

# Filter elements

## Type 1. and 2. Elements

**RE 51420**

Edition: 2014-05

Replaces: 10.10



HAD8040\_14

- ▶ Sizes according to **DIN 24550**: 0040 to 1000
- ▶ additional sizes: 0004 to 2500
- ▶ Differential pressure resistance up to 330 bar [to 4786 psi]
- ▶ Filter rating: 1 to 800  $\mu\text{m}$
- ▶ Filter area: up to 4.8 m<sup>2</sup> [to 7440 in<sup>2</sup>]
- ▶ Operating temperature: -10 °C to +100 °C [+14 °F to +212 °F]

### Features

- ▶ Filter media for numerous application ranges made of glass fiber material, filter paper, wire mesh, fleece material and metal fiber fleece
- ▶ Cleanable wire mesh filter media
- ▶ Attainable oil cleanliness up to ISO 12/8/3 (ISO 4406)
- ▶ High dirt holding capacity and filtration performance due to multi-layer glass fiber technology and simultaneously a low initial pressure differential (ISO 3968)
- ▶ Extended product range for non-mineral oil based fluids
- ▶ Filter elements with high pressure differential stability

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Ordering code  
Filter element

Filter element type 1.

01	02	03		04	05	06		07		08
1.			-				-	0	-	

Filter element <sup>1)</sup>

01	Design	1.
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Size

02	According to <b>DIN 24550</b>	0040 0063 0100 0160 0250 0400 0630 1000
	According to <b>Bosch Rexroth standard</b>	0045 0055 0120 0130 0150 0200 0270 2000 2500

Filter rating in µm

03	<b>Nominal</b>	Stainless steel wire mesh, cleanable	G10 G25 G40 G60 G100 G200 G500 G800
		Filter paper, one-way (not cleanable)	P10 P25
		Non-woven fabric, one-way (not cleanable)	VS25 VS40 VS60
	<b>Absolute (ISO 16889)</b>	Glass fiber material, one-way (not cleanable)	H1XL H3XL H6XL H10XL H20XL
		Metal fiber fleece, one-way (not cleanable)	M5 M10
	<b>Water absorbing <sup>2)</sup></b>	One-way (not cleanable)	AS3 AS6 AS10 AS20

Pressure differential

04	Maximum admissible pressure differential of the filter element: 30 bar [435 psi]	A
	Maximum admissible pressure differential of the filter element: 160 bar [2321 psi]	C

## Ordering code Filter element

### Filter element type 1.

01	02	03	04	05	06	07	08
1.			-			-	0

### Element design

05	Adhesive	Standard adhesive	0
		Special adhesive <sup>3)</sup>	H

### Element design

06	Material	Standard material	0
		Stainless steel 1,4571 <sup>4)</sup>	V

### Bypass valve

07	without bypass valve	0
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### Seal

08	NBR seal	M
	FKM seal	V

<sup>1)</sup> Permissible temperature range see chapter "Technical data"

<sup>2)</sup> Only configurable with differential pressure A = 30 bar [435 psi]

<sup>3)</sup> Improved temperature and media resistance, only in conjunction with seal FKM "V"

<sup>4)</sup> Only in conjunction with special adhesive "H" and seal FKM "V"

### Order example:

**1.0040 H10XL-A00-0-M**

**Material no.: R928005837**

**Other filter ratings and seal material upon request.**

## Ordering code

### Filter element

#### Filter element type 2.

01	02	03		04	05	06		07		08
<b>2.</b>			-				-	<b>0</b>	-	

#### Filter element <sup>1)</sup>

01	Design	<b>2.</b>
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#### Size

02	According to <b>DIN 24550</b>	<b>0040</b> <b>0063</b> <b>0100</b> <b>0160</b> <b>0250</b> <b>0400</b> <b>0630</b> <b>1000</b>
	According to <b>Bosch Rexroth standard</b>	<b>0004</b> <sup>2)</sup> <b>0130</b> <b>0150</b>

#### Filter rating in µm

03	<b>Nominal</b>	Stainless steel wire mesh, cleanable	<b>G10</b> <b>G25</b> <b>G40</b> <b>G60</b> <b>G100</b> <b>G200</b> <b>G500</b> <b>G800</b>
		Filter paper, one-way (not cleanable)	<b>P10</b> <b>P25</b>
		Non-woven fabric, one-way (not cleanable)	<b>VS25</b> <b>VS40</b> <b>VS60</b>
	<b>Absolute (ISO 16889)</b>	Glass fiber material, one-way (not cleanable)	<b>H1XL</b> <b>H3XL</b> <b>H6XL</b> <b>H10XL</b> <b>H20XL</b>
		Metal fiber fleece, one-way (not cleanable)	<b>M5</b> <b>M10</b>
	<b>Water absorbing</b> <sup>3)</sup>	One-way (not cleanable)	<b>AS3</b> <b>AS6</b> <b>AS10</b> <b>AS20</b>

