# Filter element conversion from Series FE to FE\_B

Filter elements for filter 4.121/221/225



Production series filter elements with designation FE will in future be replaced by the <u>new</u> production series  $FE_B$ 

Our traditional product key will remain as is, but with the nominal connection size now prefixed with B. (Example: B32.060.L2-P)

This will affect Series 4.121/221/225 filters, from now on to be fitted with the new FE\_B filter elements.

Replacement /exchange filter elements will also in future be replaced by this FE\_B filter element.

## Illustration of the visible change:



#### List of changed features

- Future sieve cover made of 1.4301 sheet steel (previously made of GK-AISi12(Cu))
- Future sieve ring made of 1.4301 sheet steel (previously GK-AISi12(Cu))
- Increase of the filter area (up to 19%)
- Complete filter element now made of stainless steel (Standard 1.4301)

## Filter element conversion

## from Series FE to FE\_B Filter elements for filter 4.121/221/225



Previous filter element designated FE:



Operating temperature: -10...120°C

DN	Key to length *Standard overall lengths	A [mm]	B [mm]	C [mm]	D [mm]	Filter area ca. [cm²]	Collapsing pressure [bar]	Weight [kg]
20	L1*	71	10	55	30	350	14	0.17
20	L2	106	10	55	30	580	14	0.22
32	L1	106	16	71	42	765	30	0.35
32	L2*	171	16	71	42	1 350	30	0.51
50	L1	172	16	86.5	54	1 950	17	0.72
50	L2*	252	16	86.5	54	3 000	17	0.95
80	L1	252	15	122.5	82	4 620	6.4	1.36
	L2*	336	15	122.5	82	6 300	6.4	1.94

New filter element designated FE\_B:



#### Operating temperature: -10...120°C

DN	Key to length *Standard overall lengths	A [mm]	B [mm]	C [mm]	D [mm]	Filter area ca. [cm²]	Collapsing pressure [bar]	Weight [kg]
20	L1*	71	4.5	55	28.3	418	14	0.14
	L2	106	4.5	55	28.3	684	14	0.19
32	L1	106	10.8	71	42	810	30	0.33
	L2*	171	10.8	71	42	1 395	30	0.49
50	L1	172	10.8	86.5	54	2 028	17	0.65
50	L2*	252	10.8	86.5	54	3 068	17	0.88
80	L1	252	9.8	122.5	82	4 680	6.4	1.26
	L2*	336	9.8	122.5	82	6 360	6.4	1.84



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Filtration of hydraulic fluids, lubricants, industrial fluids, gases and water.

#### Construction

Star-like folded special filter material, microplasma welded lengthwise, with inner support tube. End caps glued. O-rings are used for sealing.

Whether a filter element can be cleaned depends on the filter material:
The standard version has wire mesh and may be cleaned repeatedly (see separate fact sheet)
Should other filter media have been used on customer request, then these generally cannot be cleaned (e.g. fibre mats and paper)
With proper cleaning (i.e. wire mesh and potting compounds remain intact), the number of cleaning cycles is limited only by accumulation of insoluble dirt in the mesh over time, blocking the pores. This results in increasing loss of pressure and shorter cleaning intervals.
The more fibrous, sticky and insoluble the dirt particles or the medium to be filtered, the faster the ageing effect.
We shall upon request gladly provide you with information on suitable cleaning equipment.
The wire mesh consists of thin, sensitive wires and therefore requires gentle cleaning!
To ensure proper filtration, the filter material must not be torn or damaged!
1.4301; others on request
optimesh <sup>®</sup> wire mesh (10 - 100 μm) made of 1.4401
precimesh® wire mesh (< 10 $\mu$ m; > 100 $\mu$ m) made of 1.4401
Optional: glass fibre paper; filter paper; metal fibre mat (1.4404)
NBR, (alternatively FPM, special materials)
2-component epoxy resin; other on request
tions
Hydraulic fluid power filter elements, collapsing/burst resistance tests.
Hydraulic fluid power filter elements, proof of manufacturing quality.
Hydraulic fluid power filter elements, proof of material compatibility with hydraulic fluids.
Hydraulic fluid power filter elements, method for end load test.



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### Product type keys for Type FE\_B: (order example)

The product type key is shown on the sieve ring.

B32 . 060 . L2 - P . St				
	End cap material: (Standard 1.4301)			
	St	Steel		
	1.4571	Stainless steel		
	other materials on request			
	Sealing material			
	P NBR (Standard)			
	V	FPM		
	other materials on request			
	Overall length key			
	L1	Overall length for DN 20		
	L2 Standard overall length for all sizes			
	other overall lengths on request			
	Filter fineness/medium			
	005	Optimesh <sup>®</sup> wire mesh 5 μm nominal, 10 μm absolute		
	010	Optimesh® wire mesh 10 μm nominal, 25 μm absolute		
	015	Optimesh <sup>®</sup> wire mesh 15 μm nominal, 34 μm absolute Optimesh <sup>®</sup> wire mesh 20 μm nominal, 40 μm absolute		
	020			
	025 040	Optimesh <sup>®</sup> wire mesh 25 μm nominal, 60 μm absolute		
		Optimesh <sup>®</sup> wire mesh 40 μm nominal, 80 μm absolute		
	060	Optimesh <sup>®</sup> wire mesh 60 μm nominal, 100 μm absolute		
	080	Precimesh <sup>®</sup> wire mesh 80 μm nominal, 150 μm absolute		
	100	Precimesh <sup>®</sup> wire mesh 100 μm nominal, 200 μm absolute		
	120	Precimesh <sup>®</sup> wire mesh 120 μm nominal, 250 μm absolute		
	150	Precimesh <sup>®</sup> wire mesh 150 μm nominal, 300 μm absolute		
	xxx Paper, glass fibre paper			
	other fineness on request			
	Nominal connection size/overall size DN for Type B			
		20/32/50/80		





Umstellung FE auf FE\_B\_en.docx