

## Compressed Air Filters

Description	Operating pressure max. bar	Connection thread	Device	Page
bronze In-Line-Filter	21	G $\frac{1}{4}$ - G $\frac{1}{2}$	137	<b>16.02</b>
In-Line-Filter 0,3 $\mu$ m	9	nipple $\varnothing$ 4. 6 mm	F400	<b>16.02</b>
„Miniature“-Series	21	G $\frac{1}{8}$ and G $\frac{1}{4}$	F504	<b>16.03</b>
made of plastic	16	G $\frac{1}{8}$ - G1	F035 ... F095	<b>16.04</b>
made of plastic, with FDA-approval	10	G $\frac{1}{8}$ - G $\frac{3}{4}$	FH	<b>16.06</b>
„Maxi“-Series, robust, block design	17	G $\frac{1}{4}$ - G1	F20	<b>16.07</b>
made of brass, many variations	50	G $\frac{1}{8}$ - G2	FM	<b>16.08</b>
„Standard“-Series, robust	21	G $\frac{1}{4}$ - G2	F602	<b>16.10</b>
Series „D“, made of aluminium/die-cast zinc	30	G $\frac{1}{8}$ - G2	FD	<b>16.12</b>
3 $\mu$ m pre-filter	16	G $\frac{1}{4}$ - G3	FG.V	<b>16.14</b>
1 $\mu$ m fine filter	16	G $\frac{1}{4}$ - G3	FG.Z	<b>16.14</b>
0.01 $\mu$ m fine filter	16	G $\frac{1}{4}$ - G3	FG.X	<b>16.15</b>
activated carbon filter	16	G $\frac{1}{4}$ - G3	FG.A	<b>16.15</b>
high pressure filter, also for oxygen	60	G $\frac{3}{8}$ - G2	F445, F465	<b>16.16</b>
filter silencer	16	G $\frac{1}{4}$ - G2	SFE	<b>16.17</b>
condensate / tank drain	18	G $\frac{1}{2}$	D11, D608	<b>16.18</b>



# 16 Compressed Air Filters



**Micro in-line filter F400**

**Description** Micro in-line filters are widely used in medical and process technology for cleaning compressed air for use in instruments and pneumatic logic systems. The micro in-line filter removes particles, oil and mist from compressed air. Also suitable for vacuum.

**Filter element** The borosilicate micro-filter is manufactured in a special vacuum process which reduces the adhesive properties of the borosilicate fibres down to a minimum in order to achieve outstanding filtering capability. When saturated with oil, the filter turns red to indicate that replacement is required.

**Filtration efficiency** 99.999% based on 0.03 µm particle size

**Operating pressure** max. 9 bar

**Connection** Fitted with nipples able to take up hoses of 4.3 mm (11/16") or 6.3 mm (¼") internal diameter. Flow direction from INside to OUTside to be noted.

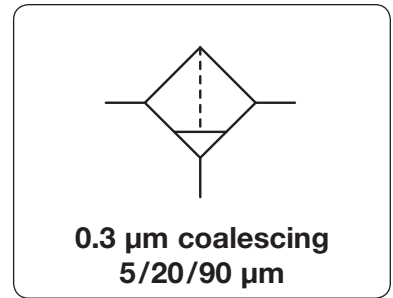
**Bronze in-line filter 137**

**Description** Bronze in-line filter for compressed air with coarse impurities.

**Filter element** 90 µm, 20 µm or optionally 5 µm, made of sintered bronze

**Operating pressure** max. 21 bar

**Drainage** with or without manual drain

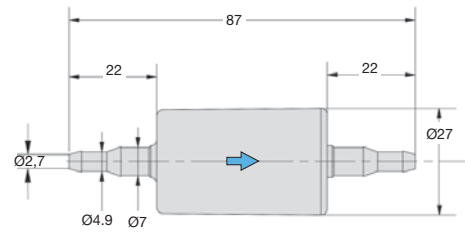


Dimensions			Description	Flow rate		P <sub>1</sub> max. bar	Filter element µm	Connection thread nipple/G	Order number
A	B	C		m <sup>3</sup> /h*1	l/min*1				

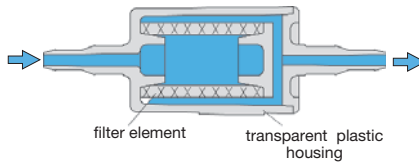
Micro in-line filter			operating pressure max. 9 bar				F400		
87	43	Ø 27	borosilicate-micro filter	4.2	70	9	0.3	Ø 4 and Ø 6	F400



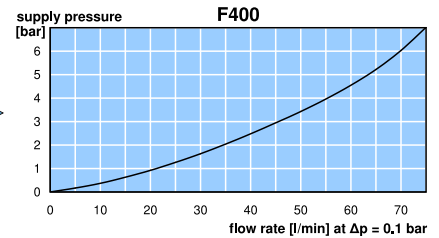
F400



F400



cross section



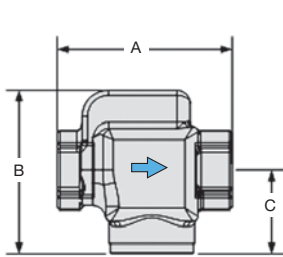
Bronze in-line filter			operating pressure max. 21 bar				137		
67	63	32	without manual drain	39	650	21	90	G¼	137-02
				42	700	G¾	137-03		
				44	740	G½	137-04		
			with manual drain	39	650	21	20	G¼	137-02H
				42	700	G¾	137-03H		
				44	740	G½	137-04H		
67	79	48	without manual drain	19	320	21	5	G¼	137-02V
				21	350	G¾	137-03V		
				22	370	G½	137-04V		
			with manual drain	39	650	21	90	G¼	137-02A
				42	700	G¾	137-03A		
				44	740	G½	137-04A		
			with manual drain	39	650	21	20	G¼	137-02AH
				42	700	G¾	137-03AH		
				44	740	G½	137-04AH		
with manual drain	19	320	21	5	G¼	137-02AV			
	21	350	G¾	137-03AV					
	22	370	G½	137-04AV					



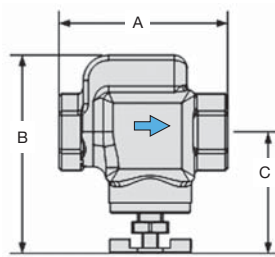
137-04



137-04A



137-...



137-...A.

\*1 at 7 bar operating pressure and 0.1 bar pressure drop

Spare parts: see separate spare parts list

PDF CAD  
www.aircom.net



Order example:  
F400

<b>Description</b>	Miniature compressed air filter of small, compact design. Ideal for limited space conditions.
<b>Filter element</b>	20 µm, optionally 5 µm, made of propylene
<b>Bowl</b>	plastic or metal version
<b>Drainage</b>	manual drain as standard, for max. 21 bar optionally semiautomatic drain, for max. 12 bar
<b>Operating pressure</b>	max. 11 bar for plastic bowl max. 21 bar for metal bowl
<b>Temperature range</b>	0 °C to 50 °C / 32 °F to 122 °F for plastic bowl and semiautomatic drain version 0 °C to 80 °C / 32 °F to 176 °F for metal bowl for appropriately conditioned compressed air down to -30 °C / -22 °F
<b>Material</b>	Body: aluminium Bowl: polyurethane or zinc die-cast Elastomer: NBR/Buna-N



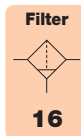
Dimensions			Bowl	Flow	Supply	Filter	Connection	Order
A	B	C	Design	Capacity	rate	element	thread	number
mm	mm	mm	made of	l	m <sup>3</sup> /h*1	l/min*1	bar	µm

Miniature compressed air filter										with manual drain	F504
40	106	96	plastic	0.04	36	600	11	20	G <sup>1</sup> / <sub>8</sub>	F504-01AH	
			metal				21			F504-01DH	
			plastic		29	480	11	5		F504-01AG	
			metal				21			F504-01DG	
40	106	96	plastic	0.04	38	640	11	20	G <sup>1</sup> / <sub>4</sub>	F504-02AH	
			metal				21			F504-02DH	
			plastic		31	510	11	5		F504-02AG	
			metal				21			F504-02DG	



