

Dust filter cartridge

160 NZS/NKS

Ø 160 mm, conical or cylindrical

1. Features

Star-pleated Filtration Group dust filter cartridges are used to separate the finest particles from gases. The element is supplied with dust-laden gas from the outside. The cleaned air flow exits through the upper, open end plate to the clean gas side.

In combination with the Filtration Group Multijet nozzle (MJD), the conical filter elements enable optimum filter cake cleaning. This is particularly supported by the pleats, which have been stabilized according to a special process. The conical Filtration Group dust filter element is characterised by optimum flow behaviour and excellent cleaning properties, even with difficult dusts.

The pure and raw gas-side mounting options offer a great advantage and flexibility in the installation variations of this filter element.

A consistently high quality of the Filtration Group dust filter elements is ensured by regular, comprehensive material and performance checks. Our application technology department and our modern development laboratories are constantly working on the further development and optimisation of our products. Application tests at the customer's and in our test facilities are reflected in cost-effective and reliable products.

Characteristics

- Very high loading capacity
- Improved cleaning properties
- Optimised flow conditions
- High stability
- Installation on the raw or clean gas side
- Universally suitable
- Worldwide distribution



2. Technical Data

Materials

Inner core:	Galvanized steel (standard) or stainless steel V4A
End caps:	Kunststoff PA 66 GF 30
Seal:	V form seal NBR
Filter material:	Ti 07/1 - Electrostatical conductive polyester fleece with PTFE membrane Ti 08 - Electrostatical conductive polyester fleece, aluminium coated Ti 15 – Polyester fleece Ti 19 - Cellulose/polyester carrier with PP meltblown Ti 26 – Glass fibre, laminated on both sides with PET Other filter materials on request

Cleaning

Nozzle:	Multi jet nozzle G 3/4
Cleaning pressure:	4 bar to 6 bar (max. 7 bar)
Differential pressure:	max.15 mbar

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

Technical data is subject to change without notice!

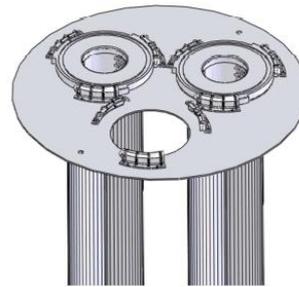
3. Type number key and description

3.1 Type number key					
852 054	Cartridge type				
	Ti 07/1	Filter material			
852 054	Ti 07/1	- 3.5	Filter surface in m ²		
			V4A	Material variation	
	Ti 07/1	- 3.5	V4A	FDA	Cartridge design
				FDA	

Please note that the lists shown here are not complete. Therefore we ask you to contact us before placing your order.

3.2 160 NZS

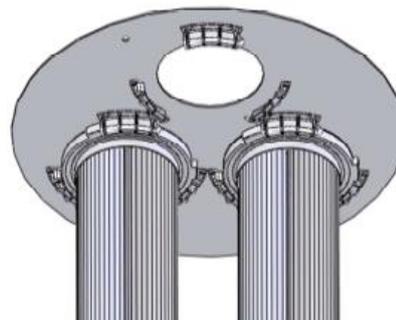
Filtration Group GmbH has developed these filter elements for a variety of filtration tasks in air filtration. These elements, in combination with the Filtration Group Multijet nozzle, enable optimum filter cake cleaning. This is particularly supported by the pleats, which are stabilized according to a special process. The filter element has a closed end plate at the bottom. The filter element is mounted on the raw or clean gas side by means of a bayonet system. During installation, it must be ensured that the filter element is tightened to a maximum torque of 15 Nm. The filter element is cleaned via a multijet nozzle.



Type	Legth "L" [mm]	Filter surface [m ²]	Max. vol. flow * [m ³ /h]	Start pressure loss [Pa]**	Max operating temperature [°C]
852 XXX Ti ...	300	0.75/1.10	115	> 250	Depending on media/materials
852 XXX Ti ...	600	1.50/2.20	225		
852 XXX Ti ...	1000	2.50/3.50	350		
852 XXX Ti ...	1200	3.00/4.20	430		

3.3 160 NKS

Filtration Group GmbH has developed conical high-performance filter elements for a variety of filtration tasks in air filtration. In combination with the Filtration Group Multijet nozzle, these elements enable optimum cleaning of the filter cake. This is particularly supported by the conical design and folds stabilized by a special process. The filter element has a closed end plate at the bottom. The filter element is mounted on the raw or clean gas side using a bayonet system. During installation, care must be taken to ensure that the filter element is tightened to a maximum torque of 15 Nm. The filter element is cleaned via a multijet nozzle.



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Explanation of the tables

Different filter materials are available for the filter elements see data sheet Filter material.

* Depending on the air to media ratio of 1,7 m³/m² min

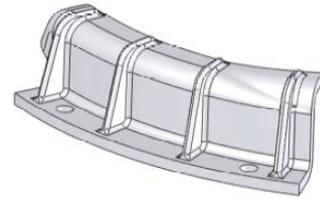
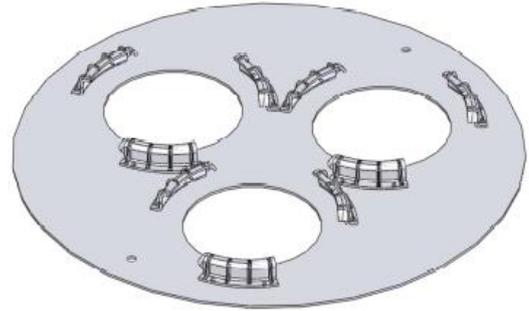
Deviations from these values are possible due to dust type and gas composition.

** Depending on volume flow and filter media

4. Installation

The dust filter element can be mounted and dismantled on the filter plate on the raw or clean gas side using the bayonet system without tools. A tool can be supplied for fixing the filter plate on the clean gas side. An exact hole pattern for mounting the bayonet brackets is available on request.

The brackets are each fixed to the filter plate with 2 screws. Depending on whether the filter elements are mounted on the raw or clean gas side, the brackets are attached to the top or bottom of the filter plate.



5. Accessories

Order number	Designation
n.n.	Mounting Speed Star (3er Pack)
70366440	Nozzle-M16 3/4 1.4301 MULTIJET OZB A4
70343824	Nozzle-M16 3/4 ALU MULTIJET OZB
n.n.	Tool clean gas side assembly

6. Cleaning

We recommend cleaning the dust filter cartridge with the Filtration Group multi-jet nozzle. The optimized 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 stirrup and various small assembly components. The stirrup maintains an optimum distance from the cartridge to ensure maximum cleaning efficiency.



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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