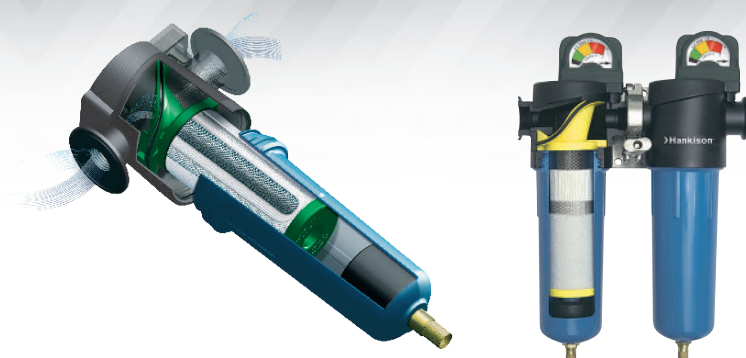


Filters

NGF SERIES

BENEFITS AND FEATURES

- The unique patented Venturi-Wave™ design of the filter element caps enables turbulence-free transition for the compressed air
- Pleated filter element with 96% cavity space reduces Δp up to 50% compared to conventional filter elements
- Coloured end caps on the filter elements clearly define filtration grades
- Easy installation of Inlet and outlet by flanges or screw coupling
- All materials are silicon-free/paint-compatible



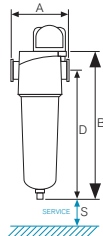
Filtration Degree & Efficiency	SF ■	PF ■	HF ■	UF ■	CF ■
Max. inlet load	25,000 ppm w/w	2,000 ppm w/w	1,000 ppm w/w	100 ppm w/w	0.01 ppm w/w
Solid particles	$\leq 3.0 \mu\text{m}$	$\leq 1.0 \mu\text{m}$	$\leq 0.01 \mu\text{m}$	$\leq 0.01 \mu\text{m}$	$\leq 0.01 \mu\text{m}$
Liquid	$\leq 3.0 \mu\text{m}$	$\leq 1.0 \mu\text{m}$	$\leq 0.01 \mu\text{m}$	$\leq 0.01 \mu\text{m}$	–
Oil	$\leq 5 \text{ mg/m}^3$	$\leq 0.5 \text{ mg/m}^3$	$\leq 0.01 \text{ mg/m}^3$	$\leq 0.0008 \text{ mg/m}^3$	–
Oil vapour	–	–	–	–	$\leq 0.003 \text{ mg/m}^3$
Quality class particles	3	2	1	1	1
Quality class oil	5	2	1	1	1
Particle retention efficiency	–	99.999 %	99.999 %	99.999 %	99.999 %
Oil retention efficiency	50 %	80 %	99.99 %	99.99 %	–

The Hankison® particle and oil filters and carbon adsorbers comply with the ISO 8573-1:2001 and ISO 12500:2007 requirements class 1 till 5 and offer an optimal and economical protection for compressed air applications.

Accessories		SF			PF			HF			UF			CF			Flange Series
		02-07	08-12	13-17	02-07	08-12	13-17	02-07	08-12	13-17	02-07	08-12	13-17	02-07	08-12	13-17	HF 52 – 80
Differential pressure monitoring	Differential pressure indicator	●	–	–	●	–	–	●	–	–	●	–	–	–	–	–	–
	Differential pressure gauge	○	●	●	○	●	●	○	●	●	○	●	●	–	–	–	●
	Differential pressure gauge with potential free alarm contact	○	○	○	○	○	○	○	○	○	○	○	○	–	–	–	○
Drains	Float drain	●	●	–	●	●	–	●	●	–	●	●	–	–	–	–	○
	Timer drain	○	○	–	○	○	–	○	○	–	○	○	–	–	–	–	○
	Electronic Level Controlled drain	○	○	●	○	○	●	○	○	●	○	○	●	–	–	–	○
	Manual drain	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●
Oil content indicator		–	–	–	–	–	–	–	–	–	–	–	–	○	○	○	○

General Data	
Medium	Compressed air
Housing	F02 – 17-B: Die-Cast Aluminium
Colour	RAL 5015 (blue) • Flange Vessel Series: RAL 7016 (Anthracite grey)
Location	Indoors
Vessel certifications	CE
IP rating	IP 65

