



History of Fuhr filter technology

Filtration for over 40 years



The **Fuhr GmbH** is a competent partner of the industry in the field of filter technology and has been dealing with filter systems for **liquids and gases** since 1973. Right from the start, we have placed great importance on service, flexibility, quality and reproducibility.

Founded in 1971 by **Klaus Fuhr**, the company started with panel construction for **water treatment** in the area of microfilming in photo laboratories.

Since 1977 Fuhr Filtertechnik has also been an active sales partner for filter products from **3M** Deutschland GmbH, formerly AMF (Cuno Filter). The name change and rebranding to "Fuhr GmbH Filtertechnik" took place in 1995 under new management.

Fuhr Filtertechnik has been an international manufacturer of filter housings and inserts for many areas of industry since 2005. We also develop and manufacture numerous **OEM products** which are installed worldwide. In 2005, the *acura*Line® brand was launched, which includes a modular portfolio of a series products for a wide range of applications

1977
GENERAL REPRESENT.
AMF (Cuno) today; 3M

and which produces several **new developments** year after year. For the digital future, we have been offering intelligent filter management systems for the wireless / electronic networking of systems, control rooms and 24/7 applications with our **Digital**⁺ series since 2017.

1973
THE FIRST FILTER
in panel construction

1971

ESTABLISHMENT OF THE COMPANY by Klaus Fuhr

1981

THE FIRST CUSTOMIZED VESSEL acc. to customer requirements

1970s

1980s













The acuraLine® product line is growing steadily and includes filter cartridges, filter bags, cartridge filters and module filters. To compliment this, the acuraLine® offers a large portfolio of bag, cartridge, module and strainer filter housings as well as self-cleaning filters, belt filters and separators.

Special filter systems according to **DGRL 2014/68/EU** are individually tailored, designed and manufactured to the needs of our customers. Extensions / certificates such as the acceptance according to **ATEX 2014/34/EU** or **FDA** or **EU1935** are also part of our special products range.

Our extensive range of accessories, fittings and measurement technology complete the product range.

Our products are used in **food** and **medical technology**, water treatment, **cosmetics** and **electronics**, the **chemical industry**, the **automotive industry**, **surface technology** (paint) and **electroplating** and many other industries. Our experienced team supports our customers all the way from defining the problem to offering a solution.

1997

NEW LOCATION move to Klein-Winternheim 2005

OUR OWN PRODUCT LINE birth of acuraLine®

2013-2017

EXPANSION OF LOGISTICS opening of warehouse 3 and 4

1996

GRANDFATHERS OF THE FILTRATION takeover by H.J. Schall / K. Groh

2016

THE NEXT GENERATION the new management

1995

REORIENTATION core business: filtration

2000

NEW BUSINESS SEGMENT "HOME TECHNOLOGY"

condensate pumps (air conditioning / heating technology)

2017

INDUSTRY 4.0

our filtration is going Digital*

1990s

2000s

2010⁺





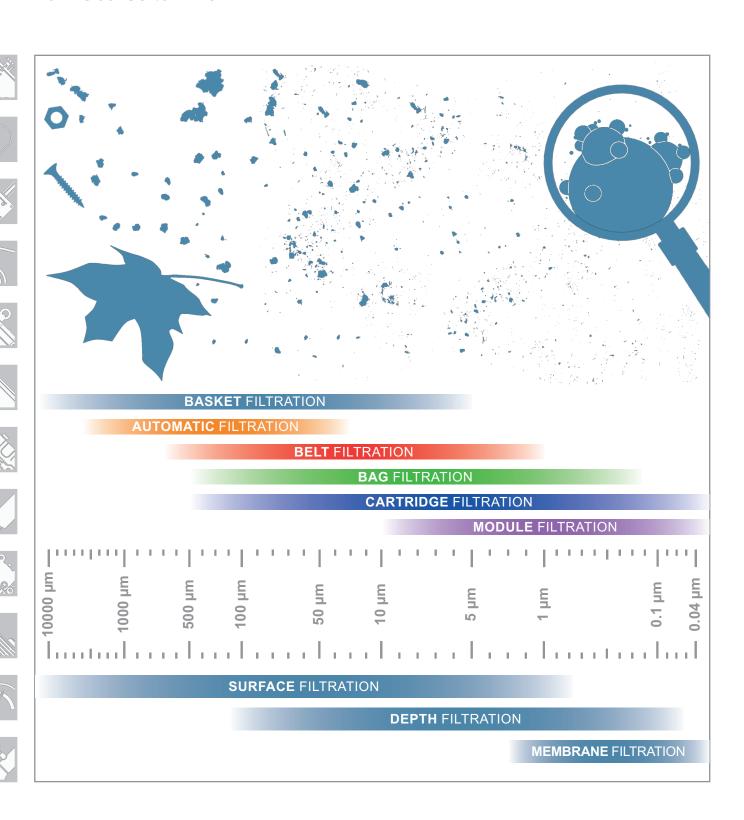






Overview

from Coarse to Fine











Fuhr GmbH Main Range of Goods

	× ×
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Series SF-IL

Stainless Steel Screen Basket Housings FILTER AREA

SF-IL-09 with ~0.02 m² SF-IL-16 with ~0.11 m² SF-IL-22 with ~0.22 m² SF-IL-27 with ~0.33 m² SF-IL-40 with ~0.83 m²

at the vessel inlet

TECHNOLOGY Inline installation by redirecting

INSTALLATION/ Simple pressing of the screen basket

GASKET Standard FPM, others on request

using a bracket and convenient closure using star handle nuts

VARIANTS SF-IL-40 optional with swivel device

(DAVIT)

TECHNICAL DATA

HANDLING

Туре	IN/OUT	Material	Max. oper. pressure	Max. oper. temp.
SF-IL-09	DN25 / DN50	AISI 304 / AISI 316	16 bar	-10/+80°C
SF-IL-16	DN50 / DN65	AISI 304 / AISI 316	10 bar	-10/+80°C
SF-IL-22	DN80 / DN100	AISI 304 / AISI 316	10 bar	-10/+80°C
SF-IL-27	DN150	AISI 304 / AISI 316	10 bar	-10/+80°C
SF-IL-40	DN200	AISI 304 / AISI 316	16 bar	-10/+80°C

APPLICATIONS

- Prefiltration
- Pump protection
- · Waste water
- River water

- Coolant
- Sewage works
- Process water
- Filling / emptying of trucks
- · Subterranean water
- Well water
- Adhesive
- · Soil irrigation

SUITABLE INSERTS



SUITABLE OPTIONS



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page 89-90























Series F-SF-TW

Stainless Steel Tank Wagon Filter

VARIANTS

Ext. thread, tank wagon connection, hose connection, milk pipe, camlock

TECHNOLOGY Direct inline installation between tank

truck and storage tank

Up to 70 m³/h (based on water)

INSTALLATION Simple pressing over the lid,

closure via quick closure clamp

GASKET Standard FPM, others on request

truck and storage tents

· ·

TECHNICAL DATA

FLOWRATE

Туре	IN/OUT	Material	Max. oper. pressure	Max. oper. temp.
F-SF-TW50	DN50	AISI 304 / AISI 316	10 bar	-10/+80°C
F-SF-TW80	DN80	AISI 304 / AISI 316	10 bar	-10/+80°C
F-SF-TW100	DN100	AISI 304 / AISI 316	10 bar	-10/+80°C

APPLICATIONS

- Tank protection
- Filling
- Prefiltration
- Bottling
- Safety filter
- · Flushing filter
- Suction
- · Resin separator



SUITABLE INSERTS

Screen baskets

SUITABLE OPTIONS





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page 9-10



















Here you find detailed



Screen Baskets SF

for Series SF and SF-IL

Screen Baskets F- SF-TW

for Series Tank Wagon Filter

TECHNOLOGY

Multilayered stainless steel screens

with solid support layer,

durable and easy to clean

VARIANTS Special sizes and special screens /

perforated sheet on request

FILTRATION From the inside out,

no contamination of clean side

COSTS

No consumables needed

INSTALLATION Pressing via housing's lid

TECHNICAL DATA

Туре	Material	Micron rates	Filter area	Flow rate	Filter housing
SF91	1.4401	50, 100, 150, 200, 250, 300, 500, 1000 μm	~0.02 m²	< 5 m³/h*	SF-IL-09
SF161	1.4401	50, 100, 150, 200, 250, 300, 500, 1000 μm	~0.11 m²	< 33 m³/h*	SF-IL-16
SF221	1.4401	50, 100, 150, 200, 250, 300, 500, 1000 μm	~0.22 m²	< 70 m³/h*	SF-IL-22
SF271	1.4401	50, 100, 150, 200, 250, 300, 500, 1000 μm	~0.33 m²	< 170 m ³ /h*	SF-IL-27
SF401	1.4401	50, 100, 150, 200, 250, 300, 500, 1000 μm	~0.83 m²	< 280 m³/h*	SF-IL-40
F-SF-TW	1.4401	100, 200, 250, 500, 1000 μm	~0.1 m²	< 70 m³/h*	Tank wagon filter

^{*} based on water at 100 µm

APPLICATIONS

- Coarse filter
- Pump protection
- Waste water
- Water treatment

- Fuels (petrol / diesel)
- Cosmetics and food
- Coatings
- Purification baths

- Engine oil
- Tank protection
- Filling
- · Pharmaceutical intermediates

SUITABLE **BASKET FILTER HOUSINGS**







SUITABLE









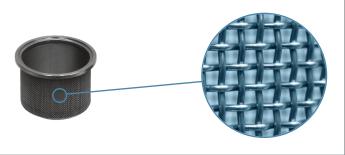


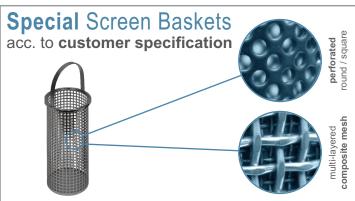
FILTER SELECTION













Here you find detailed information:





Series KSF

Electrical Self-Cleaning Wedge Wire Filter

TECHNOLOGY

Scraping on the dirt side of the filter

by rotating a wedge wire element, electrical drive (400 V, 50 Hz)

VARIANTS

Sump removable downwards, KSF-700 / KSF-1000 alternatively

available as a topliner model (-TL)

FILTRATION

Through slots from the outside in

GASKETS

Standard FPM, others on request

TECHNICAL DATA

Туре	IN/OUT	Material	Max. oper. pressure	Max. oper. temp.	Flow rate
KSF-240 K	Rp 1"	1.4301	16 bar	-10/+80°C	< 3.5 m³/h*
KSF-400	R 2" / DN50	1.4571	10 bar	-10/+80°C	< 13 m³/h*
KSF-700	DN65	1.4571	10 bar	-10/+80°C	< 25 m³/h*
KSF-1000	DN80	1.4571	10 bar	-10/+80°C	< 35 m³/h*
KSF-700-TL	DN65	1.4571	10 bar	-10/+80°C	< 25 m³/h*
KSF-1000-TL	DN80	1.4571	10 bar	-10/+80°C	< 35 m ³ /h*

*) based on water

Higher temperatures, special voltages and ATEX models available on request.

APPLICATIONS

- Paints and coatings
- Protective undercoating
- Adhesives
- Bitumen

- Chocolate mass
- Food and beverage

SUITABLE

INSERTS



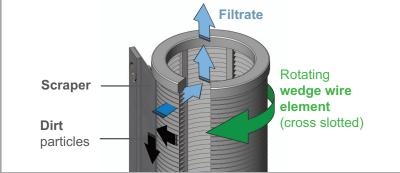


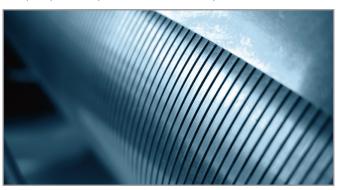


> 35 µm up to 3000 µm



available on request











Series KSF-240 K

with removable sump





with removable sump



Series **KSF-700/1000-TL**

with removable lid





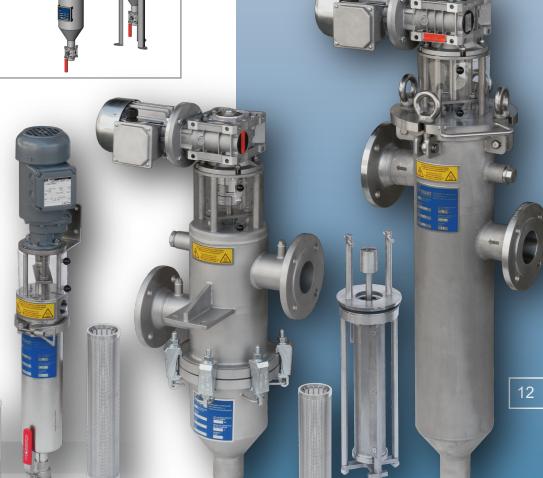
also available acc.

