

# Breather filter

**RE 51414/04.21**  
Replaces: -

1/8

**Types BF 7 SL...; BS 7 SL...; BE 7 SL...; B 7 SL**

Nominal size: BF 7 SL 45/21, 90, 130;  
BS 7 SL 45/21, 90, 130;  
BE 7 SL 45/21;  
B 7 SL 45/21

Connections up to DN 32  
Operating temperature -20 °C to +100 °C



H7612

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## Application

- Filtration and dehumidification of the intake air of industrial systems.
- Avoidance of initial damage in pumps and bearings and system components.

## Design

### BF 7 SL..., BS 7 SL...:

Breather filter with screw-off exchange filter cartridge and internal pleated filter element of filter paper P or micro glass H10XL.

Design with flange connection (BF 7 SL...) and/or welding socket (BS 7 SL...).

### B 7 SL..., BE 7 SL...:

Breather filter with screw-off exchange filter cartridge and internal pleated filter element of filter paper P or micro glass H10XL.

Connection possibility for a clogging indicator (B 7 SL) and/or attachment of a filling filter (screen basket 500 µm). Materials as per spare parts list.

## Maintenance intervals

Fields of application of the filter	Environmental conditions average dust content	Maintenance interval
General mechanical engineering	9...25 mg/m <sup>3</sup>	4,000 h
Heavy industry	50...80 mg/m <sup>3</sup>	3,000 h
Mobile hydraulics	30...100 mg/m <sup>3</sup>	3,000 h

## Spare parts list

Size				BF 7 SL 45/21	BF 7 SL 90 and 130, BS 7 SL 45/21, BS 7 SL 90 and 130, B 7 SL 45/21	BE 7 SL 45/21
Part	Piece	Description	Material			
1	1	Filter cartridge	various	Please indicate ordering information "Filter Cartridge"		
2	1	Seal ring	Fiber	Please indicate ordering information "Filter"		
3	1	Seal	Klingsil C4400	-	Please indicate the ordering information "Filter"	-
	2				-	Please indicate the ordering information "Filter"
	1		NBR	Please indicate the ordering information "Filter"	-	-
4	1	Filling screen	Steel	-		Part No. 5379
5	1	Seal	Cu			Please indicate the ordering information "Filter"
6	1	Countersunk screw	4.8			Part No. 4285

All part numbers Hengst specific.

### Ordering details of the filter

			S		0	0	0	00	M	0	0
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**Design**

Breather with flange = BF 7 SL  
 Breather with welding socket = BS 7 SL  
 Breather with filler = BE 7 SL  
 Breather without filler = B 7 SL

**Nom. size**

BF 7 SL = 45/21 90 130  
 BS 7 SL = 45/21 90 130  
 BE 7 SL = 45/21  
 B 7 SL = 45/21

**Filtration rating in µm nominal**

Paper, non-cleanable P10, P25 = P...  
 absolute (ISO 16889) Micro glass, non-cleanable H10XL = H10XL

**Pressure differential**

Max. permissible pressure differential of the filter element Standard = S

**Element model**

Standard adhesive T = 100 °C = 0...  
 Standard material = ...0

**Complementary details**

0 = without

**Material**

0 = Standard

**Seal**

M = NBR seal

**Connection**

00 = Standard  
 Connection in B 7 SL welding socket

**Clogging indicator**

0 = without

**Bypass valve**

0 = without

**Solenoid**

0 = without

**Ordering example:**  
**BF 7 SL 90 P10-S00-000-00M00**

### Ordering details of the filter cartridge

80.			S		0	M
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**Filter cartridge**

Design = 80.

**Nom. size**

BF 7 SL = 45/21 90 130  
 BS 7 SL = 45/21 90 130  
 BE 7 SL = 45/21  
 B 7 SL = 45/21

**Filtration rating in µm nominal**

Paper, non-cleanable P10, P25 = P...  
 absolute (ISO 16889) Micro glass, non-cleanable H10XL = H10XL