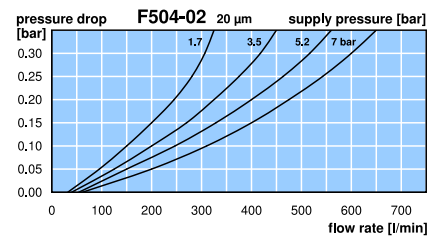
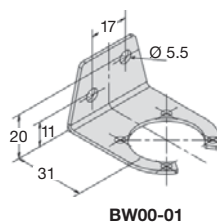
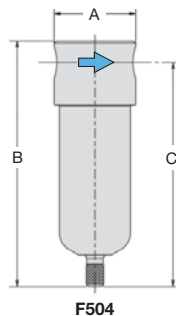
**Special options, add the appropriate letter**

<b>NPT</b>	connection thread	F504-... N
<b>semiautomatic drain</b>	RK500SY, max. 12 bar	F504-... M
<b>automatic drain</b>	RK504SY, max. 12 bar	F504-... R



**Accessories**

<b>mounting bracket</b>	made of steel	<b>BW00-01</b>
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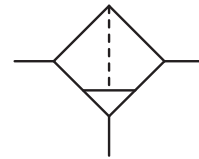
\*1 at 7 bar operating pressure and 0.33 bar pressure drop

**Extensions:** see chapter for FRL service units  
**Spare parts:** see separate spare parts list

**PDF CAD**  
www.aircom.net

**Order example:**  
F504-01AH

<b>Description</b>	Filter of modular design which can be interlocked with all other instruments of the same series without need for double nipples. The flow on standard filters is from outside to inside; on coalescing filters 0.1 µm from inside to outside.	
<b>Filter element</b>	5 µm, 20 µm, 80 µm made of sintered polyethylene, 160 µm made of stainless steel, 0.01 µm coalescing filter made of borosilicate and activated carbon filter	
<b>Filtration efficiency</b>	coalescing filter: 99.99% at 0.01 µm particle size,	residual oil content < 5 mg/m <sup>3</sup>
<b>Bowl</b>	plastic version with bayonet catch,	type 042 with connection thread
<b>Drainage</b>	manual drain in conjunction with semiautomatic drain, optionally automatic drain, no drain for water	
<b>Operating pressure</b>	max. 7 bar at series 035, max. 16 bar at series 042, max. 12.5 bar at series 050 to 095	
<b>Temperature range</b>	0 °C to 50 °C / 32 °F to 122 °F	
<b>Material</b>	Body: nylon, POM at types 035 and 042 Bowl: polyamide	Elastomer: NBR/Buna-N Inner valve: brass



**5 to 160 µm, coalescing activated carbon filter, G<sup>1</sup>/<sub>8</sub> - G<sup>1</sup>/<sub>1</sub>**

Dimensions			Bowl	Flow	P <sub>1</sub>	Filter	Connection	Order
A	B	C	Design	Capacity	rate	element	thread	number
mm	mm	mm		l	m <sup>3</sup> /h*1	µm	G	

**Compressed air filter** manual drain with semiautomatic drain, 99.99% at 0.01 µm **F0**

38	79	67	plastic	0.008	45	750	7	20	G <sup>1</sup> / <sub>8</sub>	<b>F035-01H</b>
			plastic		40	670		5		<b>F035-01G</b>
			for water w/o drain		50	830		80		<b>F035-01J</b>
			coalescing		7	115		0.01		<b>F035-01C</b>
42	146	126	plastic	0.02	75	1250	16	20	G <sup>1</sup> / <sub>4</sub>	<b>F042-02H</b>
			plastic		63	1050		5		<b>F042-02G</b>
			for water w/o drain		79	1320		80		<b>F042-02J</b>
			for water w/o drain		87	1450		160		<b>F042-02K</b>
			coalescing		11	180		0.01		<b>F042-02C</b>
			plastic		87	1450		activated carbon		<b>F042-02A</b>
52	174	148	bowl guard	0.04	150	2500	12.5	20	G <sup>3</sup> / <sub>8</sub>	<b>F050-03H</b>
					126	2100		5		<b>F050-03G</b>
					16	500		0.01		<b>F050-03C</b>
					150	2500		activated carbon		<b>F050-03A</b>



F035



miniature filter regulator combination



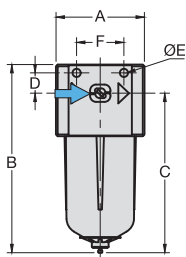
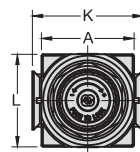
F050

Filter

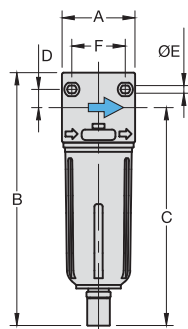


16

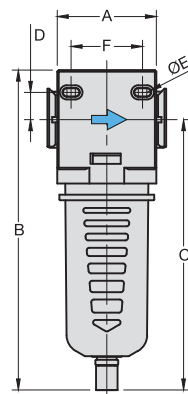
Series	D	ØE	F	K	L
F035	8.5	3.5	20	-	36
F042	10.5	4.5	31	-	42
F050	16.0	5.5	41	63	52



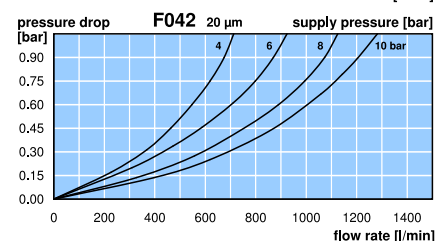
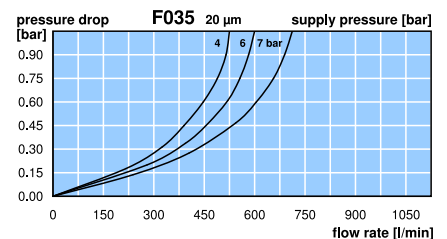
F035



F042



F050 / F052 / F075



\*1 at 10 bar operating pressure and 1 bar pressure drop, for F035 and filter element 0.01 µm only 7 bar operating pressure

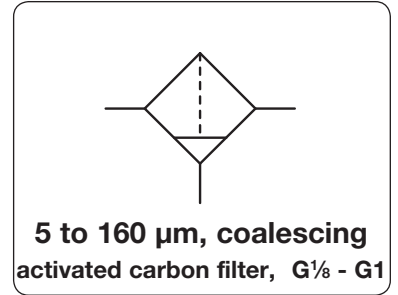
**Extensions:** see chapter for FRL service units  
**Spare parts:** see separate spare parts list

PDF CAD  
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Order example:  
F035-01H

<b>Description</b>	Filter of modular design which can be interlocked with all other instruments of the same series without need for double nipples. The flow on standard filters is from outside to inside; on coalescing filters 0.1 µm from inside to outside.	
<b>Filter element</b>	5 µm, 20 µm, 80 µm made of sintered polyethylene, 160 µm made of stainless steel, 0.01 µm coalescing filter made of borosilicate and activated carbon filter	
<b>Filtration efficiency</b>	coalescing filter: 99.99% at 0.01 µm particle size,	residual oil content < 5 mg/m <sup>3</sup>
<b>Bowl</b>	plastic version with bayonet catch,	type 042 with connection thread
<b>Drainage</b>	manual drain in conjunction with semiautomatic drain, optionally automatic drain, no drain for water	
<b>Operating pressure</b>	max. 7 bar at series 035, max. 16 bar at series 042, max. 12.5 bar at series 050 to 095	
<b>Temperature range</b>	0 °C to 50 °C / 32 °F to 122 °F	
<b>Material</b>	Body: nylon, POM at types 035 and 042 Bowl: polyamide	Elastomer: NBR/Buna-N Inner valve: brass



Dimensions			Bowl	Flow	P <sub>1</sub>	Filter	Connection	Order
A	B	C	Design	Capacity	rate	max.	element	thread
mm	mm	mm		l	m <sup>3</sup> /h*1	l/min*1	µm	G