ATEX 2014/34/EU

Here you find detailed







Series acuraWedge KSF-1FU(C)

Self-Cleaning Wedge Wire Filter Manually / Electrical / Pneumatic

TECHNOLOGY

Scraping on the dirt side of the filter by rotating a wedge wire element

VARIANTS

Sump removable downwards,

screwed or quick closure

FILTRATION

Through slots from the outside in

DRIVES

Manually, automatially via electric

motor (230 V, 50/60 Hz) or pneumatic with ratchet drive

GASKETS

Standard FPM, others on request

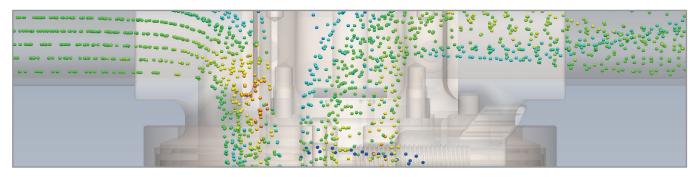
TECHNICAL DATA

Туре	IN/OUT	Material	Max. operating data	Closure	Flow rate
KSF-1FU-MA	Rp 1"	AISI 304 / AISI 316	25 bar at -10/+80°C	Screwed closure	< 4.5 m ³ /h*
KSF-1FU-AU	Rp 1"	AISI 304 / AISI 316	25 bar at -10/+80°C	Screwed closure	< 4.5 m³/h*
KSF-1FU-RA	Rp 1"	AISI 304 / AISI 316	25 bar at -10/+80°C	Screwed closure	< 4.5 m³/h*
KSF-1FUC-AU	Rp 1"	AISI 304 / AISI 316	25 bar at -10/+80°C	Quick closure	< 4.5 m ³ /h*
KSF-1FUC-AU	Rp 1"	AISI 304 / AISI 316	25 bar at -10/+80°C	Quick closure	< 4.5 m³/h*
KSF-1FUC-RA	Rp 1"	AISI 304 / AISI 316	25 bar at -10/+80°C	Quick closure	< 4.5 m ³ /h*

All filters of this series are available in two lengths. Higher temperatures, special voltages and ATEX models available on request.

APPLICATIONS

- Chocolate (cocoa mass)
- Honey (raw or hurled)
- Dispersions (colours / varnishes)
- Polymeres (resins / plastics)
- Tar products
- Waste waters



SUITABLE INSERTS

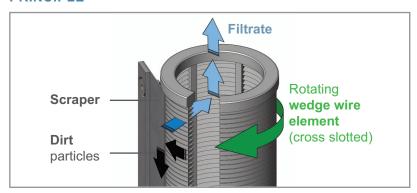
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SUITABLE OPTIOS



FUNCTIONAL PRINCIPLE



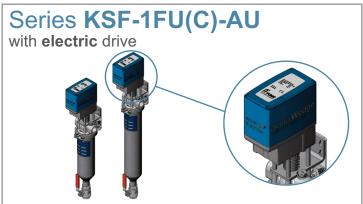
35 μm up to 3000 μm; *1 μm page 89-90

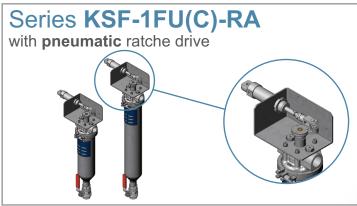


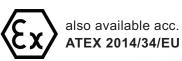
^{*} based on water at 100 µm and length 20











Here you find detailed information:







Series FMC-FB

Pneumatical Self-Cleaning Wedge Wire Filter

TECHNOLOGY

Scraping on the dirt side of the filter

by a vertical movement of a

Pneumatically: 4-6 bar

scraper in a wedge wire element

CLOSURE Clamp connection (TC)

GASKETS Standard FPM, others on request

FILTRATION Through slots from the inside out

TECHNICAL DATA

Туре	IN/OUT	Material	Max. operating data	Flow rate
FMC-FB-03-10/TC40-A2	TC40 (DIN 32676)	AISI 304	10 bar at -10/+80°C	< 3.8 m³/h*

^{*} based on water at 100 µm



Slurry

DRIVE

- Dispersion paint
- Printing inks
- Electrophoretic lacquer
- Transmission oil, rolling oil
- Plasticizers
- Silicone
- Adhesives
- Additives
- Sewage sludge

- Galvanic baths
- Dairy products (butter, cheese)
- Fruit juices & nectar (apple & pear juice)





INSERTS

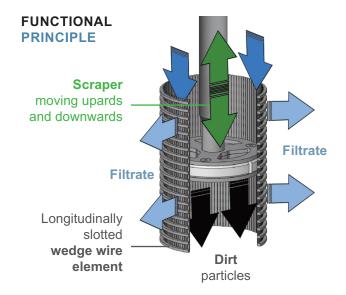
Wedge wire

> 35 µm up to 3000 µm





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Series FUHRMATIC

Inclined Belt Filter Unit

TECHNOLOGY Level controlled cleaning,

dirt particles are extracted and in

retained off into a collection tray

Different sizes available

FILTRATION Pass through the filter belt

CONTROL IEC 204/1

auxiliary voltage 24 VAC, 50 Hz

CONNECTOR 400 VAC, 50 Hz

TECHNICAL DATA

TANK

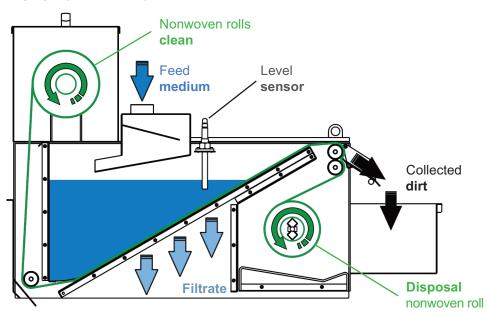
Туре	Inlet	Drain	Flow rate (I/min)	Belt width	Standard tank volume
FUHRMATIC 700L	Rp 1 1/2"	Rp 1 1/4"	250* / 150**	700 mm	540 I
FUHRMATIC 1000L	Rp 2"	Rp 2"	400* / 250**	1000 mm	720 I
FUHRMATIC SE1000L	Rp 2"	Rp 2"	800* / 500**	1000 mm	1200 I

- * The capacity measurement is done with a filter fleece 60 gr/m² and with a liquid (viscosity: 1 cSt) at 20°C.
- ** The capacity measurement is done with a filter fleece 60 gr/m² and with a liquid (viscosity: 12 cSt) at 20°C.

APPLICATIONS

- Mechanical machining
- · Grinding processes
- Process water
- · Cleaning baths
- Collants
- Oil treatment
- · Finishing emulsion
- Release of separators (centrifugal separators)
- Cleaning of KLT containers
- Waste water (treatment)
- Cooling pool of components: forgings, optic, ceramics

FUNCTIONAL PRINCIPLE



SUITABLE INSERTS



SUITABLE OPTIONS









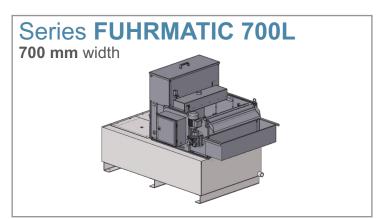
many micron rates





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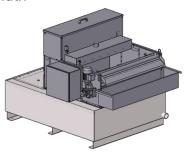
FILTER SELECTION





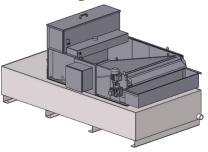


1000 mm width



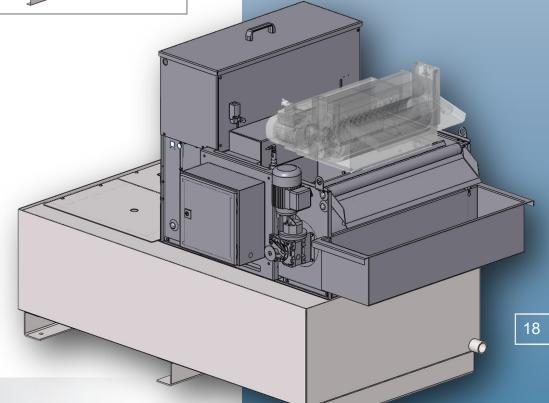
Series FUHRMATIC SE1000L

1000 mm width, larger version



Here you find detailed





Series ALSI3/4-C Series ALSI3/4-B

Stainless Steel Bag Filter Housing

Adaptable to strainer basket

TECHNOLOGY Quick or screwed closure

Size 3 and size 4 **GASKET** Standard FPM, others on request

FLEXIBILITY

FILTER AREA Size 3 with ~0.10 m² **INSTALLATION** For common filter bags of the

> Size 4 with ~0.15 m² sizes 3 and 4

TECHNICAL DATA

VARIANTS

Туре	IN/OUT	Material	Max. oper. pressure	Max. oper. temp.	Bag
ALSI3-C	Rp 1 1/2"	AISI 304 / AISI 316	10 bar	-10/+90°C	Size 3
ALSI4-C	Rp 1 1/2"	AISI 304 / AISI 316	10 bar	-10/+90°C	Size4
ALSI3-B	Rp 1 1/2"	AISI 304 / AISI 316	20 bar	-10/+90°C	Size 3
ALSI4-B	Rp 1 1/2"	AISI 304 / AISI 316	20 bar	-10/+90°C	Size 4

APPLICATIONS

- Varnish (filling & production)
- Sheet metal forming (shaping)
- Inks and paints
- · Cosmetics and food
- Process water
- Cleaning baths
- Organic solvents
- Tank filling
- Nano coatings
- Foil coatings
- Micro plastic filtration
- Generator oil
- · Cleaning machines
- Ultrasonic bath
- · Laser cooling
- · Cooling circuits

SUITABLE **FILTER BAGS**





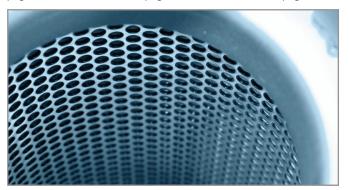
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Series ALSI3/4-B with eye-bolts and hinged lid











Series **BFOS**

Stainless Steel Bag Filter Housing **FILTER AREA** Size 1 with ~0.25 m²

Size 2 with ~0.50 m²

TECHNOLOGY Casted head for plug-and-play inst. **FLEXIBILITY** Adaptable to filter cartridges, strainer

of differential pressure measurement basket filter, high perf. filter elements

VARIANTS Single filter, double filter, duplex filter **GASKET** Standard FPM, others on request

NOVELTY Digital lid detection **INSTALLATION** For common filter bags of the

> acuraPreventor (work safety) sizes 1 and 2

TECHNICAL DATA

Туре	IN/OUT	Material	Max. oper. pressure	Max. oper. temp.	Bag
BFOS1	DN50 / Rp 2"	AISI 304 / AISI 316	10 bar	-10/+80°C	Size 1
BFOS2	DN50 / DN80 / Rp 2"	AISI 304 / AISI 316	10 bar	-10/+80°C	Size 2
2-BFOS2 Double	DN80 / DN100	AISI 304 / AISI 316	10 bar	-10/+80°C	Size 2
2-BFOS2 Duplex	DN80 / DN100	AISI 304 / AISI 316	10 bar	-10/+80°C	Size 2

APPLICATIONS

- Varnishes and coatings Process water Petrochemicals Pharmaceutical products Purification baths
- Hydrocarbons Drinking water Organic solvents Fabrics / fiber production
- Cosmetics and food Papermaking Beverage filtration

SUITABLE FILTER BAGS



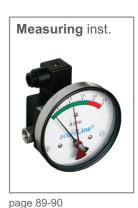
acuraBag XL/XXL





SUITABLE

OPTIONS



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Series BFOS1/2 sideliner (outlet at the bottom or sidewise)

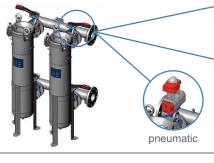


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Here you find detailed information:





Series **BFOT/S**

Stainless Steel Bag Filter Housing

FLEXIBILITY Adaptable to filter cartridges, strainer

basket filter, high perf. filter elements

TECHNOLOGY Topliner for flow optimization by

flow redirection through the lid

acuraPreventor (work safety)

GASKETS Standard FPM, others on request

INSTALLATION For common filter bags of the sizes

VARIANTS Size 1, size 2 and size 4 1, 2 and size 4, respectively

NOVELTY Digital lid detection **FILTER AREA** Size 1 with ~0.25 m²

Chemicals

Size 2 with ~0.50 m² Size 4 with ~0.15 m²

TECHNICAL DATA

Туре	IN/OUT	Material	Max. oper. pressure	Max. oper. temp.	Bag
BFOT1	DN50 / DN65 / R 2"	AISI 316	10 bar	-10/+80°C	Size 1
BFOT2	DN50 / DN65 / R 2"	AISI 316	10 bar / 16 bar	-10/+80°C	Size 2
BFOTS2	DN50	AISI 304	10 bar	-10/+80°C	Size 2
BFOT4	Rp 1"	AISI 316	10 bar	-10/+80°C	Size 4

APPLICATIONS

- Fuel filtration
- Compressors Test rigs for power units
- Edible oils Fluid injection
- Fiber production Cooling towercleaning
- · Boiler feed water
- · Leachate (treatment)
- · Cleaning systems
- Nozzle protection

SUITABLE FILTER BAGS



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SUITABLE

OPTIONS

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Series BFOT1/2 topliner size 1 and size 2



Series BFOTS2 topliner size 2



Series **BFOT4**

topliner size 4





also available acc.
ATEX 2014/34/EU

Here you find detailed information:





Series 4/6/8/12BFOS

Stainless Steel Multi Bag Filter Housing

FILTER AREA 4, 6, 8 o. 12 x size 2 each with ~ 0.5 m²

TECHNOLOGY Spring assisted lid lifting device

Digital lid detection

(safety mechanism acuraLock)

FLEXIBILITY Adaptable to filter cartridges, strainer

basket filter, filter elements etc.

VARIANTS 4-, 6-, 8-, 12-fold **GASKET** Standard FPM, others on request

> **INSTALLATION** For common filter bags of the

> > sizes 1 and 2

NOVELTY

acuraPreventor (work safety)

TECHNICAL DATA

Туре	IN/OUT	Material	Max. oper. pressure	Max. oper. temp.	Bags
4BFOS2	DN100 PN16	AISI 304 / AISI 316	10 bar	-10/+80°C	4 x Size 2
6BFOS2	DN150 PN16	AISI 304 / AISI 316	10 bar	-10/+80°C	6 x Size 2
8BFOS2	DN200 PN16	AISI 304 / AISI 316	10 bar	-10/+80°C	8 x Size 2
12BFOS2	DN250 PN16	AISI 304 / AISI 316	10 bar	-10/+80°C	12 x Size 2

APPLICATIONS

- District heating
- Stone & ceramic processing
- Drilling water (shipbuilding / shipyard)
 Filling (bottling)
- · Cosmetics and food

- Geothermal sector
- Purification baths
- Cleaning processes

- Pressure die-casting (Al/Mg)
- · Cooling lubricant
- Dismantling of nuclear power
- Sugar filtration

SUITABLE FILTER BAGS











SUITABLE OPTIONS



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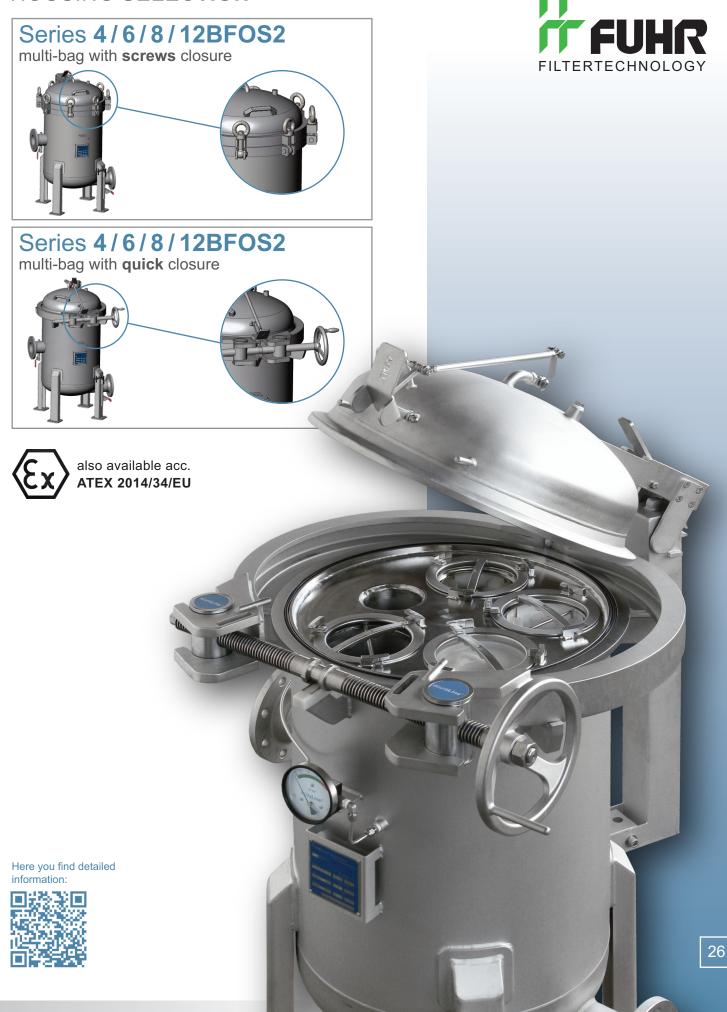












Series ALPS

Plastic Bag Filter Housing

Series **ALPT**

TECHNOLOGY

Made entirely of plastic

GASKET

Standard EPDM or FPM

VARIANTS

Size 1 and size 2, sideliner, topliner

FILTER AREA

Size 1 with ~ 0.25 m²

INSTALLATION For common filter bags of the

sizes 1 and 2

Size 2 with ~0.50 m²



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APPLICATIONS

Electroplating

Seawater

Disposal (waste water)

- Biocides / herbicides
- Acids
 - Etching bath (pickling)

Process water

Purification bath

- Waterjet cutting
- Alkaline solution
- · Electrolyte baths
- Coating technology





SUITABLE

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FILTER BAGS acuraBag®



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Here you find detailed information:



ALPS



ALPT

Series **PBH**

Plastic Bag Filter Housing

TECHNOLOGY Injection-moulded head with

integrated bag support

Size 410 with ~ 0.10 m² Size 420 with ~ 0.15 m²

VARIANTS Size 410: 102x218 mm Size 410 and size 420 **BAG SIZE**

Size 420: 102x457 mm

Standard NBR, others on request **GASKET**

TECHNICAL DATA

Туре	IN/OUT	Material	Max. oper. pressure	Max. oper. temp.	Bag
PBH 410	Rp 1" / Rp 1 1/2"	Polypropylene	6.5 bar	38°C	Size 410
PBH 420	Rp 1 1/2"	Polypropylene	6 bar	38°C	Size 420

FILTER AREA

APPLICATIONS

- Water treatment
- Cogeneration plant
- Drinking water
- Dampening solution (offset printing)
- Process water
- Diluted vinegar
- Finishing (grinding / honing)

SUITABLE

OPTIONS

- Machining (gemstones, diamonds)
- Cleaning modules
- Irrigation systems
- · Pickling / preserving
- Optical industry (lenses)

SUITABLE **FILTER BAGS**



Filter bag BN page 37-38







page 87-88 page 89-90

page 37-38















Accessories

Bag Filter Housings BFOS / BFOTS

ADDED VALUE acuraLine® accessories make work easier, make filtration perfect. increase process reliability, turn a bag filter housing into a multifunctional filter housing

ADDITION IN THE FILTER BAG



- Material: Stainless steel 1.4301 (AISI 304)
- Bag filter size 1 or size 2
- · Bag is entirely "unfolded"
- · Can remain in the filter bag during filtration process



- Material: Stainless steel 1.4301 (AISI 304)
- Bag filter size 1 or size 2
- · For 1 to 3 magnet bars per bracket
- 9000 Gs per magnet bar (neodymium)
- Operation at 10 bar / -10/+90°C



MULTIFUNCTION HOUSING







- Material: Stainless steel 1.4401
- · Bag filter size 1 or size 2
- Micron rates: 2 up to 3000 µm
- Support with the genuine bag fixing unit and the lid of the BFOTS, respectively

Stainless steel 1.4301 (AISI 304)

washable

Material:

· Set of two brackets

• O-ring sealing: < 100 μm



· Material:

Stainless steel 1.4301 (AISI 304)

- Bag filter size 1 or size 2
- For 4 cartridges at a time (DOE o. 222)
- Size 1 (cartridge length): 248-254 mm
- Size 2 (cartridge length): 496-508 mm
- · Max. cartridge diameter: 65 mm
- O-ring sealing



USEFUL ACCESSORIES



Wall brackets









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- Material: Stainless steel
- For BFOS size 1 and size 2 only
- · Output to an inductive sensor
- Voltage: 10...36 V DC
- Consumption: 10 mA (24 V)
- · Current carrying capacity: 200 mA
- Protection class: IP 67



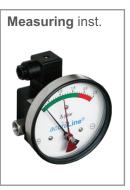
- · Material: PAGF/stainless steel
- Comfortable handling
- · Well-balanced leverage



OTHER ACCESSORIES



page 87-88



page 89-90







- Material: Stainless steel 1.4301 (AISI 304)
- Bag filter size 1 or size 2
- Displacement volume size 1: 2.2 l
- Displacement volume size 2: 5.7 l
- Operation at 10 bar / -10/+90°C

Container



- Material: Stainless steel 1.4301 (AISI 304)
- Bag filter size 1 or size 2
- Protective filter: 5 μm
- Floating protection: 50 μm
- Lid and bottom made of stainless steel multi-layered composite mesh
- Fillable with activated carbon / resin







*except Type: PPN-OA

Size 1 | Size 2 | Size 3 | Size 4

Size 1 | Size 2 | Size 3 | Size 4

Size 1 | Size 2 | Size 3 | Size 4

Size 1 | Size 2 | Size 3 | Size 4

Size 1 | Size 2 | Size 3 | Size 4



TECHNOLOGY

Thermally welded joints, sealing

collar made of bag material

FILTRATION

Type

From the inside out, no contamination of clean side, Type PPN-OA oil-adsorbing

Polypropylene needle felt

Polypropylene monofil

PP microfiber needle felt

Polyester needle felt

Polyester monofil

Nylon monofil

Material

FILTER AREA

0.07 m² up to 0.5 m²

VARIANTS

Monofil, needle felt or depth filter oil-adsorbing

INSTALLATION

Δр

2.5 bar

2.5 bar

2.5 bar

2.5 bar

2.5 bar

Perfect sealing in every customary bag filter

Bags

housing

Temperature

max. 90°C max. 90°C

max. 120°C

max. 90°C

max. 90°C

2.5 bar max. 120°C

TECHNICAL DATA

acuraBag PPN

acuraBag PPM

acuraBag PSN

acuraBag PSM

acuraBag PAM

acuraBag PPN-OA

	<u></u>		
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- Lacquers and coatings
- Pharmaceutical products
- Drinking water
- Cosmetics and food

Series ALBF1/2

Cracking process

25 µm

- · Purification baths
- Gel particles separation

Finenesses

1 up to 200 µm

100 up to 800 µm

1 up to 200 µm

50 up to 800 μm

1 up to 1200 µm

Oil separation

- Petrochemicals
- Hydrocarbons
- Structural protection / sealing

Size 1 | Size 2

· Beverage filtration / distillation

SUITABLE BAG FILTER HOUSINGS













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on request

Series **BFOT4**













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page 23-24



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page 27-28



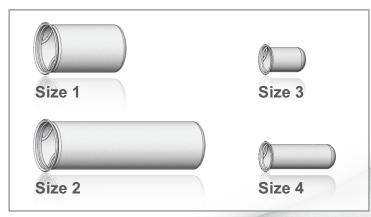
FILTER SELECTION







STANDARD SIZES



Size 1	Size 2	Size 3	Size 4
$A = \sim 0.25 \text{ m}^2$	$A = \sim 0.50 \text{ m}^2$	$A = \sim 0.07 \text{ m}^2$	$A = \sim 0.12 \text{ m}^2$
V = 8 I	V = 17 I	V = 1.4 I	V = 2.5 I
Ø 178 mm	Ø 178 mm	Ø 102 mm	Ø 102 mm
L= 420 mm	L= 815 mm	L= 223 mm	L= 380 mm

Here you find detailed information:



acuraBag XL

2-layered Filter Bag

acuraBag XXL

3-layered Filter Bag

STRUCTURE

TECHNOLOGY Thermally welded joints, sealing

collar made of bag material

FILTRATION From the inside out, no

contamination of clean side

INSTALLATION Perfect sealing in every

customary bag filter housing

needle felt technology

Multi-layered meltblown fleece &

FILTER AREA 0.25 m² up to 0.5 m²



TECHNICAL DATA

Туре	Material	Micron rates	Δр	Temperature	Bag
acura Bag PPN-XL	Polypropylene needle felt	1 up to 100 µm	2.5 bar	max. 90°C	Size 1 I Size 2
acuraBag PSN-XL	Polyester needle felt	1 up to 100 μm	2.5 bar	max. 120°C	Size 1 I Size 2
acura Bag PPN-XXL	PP needle felt/fleece	0.5 up to 20 μm (99% abs.)	2.5 bar	max. 90°C	Size 1 I Size 2
acura Bag PSN-XXL	Polyester needle felt/fleece	0.5 up to 20 µm (99% abs.)	2.5 bar	max. 120°C	Size 1 I Size 2



APPLICATIONS

- Lubricants, greases
- Punching & drawing oils
- Healthcare products
- Medical technology

- Process water
- · Sanitary products
- Phase separation / coalescence
- Filtration of polishing agents
- Protein separation
- Cellulose industry
- Alcohols (raw alcohol)
- Pre-sedimentation (syrup / juice)





on request



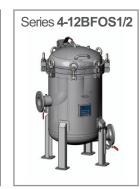
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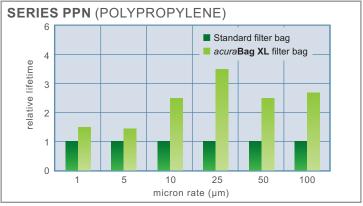
page 27-28

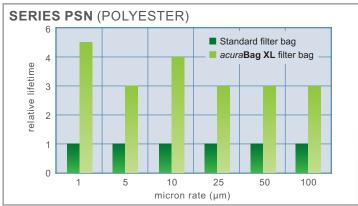


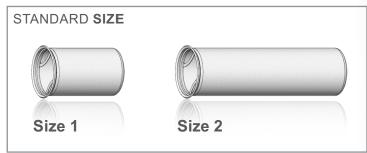
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Size 1	~0.25 m²	81	Ø 178 mm	L= 420 mm
Size 2	~0.50 m²	17 I	Ø 178 mm	L= 815 mm

Here you find detailed information:





Compliant to standard







Filter bag BP/BN

Standard Filter Bag

TECHNOLOGY

Thermally welded joints, sealing

collar made of bag material, depth filter material with high

PP needle felt, nylon monofil

dirt holding capacity

FILTRATION

From the inside out, no

contamination of clean side

COSTS

Low-priced filter bags

INSTALLATION In housings of series PBH

VARIANTS

TECHNICAL DATA

Туре	Material	Micron rates	Δр	Temperature	Bag
Bag BP	Polypropylene needle felt	1 up to 200 μm	3 bar	max. 38°C	410: 102x218 mm
Bag BN	Nylon monofil	50 up to 800 μm	3 bar	max. 38°C	420: 102x457 mm

APPLICATIONS

- · Waste water
- Coarse filtration
- Dirt trap
- Osmosis (reverse osmose water)
- Process water
- Purification baths
- Wash basin
- Ballast water

- · Demineralized water
- Emulsions
- · Dosing systems
- Bypass filtration





Series PBH

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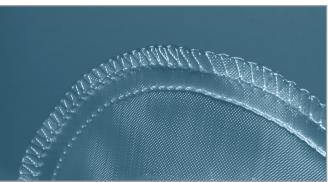