**Seal**

M = NBR seal

**Bypass valve**

0 = without

**Element model**

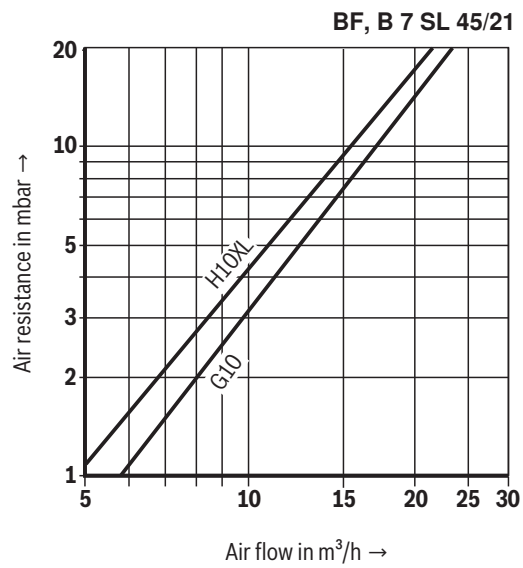
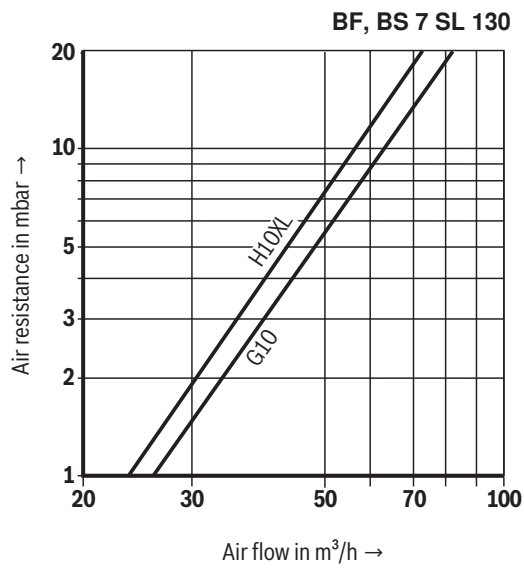
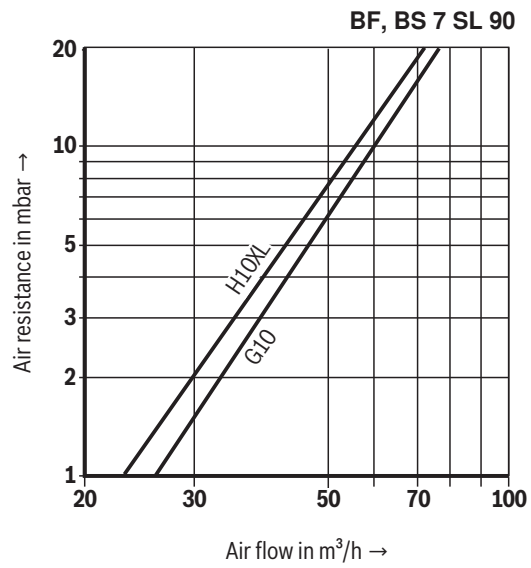
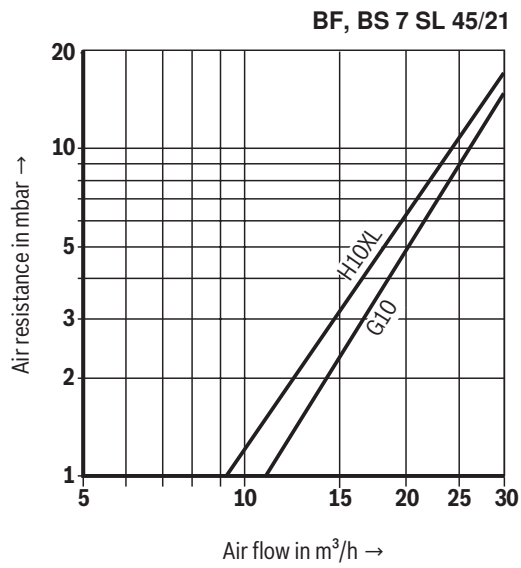
0... = Standard adhesive T = 100 °C  
 ...0 = Standard material