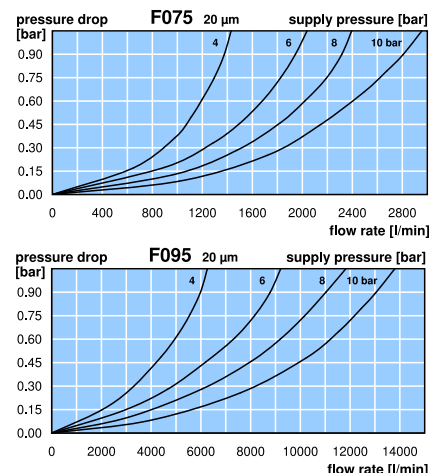
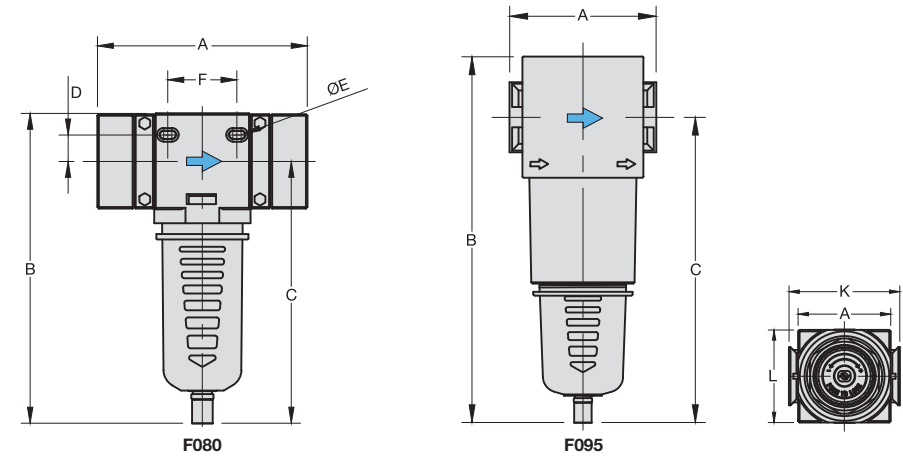
Compressed air filter			manual drain with semiautomatic drain, 99.99% at 0.01 µm				F0			
52	174	148	bowl guard	0.04	156	2600	12.5	20	G <sup>1</sup> / <sub>2</sub>	<b>F052-04H</b>
					132	2200		5		<b>F052-04G</b>
					17	500		0.01		<b>F052-04C</b>
					156	2600		activated carbon		<b>F052-04A</b>
63	204	173	bowl guard	0.10	186	3100	12.5	20	G <sup>1</sup> / <sub>2</sub>	<b>F075-04H</b>
					165	2750		5		<b>F075-04G</b>
					18	800		0.01		<b>F075-04C</b>
					186	3100		activated carbon		<b>F075-04A</b>
137	204	173	bowl guard	0.10	192	3200	12.5	20	G <sup>3</sup> / <sub>4</sub>	<b>F080-06H</b>
					168	2800		5		<b>F080-06G</b>
					18	800		0.01		<b>F080-06C</b>
95	284	237	bowl guard	0.20	828	13800	12.5	20	G <sup>1</sup>	<b>F095-08H</b>
					750	12500		5		<b>F095-08G</b>



**Special options,** add the appropriate letter  
 automatic drain C400200130 for F042 to F095 F0. . - 0 . . R

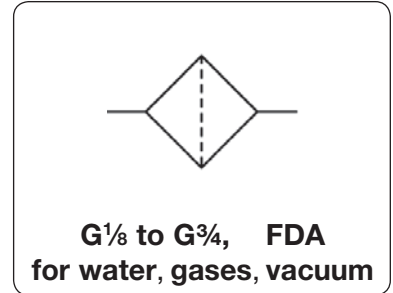
**Accessories**  
 mounting bracket set made of steel for F095 **BW00-02**

Series	D	Ø E	F	K	L
F052	16.0	5.5	41	63	52
F075	17.5	5.5	45	75	63
F080	17.5	5.5	45	-	63
F095	-	-	-	115	95



\*1 at 10 bar operating pressure and 1 bar pressure drop, for F035 and filter element 00.1 µm only 7 bar operating pressure

<b>Description</b>	Filter made of plastic for compressed air, vacuum, non-corrosive gases or liquids. The flow on the filter elements passes from outside to inside. They are largely corrosion-resistant and feature excellent chemical stability. Exposure of the filters to direct sunlight must be avoided. Optionally available with EPDM elastomers approved by the FDA.	
<b>Filter element</b>	5 µm, 35 µm and 80 µm made of PE, 50 µm, 100 µm and 300 µm made of stainless steel	
<b>Bowl</b>	made of transparent Grilamid TR55, three different sizes, screwable, without drain	
<b>Drainage</b>	without drain, as no water separation occurs with compressed air	
<b>Operating pressure</b>	max. 10 bar at 24 °C / 75 °F	<b>Differential pressure</b> max. 0.7 bar
<b>Temperature range</b>	5 °C to 52 °C / 41 °F to 125 °F	
<b>Cleaning</b>	with lukewarm water and standard rinsing agent	
<b>Material</b>	Body: polypropylene GFV 20% Bowl: Grilamid TR55, transparent	Filter element: polyethylene, optionally stainless steel Elastomer: NBR/Buna-N, optionally FKM or EPDM (FDA)



Dimensions			Bowl Capacity	Flow rate		Filter element	Connection thread	Order number
A	B	C	l	Water l/min*1	Air l/min*1	µm	G	

Plastic filter			operating pressure max. 10 bar	differential pressure max. 0.7 bar		NBR/Buna-N o-ring polyamide, polypropylene	FH	
58	93	83	0.06	6	140	5	G 1/8	FH1-01G FH1-01J FH1-01L
					180	35		
					200	80		
74	95	85	0.06	8	180	5	G 1/4	FH1-02G FH1-02J FH1-02L
					230	35		
					300	80		
74	99	87	0.06	10	220	5	G 3/8	FH1-03G FH1-03J FH1-03L
					280	35		
					300	80		
75	103	89	0.06	12	260	5	G 1/2	FH1-04G FH1-04J FH1-04L
					330	35		
					350	80		
90	124	112	0.17	14	400	5	G 3/8	FH2-03G FH2-03J FH2-03L
					500	35		
					520	80		
90	128	113	0.17	16	480	5	G 1/2	FH2-04G FH2-04J FH2-04L
					600	35		
					620	80		
90	133	116	0.17	18	560	5	G 3/4	FH2-06G FH2-06J FH2-06L
					700	35		
					720	80		

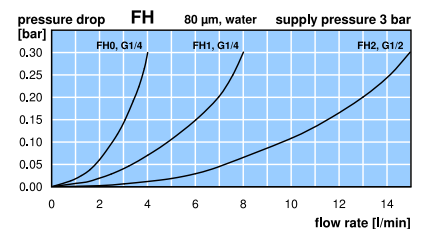
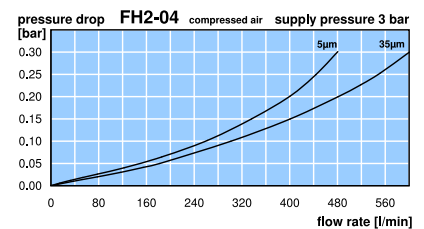
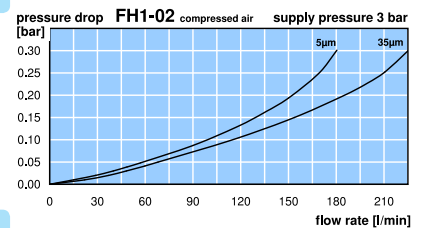


FH1



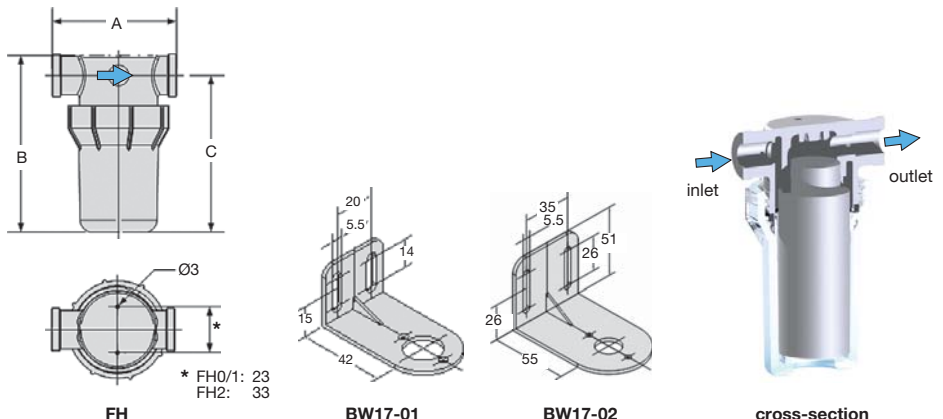
FH2

Special options, add the appropriate letter				
<b>with short bowl *2</b>	shorter filter element,	4 l/min water	FH1 only	FH0-...
<b>SST filter element</b>	metallic tissue	50 µm S; 100 µm T;	300 µm	FH0-. .U FH1-. .U FH2-. .U FH... .E
<b>EPDM elastomer</b>	FDA approved			
<b>FKM elastomer</b>				