Model	Flow Rate*	Connection	Dimensions						Weight	Filter Elements					Count						
			A	B	C	D	E	S		SF	PF	HF	UF	CF							
	m³/h		mm						kg												
F02-B-SF/PF/HF/UF/CF	34	1/4"	114	206	-	171	-	102	0.8	SF-02	PF-02	HF-02	UF-02	CF-02	1						
F03-B-SF/PF/HF/UF/CF	59	3/8"		252		216		102	0.9	SF-03	PF-03	HF-03	UF-03	CF-03							
F04-B-SF/PF/HF/UF/CF	85	1/2"								SF-04	PF-04	HF-04	UF-04	CF-04							
F06-B-SF/PF/HF/UF/CF	127	3/4"	132	262		220		127	1.4	SF-06	PF-06	HF-06	UF-06	CF-06							
F07-B-SF/PF/HF/UF/CF	175			326		284			1.6	SF-07	PF-07	HF-07	UF-07	CF-07							
F08-B-SF/PF/HF/UF/CF	267	1"	200	326		284		178	1.6	SF-08	PF-08	HF-08	UF-08	CF-08							
F10-B-SF/PF/HF/UF/CF	437	1 1/2"		337		276			3.8	SF-10	PF-10	HF-10	UF-10	CF-10							
F11-B-SF/PF/HF/UF/CF	612			434		373			4.5	SF-11	PF-11	HF-11	UF-11	CF-11							
F12-B-SF/PF/HF/UF/CF	681	2"		231		566		505	204	5.3	SF-12	PF-12	HF-12	UF-12		CF-12					
F13-B-SF/PF/HF/UF/CF	993	2 1/2"				634		550		8.4	SF-13	PF-13	HF-13	UF-13		CF-13					
F14-B-SF/PF/HF/UF/CF	1,317										SF-14	PF-14	HF-14	UF-14		CF-14					
F15-B-SF/PF/HF/UF/CF	1,750	231									SF-15	PF-15	HF-15	UF-15		CF-15					
F16-B-SF/PF/HF/UF/CF	2,039									733	12.6	SF-16	PF-16	HF-16	UF-16	CF-16					
F17-B-SF/PF/HF/UF/CF	2,549	3"	1,085			1,001		28.7		SF-17	PF-17	HF-17	UF-17	CF-17							



F02 - F17

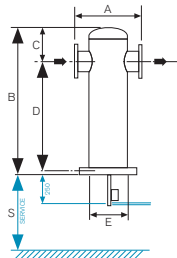
Flange Vessel Series	Flow Rate*	Connection	Dimensions						Weight	Filter Elements						Count
			A	B	C	D	E	S		9	7	6*	5	3	1	
	m³/h		mm						kg							
HF 1/3/5/6/7/9/11-52	1,110	DN 80	350	1,037	134	903	168	610	28.4	E9-PV	E7-PV	E6-PV	E5-PV	E3-PV	E1-PV	1
HF 1/3/5/6/7/9/11-54	1,700		400	1,045	137	908	219		37.0	E9-54	E7-54	E6-54	E5-54	E3-54	E1-54	2
HF 1/3/5/6/7/9/11-56	2,125								37.4							2
HF 1/3/5/6/7/9/11-60	3,158	DN 100	440	1,085	168	917	273		48.4	E9-PV	E7-PV	E6-PV	E5-PV	E3-PV	E1-PV	3
HF 1/3/5/6/7/9/11-64	4,250		535	1,105	185	920	324		64.4							4
HF 1/3/5/6/7/9/11-68	5,310								65.4							5
HF 1/3/5/6/7/9/11-72	8,490	DN 150	600	1,215	255	960	400		118.4							8
HF 1/3/5/6/7/9/11-76	11,670		720	1,245	278	967	500		171.4							11
HF 1/3/5/6/7/9/11-80	14,850		750	1,265	294	971	550		224.4							14

* The capacity of the dryer is based on the intake volume of the compressor at 20°C, 1 bar (a).

Nominal dryer capacity according to ISO 7183: Operating pressure 7 bar (g). Pressure dew point +3°C.

Operating temperature 35°C. | Technical data and specification are subject to change without prior notice

* E6 available as high-temperature version (200°C), others on demand.



HF...52 - HF...80

Design Data*	Min.	Nom.	Max.
Operating pressure	2 bar (g)	7 bar (g)	16 bar (g)
Ambient temperature	+2 °C	+20 °C	+55 °C
Operating temperature	+2 °C	+20 °C	+66 °C

* The following correction factors need to be used to select the correct unit for other operating conditions.

Correction factors for differing inlet pressures in bar (g)																
bar (g)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
F02 - F17	0.38	0.5	0.63	0.75	0.88	1	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2	2.13	
HF...52 - HF...80																

Filter elements	SF	PF	HF	UF	CF
Starting pressure loss (dry) bar	0.06	0.04	0.04	0.06	0.07
Starting pressure loss (wet) bar	0.07	0.10	0.12	0.14	-
Change elements at pressure difference of bar*	0.40	0.40	0.40	0.40	1,000 h

* latest after 12 months or at a differential pressure of 400 mbar. Activated carbon elements latest after 1,000 operating hours.



Industrial Technologies & Services ATS Moers GmbH
Konrad-Zuse-Straße 25
47445 Moers, Germany
Tel.: +49 (0) 28 41 / 8 19-0 | Fax: +49 (0) 28 41 / 8 19 83
E-Mail: insidesales_moers@spxfow.com