

PRESSURE

MAX WORKING PRESSURE	150 bar [2175 psi]
TESTING PRESSURE	270 bar [3916 psi]
BURST PRESSURE	540 bar [7832 psi]
ELEMENT COLLAPSE PRESSURE RATING (ISO 2941)	20 bar [290 psi]

FLOW

MAX FLOW	85 l/min [22.5 gpm]
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MATERIALS

HEAD	Anodized aluminum
BOWL	Anodized aluminum
SEALS	Buna Viton
END CAPS	Zinc plated steel
INNER TUBE	Zinc plated steel

FILTER MEDIA

MICROFIBER β x(c) ≥ 1000	FG003	3 μm
	FG006	6 μm
	FG010	10 μm
	FG016	16 μm
	FG025	25 μm

WORKING TEMPERATURE

BUNA	-30 ± 90 °C [-22 ± 194 °F]
VITON	-20 ± 110 °C [-4 ± 230 °F]

BY-PASS VALVE

BY-PASS SETTING	6 bar [87 psi]
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FLUIDS COMPATIBILITY - ISO 2943 (N. ISO 6743/4)

MINERAL OIL (1)	HH - HL - HM - HR - HV - HG
WATER EMULSIONS (1)	HFAE - HFAS
GLYCOL WATER (1)	HFC
SYNTHETIC FLUIDS (2)	HS - HFDR - HFDU - HFDS

(1) With Buna seals

(2) With Viton seals



MAIN FEATURES

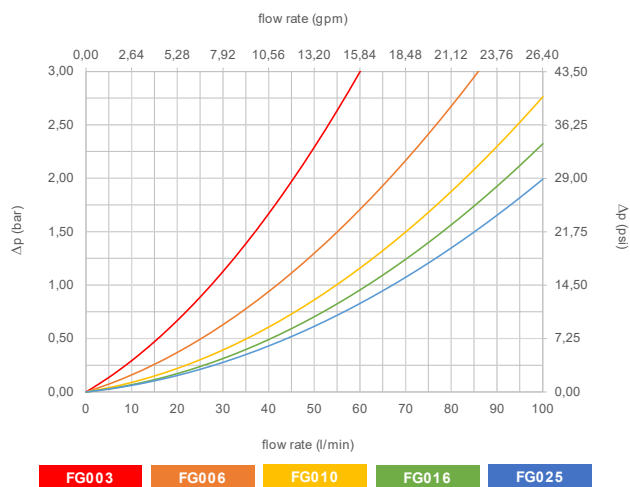
- Lightweight medium pressure filter
- Different mounting options
- Visual and electrical differential indicators available

