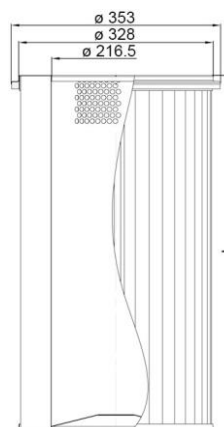
The dust filter cartridge has an opened bottom end cap. It will be raw or clean gas side mounted by means of a tie rod. The dust filter cartridge will be pulled against the filter plate. The upper end plate has three nibs which can lean on the filter plate mounted holding bolts when installing the cartridge. We recommend cleaning the dust filter cartridge with the multi-jet nozzle or rotating wing.



### 3.3 Description 328 NZC clean gas side

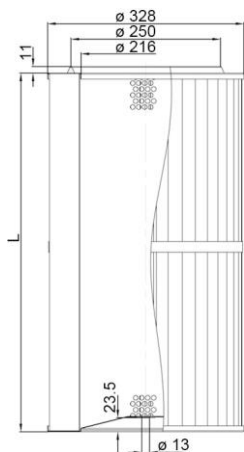
The dust filter cartridge has a closed bottom end cap. It will be raw or clean gas side mounted and fixed with holding down clamps on top of the cartridge. The cartridge have to be pushed through the hole in the filter plate from the clean gas side. To protect the pleats against the filter plate, there is a metal ring (approx. 16 mm high) glued into the end cap. We recommend cleaning the dust filter cartridge with the multi-jet nozzle or rotating wing.

Recommended diameter of the hole in the filter plate for clean gas side mounting is 330 mm.



### 3.4 Description 328 UZ raw gas side

The dust filter cartridge has a closed bottom end cap with a  $\varnothing$  13 mm hole. The dust filter cartridges are fastened to the filter plate on the dirt side by means of a tie rod (tightening torque approx. 15 Nm). The dust filter cartridge will be fastened via a M12 star handle. We recommend cleaning the dust filter cartridge with the Filtration Group multi-jet nozzle or rotating wing.

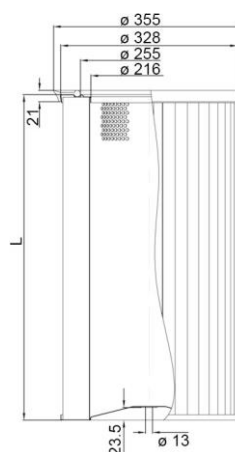


### 3.5 Description 328 XZ raw gas side

This high-performance dust filter cartridge was developed by Filtration Group for particularly challenging filtration tasks in the food, pharmaceuticals and chemical industries.

This cartridge design facilitates optimum cleaning of the filter cake in conjunction with the Filtration Group rotating wing. Typical dust deposits are virtually eliminated by completely filling the bottom of the end cap, because almost all deposits on the cartridge are drained off during cleaning. The key features here are the Filtration Group rotating wing and the special pleats, which are supported in an innovative way. A special system with form seal is also applied. The unique design of these cartridges permits wet cleaning with the cartridge installed or removed.

The dust filter cartridge has a closed bottom end cap with a  $\varnothing$  13 mm hole. The dust filter cartridges are fastened to the filter plate on the dirt side by means of a tie rod (tightening torque approx. 15 Nm). The dust filter cartridge will be fastened via a M12 star handle.



Several filter media are available for filter elements (see data sheet filter media).