**Pressure differential**

Max. permissible pressure differential of the filter element S = Standard

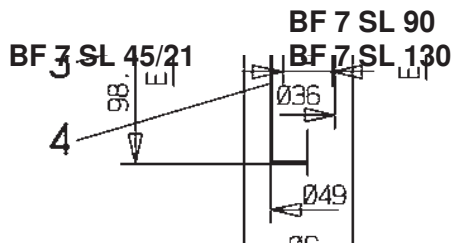
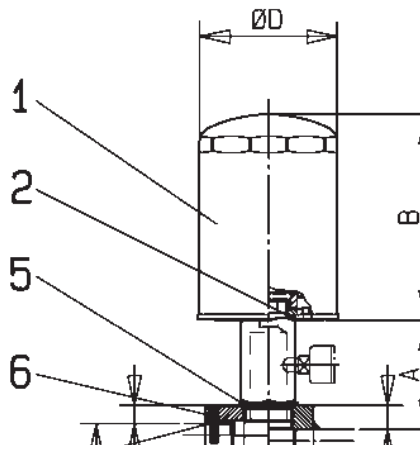
**Ordering example:**  
**80. 90 P10-S00-0-M**

## Characteristic curves (measured at test temperature = 20 °C)

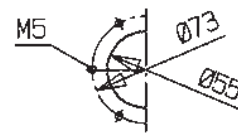
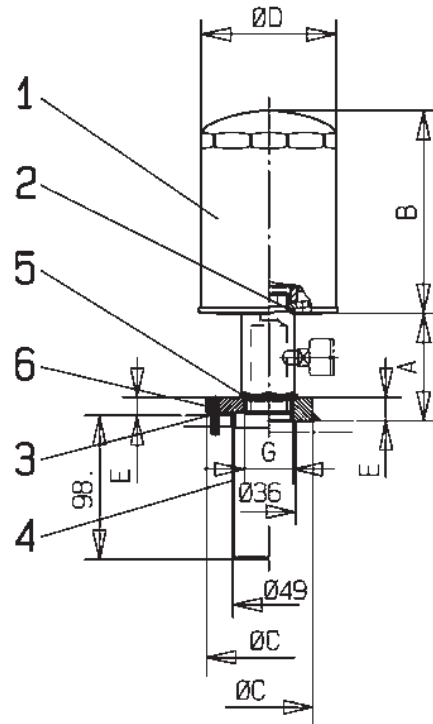


**Unit dimensions** (dimensions in mm)

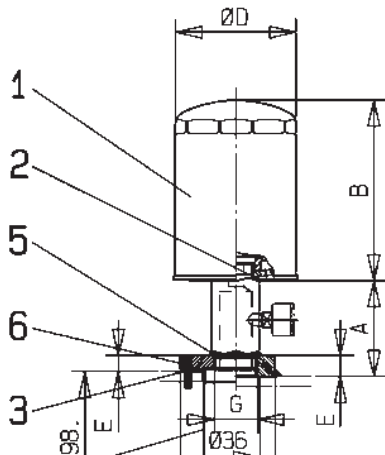
**BF 7 SL 45/21**  
**BF 7 SL 90**  
**BF 7 SL 130**



**BE 7 SL 45/21**  
**B 7 SL 45/21**



**BS 7 SL 45/21**  
**BS 7 SL 90**  
**BS 7 SL 130**



Size	Weight in kg	A	B	Ø C	Ø D	E	G
<b>BF 7 SL 45/21</b>	0.8	189	146	60	92	7	G 3/4
<b>BF 7 SL 90</b>	1.4	231	183	85	128	9.5	G 1 1/4
<b>BF 7 SL 130</b>	1.5	279	231				
<b>BS 7 SL 45/21</b>	0.7	189	146	35	92	-	G 3/4
<b>BS 7 SL 90</b>	1.3	231	183	50	128		G 1 1/4
<b>BS 7 SL 130</b>	1.4	279	231				
<b>BE 7 SL 45/21</b>	1.3	67	146	85	92	11.5	G 1
<b>B 7 SL 45/21</b>	1.2	73		60		16	

## Directives and standardization

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### Product validation

Hengst filters, the filter elements built into them and filter accessories are tested and quality-monitored according to different ISO test standards:

Filtration performance test (multipass test)	ISO 16889:2008-06
Compatibility with hydraulic fluid	ISO 2943:1998-11

The development, manufacture and assembly of Hengst industrial filters and Hengst filter elements is carried out within the framework of a certified quality management system in accordance with ISO 9001:2015.

## Notes

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## Notes

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