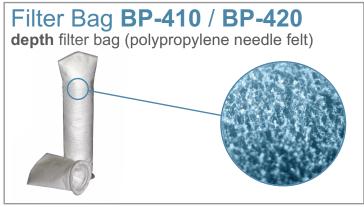






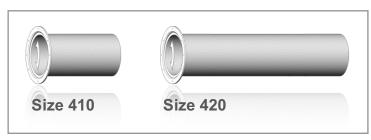








STANDARD SIZES



Size	Bag length	Bag diameter
410	218 mm	102 mm
420	457 mm	102 mm

Compliant to standard



CFR Titel 21



EU 1935/2004







acuraFlex PRO+

High Performance Filter Element

Lifetime and dirt holding capacity **MAXIMUM**

increases by a multiple

FILTER AREA Up to 6.0 m²

(depending on the variant)

TECHNOLOGY Patented bag collar

with flex lip

FILTRATION From the inside out, no

contamination of clean side

VARIANTS 4 different filter matrixes **NOVELTY** Benefits of conventional filter

bags / filter cartridges combined

in one single element

INSTALLATION Usable in every customary bag filter

housing without the need of any adaptor

TECHNICAL DATA

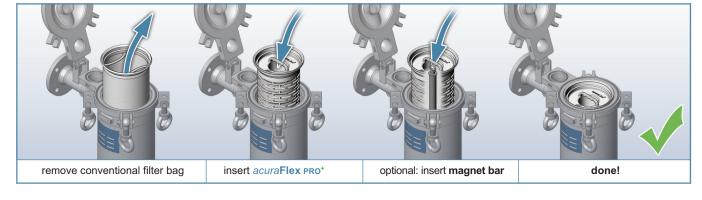
Туре	Material	Micron rates	Δp 20°C	Δp 80°C	Temperature (PBT)	Bag
acura Pleat PRO⁺	PP, PBT	0.2, 0.45, 1, 5, 10, 20, 40, 70 µm	3 bar	1.3 bar	-10/+80°C (100°C)	Size 1 I Size 2
acura Space PRO ⁺	PP	2, 5, 10, 20, 40, 70 µm	2.5 bar	1.3 bar	-10/+80°C	Size 1 I Size 2
acuraMeltflow PRO*	PP, PBT	1, 5, 10, 20, 40, 70, 100 μm	2.4 bar	1.0 bar	-10/+80°C (100°C)	Size 1 I Size 2
acuraOil PRO+	PP	25 µm	2.4 bar	1.0 bar	-10/+80°C	Size 1 I Size 2

APPLICATIONS

- · Water treatment
- Pharmaceutical products
- Grinding oil purification / treatment
- Dairy products (whey & starch)
- Heating water circuit
- Hot water (steam)
- Condensate filtration
- Dye-mixing plant

- Oxidation & rust removal
- Removal of agglomerates
- Bottling lines / dosing systems
- Beverage filtration (softdrinks)

RETROFITTING FROM BAG TO acuraFlex PRO*



SUITABLE BAG FILTER HOUSINGS



Series BFOS1/2



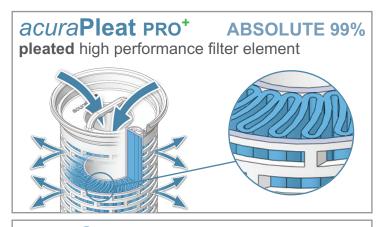




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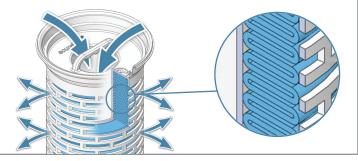






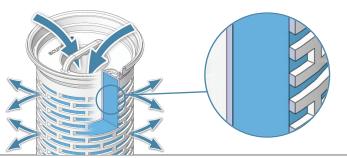






acura Meltflow PRO* NOMINAL 80%

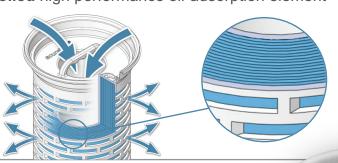
depth filter high performance filter element



acuraOil PRO+

NOMINAL 80%

rolled high performance oil-adsorption element



Here you find detailed



Compliant to standard



CFR Titel 21



EU 1935/2004



Series 1FU

with Screwed Closure (DOE/222)

Series 1FUCB

with Quick Closure (226)

TECHNOLOGY Modular and adaptive system / differential pressure measurement

> Heating with heating jacket or welded double jacket /

process connections as required

Series 1FUC

with Quick Closure (DOE/222)

VARIANTS Screwed closure or auick closure

5", 10", 20", 30" or 40" **LENGTHS**

GASKETS Standard FPM, others on request

TECHNICAL DATA

SPECIAL

Туре	IN/OUT	Material	Max. oper. data	Closure	Cartr. adaptor			
1FU	Rp 1"	AISI 304 / AISI 316	25 bar at -10/+80°C	Rounded thread	DOE / 222			
1FUC	Rp 1"	AISI 304 / AISI 316	25 bar at -10/+80°C	TC-Triclamp	DOE / 222			
1FUCB Rp 1" AISI 316		25 bar at -10/+80°C	TC-Triclamp	226 (bayonet)				
	All housings in this series are available for 5" 10" 20" 30" and 40" filter cartridges							

All housings in this series are available for 5°, 10°, 20°, 30° and 40° filter cartridges.

APPLICATIONS

- Varnish and dispersions
- Coatings for cans
- Drinking water
- Injection fluids

- Fresh water
- Cleaning cell
- Mining (jet water HFA)
- Mine aeration

- Painting fault (dots)
- Cooling (ovens, engines)
- · Removal of painting fault particles

SUITABLE FILTER CARTRIDGES



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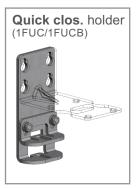


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SUITABLE OPTIONS



with screws





10" or 20"



plastic / stainless steel (EX) page 89-90

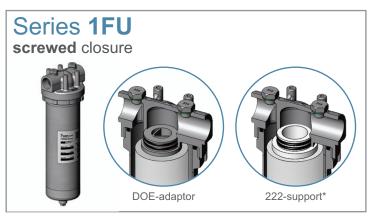








HOUSING SELECTION









Extension available:



CFR Titel 21

ATEX 2014/34/EU



EU 1935/2004

Here you find detailed





5FWK / 7FWK

with Hinged Cast Lid

VARIANTS

FWK with eye-bolts and

ring nuts

CARTR. LENGTH 10", 20", 30" or 40" (5-fold / 7-fold)

FWC with quick closure clamp

5FWC / 7FWC

Stainless Steel Cartridge Filter Housing Stainless Steel Cartridge Filter Housing with Quick Closure Clamp

INSTALLATION All common DOE-filter cartridges or

222-adaptor filter cartridges

GASKET

Standard FPM, others on request

TECHNICAL DATA

Туре	IN/OUT	Material	Max. operating data	Closure	Foothold			
FWK-A2	DN50 / Rp 2"	AISI 304	10 bar at -10/+80°C	Hinged cast lid	Bottom lugs			
FWK-A4	DN50 / Rp 2"	AISI 316	10 bar at -10/+80°C	Hinged cast lid	Tripod stand (adjustable)			
FWC-A2	DN50 / Rp 2"	AISI 304	10 bar at -10/+80°C	Quick closure	Bottom lugs			
	All housings in this series are available for 10", 20", 30" and 40" filter cartridges.							

APPLICATIONS

- Water supply
- Disinfectants
- · Drinking water / reverse osmosis
- Demineralized water
- Cooling water
- Well water/spring water
- · Food additives / flavours
- Foodstuff (vitamins / mixtures)
- · Protection of mechanical seals
- Watering
- · Pipe filter
- · Cooling plants / air conditioning



SUITABLE FILTER CARTRIDGES



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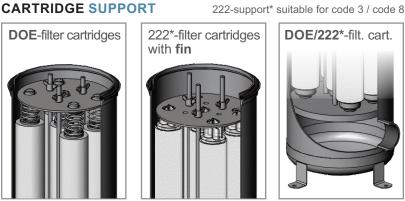
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SUITABLE OPTIONS









upper detail

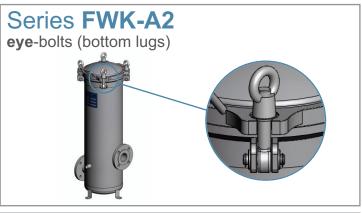


lower detail

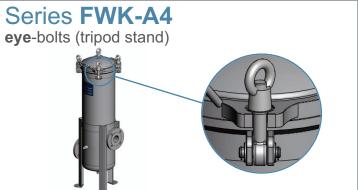




HOUSING SELECTION











Here you find detailed information:





Series 1SFB

Series 3SFB Single Sanitary Cartridge Filter Housing 3-fold Sanitary Cartridge Filter Housing

Series 5SFB

5-fold Sanitary Cartridge Filter Housing

TECHNOLOGY Free of dead space, completely

grinded (Ra < 0.8 µm) and e-polished

filter cartridges (Code 2/Code 7)

GASKETS Standard MVQ in single housings FPM in multi-fold housings,

INSTALLATION All common 226-bayonet adaptor

others on request

VARIANTS

1, 3 or 5 filter cartridges

CARTR. LENGTH 10", 20" or 30"

TECHNICAL DATA

Type	IN/OUT	Material	Gaskets	Max. oper. pressure	Max. oper. temperature
1SFB	TC-triclamp 1"	AISI 316L	MVQ (FDA)	6 bar	-10/+80°C
3SFB	Welding end 1 1/2" V-flange DN40 PN16 Dairy pipe MR40-G TC-triclamp 1 1/2"	1.4404	FPM (FDA)	8 bar (liquid) -1/+3.5 bar (gaseous)	-10/+90°C (liquid) -10/+140°C (gaseous)
5SFB	Welding end 2" V-flange DN50 PN16 Dairy pipe MR50-G TC-triclamp 2"	1.4404	FPM (FDA)	8 bar (liquid) -1/+3.5 bar (gaseous)	-10/+90°C (liquid) -10/+140°C (gaseous)
				f	

All housings in this series are available for 10", 20" and 30" filter cartridges.



APPLICATIONS

- Lacquers and coatings
- Pharmaceutical precursors
- Sterile water
- Food & beverages

- Liquors / brandy
- · Liquid sugar
- Organic solvents
- Inkjet

- · Laboratory filtration
- Bottling
- Natural oils
- · Glycol fluids





Membrane filter cartridges







SUITABLE

page 87-88





HOUSING SELECTION









Series 5SFB five-fold





also available acc.
ATEX 2014/34/EU

Extension available:



CFR Titel 21

EU 1935/2004

Here you find detailed information:





Series FFU

Plastic Cartridge Filter Housing

TECHNOLOGY Injection-moulded head, depending on

type with venting button in the head

PP, PP/SAN, PP natural or PA CARTR. LENGTH 5", 10" or 20"

VARIANTS

TECHNICAL DATA

Туре	IN/OUT	Material	Max. oper. pressure / temperature		Adaptor	Cartridge length
FFU-Q	Rp 3/4"	PP, PP/SAN	8.5 bar	50°C	DOE	10" / 20"
FFU-Q-SL*	Rp 3/8" / Rp 1/2"	PP, PP/SAN	8.5 bar	50°C	DOE	5" / 10"
FFU-N	Rp 3/4"	PP natural	6.9 bar	38°C	DOE / 222	10" / 20"
FFU-R	Rp 3/4"	PA	8.6 bar	74°C	DOE	10" / 20"
FFU-B**	Rp 1"/Rp 1 1/2"*1	PP	6.5 bar/6.0 bar*1	40°C	DOE	10" / 20"

The addition "-E" in the denomination represents the venting button.

APPLICATIONS

- · Water treatment
- Diluted alkaline solutions
- Diluted acids
- Sheet metal working
- · Process water
- · Purification bath
- · Organic solvents

SUITABLE

OPTIONS

· Oil separation

- Chemicals
- Venting

Series FFU-B

"Big Blue" Cartridge Filter Housing

INSTALLATION DOE-filter cartridges (double open end)

or 222-filter cartridges (code 3)

- · Waste water
- Pump protection

SUITABLE FILTER CARTRIDGES



page 53-64



Membrane

filter cartridges



with screws

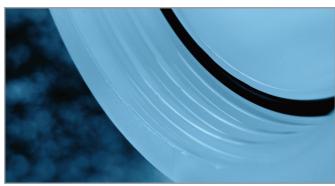


for Code 3 (222-f.cartr.)



plastic









^{*} max. cartridge diameter 65 mm

^{**} max. cartridge diameter 114 mm, see page 61-62

HOUSING SELECTION

Series FFU-Q and FFU-Q-SL made of polypropylene o. PP/SAN SL: "Slimline"



Series FFU-N

made of polypropylene natural



Series FFU-R

made of polyamide for higher temperatures



Series FFU-B

for larger cartridge diameters



Here you find detailed information:





Series AC-P

Plastic Cartridge Filter Housing

TECHNOLOGY Double-O-ring sealing (flexible)

VARIANTS Sump PP or SAN

GASKETS Standard NBR, others on request

Series ACBB-P

"Big Blue" Cartridge Filter Housing

INSTALLATION DOE-filter cartridges (double open end)

CARTR. LENGTH 9 3/4", 9 7/8", 10" or 20"

TECHNICAL DATA

Туре	IN/OUT	Material	Max. oper. press	sure / temperature	Vent	Cartridge length
AC-PP1	Rp 3/4"	PP	5.8 bar	38°C	without	9 3/4"
AC-PPE1	Rp 3/4"	PP	5.8 bar	38°C	with	9 3/4"
AC-PP2	Rp 3/4"	PP	5.8 bar	38°C	without	20"
AC-PPE2	Rp 3/4"	PP	5.8 bar	38°C	with	20"
AC-PC1	Rp 3/4"	PP / SAN	5.8 bar	38°C	without	9 3/4"
AC-PCE1	Rp 3/4"	PP/SAN	5.8 bar	38°C	with	9 3/4"
ACBB-PE1*	Rp 1" / Rp 1 1/2"	PP	5.8 bar	38°C	with	9 3/4" up to 10"
ACBB-PE2*	Rp 1 1/2"	PP	5.8 bar	38°C	with	20"

^{*} max. cartridge diameter 114 mm, see page 61-62

APPLICATIONS

- · Water supply
- Machine supply
- Diluted alkaline solutions / acids
- Drinking water network
- Waste water
- Rinsing basins
- Suction
- Oil separation

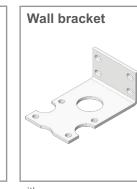
- Solvents
- Venting
- · Coarse filter
- Pump protection

SUITABLE FILTER CARTRIDGES



page 53-64

Membrane filter cartridges



SUITABLE OPTIONS

Opening wrench

with screws plastic





page 65-68





HOUSING SELECTION

Series AC-PP made of polypropylene



Series AC-PC

made of polypropylene/SAN



Series ACBB-P

for larger cartridge diameters









Series SFPP

Multi-Fold Plastic Cartridge Filter Housing

TECHNOLOGY Polypropylene block construction **GASKETS** Standard EPDM, others on request

INSTALLATION DOE-filter cartridges (double open end), CARTR. LENGTH 10", 20", 30" or 40" alternatively 222-adaptor (Code 3 / Code 8)

TECHNICAL DATA

Туре	IN/OUT	Material	Max. oper. pressure / temperature	Cartridge length	Amount of cartridges
3SFPP	DN40	Polypropylene	3 bar at 60°C / 6 bar at 30°C	10", 20", 30", 40"	3
4SFPP	DN40	Polypropylene	3 bar at 60°C / 6 bar at 30°C	10", 20", 30", 40"	4
6SFPP	DN50	Polypropylene	3 bar at 60°C / 6 bar at 30°C	10", 20", 30", 40"	6
7SFPP	DN50	Polypropylene	3 bar at 60°C / 6 bar at 30°C	10", 20", 30", 40"	7

APPLICATIONS

- Electroplating
- Strong acids
- Strong alkalis
- Seawater

- Process water
- Purification baths
- Coating baths
- Chemicals

- Electrolyte solution
- · Circuit board manufacturing
- Humectant
- Tank filling



SUITABLE **FILTER CARTRIDGES**



Membrane filter cartridges

page 53-64

page 65-68









HOUSING SELECTION







Here you find detailed information:



acura Multiflow®

Depth Filter Cartridge (nominal)

acura Promelt®

Depth Filter Cartridge (absolute)

TECHNOLOGY Stable matrix, asymmetric structure,

> 100% PP, no fiber release using patented melt-blown procedure

FILTRATION Retention rate acuraMultiflow®:

nominal (80%)

Retention rate acuraPromelt®:

absolute (99,9%)

VARIANTS 6 different adaptor types

MICRON RATES 0.5 up to 100 µm

Inner diameter: 28 mm MEASUREM.

Outer diameter: 63 mm

LENGTHS 9 7/8" up to 40"

TECHNICAL DATA

Туре	Material	Micron rates	Δp 20°C	Δp 60°C	Δp 80°C	Temperature	Cartr. length
acura Multiflow ®	Polypropylene	0.5 up to 100 µm	3.2 bar	1.8 bar	-	max. 60°C	9 7/8" up to 40"
acura Promelt ®	Polypropylene	1.0 up to 100 µm	4.2 bar	2.1 bar	1.2 bar	max. 80°C	9 7/8" up to 40"



- Resin and paint
- Magnet dispersion, CD production
- Photographic emulsions
- Photo resist
- Film and paper coating
- Ink (Inkjet)

- Solvents and fine chemicals
- Process water boiler feed water
- Food and beverages
- Process chemicals
- Cosmetics
- Prelim. filtration of demineralized water
 Cleaning systems
- Intermediate pharmaceuticals
- · Acids and bases
- Demineralized & ultrapure water
- Drinking water
- Water treatment

SUITABLE

CARTRIDGE FILTER HOUSINGS



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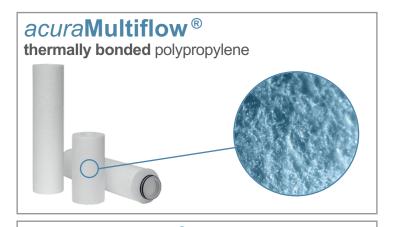


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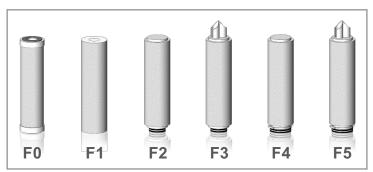






acuraPromeIt® thermally bonded polypropylene (compressed)

SUPPORT ADAPTORS filter cartridges



F0	F1	F2
DOE	DOE	Code 3
Flat gasket	Open	Flat
Flat gasket	Open	222-adaptor
F3	F4	F5
Code 8	Code 2	Code 7
Fin	Flat	Fin
222-adaptor	226-bayadaptor	226-bayadaptor

Here you find detailed



Compliant to standard









acura Pure

Depth Filter Cartridge (Nylon - PA)

acuraPEpro

Depth Filter Cartridge (Polyester - PBT)

6 different adaptor types

TECHNOLOGY Stable matrix, asymmetric structure,

100% PA or PBT, no fiber release using

patented melt-blown procedure

MICRON RATES 1 up to 100 μm

LENGTHS 9 3/4" or 9 7/8" up to 40" respectively

Nom. retention rate *acura***Pure**: 90% Abs. retention rate *acura***PEpro**: 99,9% MEASUREM. Inner diameter: 28 mm

VARIANTS

Outer diameter: 63 mm

TECHNICAL DATA

FILTRATION

Туре	Material	Micron rates	Δp 20°C	Δp 60°C	Δp 80°C	Temperature	Cartr. length
acura Pure	Polyamide (nylon)	1 up to 100 µm	2.5 bar	1.0 bar	-	max. 125°C	9 3/4" up to 40"
acura PEpro	Super-PBT (polyester)	1 up to 100 µm	4.2 bar	2.1 bar	1.2 bar	max. 120°C	9 7/8" up to 40"

APPLICATIONS

- Mineral oil
- · Process and waste water
- Removal of suspended solids
- Fine chemicals
- Enzymes

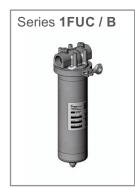
- · Varnish and Paints
- Plant protection agents
- Acids and bases
- Solvents
- Luxury food

SUITABLE

CARTRIDGE FILTER HOUSINGS



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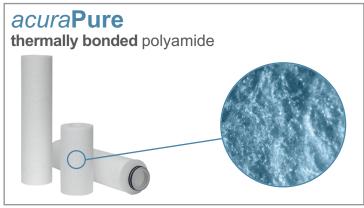


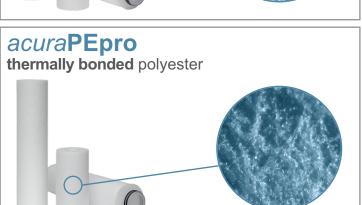
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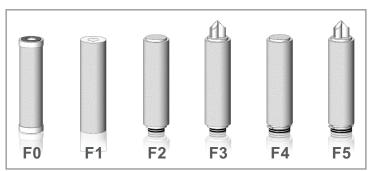
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SUPPORT ADAPTORS filter cartridges



F0	F1	F2
DOE	DOE	Code 3
Flat gasket	Open	Flat
Flat gasket	Open	222-adaptor
F3	F4	F5
Code 8	Code 2	Code 7
Fin	Flat	Fin
222-adaptor	226-bayadaptor	226-bayadaptor

Here you find detailed



Compliant to standard (acuraPEpro only)



CFR Titel 21



EU 1935/2004





acura Phenolic APH

Depth Filter Cartridge (nominal)

TECHNOLOGY Phenolic resin bonded, stable

filter structure, asymmetric structure

INSTALLATION In customary DOE-cartridge filter housings (or with DOE-adaptor for 222/226)

FILTRATION Retention rate nominal (80%) MICRON RATES 2 up to 150 μm

MEASUREM. Inner diameter: 26,9 mm LENGTHS 9 7/8" up to 50"

Outer diameter: 65,0 mm

TECHNICAL DATA

Type	Type Material		Micron rates	Δp 20°C	Δp 121°C	Temperature	Cartr. length
acuraPhe	nolic Ph	enolic resin w. acryl. fibers	2 - 150 μm	9 bar	1.7 bar	max. 121°C	9 7/8" up to 50"

APPLICATIONS

- Plasticizers
- · Purification baths
- Polymeres
 (synthetic and natural resins)
- Glues
- Synthetics
- · Process water

- Laminate production
- · Metal cutting processes
- Eroding processes
- · Chemical applications
- Organic solvents
- · Varnish and paints



SUITABLE

CARTRIDGE FILTER HOUSINGS



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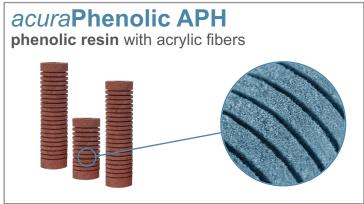
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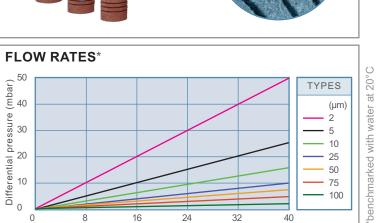










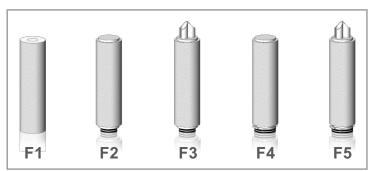




SUPPORT ADAPTORS filter cartridges

Flow (I/min/10")

40



F1	F2	F3
DOE	Code 3	Code 8
Open	Flat	Fin
Open	222-adaptor	222-adaptor
F4	F5	
Code 2	Code 7	
Flat	Fin	
226-bayadaptor	226-bayadaptor	

Here you find detailed





acuraBond

Depth Filter Cartridge (nominal)

TECHNOLOGY Stable inner matrix by the use of

thermally welded fibers

MEASUREM. Inner diameter: 27 mm
Outer diameter: 64 mm

VARIANTS 6 different adaptor types MICRON RATES 1 up to 350 μm

FILTRATION Retention rate nominal (80%) LENGTHS 9 3/4" up to 50"

TECHNICAL DATA

Туре	Material	Micron rates	Δp 20°C	Temperature	Cartr. length
acuraBond PP	Polyethylene coated polypropylene	1 up to 350 µm	5.5 bar	max. 80°C	9 3/4" up to 50"
acura Bond PS	Copolymer-polyester coated polyester	1 up to 350 μm	5.5 bar	max. 120°C	9 3/4" up to 50"

APPLICATIONS

- Primer (adhesion promoter)
- Fine / protective varnish
- Gel filtration
- Smoke deduction
- Phase separation (extraction)
- Police filters
- Oxidation baths
- · Inks und paint
- Synthetics
- Hydrocarbons

- Organic solvents (alcohol e.g.)
- · Magnet band suspensions
- Point-of-use filter

SUITABLE

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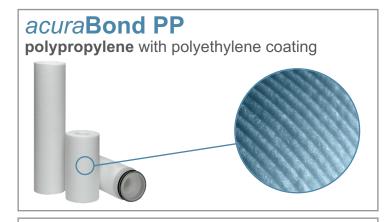
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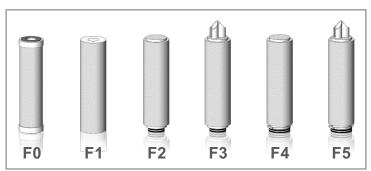






acuraBond PS polyester with copolymer-polyester coating

SUPPORT ADAPTORS filter cartridges



F0	F1	F2
DOE	DOE	Code 3
Flat gasket	Open	Flat
Flat gasket	Open	222-adaptor
F3	F4	F5
Code 8	Code 2	Code 7
Fin	Flat	Fin
222-adaptor	226-bayadaptor	226-bayadaptor

Here you find detailed information:





acura Maxiline

Depth Filter Cartridge (nominal)

TECHNOLOGY Stable matrix, asymmetric structure,

100% PP, no fiber release using patented melt-blown procedure

INSTALLATION In DOE-cartridge filter housings

with large outer diameter

FILTRATION Retention rate nominal (80%) MICRON RATES 1 up to 100 μm

LENGTHS 9 7/8" up to 40"

MEASUREM. Inner diameter: 28 mm

Outer diameter: 114 mm

TECHNICAL DATA

Туре	Material	Micron rates	Δp 20°C	Δp 52°C	Temperature	Cartr. length
acura Maxiline	Polypropylene	1 up to 100 µm	3.2 bar	1.8 bar	max. 52°C	9 7/8" up to 40"

APPLICATIONS

- Resins and paints
- Storage media
- Well screen
- Oil separation
- Processes in PCB industry
- Cleaning processes
- Solvents and fine chemicals
- Process water boiler feed water
- Acid baths
- · Prefiltration of demineralized water
- Plant engineering
- · Process chemicals
- Cosmetic products

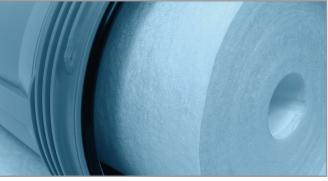
SUITABLE **CARTRIDGE FILTER HOUSINGS**

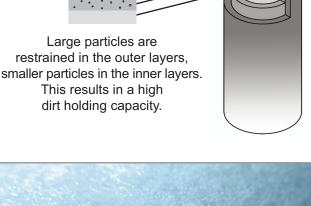


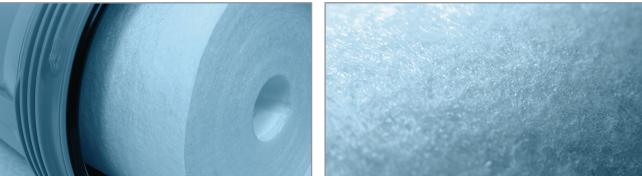














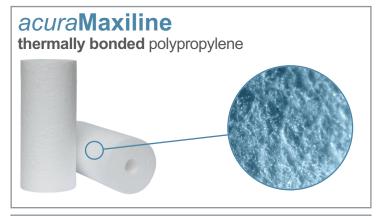




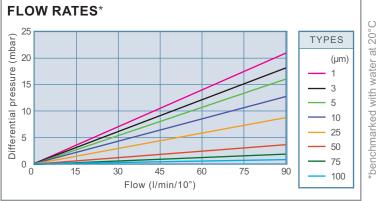




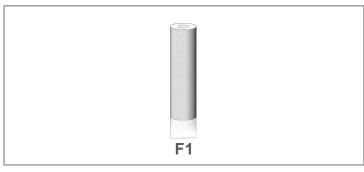








SUPPORT ADAPTORS filter cartridges



F1
DOE
Open
Open

Here you find detailed



Compliant to standard



CFR Titel 21



EU 1935/2004

acuraWound

Depth Filter Cartridge (nominal)

INSTALLATION In DOE-cartridge filter housings

(or with DOE-adaptor)

TECHNOLOGY Spirally wounded filter cartridge MICRON RATES 0.5 up to 150 μm

FILTRATION Retention rates nominal (80%) LENGTHS 9 3/4" up to 40"

VARIANTS Cotton, polypropylene or fibrillated MEASUREM. Inner diameter: 27 mm

polypropylene, glass silk Outer diameter: 63 mm

TECHNICAL DATA

Туре	Material	Micron rates	Δp max.	Temperature	Cartr. length
WC-S	Cotton / 1.4301	1 up to 150 μm	4.8 bar	max. 120°C	9 3/4" up to 40"
WP	Polypropylene	1 up to 150 μm	4.8 bar	max. 60°C	9 3/4" up to 40"
WF	Fibrillated polypropylene	1 up to 150 μm	4.8 bar	max. 60°C	9 3/4" up to 40"
WK-S	Glas silk / 1.4301	0.5 up to 100 µm	8.0 bar	max. 450°C	9 3/4" up to 40"

APPLICATIONS WC-S

- Diluted acids (<1%)
- Diluted alkaline solutions (<5%)
- Drinking water
- Beverages
- Food

APPLICATIONS WP / WF

- Strong acid
- Concentrated lyes
- Photochemicals
- Galvanic baths
- Strong oxidizing agents

APPLICATIONS WK-S

- High temperatures
- Filtration in ATEX areas
- · Chemial applications
- · Condensation water
- · Hot gas filtration

SUITABLE

CARTRIDGE FILTER HOUSINGS



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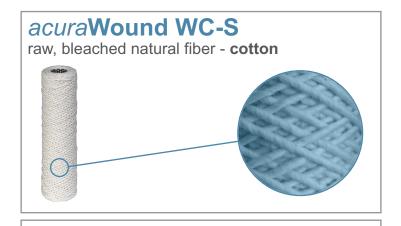
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acuraWound WK-S borosilicate fiber - glass silk

SUPPORT ADAPTORS filter cartridges



F1 DOE Open Open

Here you find detailed



Compliant to standard



CFR Titel 21



EU 1935/2004

acura Proflow®

Pleated Polypropylene Filter Cartridge (absolute)

TECHNOLOGY Multi-layered and solide structure

STRUCTURE Thermically welded structure,

free of adhesives and binding agents

STERILIZATION 30 min steam sterilizable at 121°C

QUALIFICATION Materials comply with USP XXIII as

well as FDA and EU 1935/2004

FILTRATION Retention rates absolute (99.9%)

MICRON RATES 8 separation rates of 0.2 up to 50 μm

MEASUREM. Inner diameter: 28 mm

Outer diameter: 69 mm

LENGTHS 4.87" up to 40"



TECHNICAL DATA

1	Гуре	Material	Micron rates	Δp 20°C	Δp 95°C	Temperature	Cartr. length
ć	acura Proflow ®	Polypropylene	0.2 up to 50 µm	4.9 bar	1.4 bar	max. 95°C	4.87" up to 40"



APPLICATIONS

- Prefilter for membrane filters
- Process filtration in CD/DVD production
- Food and beverages
- Skin care products

- Hair and body lotions
- · Acids and bases
- · Solvents, reagents
- · Catalyst recovery

- Disinfectant (infection protection)
- Demineralized water / water treatment
 Cosmetics and prefiltration of pharmaceutical products
 - Air washer
 - · Food additives



SUITABLE

CARTRIDGE FILTER HOUSINGS



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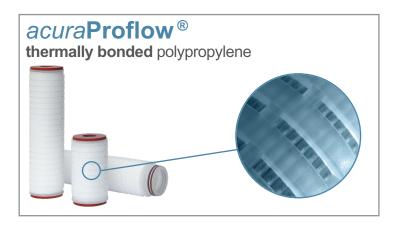


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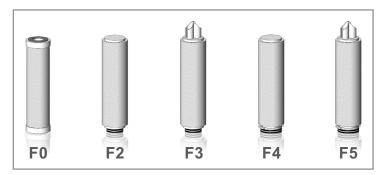
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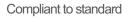




SUPPORT ADAPTORS filter cartridges



F0	F2	F3
DOE	Code 3	Code 8
Flat gasket	Flat	Fin
Flat gasket	222-adaptor	222-adaptor
F4	F5	
Code 2	Code 7	
Flat	Fin	





CFR Titel 21

EU 1935/2004

Here you find detailed





acuraFine AFA-ST acuraFine AFS-ST

Pleated Nylon Membrane Filter Cartridge

Pleated Polyethersulfone Membrane Filter Cartridge

acuraFine AVF-ST

Pleated PTFE Membrane Filter Cartridge

•

MEMBRANE Either hydrophobic or hydrophilic

membrane - no post treatment

3 different filter membranes

STRUCTURE Thermically welded structure, free of adhesives and binding agents

MICRON RATES 10 separation rates of 0.04 up to 3.0 μm

STERILIZATION Autoclave and steam sterilizable, with hot water (up to 121°C)

FILTRATION Retention rates absolute (99.9%)

TECHNICAL DATA

VARIANTS

*stainless steel adaptor reinforcement inside (not media-contacted)

Туре	Material	Support mesh/end caps	Micron rates	Δp 20°C	Temp.
acuraFine AFA-ST	Nylon (hydrophilic)	Polypropylene*	0.1 up to 3.0 μm	5.6 bar	max. 90°C
acuraFine AFS-ST	Polyethersulf. (hydrophilic)	Polypropylene*	0.04 up to 1.2 μm	5.5 bar	max. 90°C
acuraFine AVF-ST	PTFE (hydrophobic)	Polypropylene*	0.05 up to 0.45 µm	4.2 bar	max. 90°C

APPLICATIONS

- Germ protection
- Sterile water (ultrapure water)
- Wine/ must filtration
- Solvent recovery

- Demineralized water (RO)
- Gas filtration
- Cosmetics (dosing)
- · Potables (liquor)

- Foods (filling)
- Pharmaceutical products
- Tank venting and aeration (acuraFine AVF-ST)

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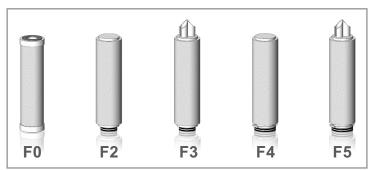








SUPPORT ADAPTORS filter cartridges



F0	F2	F3
DOE	Code 3	Code 8
Flat gasket	Flat	Fin
Flat gasket	222-adaptor	222-adaptor
F4	F5	
Code 2	Code 7	
Flat	Fin	
226-bayadaptor	226-bayadaptor	

Here you find detailed



Compliant to standard



EU 1935/2004



acuraCap

Membrane Filter Capsule (absolute)

TECHNOLOGY

No O-rings, no metal parts

contained, thermally welded structure, free of adhesives

and binding agents

MEASUREM.

INSTALLATION No need of a pressure vessel

Outer diameter approx. 73 mm,

length approx. 115 mm

FILTER AREA

Pleated structure, 1000 cm²



FILTRATION

Retention rates absolute (99,9%)

small residual volume = Minimized product loss



TECHNICAL DATA

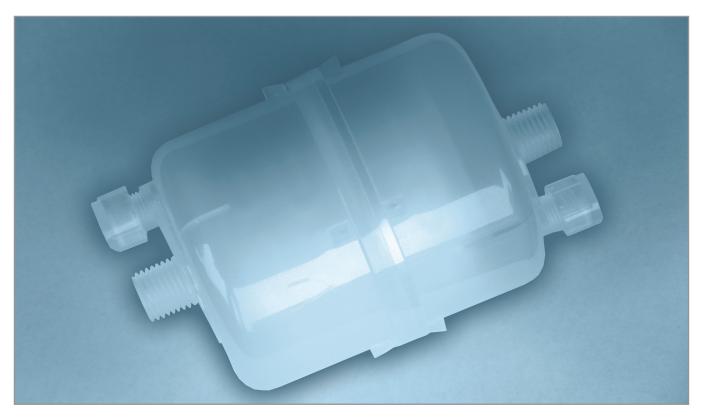
Туре	Material	Micron rates	Δp 23°C	Δp 60°C liquid	Δp 60°C gaseous	Temperature
acuraCap AKF	Polypropylene / PTFE	0.2 μm	3.5 bar	3.0 bar	2.5 bar	max. 60°C
acuraCap AKP	Polypropylene	0.1 up to 20 µm	3.5 bar	3.0 bar	2.5 bar	max. 60°C



APPLICATIONS

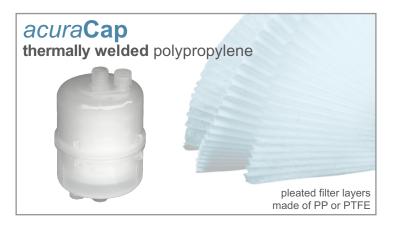
- Laboratory filter
- Trial filter for small volumes
- · Flavours, food additives
- High purity chemicals
- Distilled water
- Analysis gas
- · Venting of small devices

- Venting and aeration filter
- Process filtration in storage media fabrication
- · Batch filtration
- · Special adhesive
- Ultrapure water
- Printing inks











Compliant to standard



CFR Titel 21

EU 1935/2004

Here you find detailed





acuraCarbon

Filter Cartridge "Activated Carbon Block"

Series GAC(-BB)

Filter Cartridge "Activated Carbon Granulate"

VARIANTS Activated carbon block or granulate

ADSORPTION Removes undesired flavours,

chlorine, hydrazine, oil and fat

QUALIFICATION NSF-Standard (Series EP / Series GAC)

Series EP(-BB)

Filter Cartridge "Activated Carbon Block"

PREFILTER 5 µm prefilter protects the activated

carbon against contaminations

5", 10", 20" and 30" **LENGTHS**

EFFICIENCY No loose filling resulting in high

contact time due to forced guidance

FILTRATION Fluids and gases

TECHNICAL DATA

Туре	Material	Filling	Flow rate at Δp 70 mbar 10" / (BB 20")	Temperature
acura Carbon "AXB"	PP/PE	Activated carbon block	up to 4 l/min	max. 65°C
Series EP	eries EP PP/PE Activated carbon block		up to 4 l/min (up to 15 l/min)	max. 83°C
Series GAC	PS/PES	Activated carbon granulate	up to 4 l/min (up to 15 l/min)	max. 52°C

APPLICATIONS

- Water treatment
- Drinking water
- Process water
- Cosmetics

- · Separation of chloride
- Separation of pesticides
- Separation of organic substances
- Pharmaceutical products
- Foodstuff
- Gas filtration
- Colour and scent removal
- · Adsorption of dissolved oil

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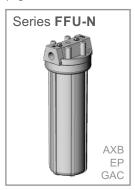


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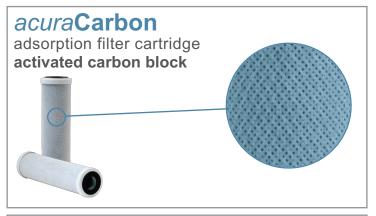


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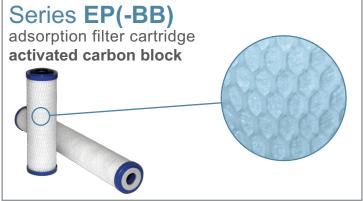


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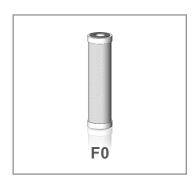








SUPPORT ADAPTORS filter cartridges



F0
DOE
Flat gasket
Flat gasket

Here you find detailed information:





acura**O**il

Absorption Filter Cartridge

acuraOil-BB

Absorption Filter Cartridge

TECHNOLOGY Fleece fabric rolled up on support

INSTALLATION In DOE-cartridge filter housings

core, fixed with a net and locked by

end caps with flat gaskets

(or with DOE-adaptor)

