

# Rücklauffiltergehäuse für Tankeinbau



Baureihe	Bestell-Nr.	Bezeichnung	Anschlussgewinde	Arbeitsdruck in bar	Höhe Filterkopf in mm	Gesamtlänge in mm	Anschluss Verschmutzungsan- zeige	passendes Filterele- ment
HF595-10.060	300-070-1000	HF595-10.060-GD-B-Z-DA-G	1/2"	10	19	125	1/8"	HEK02-10.060
HF595-20.077	300-070-1050	HF595-20.077-GE-B-Z-DA-G	3/4"	10	27	151	1/8"	HEK02-20.077
HF595-20.122	300-070-1100	HF595-20.122-GF-B-Z-DA-G	1"	10	27	195	1/8"	HEK02-20.122
HF595-30.195	300-070-1150	HF595-30.195-GG-B-Z-DA-G	1 1/4"	10	33	275	1/8"	HEK02-30.195



# TECHNICAL CHARACTERISTICS



HF 595 filter series are tank mounted and can be connected to the suction or return line of the circuit, they protect the circuit components from contaminating particles.

- Reduced space occupied in the tank
- Filler cap availability
- Maximum working pressure 218 psi (15bar)

MATERIALS	
Cover	Aluminum
Bowl	Aluminum
Seals	Buna - Viton
End cap	Zinc plated steel
Inner tube	Zinc plated steel
	Stainless steel
Filter media	Cellulose
	Micro-fibre glass

FLUID COMPATIBILITY	
Conforming to ISO 2943 (Norm ISO 6743/4)	
Oil mineral (1)	HH - HL - HM - HR - HV - HG
Water emulsion (1)	HFAE - HFAS
Synthetic fluid (2)	HS - HFDR - HFDU - HFDS
(1) With Buna seals	
(2) With Viton seals	

FLOW	
Flow max. (Suction)	21 US gpm (80 l/min)
Flow max. (Return)	53 US gpm (200 l/min)

PRESSURE	
Working pressure	218 psi (15 bar)
Testing pressure	334 psi (23 bar)
Burst pressure	435 psi (30 bar)
Element collapse pressure rating (conforming to ISO 2941)	145 psi (10 bar)

BY-PASS VALVE	
By-pass setting	2.9 psi (0,2 bar) (Suction)
By-pass setting	25 psi (1,7 bar) (Return)

OPERATING TEMPERATURE	
With Buna seals	-22 ÷ 195 °F (-30 ÷ 90 °C)
With Viton seals	-4 ÷ 230 °F (-20 ÷ 110 °C)

DEGREE OF FILTRATION		
<b>Absolute Filtration</b>		
Code	Material	Degree of filtration
FG010	Micro-fibre glass	10 µm
FG025	Micro-fibre glass	25 µm

Nominal Filtration		
Code	Material	Degree of filtration
RP010	Reinforced cellulose	10 µm
RP025	Reinforced cellulose	25 µm
SP010	Cellulose	10 µm
SP025	Cellulose	25 µm
MI060	Stainless steel wire mesh	60 µm
MI125	Stainless steel wire mesh	125 µm

SP010 and SP025 filtration degrees can be supplied only for HF 595-10.060 and HF 595-20.077

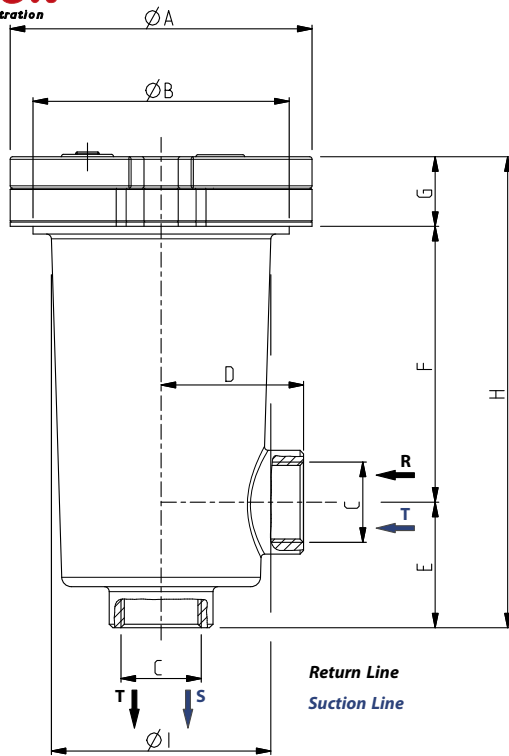
RP010 and RP025 filtration degrees can be supplied only for HF 595-20.122 and HF 595-30.195

INDICATORS (3)	
Radial manometer	
Visual indicator	
Electical indicator	

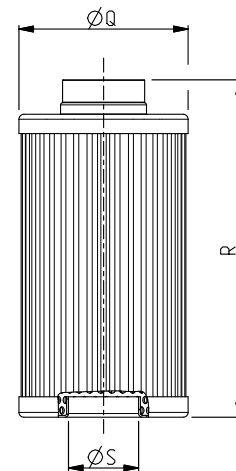
(3) Characteristics and dimension at page 4



