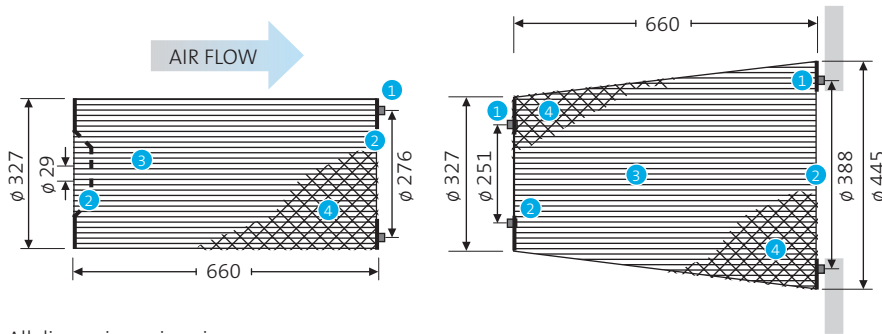


# PULSE-JET FILTER CARTRIDGES OF GTS SERIES IN CONICAL-CYLINDRICAL DESIGN

## THE SELF-CLEANING SOLUTION FOR GAS TURBINES AND COMPRESSORS

### CONSTRUCTION / DIMENSIONS



All dimensions given in mm.

- 1 = Gasket
- 2 = Cover / base
- 3 = Filter medium, pleated
- 4 = Outer support cage



### The application

Viledon® self-cleaning pulse-jet filter cartridges of GTS series are used in supply air filtration systems for gas turbines and turbo-compressors in both on and offshore applications.

### The concept

GTS cartridges with their optimized self-cleaning characteristics, maximize useful lifetimes and minimize particle ingress in turbomachinery systems. Here they meet the stringent requirements for clean air quality, particularly under critical on-site conditions like

desert areas or tropical climates with high relative humidity.

### The characteristics and the benefits

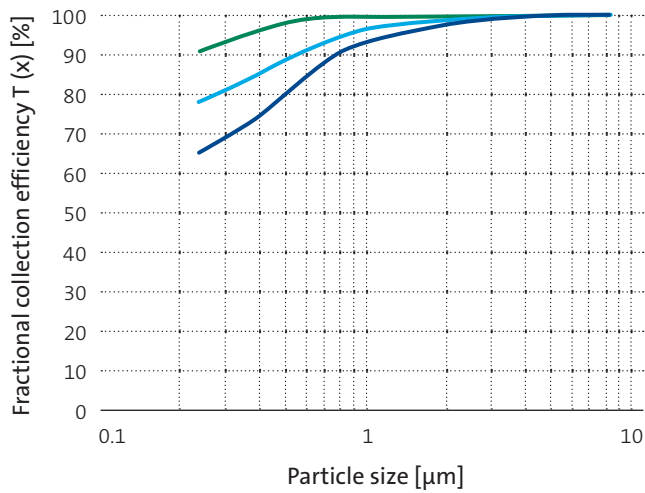
- Innovative high-strength synthetic microfiber nonwoven with water-repellent coating that allows the cartridge to maintain excellent operational characteristics in all climatic conditions.
- The filter media ensure high arrestance, high dust holding capacity (prior to self-cleaning), low average pressure drop and high cost efficiency. This makes the GTS particularly suitable for locations with high dust concentrations in the ambient air.
- GTS cartridges have been optimized in terms of filtering area, pleat depth and number of pleats which means the active filtering area remains completely effective over its entire operating lifetime.
- To minimize corrosion and handling damage, the inner and outer support cage and base end caps are made of galvanized steel or stainless steel.
- The foamed-on PUR/EPDM gasket ensures optimized sealing against the mounting plate. The two gaskets between conical and cylindrical cartridges serve as ideal centering aid during installation.
- Other geometries available.