## Accessories

<b>mounting bracket</b>	made of plastic	for FH0 and FH1 for FH2	<b>BW17-01</b> <b>BW17-02</b>
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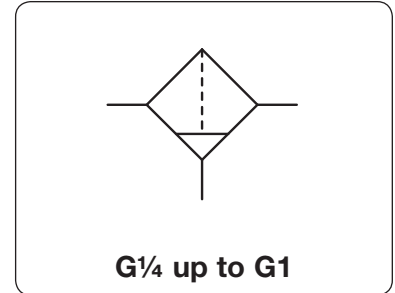
\*1 at 3 bar operating pressure and 0.3 bar pressure drop  
\*2 flow reduced by 35%, height shortened by 35 mm, bowl capacity 0.014 l

Spare parts: see separate spare parts list

PDF CAD  
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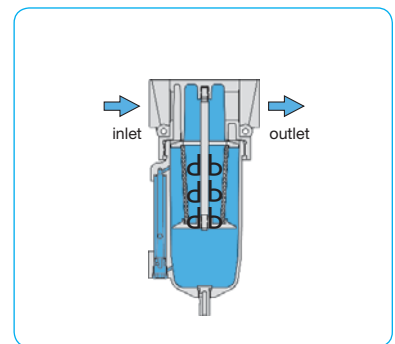
Order example:  
FH1-01G

<b>Description</b>	Compressed air filter of modular design with exchangeable inserts. Can be interlocked with regulator or lubricator without need for double nipples. Each "maxi" device may be taken from a fixed line in seconds by simply removing the mounting bolts.
<b>Filter element</b>	40 µm, optionally 5 µm, made of polypropylene
<b>Bowl</b>	metal version with sight glass
<b>Drainage</b>	manual drain as standard, optionally automatic or semiautomatic drain, for max. 12 bar
<b>Operating pressure</b>	max. 17 bar
<b>Temperature range</b>	0 °C to 70 °C / 32 °F to 158 °F 0 °C to 50 °C / 32 °F to 122 °F for automatic or semiautomatic drain version
<b>Material</b>	Body: zinc die-cast Sight glass: polyurethane Bowl: zinc die-cast Elastomer: NBR/Buna-N



Dimensions			Bowl	Flow	Supply	Filter	Connection	Order
A	B	C	Design	Capacity	rate	element	thread	number
mm	mm	mm	made of / with	l	m³/h*1	µm	G	

"Maxi" compressed air filter									with manual drain supply pressure max. 17 bar	F20
89	191	171	metal/sight glass	0.3	132	2200	17	40	G¼	F20-02WJ
					90	1500				F20-02WG
					186	3100				F20-03WJ
					138	2300				F20-03WG
					288	4800				F20-04WJ
111	191	171	metal/sight glass	0.3	408	6800	17	40	G¾	F20-06WJ
					294	4900				F20-06WG
					420	7000				F20-08WJ
					300	5000				F20-08WG

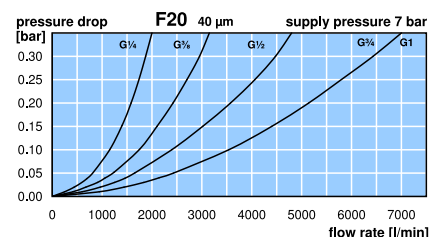
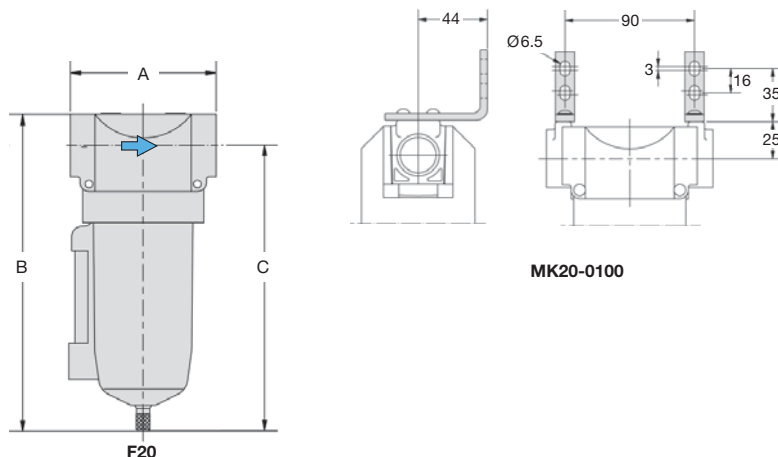


### Special options, add the appropriate letter

<b>NPT</b>	connection thread	F20-0 .W .N
<b>semiautomatic drain</b>	RK500SY, max. 12 bar	F20-0 .W .M
<b>automatic drain</b>	SA605MD, max. 12 bar	F20-0 .W .R

### Accessories

<b>mounting bracket set</b>	made of steel	<b>MK20-0100</b>
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\*1 at 7 bar supply pressure and 0.33 bar pressure drop

**Extensions:** see chapter for FRL service units  
**Spare parts:** see separate spare parts list

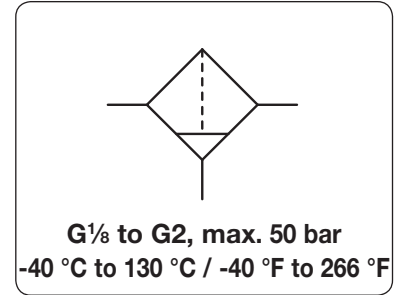
**PDF CAD**  
www.aircom.net

**Order example:**  
F20-02WJ

# Compressed Air Filter Made of Brass, up to 50 bar

FM

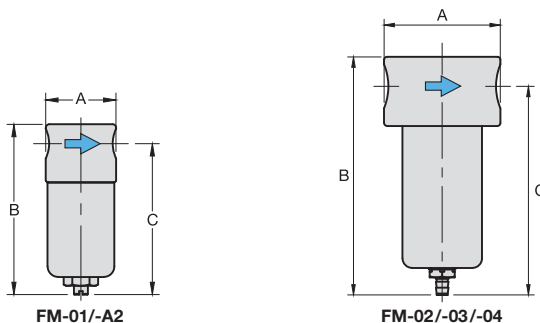
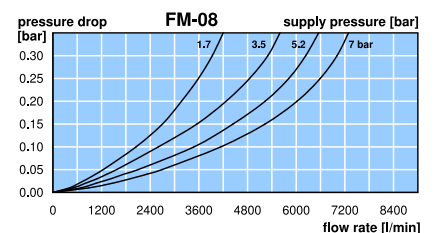
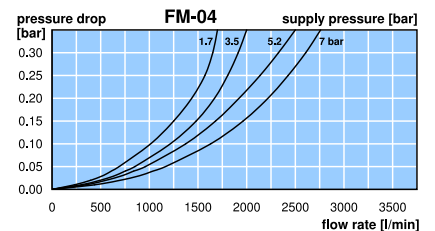
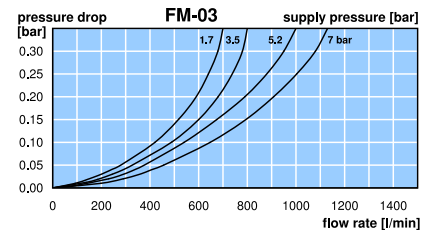
<b>Description</b>	Filter with bowl without sight glass, extremely robust, for compressed air, non-corrosive gases or liquids.
<b>Filter element</b>	50 µm, optionally 5 µm, made of stainless steel <b>Bowl</b> stainless steel version without sight glass
<b>Drainage</b>	screw plug as standard optionally for compressed air only: manual drain (max. 30 bar), automatic drain (max. 16 bar)
<b>Operating pressure</b>	max. 50 bar (without drain), optionally manual drain (max. 30 bar) or automatic drain (max. 16 bar)
<b>Temperature range</b>	0 °C to 80 °C / 32 °F to 140 °F, for FKM or EPDM, 0 °C to 130 °C / 32 °F to 266 °F, for high temperature version, for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F
<b>Material</b>	Body: brass Bowl: stainless steel 316L, material no 1.4404, brass at FM-01/-A2 Elastomer: FKM, optionally EPDM Inner valve: brass and plastic (not at high temperature version)



Dimensions			Bowl	Flow	Supply	Filter	Connection	Order
A	B	C	Design	Capacity	rate	element	thread	number
mm	mm	mm	made of	l	m <sup>3</sup> /h*1	l/min*1	µm	G