APPLICATION FIELDS

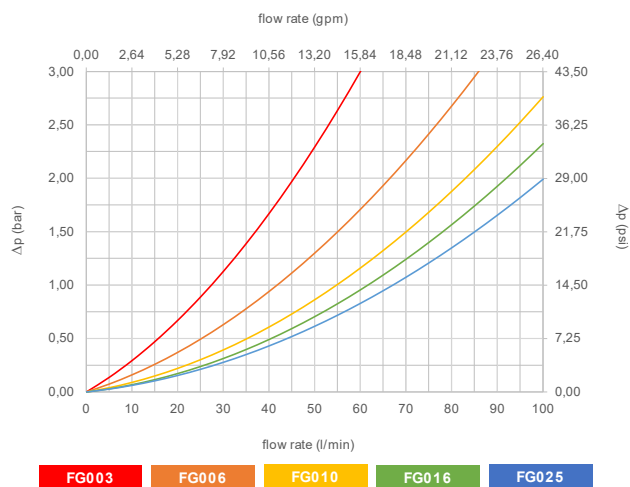


HF690 PRESSURE DROP CURVES

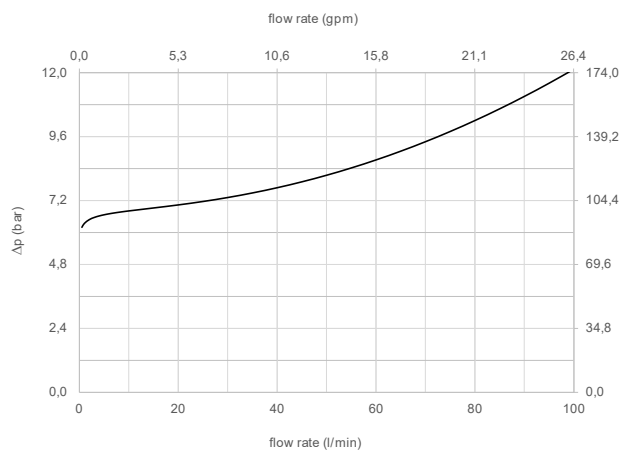
HF690-10.090



HF690-10.179



BY-PASS VALVE PRESSURE DROP CURVE

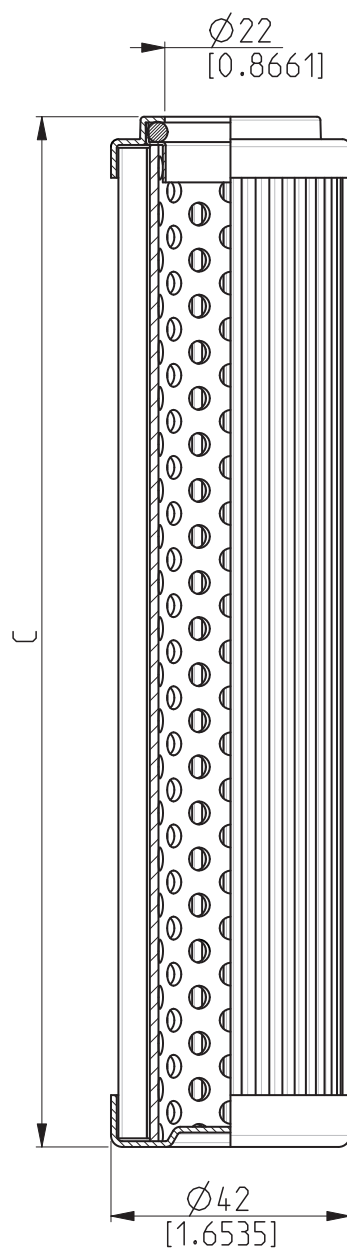


► Curves determined under the following conditions: SAE10 mineral oil - 30 cSt kinematic viscosity - 0,856 kg/dm³ density

FLOWS CHART

FILTER TYPE	INLET	FILTRATION DEGREE				
	IN/OUT	FG003	FG006	FG010	FG016	FG025
	GAS (BSPP)	l/min [gpm] with $\Delta p = 2 \text{ bar}$ [29 psi]				
HF690-10.090	G 1/2	25 [6.6]	35 [9.2]	50 [13.2]	60 [15.9]	65 [17.2]
HF690-10.179	G 1/2	45 [11.9]	55 [14.5]	70 [18.5]	75 [19.8]	85 [22.5]

HEK85 FILTER ELEMENT DIMENSIONS



ELEMENT TYPE	WEIGHT	A
	kg [lb]	mm [in]
HEK85-10.090	0,13 [0.29]	90 [3.60]
HEK85-10.179	0,22 [0.49]	179 [7.16]

OPERATING INSTRUCTIONS

ASSEMBLY

After checking the integrity of the filter inside its package, proceed as follows:

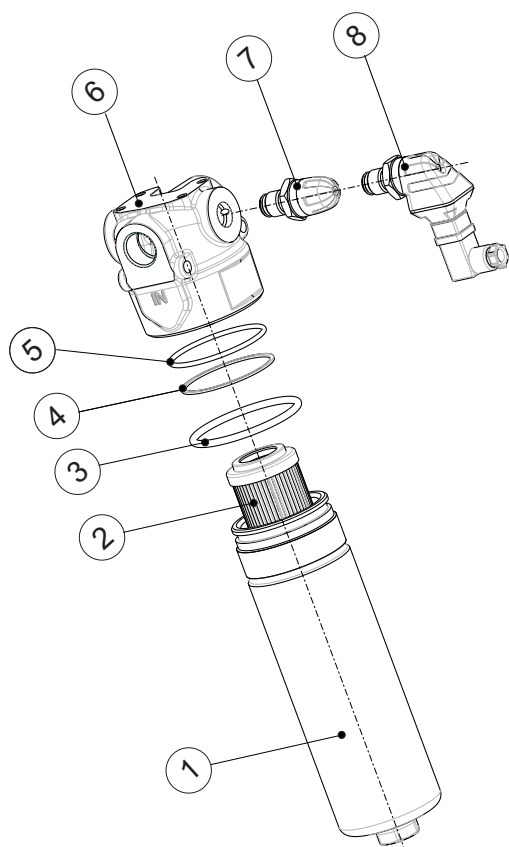
- Take the protection caps off the in/out ports.
- Secure the filter through the threaded holes in the head or on the side.
- Connect the circuit pipes to the filter and check the flow direction pointed out by the arrow or the in and out engravings on the head.
- If the filter has a clogging indicator, take the protection cap off and screw the indicator in the dedicated seat at a torque of 60 Nm.
- Start the circuit for a few minutes.
- Make sure there are no leaks.