OIL ABSORPT. 360 g up to 2580 g

MEASUREM. acuraOil: outer Ø70 mm

acuraOil-BB: outer Ø117 mm

9 3/4" and 20" **LENGTHS**

TECHNICAL DATA

Туре	Material	Dimensions	Cartr. length	Oil absorption	Temperature
acura Oil	PP/cellulose	Ø70 mm	9 3/4"	360 g	max. 80°C
acura Oil	PP/cellulose	Ø70 mm	20"	720 g	max. 80°C
acura Oil-BB	PP/cellulose	Ø117 mm	9 3/4"	1290 g	max. 80°C
acura Oil-BB	PP/cellulose	Ø117 mm	20"	2580 g	max. 80°C

APPLICATIONS

- Water treatment
- Condensed water
- Surface water

- Compressors
- Breakdown water
- Environment protection
- Process water
- Sewage treatment plant
- Bilge water

SUITABLE

CARTRIDGE FILTER HOUSINGS



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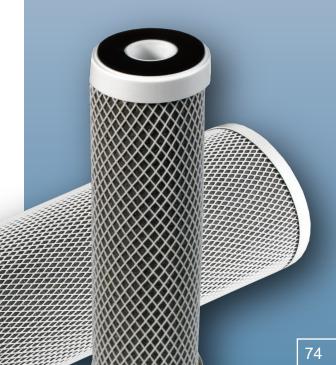


SUPPORT ADAPTORS filter cartridges









acura Refill

Refillable Filter Cartridge (nominal)

TECHNOLOGY Screwable and multiple times

fillable filter cartridge

SAFETY Prefilter keeps away dirt from the filling

material, post-filter keeps filling inside

MEASUREM. acuraRefill: outer Ø 63 mm

acuraRefill-BB: outer Ø114 mm

LENGTHS 10" and 20"

Various potential filling materials: **FILTRATION**

- (Oil) adsorbing materials

- granulated activated carbon

- ionized resin

FILLING CAP. 700 - 4500 ml

INSTALLATION Simple centering in the housing



TECHNICAL DATA

Туре	Material	Prefilter micron rate	Post-filter micron rate	Temperature	Cartr. length
acuraRefill	Polyethylene	100 μm	20 μm	max. 37°C	10" and 20"
acura Refill-BB	Polyethylene	100 μm	20 μm	max. 37°C	10" and 20"



APPLICATIONS

- Water treatment
- Conductance reduction (mixed-bed resin)
- Optical industry (laser technology)
- Separation of pesticides
- Separation of organic substances
- Separation of chloride
- Colour and scent removal
- · Separation of medicine
- Fishkeeping (fresh / salt water)



SUITABLE

CARTRIDGE FILTER HOUSINGS





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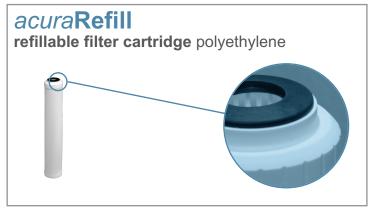


BULK MATERIAL (PROVIDED BY THE CUSTOMER)

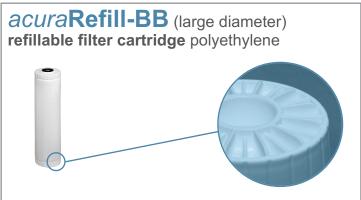




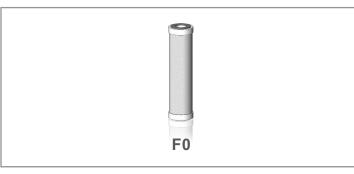








SUPPORT ADAPTORS filter cartridges



F0
DOE
Flat gasket
Centering device





acura Screen

Surface Filter Cartridge (Standard)

acura Plate

DIMENSIONS

Surface Filter Cartridge (Premium)

TECHNOLOGY acuraScreen:

stainless steel mesh on perforated sheet support cage

acuraPlate:

multi-layered sintered wire mesh

VARIANTS 6 different adaptor types,

acuraScreen: 3 filter mesh types

acuraPlate: 2 filter mesh types

Inner: Ø27 mm, outer: Ø65 mm

INSTALLATION In common DOE cartridge filter **FILTRATION** acuraScreen / acuraPlate:

retentions nominal

housings (or with DOE-adaptor)

TECHNICAL DATA

Types	Material	Micron rates	max. diff. pressure Δp	Temp.	Cartr. length
acuraScreen	1.4301 / 1.4401	1 up to 3000 μm	6 bar	max. 400°C	5" up to 40"
acura Plate TOPMESH (3-layers)	1.4301 / 1.4401	1 up to 500 μm	4 bar	max. 400°C	5" up to 40"
acura Plate ABSOLTA (5-layers)	1.4301 / 1.4401	1 up to 500 μm	6-8 bar	max. 400°C	5" up to 40"

APPLICATIONS

- Coarse or pre-filtration
- Condensate water
- Chemical industry
- Pyrolytic processes

- Filtration in ATEX areas
- Food and beverage
- Electrical industry
- Pharmaceutical products
- · Polymer melt
- · Extruder protection
- Fragrances
- · Mineral water

SUITABLE CARTRIDGE FILTER HOUSINGS



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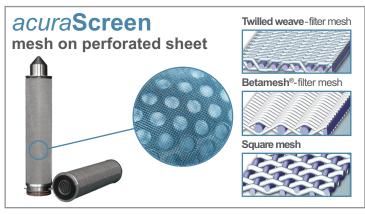


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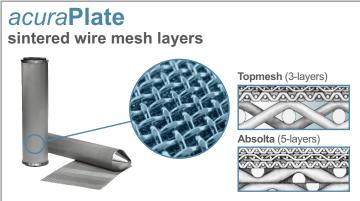


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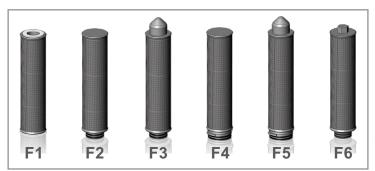








SUPPORT ADAPTORS filter cartridges



F1	F2	F3
DOE	Code 3	Code 8
Flat gasket	Flat	Fin
Flat gasket	222-adaptor	222-adaptor
F4	F5	F6
Code 2	Code 7	n / a
Flat	Fin	Hexagon
226-bayadaptor	226-bayadaptor	R 1 1/4" (ET)







acuraSinter

Surface Filter Cartridge

TECHNOLOGY Metal powder pressed and bonded

to form a porous matrix under high

pressure and temperature

FILTRATION Smooth surface, high flow rates,

backwashable

TEMPERATURE Extremely hight temp. resistance

DIMENSIONS Standard diameter: 60 mm,

on request: 20, 50, 70, 100, 120 mm

LENGTHS 5" up to 40" or acc. to requirements

Cylinders, plates, disks or **VARIANTS**

special forms

INSTALLATION 6 different adaptor types,

some special solutions possible

TECHNICAL DATA

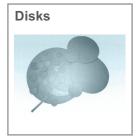
Types	Material	Micron rates	Diff. pressure Δp	Temperature	Cartr. lengths
acura Sinter VA	1.4404	0.5 up to 80 µm	max. 25 bar	max. 380°C	5" up to 40"
acura Sinter Ti	Titanium	0.5 up to 120 µm	max. 10 bar	max. 280°C	5" up to 40"

APPLICATIONS

- Filtration of liquids
- Compressed air filter
- Catalysts
- Ventilation
- Fumigation
- Powder filling, bagging
- Weight-reduced components
- Silencer

APPLICATION EXAMPLES acuraSinter







SUITABLE

CARTRIDGE FILTER HOUSINGS







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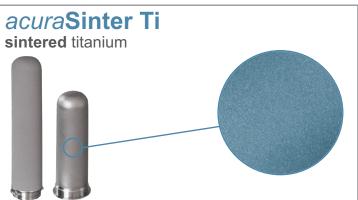
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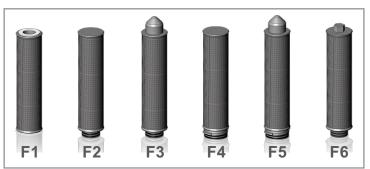








SUPPORT ADAPTORS filter cartridges



F1	F2	F3
DOE	Code 3	Code 8
Flat gasket	Flat	Fin
Flat gasket	222-adaptor	222-adaptor
F4	F5	F6
Code 2	Code 7	n / a
Flat	Fin	Hexagon
226-bayadaptor	226-bayadaptor	R 1 1/4" (ET)

On request: special connections, aseptic connections









Series F12-ZB1/2 Series F16-ZB1/2

Stainless Steel Module Filter Housing

TECHNOLOGY Detachable dome for easy and

ergonomic change of filters

INSTALLATION For common filter modules with

a diameter of 12" or 16"

GASKET Standard FPM, others on request **VARIANTS** Filter module mounting with

bayonet or flat adaptor

(by means of add. support adaptor)

FILTER AREA 1.8 m² up to 7.2 m²

TECHNICAL DATA

Туре	IN/OUT	Material	Max. operating data	Module sizes	Quantity	Filter area
F12-ZB1	R 2"	AISI 304	max. 6 bar at -10/+80°C	12"	1 module	1.8 m²
F12-ZB2	R 2"	AISI 304	max. 6 bar at -10/+80°C	12"	2 modules	3.6 m²
F16-ZB1	R 2"	AISI 304	max. 6 bar at -10/+80°C	16"	1 module	3.6 m²
F16-ZB2	R 2"	AISI 304	max. 6 bar at -10/+80°C	16"	2 modules	7.2 m²

APPLICATIONS

- Oil & lubricants
- Pharmaceutical products
- Drinking water
- Foodstuff / care products
- · Fresh water
- Ultra-fine cleaning
- Solvents & alcohols

SUITABLE

Water treatment

- Petrochemicals
- · Grinding processes
- · Beverage filtration (wine, beer, liquors)

SUITABLE **FILTER MODULES**



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Carbofil®









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page 85-86







HOUSING SELECTION

















FibraFix®

Depth Filter Module



TECHNOLOGY Cellulose with inorganic

filter aid and a cationic binding resin in a cage made of polypropylene

FILTRATION Electrokinetic adsorption

(Zeta-potential) and filtration

in one step

KAPAZITÄT Dirt holding capacity up to 4 kg/m²

12" and 16" filter modules **VARIANTS**

FibraFix® 12": Ø300 mm MEASUREM.

FibraFix® 16": Ø400 mm

Height bayonet adaptor: 330 mm Height flat adaptor: 272 mm

FILTER AREA FibraFix® 12": 1.8 m2

FibraFix® 16": 3.6 m²

NBR, MVQ, EPDM, FPM, PTFE, FEP **GASKETS**

INSTALLATION Flat adaptor or bayonet adaptor

TECHNICAL DATA

Туре	Material	Micron rate	Δp max.	Temperature	Filter area
FibraFix® 12"	Polypropylene, cellulose	0.04 up to 20 µm	2.4 bar	max. 82°C	1.8 m² (16 cells)
FibraFix® 16"	Polypropylene, cellulose	0.04 up to 20 µm	2.4 bar	max. 82°C	3.6 m² (16 cells)

APPLICATIONS

- Ultrapure water, process water
- Flushing and cleaning fluids
- Pharmaceutical products
- Varnish and paints
- Cosmetics
- Food and beverages
- Chemicals
- · Cooling and lubricating oil, hydraulic
- · Fluids solvents and hydrocarbons

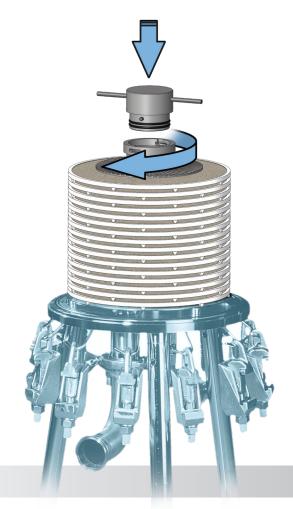
SUITABLE **MODULE FILTER HOUSING**



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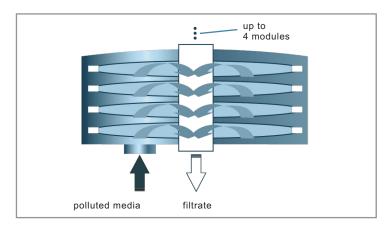








FUNCTIONAL PRINCIPLE filter module







CFR Titel 21 EU 1935/2004

Here you find detailed





Carbofil®

Activated Carbon Filter Module



FILTRATION

EXTRACTION

VARIANTS



















TECHNOLOGY Cellulose with activated carbon,

inorganic filter aid and a cationic binding

resin in a cage made of polypropylene

Activated carbon adsorption and

filtration in one step

Heavy metal content acc. recom.

XXXVI/1 BgVV < 50 ppm

12" and 16" filter modules each with

two adaptor types

MEASUREM.