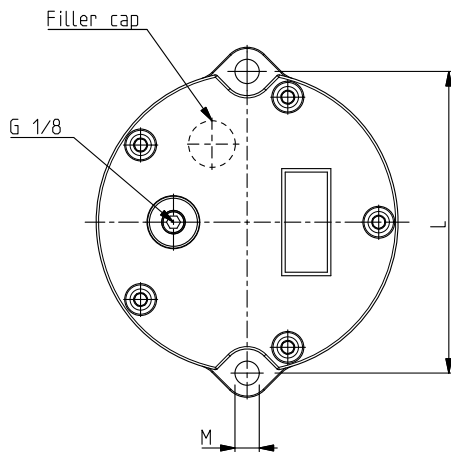
# HF 595 DIMENSIONS



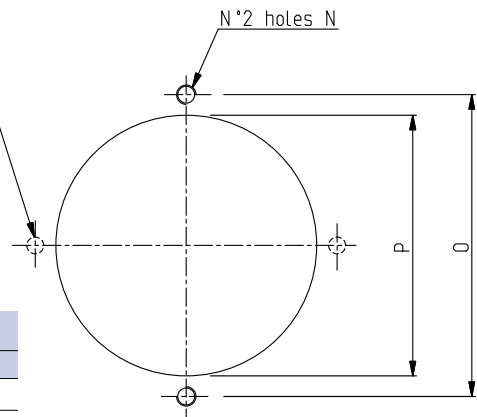
**Element HE K02**



**Reservoir mounting hole dimensions**



N\*4 90° holes N  
(30 version only)



Filler cap	
Filter type	GAS-BSP
HF 595-10	G 3/8
HF 595-20	G 1/2
HF 595-30	G 3/4

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Filter type	ØA	ØB	C	D	E	F	G	H	ØI	L	M	N	O	P
	mm(in)	mm(in)												
HF 595-10.060	100 (3.9369)	80 (3.1495)	G 1/2	48 (1.8897)	41 (1.6141)	65 (2.5590)	22 (0.8661)	126 (4.9606)	71 (2.7952)	100 (3.9369)	7 (0.2755)	M6	100 (3.9369)	82 (3.2283)
HF 595-20.077	125 (4.9212)	106 (4.1732)	G 3/4	59 (2.3228)	52 (2.0472)	72 (2.8346)	29 (1.1417)	151 (5.9448)	91 (3.5826)	125 (4.9212)	9 (0.3543)	M8	125 (4.9212)	108 (4.2519)
HF 595-20.122	125 (4.9212)	106 (4.1732)	G 1	59 (2.3228)	52 (2.0472)	116 (4.5669)	29 (1.1417)	195 (7.6771)	91 (3.5826)	125 (4.9212)	9 (0.3543)	M8	125 (4.9212)	108 (4.2519)
HF 595-30.195	175 (6.8897)	147 (5.7873)	G 1 1/4	84 (3.3070)	63 (2.4803)	179 (7.0472)	35 (1.3779)	275 (10.8267)	138 (5.4330)	175 (6.8897)			175 (6.8897)	149 (5.8661)

Element type	Filtering surface		
	Ø Q	Ø R	S
	mm(in)	mm(in)	mm(in)
HE K02-10.060	26 (1.0226)	52 (2.0472)	75 (2.9527)
HE K02-20.077	29 (1.1417)	70 (2.7558)	95 (3.7401)
HE K02-20.122	29 (1.1417)	70 (2.7558)	140 (5.5117)
HE K02-30.195	41 (1.6141)	99 (3.8976)	212 (8.3664)

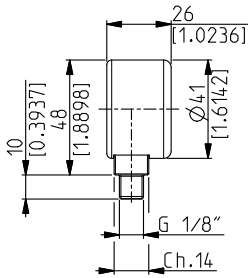
Element type	Filtering surface		
	FG	MI	RP / SP
	cm <sup>2</sup> (in <sup>2</sup> )	cm <sup>2</sup> (in <sup>2</sup> )	cm <sup>2</sup> (in <sup>2</sup> )
HE K02-10.060	346 (53.6301)	227 (35.1850)	400 (62.0001)
HE K02-20.077	702 (108.8102)	444 (68.8201)	850 (131.7503)
HE K02-20.122	1113 (172.5153)	615 (95.3251)	1347 (208.7854)
HE K02-30.195	3705 (574.2761)	2048 (317.4406)	4485 (695.1764)