**Brass filter** with screw plug, operating pressure max. 50 bar, 50 µm **FM**

40	92	81	brass	0.03	45	750	50	50	G <sup>1</sup> / <sub>8</sub>	<b>FM-01</b> <b>FM-01G</b>
40	92	81	brass	0.03	45	750	50	5	G <sup>1</sup> / <sub>4</sub>	<b>FM-A2</b> <b>FM-A2G</b>
64	140	125	stainless steel	0.14	54	900	50	50	G <sup>1</sup> / <sub>4</sub>	<b>FM-02</b> <b>FM-02G</b> <b>FM-02I</b>
64	140	125	stainless steel	0.14	60	1000	50	5	G <sup>3</sup> / <sub>8</sub>	<b>FM-03</b> <b>FM-03G</b> <b>FM-03I</b>
79	150	130	stainless steel	0.20	150	2500	50	50	G <sup>1</sup> / <sub>2</sub>	<b>FM-04</b> <b>FM-04G</b> <b>FM-04I</b>
137	189	168	stainless steel	0.50	432	7200	50	50	G <sup>3</sup> / <sub>4</sub>	<b>FM-06</b> <b>FM-06G</b> <b>FM-06I</b>
137	189	168	stainless steel	0.50	432	7200	50	50	G1	<b>FM-08</b> <b>FM-08G</b> <b>FM-08I</b>
241	189	168	stainless steel	0.50	432	7200	50	50	G <sup>1</sup> / <sub>4</sub>	<b>FM-10</b> <b>FM-10G</b> <b>FM-10I</b>
241	189	168	stainless steel	0.50	432	7200	50	50	G <sup>1</sup> / <sub>2</sub>	<b>FM-1A</b> <b>FM-1AG</b> <b>FM-1AI</b>
180	297	215	stainless steel	1.00	900	15000	50	50	G <sup>1</sup> / <sub>2</sub>	<b>FM-12</b> <b>FM-12G</b>
180	297	215	stainless steel	1.00	960	16000	50	50	G2	<b>FM-16</b> <b>FM-16G</b>



\*1 at 7 bar operating pressure and 0.33 bar pressure drop

**Extensions:** see chapter for FRL service units  
**Spare parts:** see separate spare parts list

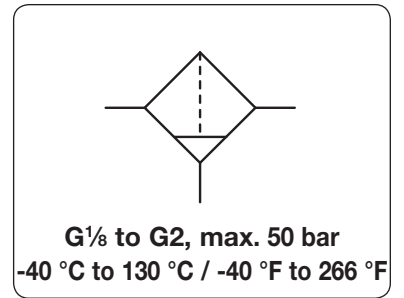
PDF CAD  
www.aircom.net



Order example:  
**FM-01**



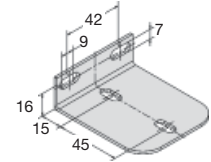
<b>Description</b>	Filter with bowl without sight glass, extremely robust, for compressed air, non-corrosive gases or liquids.	
<b>Filter element</b>	50 µm, optionally 5 µm, made of stainless steel	<b>Bowl</b> stainless steel version without sight glass
<b>Drainage</b>	screw plug as standard optionally for compressed air only: manual drain (max. 30 bar), automatic drain (max. 16 bar)	
<b>Operating pressure</b>	max. 50 bar (without drain), optionally manual drain (max. 30 bar) or automatic drain (max. 16 bar)	
<b>Temperature range</b>	0 °C to 80 °C / 32 °F to 140 °F, for FKM or EPDM, 0 °C to 130 °C / 32 °F to 266 °F, for high temperature version, for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F	
<b>Material</b>	Body: brass Bowl: stainless steel 316L, material no 1.4404, brass at FM-01/-A2 Elastomer: FKM, optionally EPDM Inner valve: brass and plastic (not at high temperature version)	



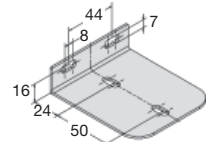
Dimensions			Bowl	Flow	Supply	Filter	Connection	Order
A	B	C	Design	Capacity	rate	element	thread	number
mm	mm	mm	made of	l	m <sup>3</sup> /h*1	l/min*1	µm	G

## Special options, add the appropriate letter

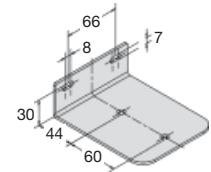
<b>NPT</b>	connection thread	for G $\frac{1}{8}$ to G $\frac{3}{4}$ (02)	to G $\frac{1}{2}$ , G1 $\frac{1}{2}$ (12) and G2 to G1 $\frac{1}{2}$ (1A)	FM- . . N FM- . . N FM- . . X48 FM- . . X51 FM- . . X54 FM- . . H FM- . . R FM- . . E FM- . . 03 FM- . . 05 FM- . . 07 FM- . . 09 FM- . . 11 FM- . . 13 FM- . . 15 FM- . . 16 FM- . . 17 FM- . . W FM- . . F.
<b>P1: max. 80 bar down to -40 °C up to 130 °C</b>	low temperature version			
<b>manual drain</b>	max. 30 bar			
<b>automatic drain</b>	made of SST, max. 16 bar	for G $\frac{1}{4}$ (02)		
<b>EPDM-elastomer carbon dioxide</b>	CO <sub>2</sub>			
<b>argon</b>	Ar			
<b>nitrogen</b>	N <sub>2</sub>			
<b>helium</b>	He			
<b>hydrogen</b>	H <sub>2</sub>			
<b>methane</b>	CH <sub>4</sub>			
<b>oxygen</b>	O <sub>2</sub>			
<b>propane</b>	C <sub>3</sub> H <sub>6</sub>			
<b>nitrous oxide</b>	N <sub>2</sub> O			
<b>for water</b>	50 µm only	for G $\frac{1}{4}$ (02) to G2		
<b>flange connection</b>	see chapter for stainless steel devices / flanges			



BW00-17S



BW00-18S

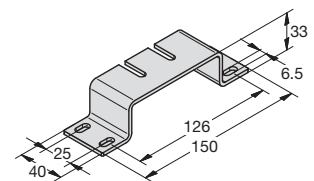


BW00-19S

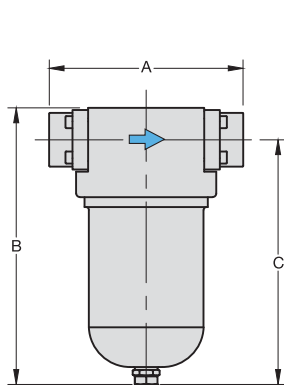


## Accessories

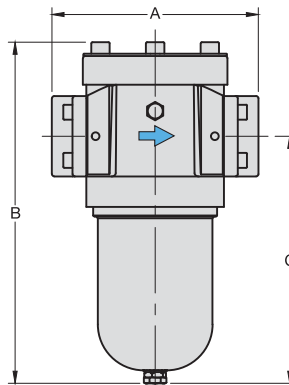
<b>mounting bracket</b>	made of stainless steel	for G $\frac{1}{4}$ (02) and G $\frac{3}{8}$ for G $\frac{1}{2}$	<b>BW00-17S</b> <b>BW00-18S</b> <b>BW00-19S</b> <b>BW00-61</b>
<b>set of brackets</b>	made of steel	for G $\frac{3}{4}$ to G1 $\frac{1}{2}$ (1A) for G1 $\frac{1}{2}$ (12) and G2	



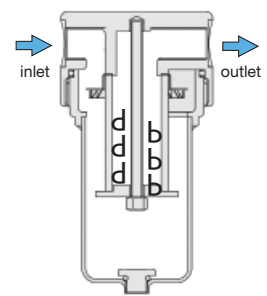
BW00-61



FM-06/-08/-10/-1A



FM-12/-16



cross-section

\*1 at 7 bar operating pressure and 0.33 bar pressure drop

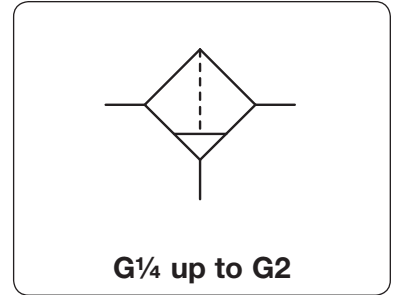
**Extensions:** see chapter for FRL service units  
**Spare parts:** see separate spare parts list

