

Filter for industrial process technology PiP Topchange series

PIP/TC bag replacement filter elements for bag filter housings

1. Description

PiP Topchange filter elements are efficient bag replacement filter elements for efficient filtration.

They can be used as a high-quality alternative to conventional bag filters in suitable filter housings.

In this way, the advantages of a cartridge filter, such as higher retention rates, can be easily integrated into a bag filter housing.

By using the pleated design, the filter surface is significantly larger filter area, which results in a large dirt-holding capacity in conjunction with a high separation rate is achieved.

For the user, this means a clear advantage in many user a clear advantage in many applications in terms of quality and economy compared to conventional bag filters.



ff. 1.Description

PiP/TC 1

These filter elements can be easily and directly inserted into the suitable* bag filter housings without the use of a pressure retaining basket.

Sealing is achieved by means of a molded flat seal, which is axially pretensioned by the housing cover.

As with the filter bag, the flow is from the inside to the outside.

PiP/TC 2

Due to the highest demands on material resistance and pressure stability with high separation requirements, FG has further expanded its filtration competence.

Bag filters are a proven filtration system. However, when high separation rates are required, filter cartridges are superior.

The PiP Topchange series offers you the opportunity to combine the efficiency of filter cartridges with the benefits of filter bags, while still using your existing bag filter housing.

The PiP TC2 series includes adapters for bag filter housings and absolute cartridge filter elements with defined high separation rates.

The flow is from the outside to the inside, as with the filter cartridge.

*On request and after technical clarification. Please contact us.

Features

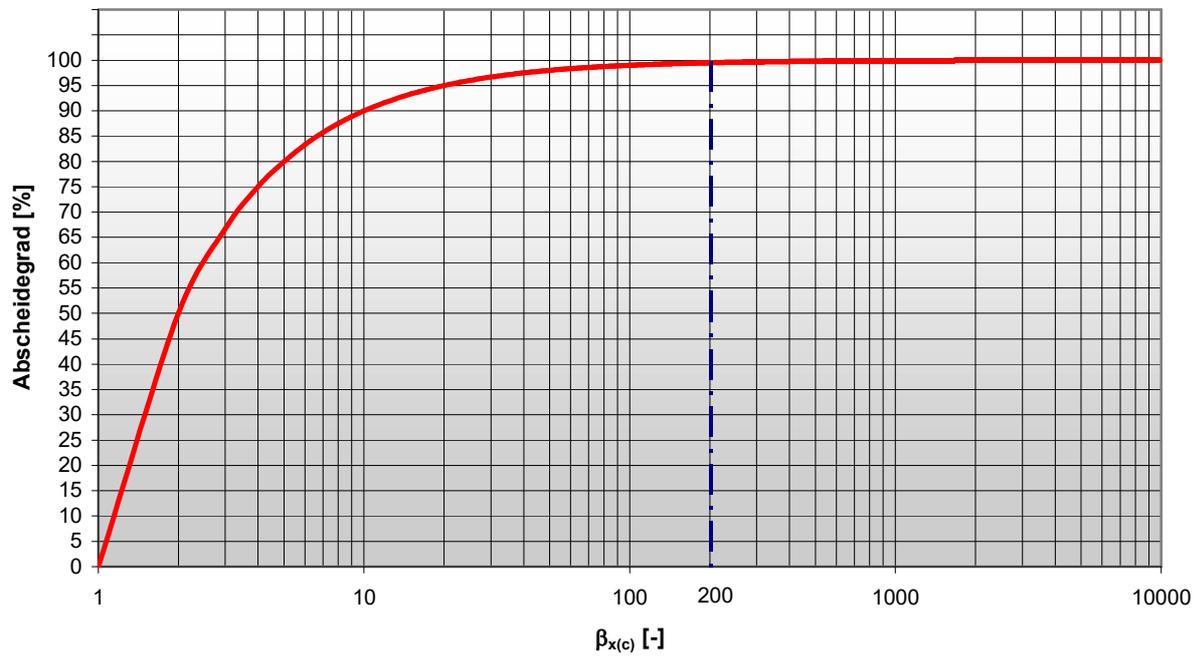
- High-efficiency filter material in glass fiber (Sm-N) or polypropylene (PP)
- Progressive structure due to filter material graded in fineness
- Stainless steel wire support mesh ensures high rigidity
- Stainless steel support tube for high stability and pressure resistance
- High differential pressure stability and dirt-holding capacity, resulting in optimum operating life and economy
- Guaranteed separation rates according to ISO 16889 (multipass test)

2. Filter data

Filter material	Fineness [μm]	$\beta_{x(c)} 200$ *
Sm-N 1	1	$\leq 4 \mu\text{m}$
Sm-N 5	5	$5 \mu\text{m}$
Sm-N 10	10	$10 \mu\text{m}$
Sm-N 20	20	$20 \mu\text{m}$

Filter finess acc.to ISO 16889:1999
(Multipass tests) with calibration
acc.to ISO 11171 (NIST)
* DIN 24550 Fluid technology-hydraulic filter

Separation efficiency [%] depending on filtration ratio $\beta_{x(c)}$



* acc.to ISO 16889

3. Technical data

Filter material: micro glass fiber or polypropylene
 Support fabric/support tube: 1.4301
 End plates: 1.4301
 Seal: FPM (standard)

Temperature range: 0 to 80 °C

Recommended differential pressure: up to 2.2 bar (guaranteed separation rates acc. to ISO 16889)

Differential pressure resistance: up to 3 bar

Dimensions and filter areas and other designs on request.

The filter elements are not regenerable!

Application

Filtration of liquids in the industrial production process:

All common cleaning liquids for industrial component cleaning
 - alkaline, neutral and acidic aqueous solutions (pH 4 to 12)
 - solvent cleaners based on hydrocarbons or modified alcohols

Water treatment (e.g. cooling water), low-viscosity oils (e.g. test fluids), emulsions (e.g. cooling lubricants).

Other applications and media after consultation or technical clarification.

4. Type code

Series					
PiP	<i>Design (bag replacement filter element)</i>				
	TC	<i>Element version (adaptation)</i>			
		1	Flowing from the inside out		
		2	Flowing from the outside in*		
	<i>Size**</i>				
		1	Length	324 mm	
		2		723 mm	
	<i>Filter media</i>				
		Sm-N	(1 bis 20 µm)		
		PP	(1 bis 10 µm)		
<i>Filter fineness (in µm)</i>					
	1				
	5				
	10				
	20				
PiP /	TC /	1 /	1 /	Sm-N /	5
					<i>Order example</i>

*One-time adapter required with initial purchase. On request.

** Size 1 corresponds to filter bag size 1, size 2 corresponds to filter bag size 2

Technical modifications reserved!

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 11/2023