#### Pressure differential

04	Maximum admissible pressure differential of the filter element: 30 bar <i>[435 psi]</i>	<b>A</b>
	Maximum admissible pressure differential of the filter element: 330 bar <i>[4786 psi]</i>	<b>B</b>

## Ordering code Filter element

### Filter element type 2.

01	02	03	04	05	06	07	08
2.			-			-	0

#### Element design

05	Adhesive	Standard adhesive	0
		Special adhesive <sup>4)</sup>	H

#### Element design

06	Material	Standard material	0
		Stainless steel 1.4571 <sup>5)</sup>	V

#### Bypass valve

07	without bypass valve	0
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#### Seal <sup>2)</sup>

08	NBR seal	M
	FKM seal	V

<sup>1)</sup> Permissible temperature range see chapter "Technical data"

<sup>2)</sup> Filter size 0003 = Filter element-size 0004

<sup>3)</sup> Only configurable with differential pressure A = 30 bar [435 psi]

<sup>4)</sup> Improved temperature and media resistance, only  
in conjunction with seal FKM "V"

<sup>5)</sup> Only in conjunction with special adhesive "H" and seal FKM "V"

#### Order example:

**2,0040 H10XL-A00-0-M**

**Material no.: R928006647**

**Other filter ratings and seal material upon request.**

## Ordering code

### Filter element

**Filter element type 2.Z**  
**for sandwich plate filter 320PZR**

01	02	03		04	05		06
<b>2.Z</b>			-	<b>B00</b>	<b>0</b>	-	

#### Filter element <sup>1)</sup>

01	Design	<b>2.Z</b>
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#### Size

02	According to <b>Bosch Rexroth standard</b>	<b>025</b> <b>075</b> <b>125</b>
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#### Filter rating in µm

03	<b>Absolute (ISO 16889)</b> Glass fiber material, one-way (not cleanable)	<b>H3PZ</b> <b>H6PZ</b> <b>H10PZ</b> <b>H20PZ</b>
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#### Pressure differential

04	Maximum admissible pressure differential of the filter element: 330 bar <i>[4786 psi]</i>	<b>B00</b>
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#### Bypass valve

05	<b>without</b> bypass valve	<b>0</b>
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#### Seal <sup>1)</sup>

06	NBR seal	<b>M</b>
	FKM seal	<b>V</b>

<sup>1)</sup> Permissible temperature range see chapter "Technical data"

#### Order example:

**2.Z125 H10PZ-B00-0-M**

**Material no.: R928051781**

## Ordering code

### Filter element

Filter element Type 2.0058 and 2.0059  
for inline filter 16 FE and duplex filter 16 FD

01	02	03	04	05	06
2.			- A00 -		

#### Filter element <sup>1)</sup>

01	Design	2.
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#### Size

02	According to <b>Bosch Rexroth standard</b>	0058 0059
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#### Filter rating in µm

03	<b>Nominal</b>	Stainless steel wire mesh, cleanable	G10 G25 G40 G60 G100 G200 G500 G800
		Filter paper, one-way (not cleanable)	P10 P25
		Non-woven fabric, one-way (not cleanable)	VS25 VS40 VS60
	<b>Absolute (ISO 16889)</b>	Glass fiber material, one-way (not cleanable)	H1XL H3XL H6XL H10XL H20XL
		Metal fiber fleece, one-way (not cleanable)	M5 M10
	<b>Water absorbing</b>	One-way (not cleanable)	AS3 AS6 AS10 AS20

#### Pressure differential

04	Maximum admissible pressure differential of the filter element: 30 bar [435 psi]	A00
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#### Bypass valve

05	<b>without</b> bypass valve	0
	<b>With</b> bypass valve – release pressure 3 bar [43.5 psi]	6

#### Seal

06	NBR seal	M
	FKM seal	V

<sup>1)</sup> Permissible temperature range see chapter “Technical data”