**PDF CAD**  
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**Order example:**  
**BW00-17S**

<b>Description</b>	Compressed air filter with high flow. Made of solid design and small size. Proven in operation and suitable for many applications. Available in all standard sizes and in many versions.		
<b>Filter element</b>	40 µm, optionally 5 µm, made of polypropylene		
<b>Bowl</b>	plastic version with or without bowl guard up to size G½, metal version with or without bowl guard		
<b>Drainage</b>	manual drain as standard, for max. 21 bar or external automatic drain, for max. 18 bar		
<b>Operating pressure</b>	max. 11 bar for plastic bowl max. 17 bar for metal bowl with sight glass max. 21 bar for metal bowl without sight glass		
<b>Temperature range</b>	0 °C to 50 °C / 32 °F to 122 °F for plastic bowl and automatic drain version 0 °C to 70 °C / 32 °F to 158 °F for metal bowl with sight glass 0 °C to 80 °C / 32 °F to 176 °F for metal bowl without sight glass for appropriately conditioned compressed air down to -30 °C / -22 °F		
<b>Material</b>	Body: zinc die-cast	Bowl: polyurethane, zinc die-cast or steel	Elastomer: NBR/Buna-N



Dimensions			Bowl	Flow	Supply	Filter	Connection	Order
A	B	C	Design	rate	max.	element	thread	number
mm	mm	mm	made of / with	m³/h*1	l/min*1	µm	G	

Standard compressed air filter									with manual drain	F602
71	158	145	plastic / bowl guard	0.15	84	1400	11	40	G¼	F602-02BJ F602-02WJ
71	158	145	plastic / bowl guard	0.15	66	1100	11	5	G¼	F602-02BG F602-02WG
71	158	145	plastic / bowl guard	0.15	126	2100	11	40	G½	F602-03BJ F602-03WJ
71	158	145	plastic / bowl guard	0.15	102	1700	11	5	G¼	F602-03BG F602-03WG
71	158	145	plastic / bowl guard	0.15	144	2400	11	40	G½	F602-04BJ F602-04WJ
71	158	145	plastic / bowl guard	0.15	108	1800	11	5	G½	F602-04BG F602-04WG
116	223	200	metal / sight glass	0.50	426	7100	17	40	G¾	F602-06WJ F602-06EJ F602-06FJ
116	295	272	steel	1.00			21			
116	295	272	steel / sight glass	1.00			17			
116	223	200	metal / sight glass	0.50	318	5300	17	5	G¾	F602-06WG F602-06EG F602-06FG
116	295	272	steel	1.00			21			
116	295	272	steel / sight glass	1.00			17			
116	223	200	metal / sight glass	0.50	588	9800	17	40	G1	F602-08WJ F602-08EJ F602-08FJ
116	295	272	steel	1.00			21			
116	295	272	steel / sight glass	1.00			17			
116	223	200	metal / sight glass	0.50	438	7300	17	5	G1	F602-08WG F602-08EG F602-08FG
116	295	272	steel	1.00			21			
116	295	272	steel / sight glass	1.00			17			



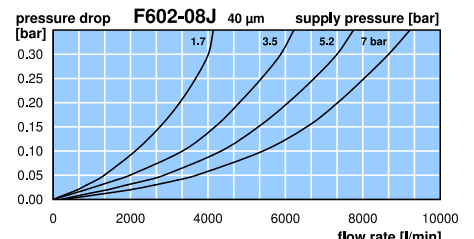
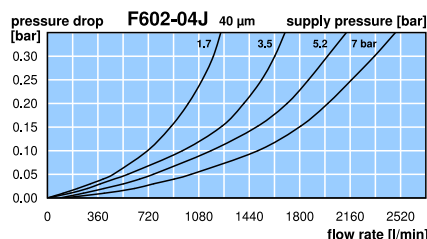
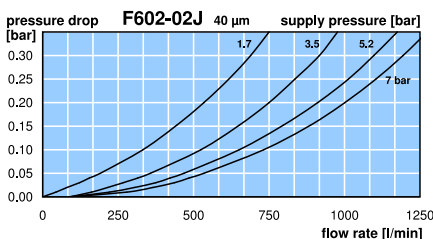
**F602-04WJ**  
metal bowl with sight glass



**F602-08WJ**  
metal bowl with sight glass



**F602-10WJ**  
metal bowl with sight glass



\*1 at 7 bar operating pressure and 0.33 bar pressure drop

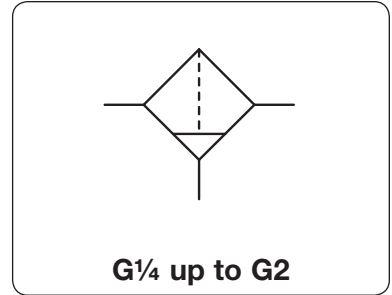
**Extensions:** see chapter for FRL service units  
**Spare parts:** see separate spare parts list

**PDF CAD**  
www.aircom.net



**Order example:**  
F602-02BJ

<b>Description</b>	Compressed air filter with high flow. Made of solid design and small size. Proven in operation and suitable for many applications. Available in all standard sizes and in many versions.		
<b>Filter element</b>	40 µm, optionally 5 µm, made of polypropylene		
<b>Bowl</b>	plastic version with or without bowl guard up to size G½, metal version with or without bowl guard		
<b>Drainage</b>	manual drain as standard, for max. 21 bar optionally internal automatic drain, for max. 12 / 16 bar or external automatic drain, for max. 18 bar		
<b>Operating pressure</b>	max. 11 bar for plastic bowl max. 17 bar for metal bowl with sight glass max. 21 bar for metal bowl without sight glass		
<b>Temperature range</b>	0 °C to 50 °C / 32 °F to 122 °F for plastic bowl and automatic drain version 0 °C to 70 °C / 32 °F to 158 °F for metal bowl with sight glass 0 °C to 80 °C / 32 °F to 176 °F for metal bowl without sight glass for appropriately conditioned compressed air down to -30 °C / -22 °F		
<b>Material</b>	Body: zinc die-cast	Bowl: polyurethane, zinc die-cast or steel	Elastomer: NBR/Buna-N



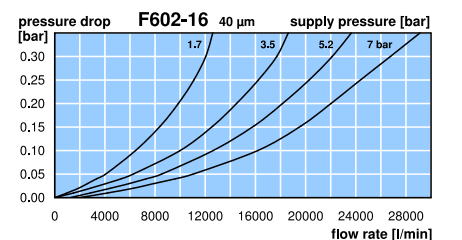
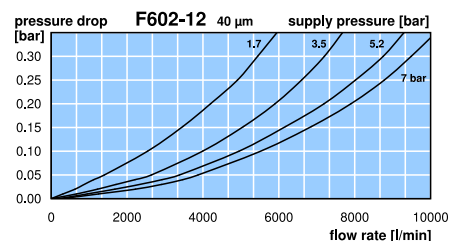
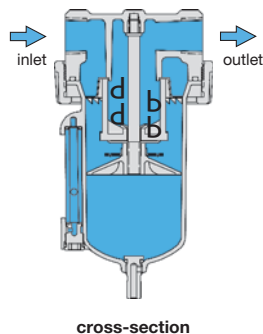
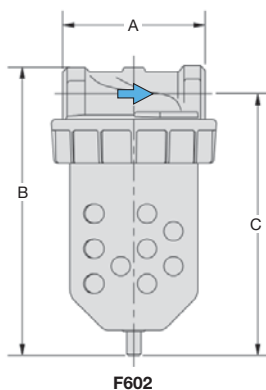
Dimensions			Bowl	Flow	Supply	Filter	Connection	Order
A	B	C	Design	rate	max.	element	thread	number
mm	mm	mm	made of / with	m³/h*1	l/min*1	µm	G	

Standard compressed air filter									with manual drain	F602
132	242	210	metal / sight glass	0.5	660	11 000	17	40	G1½	F602-12WJ
132	315	283	steel	1.0			21			F602-12EJ
			steel / sight glass	1.0			17			F602-12FJ
132	242	210	metal / sight glass	0.5	492	8 200	17	5	G1½	F602-12WG
132	315	283	steel	1.0			21			F602-12EG
			steel / sight glass	1.0			17			F602-12FG
157	332	284	metal / sight glass	0.5	1 740	29 000	17	40	G2	F602-16WJ
157	405	357	steel	1.0			21			F602-16EJ
			steel / sight glass	1.0			17			F602-16FJ



### Special options, add the appropriate letter

<b>NPT</b>	connection thread		for G¾ to G2½	F602-....N
<b>automatic drain</b>	SA605MD, SA602D, SA603D for steel bowl, SA702MD,	max. 12 bar	for G¾ to G2½	F602-....R
		max. 18 bar	for G¾ to G2½	F602-....Q
		max. 16 bar	for G¾ to G2½	F602-....W
<b>flange connection</b>	see chapter for stainless steel devices / flanges			F602-....F.