3.6 Dimensions 328 NZ					
Type designation	Length L [mm]	Filter surface [m²]	Max. vol. flow* [m³/h]	Start pressure loss** [Pa]	Max. operating temperature*** [°C]
852 907 Ti ...	300	3.7/5	510	> 250	80 (160/240)
852 908 Ti ...	600	7.5/10/13	1000		
852 025 Ti ...	660	11/21	1200		
852 909 Ti ...	1000	8/12.5/16	1630		

\* Depending on the air to media ratio of 1.7 m³/m² min

\*\* Depending on volume flow and filter media

\*\*\* Depending on media/materials, higher temperature ranges on request

3.7 Dimensions 328 NZC					
Type designation	Length L [mm]	Filter surface [m²]	Max. vol. flow* [m³/h]	Start pressure loss** [Pa]	Max. operating temperature*** [°C]
852 829 Ti ...	300	3.7/5	510	> 250	80 (160/240)
852 781 Ti ...	600	7.5/10	1000		
852 943 Ti ...	1000	12.5/16	1275		

3.8 Dimensions 328 UZ					
Type designation	Length L [mm]	Filter surface [m²]	Max. vol. flow* [m³/h]	Start pressure loss** [Pa]	Max. operating temperature*** [°C]
852 826 Ti ...	300	3.7/5	510	> 250	80 (160/240)
852 782 Ti ...	600	7.5/10/13	1000		
852 020 Ti ...	660	11/21	1200		
852 876 Ti ...	1000	12.5/16	1630		
852 081 Ti ...	1200	15/20	2040		

\* Depending on the air to media ratio of 1.7 m³/m² min

\*\* Depending on volume flow and filter media

\*\*\* Depending on media/materials, higher temperature ranges on request

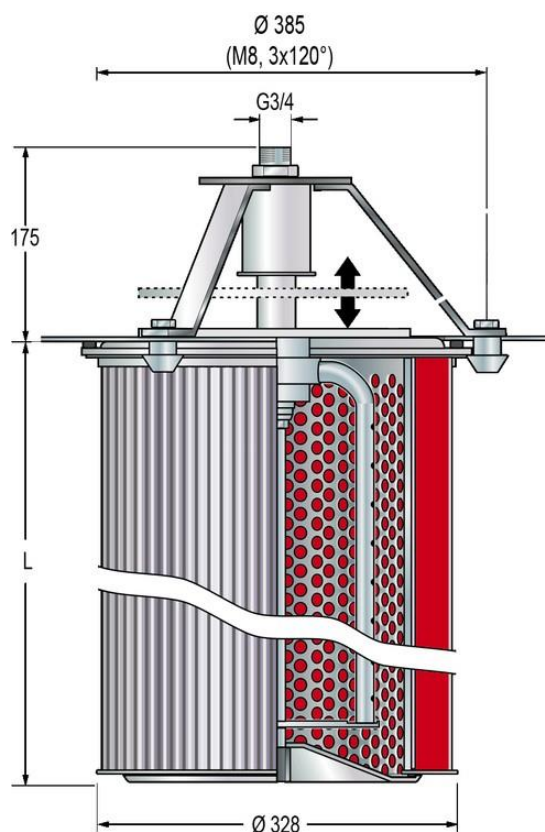
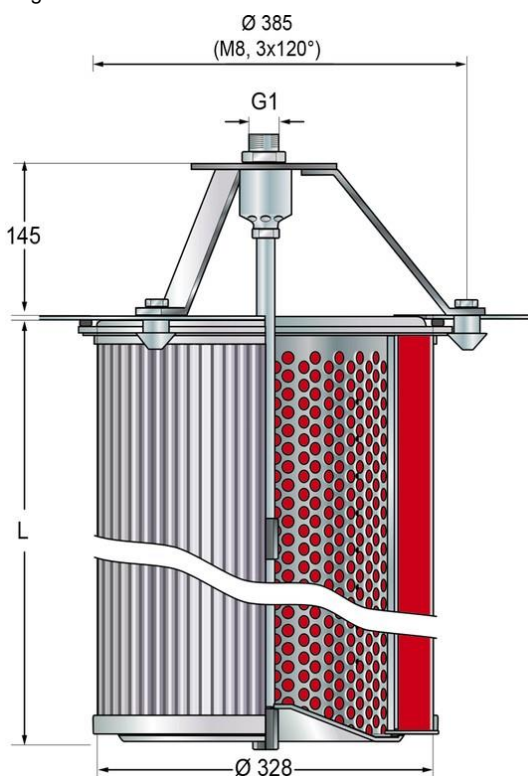
3.9 Dimensions 328 XZ					
Type designation	Length L [mm]	Filter surface [m²]	Max. vol. flow* [m³/h]	Start pressure loss** [Pa]	Max. operating temperature*** [°C]
852 844 Ti ... V4A	600	3/5/10	510	> 250	80 (160/240)
852 979 Ti ... V4A	1000	12,5/8	1275		