ELEMENT REPLACEMENT

Proceed as follows:

- Stop the machine.
- Secure any shut-off valves in the hydraulic circuit.
- Unscrew the filter bowl with the maximum care.
- Remove the clogged element and make sure no residual particles have settled on the bottom.
- Make sure the seals are not damaged, otherwise replace them correctly.
- Insert the new element after lubricating the o-ring beforehand.
- Screw the bowl tightly and make sure the thread is screwed correctly. Tighten to the following torque: 50 Nm
- Re-open any valves and start the machine for a few minutes.
- Make sure there are no leaks.

EXPLODED VIEW



N.	COMPONENT
1	Bowl
2	Filter element
3	External seal
4	Anti-extruder
5	O-ring
6	Head
7	Visual indicator
8	Visual-electrical indicator

BUILD YOUR FILTER

Write here



1	HF690	FILTER TYPE	
2		DIMENSION	
	Dimension	10.090	10.179
3		FILTER SURFACE	
	Standard	AS	AS
4		FILTRATION DEGREE	
	3 [µm] Microfiber	FG003	FG003
	6 [µm] Microfiber	FG006	FG006
	10 [µm] Microfiber	FG010	FG010
	16 [µm] Microfiber	FG016	FG016
	25 [µm] Microfiber	FG025	FG025
5		COLLAPSE RATING	
	20 bar	LC	LC
6		BY-PASS VALVE	
	6 bar setting	B60	B60
	Without	B00	B00
7		INLET/OUTLET	
	G 1/2"	GD	GD
8		SEALS	
	Buna	B	B
	Viton	V	V
9		INDICATOR PORTS	
	Right	XA	XA
	Left	XB	XB
	On top	XD	XD
10		INDICATORS*	
	Without	G	G
	Visual indicator	J	J
	Visual-electrical indicator	T	T
11		SECONDARY INLET/OUTLET	
	Right inlet	YA	YA
	Left inlet	YB	YB
	Right outlet	ZA	ZA
	Left outlet	ZB	ZB
12		MOUNTING	
	On top (4 holes)	F2	F2
	On top (2 holes)	F3	F3
	Side	F1	F1

*: see dedicated catalog

► For special requests please contact our Sales Department.

BUILD YOUR FILTER ELEMENT

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1	HEK85	ELEMENT TYPE	
2		DIMENSION	
	Dimension	10.090	10.179
3		FILTER SURFACE	
	Standard	AS	AS
4		FILTRATION DEGREE	
	3 [µm] Microfiber	FG003	FG003
	6 [µm] Microfiber	FG006	FG006
	10 [µm] Microfiber	FG010	FG010
	16 [µm] Microfiber	FG016	FG016
	25 [µm] Microfiber	FG025	FG025
5		COLLAPSE RATING	
	20 bar	LC	LC
6		SEALS	
	Buna	B	B
	Viton	V	V

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NOTES

[illegible]

SUCTION FILTERS

HF410
HF431/434/437

RETURN FILTERS

HF502/508
HF510
HF532
HF547
HF554
HF570/575/578

SUCTION AND RETURN FILTERS

HF535
HF595

SPIN-ON FILTERS

HF620/625
HF650

MEDIUM AND HIGH PRESSURE FILTERS

HF690
HF705
HF710
HF725
HF735
HF745
HF749
HF760

HAND PUMPS

EP15/25/45
TXA

ACCESSORIES

HB50/70/110/120
AF105/106
HBO2/HL91/HL98
CLOGGING INDICATORS

FILTRATION DEVICES

FLUX OIL IK15/50
R15/50



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