### TECHNICAL DATA

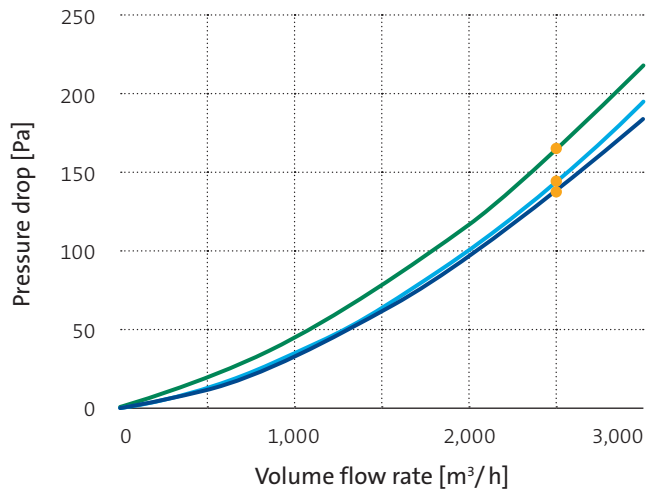
	GTS CARTRIDGE SET			GTS SMALL CYLINDRICAL CARTRIDGE			
	GTS 445 K66S0 + GTS 324 W66S0	GTS M15 445 K66S0 + GTS M15 324 W66S0	GTS10 445 K66S0 + GTS10 324 W66S0	GTS 324 W66S0	GTSM15 324 W66S0	GTS10 324 W66S0	
<b>Overall height</b>	mm	1,330			660		
<b>Diameter</b>	mm	327 / 445			327		
<b>Filter medium</b>		Synthetic microfiber nonwoven					
<b>Filter area, approx.</b>	m <sup>2</sup>	41	41	35	19	19	16
<b>Material for cover, base, support cages</b>		Steel, galvanized					
<b>Gasket</b>		PUR					
<b>Moisture-resistance (rel. hum.)</b>	%	100					
<b>Thermal stability: continuous operation</b>	°C	70					

# TECHNICAL FILTER TEST DATA TO ASHRAE 52.5, EN 779 AND ISO 16890

Fractional collection efficiency curves



Initial pressure drop curves



— GTS 445-324 Set    — GTS M15 445-324 Set    — GTS10 445-324 Set    ● Nominal volume flow rate

KEY DATA	GTS CARTRIDGE SET			GTS SMALL CYLINDRICAL CARTRIDGE		
	GTS 445 K66S0 + GTS 324 W66S0	GTS M15 445 K66S0 + GTS M15 324 W66S0	GTS10 445 K66S0 + GTS10 324 W66S0	GTS 324 W66S0	GTS M15 324 W66S0	GTS10 324 W66S0
<b>Filter class</b> ASHRAE 52.2:2017 EN 779:2012 EN 1822:2009	MERV14 F9 —	MERV15 F9 —	MERV16 — E10	MERV14 F9 —	MERV15 F9 —	MERV16 — E10
<b>Nominal volume flow rate</b> ●	m <sup>3</sup> /h			m <sup>3</sup> /h		
<b>Initial pressure drop at nominal volume flow rate</b>	Pa	Pa	Pa	Pa	Pa	Pa
<b>Class to ISO 16890</b>	ISO ePM1 75%	ISO ePM1 85%	ISO ePM1 > 95%	ISO ePM1 75%	ISO ePM1 85%	ISO ePM1 > 95%
<b>Particulate matter efficiency</b>						
ISO ePM1	%	%	%	%	%	%
ISO ePM2,5	%	%	%	%	%	%
ISO ePM10	%	%	%	%	%	%
<b>Cut-off particle size</b>	µm	µm	µm	µm	µm	µm
<b>Initial efficiency for MPPS</b>	%	%	%	%	%	%
<b>Max. recomm. operating pressure</b>	Pa	Pa				
<b>Bursting strength</b>	Pa	Pa				

The information or figures given are subject to tolerances due to normal production fluctuations. Our explicit written confirmation is required in each case for the correctness of the information. Subject to technical alterations. You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility.