Willibrord Lösing Filterproduktion GmbH
Am Walzwerk 2 • 45527 Hattingen

SWK

SWK-5, SWK-5/50, SWK-10, SWK-18, SWK-40, SWK-130

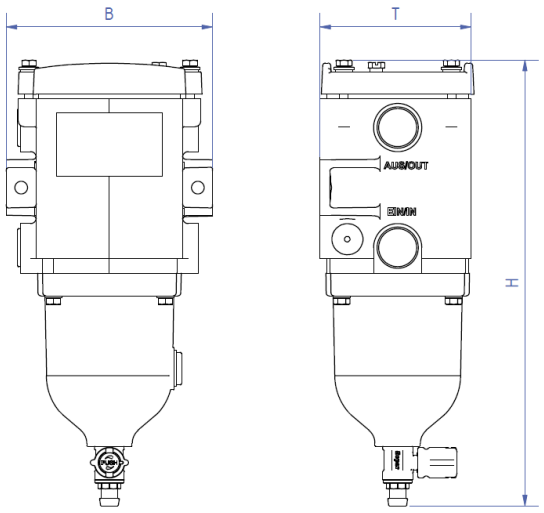
Fuel prefilter



Quick Guide

The water separator SWK reliably removes suspended particles and water from the diesel fuel. Its low weight is achieved by the compact design and the use of lightweight materials.

Mechanical data



	-5	-5/50	-10	-18	-40	-130
W [mm]	140	140	150	210	290	420
H [mm]	275	310	340	410	470	720
D [mm]	90	90	110	165	250	370

Performance data

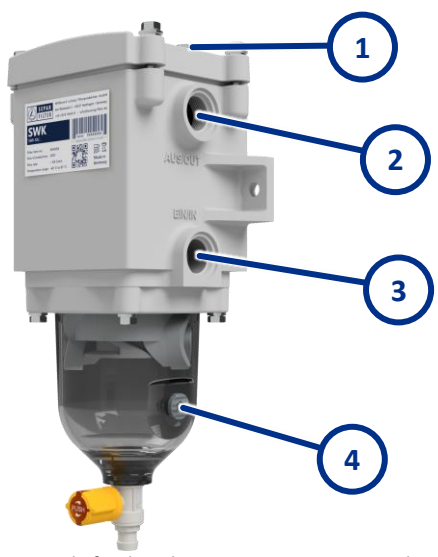
	SWK-5	SWK-5/50	SWK-10	SWK-18	SWK-40	SWK-130
Mass	< 2,5 kg	< 2,7 kg	< 3 kg	< 8 kg	< 15 kg	< 55 kg
Ambient temperature	- 40 °C ... 80 °C					
Fixing points	2	2	2	4	4	8
Mounting bore/slotted hole	Ø 9 mm	Ø 9 mm	Ø 9 mm	Ø 9 mm	Ø 12 mm	15x27 mm
Min. screw length	20 mm	20 mm	20 mm	30 mm	40 mm	40 mm
Tightening torque	Depending on the material					
Media connectors	4					
Internal thread	M16x1,5	M16x1,5	M22x1,5	M26x1,5	M33x2	G2“
Seal according	ISO 6149	ISO 6149	ISO 6149	ISO 6149	ISO 6149	USIT-Ring
Tightening torque	10 ± 1 Nm	10 ± 1 Nm	10 ± 1 Nm	15 ± 1 Nm	15 ± 1 Nm	90 ± 10 Nm
Water sensor connector (optional)						
Internal thread	PG7	PG7	PG7 or M18x1,5	PG7 or M18x1,5	PG7 or M18x1,5	M18x1,5
Tightening torque	Hand-tight					
Operating pressure	-0,8 bar ... 1 bar					
Pressure drop (at Vmax & 20 °C)	< 30 mbar	< 30 mbar	< 25 mbar	< 25 mbar	< 35 mbar	-
Volume flow (Vmax)	< 5 l/min	< 5 l/min	< 10 l/min	< 18 l/min	< 40 l/min	< 130 l/min
Separation process	Hydrophobic barrier					
Degree of water separation	> 99 % according to ISO 16332					
Available pore sizes	60 µm, 30 µm, 10 µm					
Filter surface area	approx. 3,3 dm²	approx. 8,4 dm²	approx. 11 dm²	approx. 28 dm²	approx. 47 dm²	approx. 112 dm²
Water holding capacity	approx. 120 ml	approx. 120 ml	approx. 240 ml	approx. 500 ml	approx. 1500 ml	approx. 8,5 l
Water alarm at (optional)	approx. 80 ml	approx. 80 ml	approx. 140 ml	approx. 300 ml	approx. 1250 ml	approx. 7 l