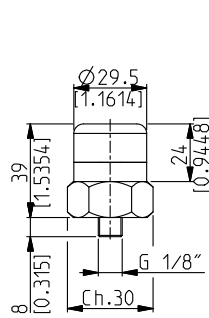
# INDICATORS



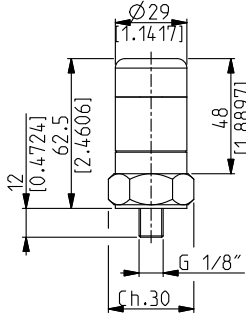
Indicator N



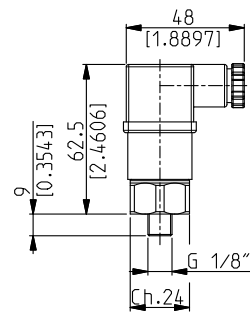
Indicator V



Indicator P



Indicator E / S



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## FLOWS

Filter type	Ports IN / OUT GAS (BSPP)	Degree of filtration					
		FG010	FG025	MI060	MI125	RP010/SP010	RP025/SP025
		Flow $\Delta p = 1.4$ psi (0,1 bar) (Suction) / $\Delta p = 5.8$ psi (0,4 bar) (Return)					
US gpm (l/min)							
HF 595-10.060	G 1/2	* / 40 (15)	* / 53 (20)	26 (10) / 66 (25)	40 (15) / 79 (30)	13 (5) / 40 (15)	26 (10) / 52 (20)
HF 595-20.077	G 3/4	* / 79 (30)	* / 106 (40)	66 (25) / 172 (65)	79 (30) / 185 (70)	40 (15) / 132 (50)	66 (25) / 171 (65)
HF 595-20.122	G 1	* / 145 (55)	* / 198 (75)	119 (45) / 264 (100)	132 (50) / 290 (110)	53 (20) / 224 (85)	106 (40) / 290 (110)
HF 595-30.195	G 1 1/4	* / 325 (123)	* / 343 (130)	185 (70) / 502 (190)	211 (80) / 528 (200)	145 (55) / 396 (150)	158 (60) / 502 (190)

\*Do not use FG010 and FG025 in suction line

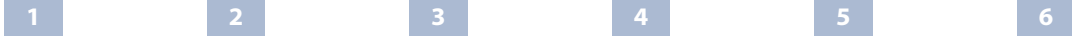
## HOW TO ORDER A COMPLETE FILTER



HF 595 - 10.060 - AS - FG010 - B17 - GD - B - H - Z - DA - G

<b>1 Filter type</b> CODE See table pag. 3 <b>HF 595-</b>	<b>4 By-pass setting valve</b> CODE Without With By-pass setting valve 29 psi (0,2 [bar]) <b>B02</b> With By-pass setting valve 25 psi (1,7 [bar]) <b>B17</b>	<b>8 Magnetic set</b> CODE Without <b>Z</b> With magnetic set
<b>2 Filtering surface</b> CODE Standard <b>AS</b>	<b>5 Ports IN / OUT</b> CODE G 1/2 <b>GD</b> G 3/4 <b>GE</b> G 1 <b>GF</b> G 1 1/4 <b>GG</b>	<b>9 Indicator's port dimens.</b> CODE GAS Threads (BSPP) G 1/8 with plug <b>DA</b>
<b>3 Degree of filtration</b> CODE 10 [µm] Micro-fibre glass <b>FG010</b> 25 [µm] Micro-fibre glass <b>FG025</b> 60 [µm] Stainless steel wire mesh <b>MI060</b> 125 [µm] Stainless steel wire mesh <b>MI125</b> 10 [µm] Reinforced cellulose <b>RP010</b> 25 [µm] Reinforced cellulose <b>RP025</b> 10 [µm] Cellulose <b>SP010</b> 25 [µm] Cellulose <b>SP025</b>	<b>6 Seals</b> CODE Buna <b>B</b> Viton	<b>10 Indicators</b> CODE Without <b>G</b> Manometer - radial connection <b>N</b> Visual indicator (Suction) <b>V</b> Visual indicator (Return) <b>P</b> Electrical indicator (Suction) Electrical indicator (Return)
	<b>7 Filler cap</b> CODE Without <b>H</b> With filler cap	<input type="checkbox"/> Standard <input type="checkbox"/> On request

## HOW TO ORDER A REPLACEMENT ELEMENT



HE K02 - 10.060 - AS - FG010 - VM - B17 - B

<b>1 Element type</b> CODE See table pag. 3 <b>HE K02-</b>	<b>3 Degree of filtration</b> CODE 10 [µm] Micro-fibre glass <b>FG010</b> 25 [µm] Micro-fibre glass <b>FG025</b> 60 [µm] Stainless steel wire mesh <b>MI060</b> 125 [µm] Stainless steel wire mesh <b>MI125</b> 10 [µm] Reinforced cellulose <b>RP010</b> 25 [µm] Reinforced cellulose <b>RP025</b> 10 [µm] Cellulose <b>SP010</b> 25 [µm] Cellulose <b>SP025</b>	<b>4 By-pass valve</b> CODE With valve and spring <b>VM</b> With valve - without spring
<b>2 Filtering surface</b> CODE Standard <b>AS</b>	<b>5 By-pass setting valve</b> CODE With cap instead of By-pass valve <b>B00</b> With By-pass setting valve 29 psi (0,2 [bar]) <b>B02</b> With By-pass setting valve 25 psi (1,7 [bar]) <b>B17</b>	<b>6 Seals</b> CODE Buna <b>B</b> Viton
<input type="checkbox"/> Standard <input type="checkbox"/> On request		

HF 595 01 TA