## 4. Installation

### 4.1 Raw gas side installation

The dust filter cartridges with diameter: 328 mm are fastened to the filter plate on the dirt side by means of a tie rod (tightening torque approx. 15 Nm). Mounting is facilitated by a centre ring.

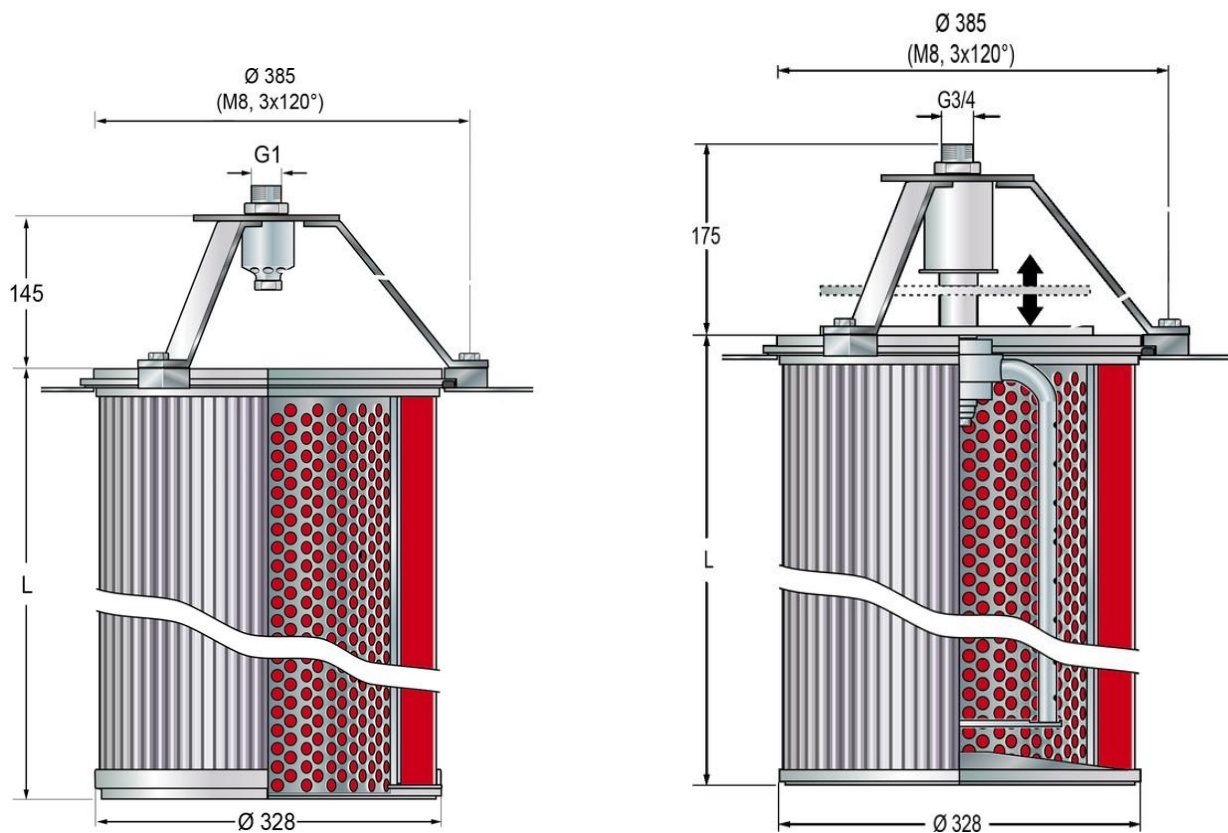
Recommended diameter of the hole in the filter plate for raw gas side mounting is 214 mm.