Mechanical connections

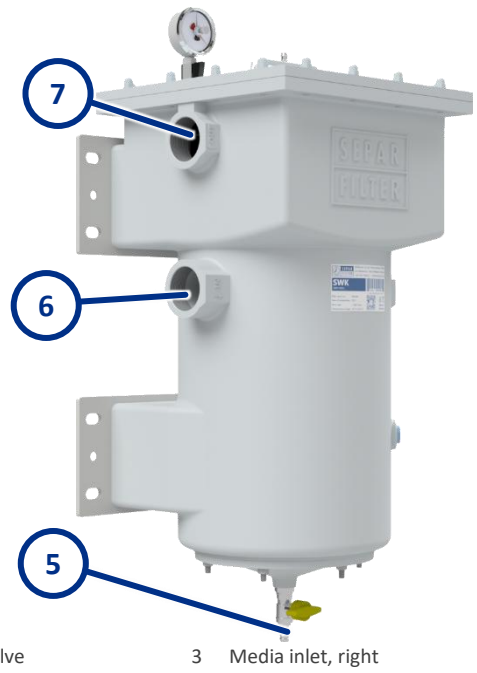
All images are for illustrative purposes only. The actual product may differ.



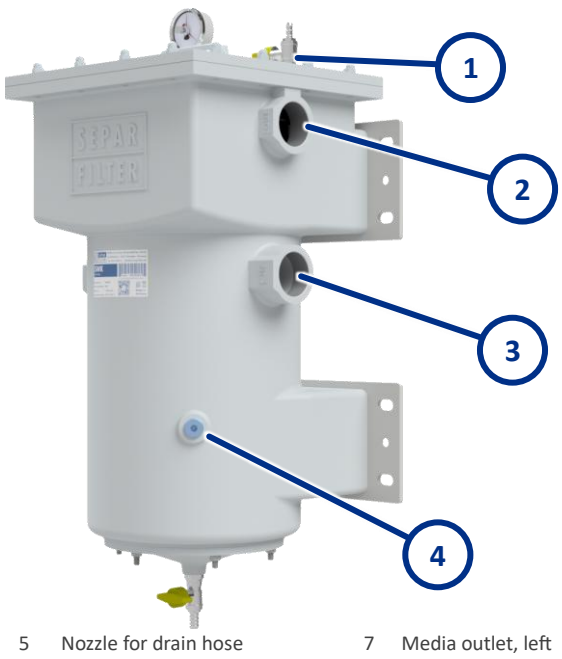
1 Bleed screw
2 Media outlet, right
3 Media inlet, right
4 Screw-in thread for water sensor (optional)



5 Nozzle for drain hose
6 Media inlet, left
7 Media outlet, left



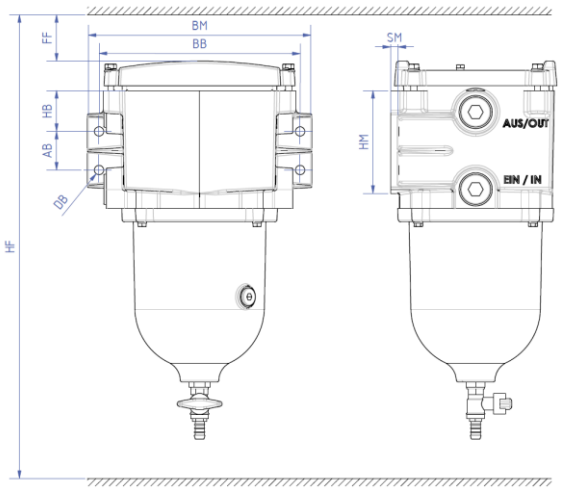
1 Bleed valve
2 Media outlet, right
3 Media inlet, right
4 Screw-in thread for water sensor



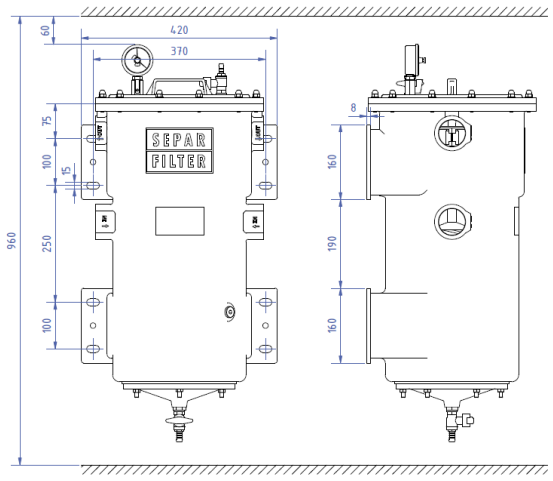
5 Nozzle for drain hose
6 Media inlet, left
7 Media outlet, left

Mounting

The filter is fixed with two, four, or eight machine screws, which are inserted through the mounting flange from the front and screwed into threaded holes.