**Order example:**  
**2,0058 H10XL-A00-6-M**

**Material no. R928007115**

**Other filter ratings and seal material upon request.**

**Preferred types****Filter element Type 1. preferred types, NBR seal**

Type	Material no. Filter element, Filter rating in $\mu\text{m}$		
	H3XL	H6XL	H10XL
1.0040 H..XL-A00-0-M	R928005835	R928005836	R928005837
1.0063 H..XL-A00-0-M	R928005853	R928005854	R928005855
1.0100 H..XL-A00-0-M	R928005871	R928005872	R928005873
1.0130 H..XL-A00-0-M	R928037178	R928045104	R928037180
1.0150 H..XL-A00-0-M	R928037181	R928037182	R928037183
1.0160 H..XL-A00-0-M	R928005889	R928005890	R928005891
1.0250 H..XL-A00-0-M	R928005925	R928005926	R928005927
1.0400 H..XL-A00-0-M	R928005961	R928005962	R928005963
1.0630 H..XL-A00-0-M	R928005997	R928005998	R928005999
1.1000 H..XL-A00-0-M	R928006033	R928006034	R928006035
1.2000 H..XL-A00-0-M	R928041312	R928048158	R928040797
1.2500 H..XL-A00-0-M	R928041314	R928046806	R928040800

**Filter element Type 2. preferred types, NBR seal**

Type	Material no. Filter element, Filter rating in $\mu\text{m}$		
	H3XL	H6XL	H10XL
2.0040 H..XL-A00-0-M	R928006645	R928006646	R928006647
2.0063 H..XL-A00-0-M	R928006699	R928006700	R928006701
2.0100 H..XL-A00-0-M	R928006753	R928006754	R928006755
2.0130 H..XL-A00-0-M	R928022274	R928022275	R928022276
2.0150 H..XL-A00-0-M	R928022283	R928022284	R928022285
2.0160 H..XL-A00-0-M	R928006807	R928006808	R928006809
2.0250 H..XL-A00-0-M	R928006861	R928006862	R928006863
2.0400 H..XL-A00-0-M	R928006915	R928006916	R928006917
2.0630 H..XL-A00-0-M	R928006969	R928006970	R928006971
2.1000 H..XL-A00-0-M	R928007023	R928007024	R928007025

**Filter element Type 2.Z preferred types, NBR seal**

Type	Material no. Filter element, Filter rating in $\mu\text{m}$		
	H3PZ	H6PZ	H10PZ
2.Z025 H...PZ-B00-0-M	R928051771	R928053299	R928051773
2.Z075 H...PZ-B00-0-M	R928051775	R928051776	R928051777
2.Z125 H...PZ-B00-0-M	R928051779	R928051780	R928051781

**Filter element Type 20058 and 2.0059 preferred types, NBR seal**

Type	Material no. Filter element, Filter rating in $\mu\text{m}$		
	H3XL	H6XL	H10XL
2.0058 H...XL-A00-6-M	R928007113	R928007114	R928007115
2.0059 H...XL-A00-6-M	R928007131	R928007132	R928007133

**Assignment of filter elements to filter series**

Element type (Type)	Series	Application	Data sheet no. <sup>1)</sup>
<b>1.</b>	40FLE(N)	Inline filters	51401
	100FLE(N)		51402
	40FLD(N)	Duplex filter	51408
	100FLD(N)		51409
	40FLDK(N)		51407
	63FLDK(N) -1X		51445
	10TE(N)	Tank mounted return line filters	51424
	10FRE(N)		51425
	10TD(N)-1X	Tank mounted return line filters, switchable	51454
	10 FRD(N)		not available

Element type (Type)	Series	Application	Data sheet no. <sup>1)</sup>
<b>2.</b>	40LE(N)	Inline filters	51400
	100LE(N)		51400
	50LE(N)		51447
	110LE(N)		51448
	245LE(N)		51421
	350LE(N)		51422
	445LEN		51423
	16FE		51403
	40LD(N)	Duplex filter	51406
	160LD(N)		51406
	50LD(N)		51453
	150LD(N)		51446
	400LD(N)		51429
	16FD		51410
	250/450FE(N)	Block mounting filters	51405
	245PSF(N)		51418
	350PSF(N)		51419
	450PBF(N)		51417

Element type (Type)	Series	Application	Data sheet no. <sup>1)</sup>
<b>2.Z</b>	320PZR	Sandwich plate filter	51427
	320PZR/PZL-2X	Sandwich plate filter, Generation 2X	51468

<sup>1)</sup> For further information please refer to the respective data sheet