



Breather filter

RE 51414/04.21 1/8  
Replaces: -

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		00		M		0		0	
<b>Design</b> 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															
<b>Nom. size</b> BF 7 SL = 45/21 90 130 BS 7 SL = 45/21 90 130 BE 7 SL = 45/21 B 7 SL = 45/21															
<b>Filtration rating in µm</b> <b>nominal</b> Paper, non-cleanable P10, P25 = P... <b>absolute (ISO 16889)</b> Micro glass, non-cleanable H10XL = H10XL															
<b>Pressure differential</b> Max. permissible pressure differential of the filter element Standard = S															
<b>Element model</b> Standard adhesive T = 100 °C = 0... Standard material = ...0															
<b>Complementary details</b> 0 = without															
<b>Material</b> 0 = Standard															
<b>Seal</b> M = NBR seal															
<b>Connection</b> 00 = Standard Connection in B 7 SL welding socket															
<b>Clogging indicator</b> 0 = without															
<b>Bypass valve</b> 0 = without															
<b>Solenoid</b> 0 = without															

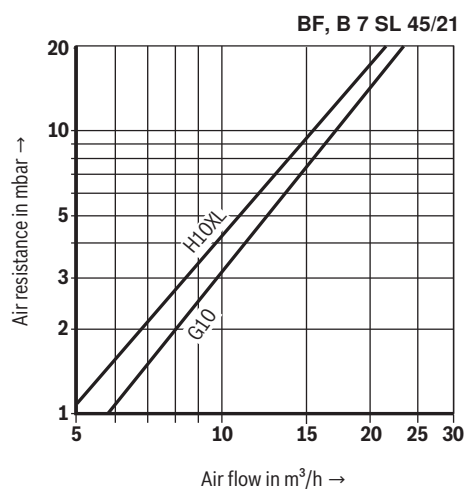
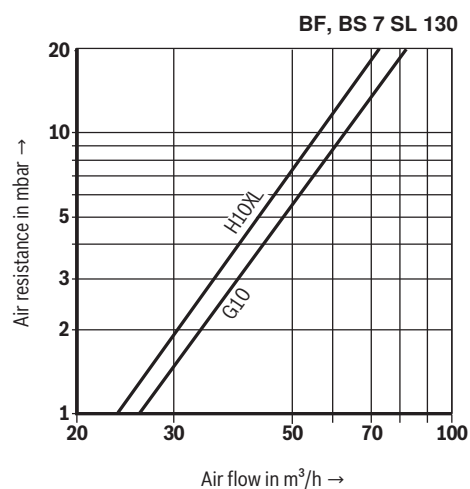
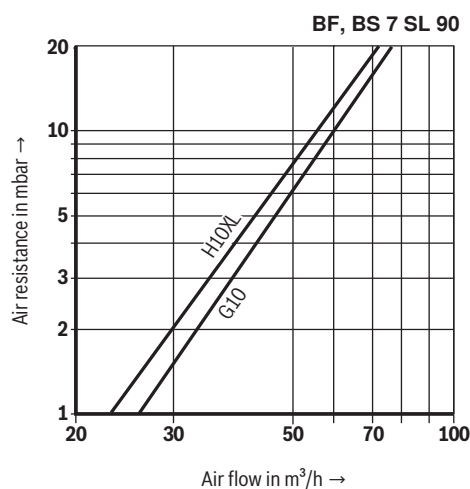
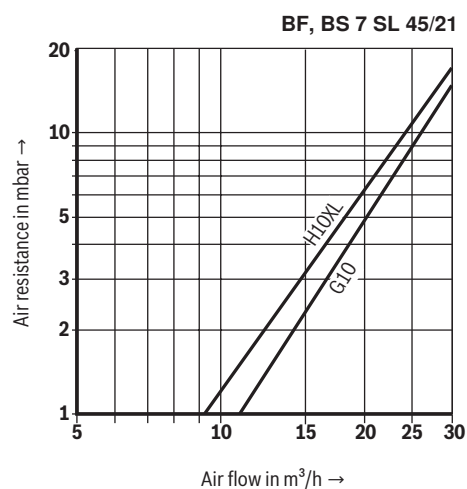
**Ordering example:**  
BF 7 SL 90 P10-S00-000-00M00