	-5	-5/50	-10	-18	-40
AB	-	-	-	30	50
BB	120	120	125	180	260
BM	140	140	146	210	290
DB	9	9	9	9	12
FF	60	60	60	60	60
HB	26	45	63	45	53
HM	57	93	113,5	111,5	128
SM	5	5	7	7,5	10

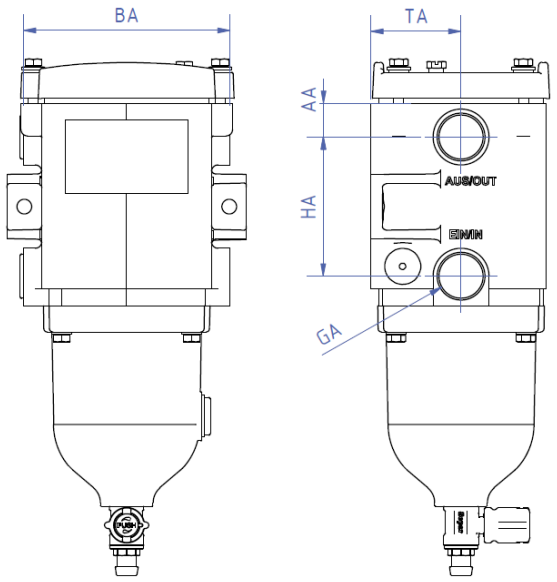


► The filter is undamaged and the package content is complete.
► The clear height (HF) specified in the sketches above is existing at the mounting location.
► The filter can be mounted so that sufficient space remains under the drain nozzle for the connection of the drain hose.
► The filter can be mounted so that sufficient space remains above the cover to allow the filter element to be replaced.
► The mounting flange does not protrude over the mounting surface.
1. Drill two, four or eight (see sketch) holes at correct separation distance from each other and horizontal to each other.
2. Deburr bores.
3. Insert all screws through the mounting flange from the front side and screw hand-tight into the mounting surface.
4. Align filter so that its axis is vertical.
5. Fix filter and tighten both screws with the admissible torque.
= The filter is mounted.

Schematic illustration: The SWK is fitted into the suction pipe between the tank and the fuel feed pump

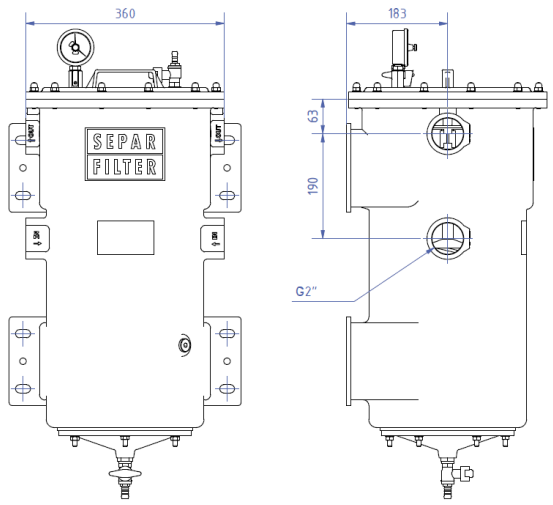
Connection

The media connections on filters SWK-5 to SWK-40 are designed as threaded bores in accordance with ISO 6149-1. Sealing plugs or connection fittings complying with ISO 6149-3 can be screwed into them.



	-5	-5/50	-10	-18	-40
AA	12,8	15,5	20,5	20	28
BA	112	112	126	184,5	242
GA	M16x1,5	M16x1,5	M22x1,5	M26x1,5	M33x2
HA	41	75	85	90	100
TA	47,5	47,5	55	83,5	110

The media connections on the SWK-130 filter are designed with a flat sealing surface. Locking screws and pipe connections are sealed using an USIT ring.



Media inlet:	Connection for the fuel line from the lowest point of the tank.
Media outlet:	Connection for the fuel line to the fuel injection system.
Nozzle for drain valve:	To facilitate drainage of the filter, a hose suitable for the medium can be fitted.
Screw-in thread for water sensor:	A water sensor, available as an accessory, can be screwed into this threaded bore; this must be monitored by additional electronic components. This allows a warning to be generated when the filter needs to be drained.