Carbofil® 12": Ø300 mm Carbofil® 16": Ø400 mm

Height bayonet adaptor: 330 mm

Height flat adaptor: 272 mm

Carbofil® 12": 1.8 m² **FILTER AREA**

Carbofil® 16": 3.6 m2

NBR, MVQ, EPDM, FPM, PTFE, FEP **GASKETS**

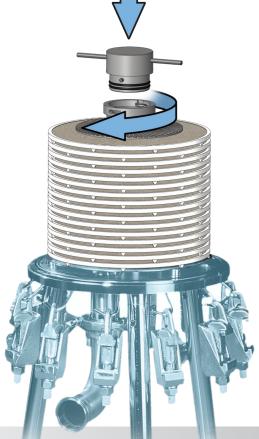
INSTALLATION Flat adaptor or bayonet adaptor

TECHNICAL DATA

Туре	Material	Δp max.	Temperature	Filter area
Carbofil® 12"	Polypropylene, activated carbon	2.4 bar	max. 82°C	1.8 m² (16 cells)
Carbofil® 16"	Polypropylene, activated carbon	2.4 bar	max. 82°C	3.6 m² (16 cells)

APPLICATIONS

- Discolouration of blood products, glucose solutions, antibiotics
- Solvents, sugar syrup, cosmetics, chemicals, silicone oils, liquors, electroplating liquids
- · Removal of scents in fruit juice and beverages
- · Dechlorination of water
- · Removal of aftertaste from food / beverages



SUITABLE **MODULE FILTER** HOUSING



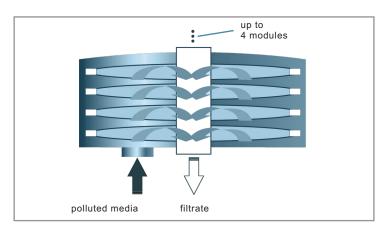
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FUNCTIONAL PRINCIPLE filter module



Compliant to standard



CFR Titel 21

EU 1935/2004





Accessories

for acuraLine® Filter Housings

ADDED VALUE acuraLine® accessories make work easier, make filtration perfect and increase process reliability



SAFETY DEVICES



- Material: Stainless steel 1.4408 / 1.4401
- PTFE sealing
- · Internal / external thread
- Also suitable for draining
- All common inch sizes





- Material: Stainless steel 1.4301 / 1.4408 / 1.4401
- PTFE sealing
- 0-6 bar or 0-10 bar other measuring ranges on request
- External thread: 1/4" or 1/2"
- On request with pressure gauge with diaphragm seal



USEFUL ACCESSORIES





Pressure gauge

- Material: Stainless steel 1.4301 (AISI 304)
- Set of two clamps
- Available for most case diameters



- · Material:
 - Stainless steel 1.4301 (AISI 304)
- 3 legs with bottom plate
- Spare part or retrofitting
- Available for most case diameters



MEASURING TECHNOLOGY







SPARE PARTS



- Material: Stainless steel 1.4301 • 0-6 bar / 0-10 bar / 0-25 bar
- other measuring ranges on request
- External thread: 1/4" or 1/2"
- With e-contact on request
- With diaphragm seal



- Inductive sensor: M8 x 1
- V: 10...36 DC mA: 10 (24 V)
- Current carrying capacity: 200 mA
- Protection class: IP 67 Available on many housing types
- · Other sensors on request





- Materials: FPM, NBR, EPDM, MVQ, FEP-O-SEAL (core FPM or MVQ), grooved seals, taperded sheet metal seals and much more
- Many available with approvals acc. to FDA, EU 1935/2004 and EU 10/2011, air quality directive, DVGW and much more



- Material:
 - Stainless steel / carbon steel coated (type-dependent)
- · Original spare parts in **OEM** quality





Automatic venting



- Material: Stainless steel 1.4571
- External thread: 1/4", 3/8" or 1/2"
- Operation: 10 bar / -10/+80°C
- · Closes automatically by floating after venting
- Only vertical installation
- Only for liquid media (no paints dispersions, oils)

Magnet inserts



- Material: Stainless steel 1.4301 (AISI 304)
- Can be retrofitted for most housing types
- 9000 Gs per magnet bar









Series **DFA**

Differential Pressure Gauge

TECHNOLOGY Contactless indicator actuator

reed contact by magnetic force

VARIANTEN Drag indicator, silicone oil filling

and limit switch optional

OPERATION Optical or optical/electrical

TECHNICAL DATA (25 = 2.5 bar dP-measuring range)

Туре	Additional	Reed contact
DFA/25-OS-OG	-	-
DFA/25-OS-MG1	-	1 pc
DFA/25-OS-MG2	-	2 pcs
DFA/25-MS-OG	Drag indicator	-
DFA/25-MS-MG1	Drag indicator	1 pc
DFA/25-MS-MG2	Drag indicator	2 pcs
DFA-SF/25-OS-OG	Silicone oil fill.	-
DFA-SF/25-OS-MG1	Silicone oil fill.	1 pc
DFA-SF/25-OS-MG2	Silicone oil fill.	2 pcs

DIFFERENTIAL PRESSURE INDICATOR

DFA-**OS-OG**







sic model with drag indicator

LIMIT SIGNAL INDICATOR



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with one reed contact with two reed contacts

acuraControl v2

Digital Filter Monitoring

TECHNOLOGY Digital monitoring / analyse of

operation pressure, differential pressure and operation temperature

VARIANTS Mount, wall bracket and control box

OPERATION Self-sufficient or SPS or with other

IP-based devices

TECHNICAL DATA

acuraControl v2	
Supply voltage	100V-240V AC 50/60Hz (max. 10W)
Analog inputs	2x pressure sensors 1x temperature sensor
Digital input / output	100 MBit Ethernet interface and USB
Display	TFT graphic display
IP protection class	IP65
Ambient temperature	-10/+40°C

HEART PIECES





main unit

base for all extensions

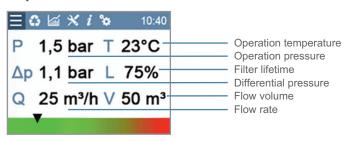
ADD-ON

- Sensor cable up to < 3 m
- Up to 8 filter housings per device
- · Flow rate measurement
- Volume flow measurement
- Particle counter
- · Printer, label printer
- pH value evaluation
- · Batch counter
- Pump control
- · Dosage, scales
- · And many more



DIGITAL+

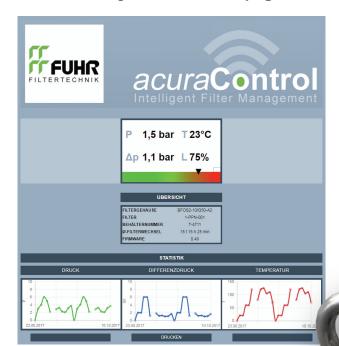
The Display simple and clear



FILTERTECHNOLOGY

The intranet site

remote monitoring via html status page



smart**Guide**

interactive support



Check / clean gasket

Here you find detailed





Special Filter Housing Engineering

Custom Stainless Steel Filter Housing



LAYOUT Acc. DGRL 2014/68/EU & ATEX

for liquid and gaseous, for hazardous

and non-hazardous media

GASKET FPM, NBR, EPDM, MVQ, FEP-O-SEAL,

serrated gasket or tanged metal gaskets,

FDA, TA-Luft and many more



Nozzle direction, mounts and brackets,

additional connections, heating

jacket, plastic lining etc.

DOCUM.

Manual, statements,

certificates, CDs or entirely paperless documentation



Category I, module A

Category II, module A2 Category III+IV, module G TÜV, ASME (U-stamp) for

non-european export

SUPPORT

Counseling from quotation through

drafting of the individual drawing

to delivery, if applicable start-up / commissioning



by TÜV Hessen

CALCULATION AD-2000 / EN 13445-5 / ASME (U-stamp)

all common special materials, pressure drop, additional loads



APPLICATIONS

- Chemical industry
- Processing industry
- Water supply
- Automotive industry

- Oil/gas
- Cleaning systems
- District heat
- Mining industry

- Paper industry
- Nuclear power plants
- Hospitals
- · Food industry



6-FOLD BAG FILTER 6ALSL2-5/F350-SS



- Material: Stainless steel 1.4301
- 5 bar at -10/+100°C
- · Connect.: welding neck flange **DN350 PN10**
- · Arched ceflection plate on the inside
- Regulation: AD-2000
- Inspection: Art.4, §3

4-FOLD BAG FILTER 4BFSLK2-20/F80-SS



- Material: Stainless steel 1.4541
- -1/+20 bar at -10/+200°C
- · Connect.: welding neck flange **DN80 PN40**
- Segment clamp screws and DAVIT-lifting device
- Regulation: AD-2000
- · Inspection: Cat.IV, module G



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6-FOLD BAG FILTER 6BFSLK2-10/F50-HC22U



- Material: Hastelloy® HC22
- -1/+10 bar at -10/+160°C
- · Connect.: welding neck flange 2" 150 lbs.
- · Spring assisted lid lifting device and heating jacket
- Regulation: ASME
- · Inspection: U-stamp

WHEELED MODULE FILTER F16ZD3-10/F50-SS



- Material: Stainless steel 1.4571
- -1/+10 bar at -10/+160°C
- · Connect.: welding neck flange **DN50 PN16**
- Modular two-part housing and anti-static wheels
- Regulation: AD-2000
- · Inspection: Cat.IV, module G





8-FOLD BASKET FILTER 8SFK2-16/F100-SS



- · Material: Stainless steel 1.4571
- -1/+16 bar at -10/+150°C
- Connect.: welding neck flange DN100 PN16
- Spring assisted lid lifting device
- Regulation: AD-2000
- · Inspection: Cat.IV, module G

LINED CARTRIDGE FILTER 3DB10-10/F50-E-TFE



- Material: Stainless steel 1.4571 / E-TFE / HC22
- -1/+10 bar at -10/+120°C
- Connect.: welding neck flange DN50 PN16
- Plastic lining
- Regulation: AD-2000
- Inspection: Cat.III, module G

TOPLINER BAG FILTER ALTL2-10/F50-HZ-EK



- Material: Stainless steel 1.4571
- -1/+10 bar at -10/+160°C
- Connect.: welding neck flange DN50 PN16
- Center-screw lock with forced venting, comfort-angle
- Regulation: AD-2000
- · Inspection: Cat.III, module G

5-FOLD CARTRIDGE FILTER 5D30-5/F100-PP



- Material: PP el. conductive
- 5 bar at -10/+30°C
- Connect.: loose-type flange DN100 PN10
- Middle flange with hexagon screws, grounding conn.
- Regulation: AD-2000
- Inspection: Art.4, §3



Plant Engineering

Individual Filter Systems and Units



Acc. to **DGRL 2014/68/EU / ATEX DESIGN**

for liquid and gaseous,

dangerous and non-dangerous media

GASKETS FPM, NBR, EPDM, MVQ, FEP-O-SEAL grooved or tapered sheet metal seals, FDA, air quality directive, and many more



FLEXIBILITY Connection, pumps, tub trolley,

tanks, "Plug-and-Play", individually programmed controls (PLC)

DOCUMENTS

SUPPORT

Manual, certificates, reports, CDs or complete paperless documentation



INSPECTION Machinery directive 2006/42/EU / EMV

> - DIN EN ISO 12100-1 - DIN EN ISO 12100-2

- DIN EN 60204-1 VDE plus ISO 5873-1

Directive 94/9/EU (ATEX)

Counseling from quotation through drafting of the individual drawing

to delivery, if applicable start-up / commissioning



CERTIFIED

Approved by TÜV Hessen / DEKRA Exam

CALCULATION Flow rate, pressure drop, pump performance, risk analysis



APPLICATIONS

- Paint industry
- Gas stations
- Drinking water treatment
- Cosmetics

- Home automation
- Heavy fuel oil
- Purifier
- Steel mill

- Pharma
- Foods
- · Oil / lubrication grease
- Filling



PUMP FILTER WAGON acuraMobil-DLMP



- Pump filter wagon with BFOTS2-10/F50-A2
- 8 bar at -10/+80°C
- · Connection: hoses with milk pipe valves
- Diff. pressure gauge, automatic venting
- Compressed air diaphragm pump with active damper
- Pneumatic control

PUMP FILTER WAGON acura MobilOil-SP



- Pump filter wagon with modul filter F16ZP1
- 5 bar at -10/+60°C
- Connection: hoses with milk pipe valves
- Diff. pressure gauge, drain tub
- Compressed air diaphragm pump with active damper
- Pneumatic control





- Pump filter wagon with cartridge filter 1FU20-A4
- 10 bar at -10/+40°C
- Connection: Bushing Rp 1"
- · Diff. pressure measurement, drain - / shut-off valves
- · Compressed air diaphragm pump with active damper
- Pneumatic control

CARTRIDGE PUMP FILTER UNIT ATEX



- Pump filter unit with two cartridge filter vessels 1FU1-A2
- 6 bar at -10/+80°C
- Connection: hose DN10
- · Control valves / pressure monitoring, ATEX pump
- Special electrical pump with ATEX motor
- Electrical control





DUPLEX BAG FILTER UNIT



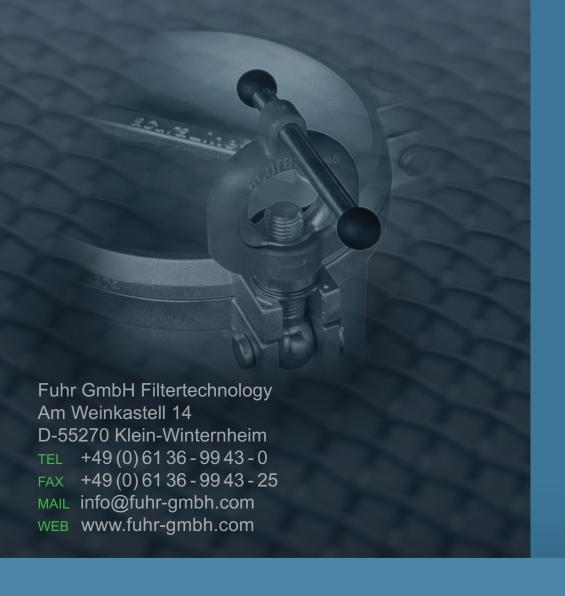
- Switchable filter units with two bag filters BFOT2-16/F50
- 16 bar at -10/+80°C
- Connection: pipe manifold DN80 PN16
- Diff. pressure measurement, Pressure gauge venting unit
- Pneumatical butterfly valve control unit
- Electro-pneumatic actuator

DUPLEX BAG FILTER UNIT



- Switchable filter units with two bag filters ALSI-10/G40-A2
- 10 bar at -10/+80°C
- Connection: bushing Rp 1 1/2"
- Diff. pressure measurement,
 3-way switch valves





3D models CAD support