\*1 at 7 bar operating pressure and 0.33 bar pressure drop

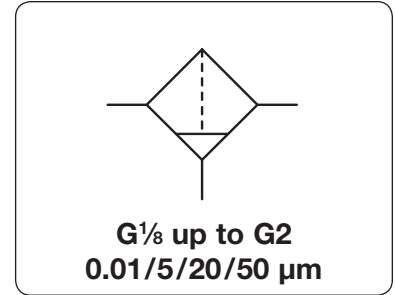
**Extensions:** see chapter for FRL service units  
**Spare parts:** see separate spare parts list

**PDF CAD**  
www.aircom.net



**Order example:**  
F602-12WJ

<b>Description</b>	Good value zinc die-cast regulator of solid design.
<b>Filter element</b>	0.01 µm coalescing filter, 5 µm, 20 µm und 50 µm
<b>Filtration efficiency</b>	coalescing filter: 99.99% based on 0.01 µm particle size
<b>Bowl</b>	metal version with and without sight glass
<b>Drainage</b>	semiautomatic drain as standard, for max. 16 bar optionally manual drain, for max. 30 bar or automatic drain, for max. 16 bar
<b>Operating pressure</b>	max. 16 bar for metal bowl with sight glass max. 30 bar for metal bowl without sight glass
<b>Temperature range</b>	-10 °C to 50 °C / 14 °F to 122 °F for metal bowl with sight glass (-01 bis -04 / -12 / -16) -20 °C to 60 °C / -4 °F to 140 °F for metal bowl with sight glass (-06 / -1A) -30 °C to 80 °C / -22 °F to 176 °F for metal bowl without sight glass
<b>Material</b>	Body: zinc die-cast at sizes G½ and G¾, aluminium at sizes G¾ to G2 Bowl: zinc die-cast Elastomer: NBR/Buna-N

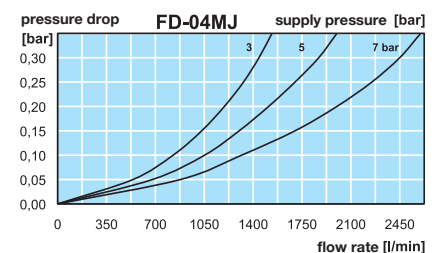
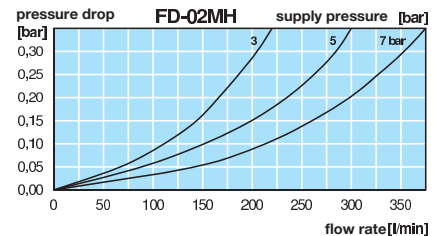
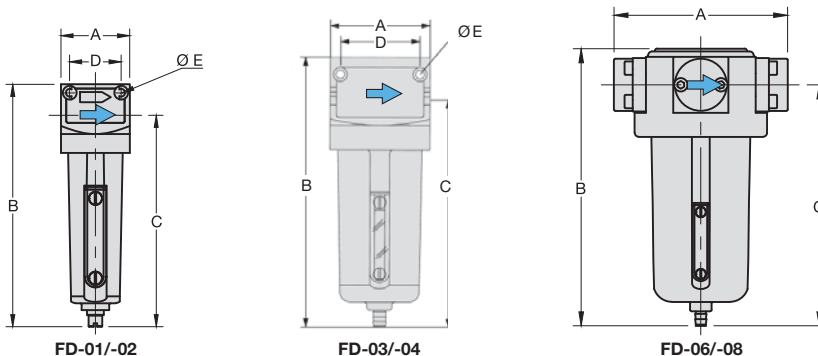


Dimensions			Bowl	Flow	Supply	Filter	Connection	Order
A	B	C	Design	Capacity	rate	element	thread	number
mm	mm	mm	made of/with	l	m³/h*1	l/min*1	G	

Compressed air filter, series "D"							with semiautomatic drain, 99.99 % at 0.01 µm	FD			
40	146	128	metal/sight glass	0.05	21	350	16	50	G½	FD-01MH	
					16	270	16	5			FD-01MG
					4	70	16	0.01			FD-01MI
40	146	128	metal/sight glass	0.05	24	400	16	50	G¾	FD-02MH	
					18	300	16	5			FD-02MG
					4	70	16	0.01			FD-02MI
64	176	148	metal/sight glass	0.18	144	2400	16	50	G¾	FD-03MJ	
					108	1800	16	5			FD-03MG
					27	450	16	0.01			FD-03MI
64	176	148	metal/sight glass	0.18	156	2600	16	50	G½	FD-04MJ	
					120	2000	16	5			FD-04MG
					30	500	16	0.01			FD-04MI
130	206	179	metal/sight glass	0.50	420	7000	16	50	G¾	FD-06MJ	
					318	5300	16	5			FD-06MG
					84	1400	16	0.01			FD-06MI
130	206	179	metal/sight glass	0.50	510	8500	16	50	G1	FD-08MJ	
					384	6400	16	5			FD-08MG
					102	1700	16	0.01			FD-08MI



Type	D	Ø E
FD-01/02	30	4.5
FD-03/04	51	5.5



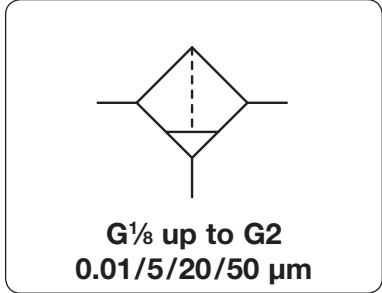
\*1 at 7 bar operating pressure and 0.33 bar pressure drop

**Extensions:** see chapter for FRL service units  
**Spare parts:** see separate spare parts list

**PDF CAD**  
www.aircom.net

**Order example:**  
FD-01MH

<b>Description</b>	Good value zinc die-cast regulator of solid design.
<b>Filter element</b>	0.01 µm coalescing filter, 5 µm, 20 µm und 50 µm
<b>Filtration efficiency</b>	coalescing filter: 99.99% based on 0.01 µm particle size
<b>Bowl</b>	metal version with and without sight glass
<b>Drainage</b>	semiautomatic drain as standard, for max. 16 bar optionally manual drain, for max. 30 bar or automatic drain, for max. 16 bar
<b>Operating pressure</b>	max. 16 bar for metal bowl with sight glass max. 30 bar for metal bowl without sight glass
<b>Temperature range</b>	-10 °C to 50 °C / 14 °F to 122 °F for metal bowl with sight glass (-01 bis -04 / -12 / -16) -20 °C to 60 °C / -4 °F to 140 °F for metal bowl with sight glass (-06 / -1A) -30 °C to 80 °C / -22 °F to 176 °F for metal bowl without sight glass
<b>Material</b>	Body: zinc die-cast at sizes G $\frac{3}{4}$ and G $\frac{1}{2}$ , aluminium at sizes G $\frac{3}{4}$ to G2 Bowl: zinc die-cast Elastomer: NBR/Buna-N



Dimensions			Bowl	Flow	Supply	Filter	Connection	Order
A	B	C	Design	Capacity	rate	element	thread	number
mm	mm	mm	made of/with	l	m <sup>3</sup> /h*1	µm	G	

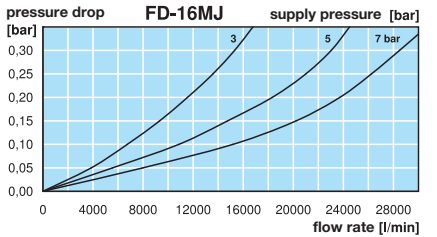
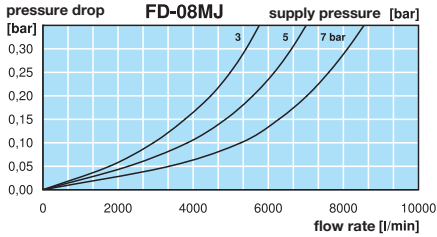
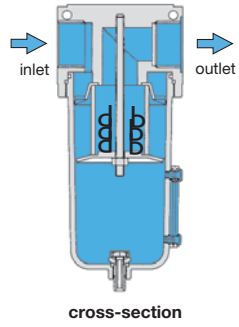
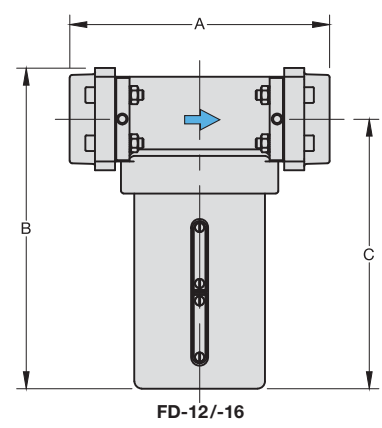
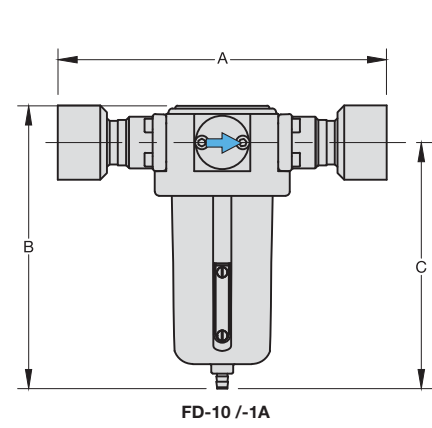
Compressed air filter, series "D"											
with semiautomatic drain, 99.99 % at 0.01 µm											
									FD		
241	206	179	metal/sight glass	0.5	570	9500	16	50	G1 $\frac{1}{4}$	FD-10MJ	
					432	7200	16			5	FD-10MG
					114	1900	16			0.01	FD-10MI
241	206	179	metal/sight glass	0.5	600	10000	16	50	G1 $\frac{1}{2}$	FD-1AMJ	
					450	7500	16			5	FD-1AMG
					120	2000	16			0.01	FD-1AMI
215	273	231	metal/sight glass	1.2	1800	30000	16	50	G1 $\frac{1}{2}$	FD-12MJ	
					1380	23000	16			5	FD-12MG
215	273	231	metal/sight glass	1.2	1800	30000	16	50	G2	FD-16MJ	
					1380	23000	16			5	FD-16MG