#### 4. 2 Clean gas side installation

Filter cartridges with  $\varnothing 328$  are fastened to the filter plate on the cleaned side by means of retainers.

Recommended diameter of the hole in the filter plate for clean gas side mounting is 330 mm.



#### 5. Accessories

Order number	Designation
77838568	Centre ring-EL 033, galvanized steel
77934326	Centre ring-EL 033, stainless steel V2A - AISI 304
79743709	Centre ring stainless steel V4A - AISI 316
77885031	Centre ring-2E 033 galvanized steel (2x 852 908 Ti ...)
78215220	Centre ring-2E 033 Edelstahl 1.4301 V2A (2x 852 908 Ti ...)
76161384	Reusable end cap, galvanized steel
76161921	Reusable end cap, stainless steel V4A - AISI 316
79791104	Holding bolts PA6, pack of 3
70357074	Form seal SI 355/255/21
Cleaning unit	Multi-jet nozzle MJD-32 (see data sheet MJD)
Cleaning unit	Rotating wing RLD-32 (see data sheet RLD)

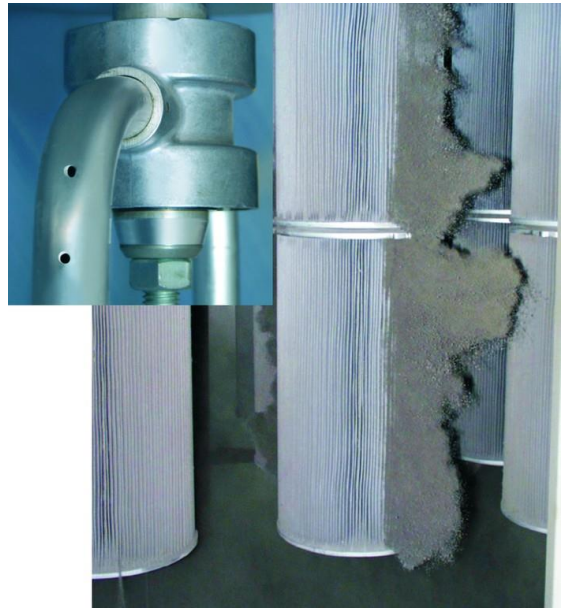
## 6. Cleaning

Two cleaning systems are available for dust filter cartridges with a diameter of 328 mm



### Filtration Group multi-jet nozzle (MJD)

The optimised geometry of the multi-jet nozzle guarantees excellent cleaning results with a significantly lower noise level. The multi-jet nozzle is available from Filtration Group in aluminium or stainless steel. It can also be purchased as part of the Filtration Group MJD cleaning unit, comprising the nozzle, a tripod and various small assembly components. The tripod maintains an optimum distance from the cartridge to ensure maximum cleaning efficiency.



### Filtration Group rotating wing (RLD)

The baffle plate closes during cleaning and the rotating wing begins to turn. The large number of pulsed air jets that are discharged from the wing elements guarantee gentle, uniform cleaning over the complete cartridge length. The simultaneous vibratory movement in the pleats generates a significant improvement in cleaning efficiency, particularly with critical dusts. Each pleat is cleaned several times. The filter life is optimised as a result of the rotating wing.

## 7. Design

Please contact us for detailed technical information, any open questions and for general expert advice. Completion of the relevant questionnaire would facilitate in the coordination of all important parameters.

Comprehensive documentation on our product range, cleaning units and cartridges can be provided.

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