## Ordering details of the filter cartridge

80.		S		0		M	
<b>Filter cartridge</b> Design = 80.							
<b>Nom. size</b> BF 7 SL = 45/21 90 130 BS 7 SL = 45/21 90 130 BE 7 SL = 45/21 B 7 SL = 45/21							
<b>Filtration rating in µm</b> <b>nominal</b> Paper, non-cleanable P10, P25 = P... <b>absolute (ISO 16889)</b> Micro glass, non-cleanable H10XL = H10XL							
<b>Seal</b> M = NBR seal							
<b>Bypass valve</b> 0 = without							
<b>Element model</b> 0... = Standard adhesive T = 100 °C ...0 = Standard material							
<b>Pressure differential</b> Max. permissible pressure differential of the filter element S = Standard							

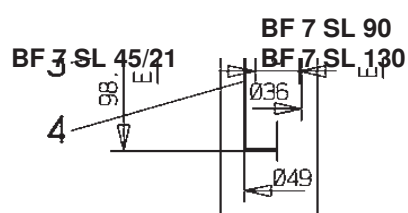
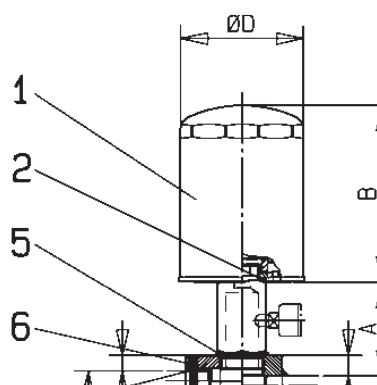
**Ordering example:**  
80. 90 P10-S00-0-M

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

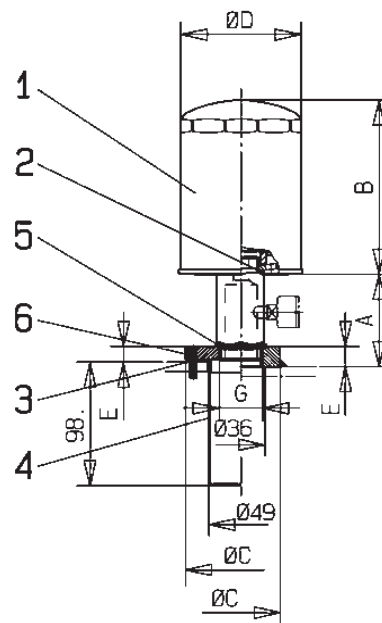


## Unit dimensions (dimensions in mm)

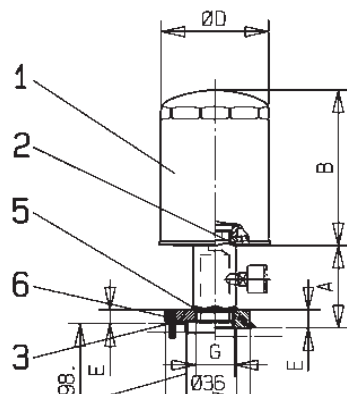
BF 7 SL 45/21  
BF 7 SL 90  
BF 7 SL 130



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
BF 7 SL 45/21	0.8	189	146	60	92	7	G 3/4
BF 7 SL 90	1.4	231	183	85	128	9.5	G 1 1/4
BF 7 SL 130	1.5	279	231	85	128	9.5	G 1 1/4
BS 7 SL 45/21	0.7	189	146	35	92	-	G 3/4
BS 7 SL 90	1.3	231	183	50	128	-	G 1 1/4
BS 7 SL 130	1.4	279	231	50	128	-	G 1 1/4
BE 7 SL 45/21	1.3	67	146	85	92	11.5	G 1
B 7 SL 45/21	1.2	73	146	60	92	16	G 1

Directives and standardization

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.