Initial commissioning

Before initial start-up, make sure that all 6 lateral connections and the water sensor connection (bottom) is tightly closed. In addition, the water drain must be shut, and all screw must be tightened.

Documentation

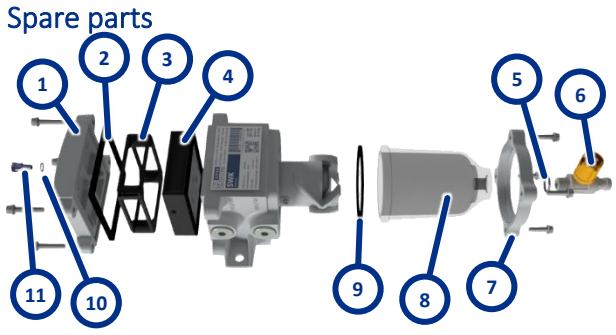
Special features and other options for this product can be found in the operating manual.

In Ihrer Sprache auf
In your language at

https://www.separ.de/swk

Other spare parts not listed here are available on request.

Spare parts

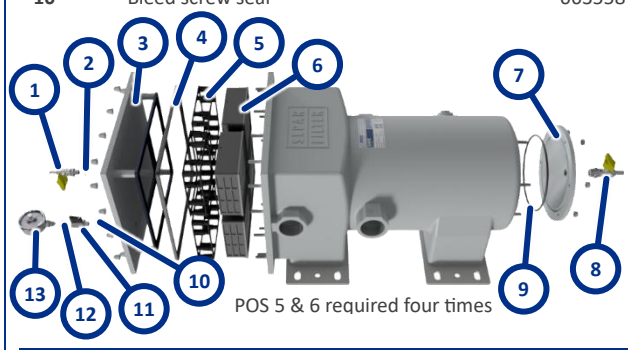


POS	Description SWK-5 & -5/50	REF
4	Filter element 00510 (10 µm)	062797
	Filter element 00510/50 (10 µm)	062575
	Filter element 00530 (30 µm)	062774
	Filter element 00530/50 (30 µm)	062776
	Stainless steel element 00560 S (60 µm)	062819
	Stainless steel element 00560/50/S (60 µm)	062025
1	Filter lid	063542
2	Lid seal	061367
3	Spring cartridge (-5)	063295
	Spring cartridge (-5/50)	063296
7	Bowl retainer ring	063564
9	Bowl seal	061366
8	Bowl transparent	063984
	Metal bowl	063981
5	Drain valve seal	061360
6	Drain valve	063366-1
11	Bleed screw	063408
10	Bleed screw seal	063558

POS	Description SWK-10	REF
4	Filter element 01010 (10 µm)	062791
	Filter element 01030 (30 µm)	062760
	Stainless steel element 01060 S (60 µm)	062836
1	Filter lid	063553
2	Lid seal	061362
3	Spring cartridge	063297
7	Bowl retainer ring	063569
9	Bowl seal	061361
8	Bowl transparent	063985
	Metal bowl	063982
5	Drain valve seal	061360
6	Drain valve	063366-1
11	Bleed screw	063408
10	Bleed screw seal	063558

POS	Description SWK-18	REF
4	Filter element 01810 (10 µm)	062660
	Filter element 01830 (30 µm)	062638
	Stainless steel element 01860 S (60 µm)	062821
1	Filter lid	063572
2	Lid seal	063421
3	Spring cartridge	063298
7	Bowl retainer ring	063575
9	Bowl seal	063423
8	Bowl transparent	063786
	Metal bowl	063793
5	Drain valve seal	061360
6	Drain valve	063366-1
11	Bleed screw	063408
10	Bleed screw seal	063558

POS	Description SWK-40	REF
4	Filter element 04010 (10 µm)	062662
	Filter element 04030 (30 µm)	062642
	Stainless steel element 04060 S (60 µm)	062866
1	Filter lid	063435
2	Lid seal	063440
3	Spring cartridge	063299
7	Bowl retainer ring	063446
9	Bowl seal	063442
8	Metal bowl	063457
6	Drain valve	063456
11	Bleed screw	063408
10	Bleed screw seal	063558



POS 5 & 6 required four times

POS	Description SWK-130	REF
6	Filter element 01810 (10 µm)	062660
	Filter element 01830 (30 µm)	062638
	Stainless steel element 01860 S (60 µm)	062821
3	Filter lid	061050
4	Lid seal	063387
5	Spring cartridge	063298
9	Bowl seal	061136
7	Filter bottom	061135
8	Drain valve	063456
1	Bleed valve	063366-1
2	Bleed valve seal	061139
10...13	Vakuummeter kit	062317