Special options, add the appropriate letter		
<b>operating pressure 30 bar</b>	metal bowl w/o sight glass, with manual drain	FD-... N. H
<b>manual drain</b>	max. 16 bar	FD-... H
<b>automatic drain</b>	draining through float valve, max. 16 bar for G $\frac{3}{8}$ to G2	FD-... R

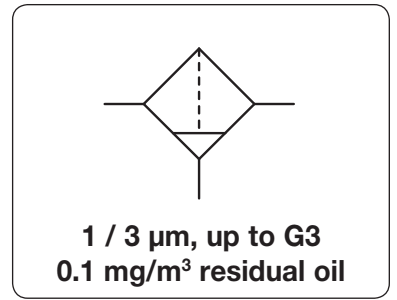
### Accessories

<b>mounting bracket</b>	made of stainless steel made of steel	for G $\frac{3}{4}$ to G1 $\frac{1}{2}$ (1A) for G1 $\frac{1}{2}$ (12) and G2	<b>BW00-59S</b> <b>BW00-61</b>
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\*1 at 7 bar operating pressure and 0.33 bar pressure drop

	Pre-filter V	Fine filter Z
<b>Description</b>	Coarse filter for removing water and solid impurities.	Filters out oil, water and solid impurities. Resistant to mineral and synthetic oils.
<b>Filter element</b>	3 µm incoming flow from inside to outside.	1 µm incoming flow from inside to outside.
<b>Filtration efficiency</b>	99.99% based on 3 µm particle size	99.9999% at 1 µm particle size, residual oil content ≤ 0.5 mg/m <sup>3</sup>
<b>Filter change</b>	Cleaning required as from 0.35 bar differential pressure. Solid impurities removed by blowing from	The filter must be changed as from 0.35 bar differential pressure or after one year at the latest.
<b>Drainage</b>	automatic drain as standard, optionally manual drain	
<b>Temperature range</b>	1 °C to 65 °C / 34 °F to 149 °F	
<b>Operating pressure</b>	max. 16 bar	
<b>Material</b>	Body/Bowl: chromated and powder-coated cast aluminium	



Dimensions			Bowl		Flow rate		Filter element	Connection	Order number
A	B	C	Design	Capacity	m <sup>3</sup> /h*1	l/min*1	µm	thread	
mm	mm	mm	of / with	l				G	

Micro Pre-filter 3 µm									
with automatic drain, 99,99% filtration efficiency, max. 16 bar									
FG. V									
69	194	173	aluminium /	0.2	30	500	3	G¼	FG-02V
89	293	269	automatic drain	0.8	60	1000		G¾	FG-03V
89	293	269		0.8	108	1800		G½	FG-04V
89	293	269		0.8	132	2200		G¾	FG-A6V
109	393	359		1.8	180	3000		G¾	FG-06V
109	393	359		1.8	270	4500		G1	FG-08V
109	540	506		2.7	372	6200		G1¼	FG-10V
109	540	506		2.7	432	7200		G1½	FG-1AV
150	576	535		4.9	732	12200		G1½	FG-12V
150	954	913		8.0	1050	17500		G2	FG-16V
188	759	703		10.3	1800	30000		G2½	FG-20V
188	939	903		12.7	2220	37000		G3	FG-24V



Micro Fein filter 1 µm									
with automatic drain, 99,9999% filtration efficiency residual oil ≤ 0.1 mg/m <sup>3</sup> , max. 16 bar									
FG. Z									
69	194	173	aluminium /	0.2	30	500	1	G¼	FG-02Z
89	293	269	automatic drain	0.8	60	1000		G¾	FG-03Z
89	293	269		0.8	108	1800		G½	FG-04Z
89	293	269		0.8	132	2200		G¾	FG-A6Z
109	393	359		1.8	180	3000		G¾	FG-06Z
109	393	359		1.8	270	4500		G1	FG-08Z
109	540	506		2.7	372	6200		G1¼	FG-10Z
109	540	506		2.7	432	7200		G1½	FG-1AZ
150	576	535		4.9	732	12200		G1½	FG-12Z
150	954	913		8.0	1050	17500		G2	FG-16Z
188	759	703		10.3	1800	30000		G2½	FG-20Z
188	939	903		12.7	2220	37000		G3	FG-24Z



### Special options, add the appropriate letter

- differential pressure gauge FG-... D
- replacement indicator FG-... E
- further sizes (on request)

### Accessories

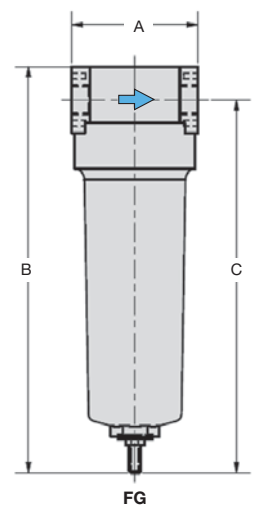
- set of mounting brackets made of steel
  - for G¼ BW00-52
  - for G¾ to G¾ (A6) BW00-53
  - for G¾ (06) to G1½ BW00-54
  - for G1½ (12) and G2 BW00-55
  - for G2½ and G3 BW00-56

Flow rate conversion factor for other operating pressures																
operating pressure bar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
factor	0.25	0.38	0.5	0.65	0.75	0.88	1	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2	2.13

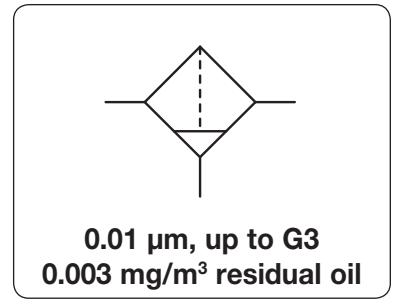
\*1 at 7 bar operating pressure and open outlet. Pressure drop in new condition: **20 mbar** on pre-filter and **30 mbar** on universal filter. The maximum permissible flow rate is 10% higher than the indicated value.

Spare parts: see separate spare parts list PDF CAD  
www.aircom.net

Order example: FG-02V



	Super fine filter X	Activated Carbon Filter A
<b>Description</b>	The filter separates oil, water and solid impurities from compressed air or non-corrosive gases. It is resistant to mineral and synthetic oils.	Air filtered with this combination is virtually free from oil and odours.
<b>Filter element</b>	0.01 µm incoming flow from inside to outside	0.01 µm incoming flow from inside to outside
<b>Filtration efficiency</b>	99.99999% based on 0.01 µm particle size residual oil content ≤ 0.01 mg/m <sup>3</sup> at 7 bar and 20 °C/68 °F	residual oil content ≤ 0.03 mg/m <sup>3</sup> bei 7 bar and 20 °C/68 °F
<b>Filter change</b>	Cleaning required as from 0.35 bar differential pressure, at the latest after 3 months.	Cleaning required as from 0.35 bar differential pressure, at the latest after 3 months.
<b>Drainage</b>	automatic drain as standard, optionally manual drain	manual drain as standard
<b>Temperature range</b>	1 °C to 65 °C / 34 °F to 149 °F	1 °C to 30 °C / 34 °F to 86 °F
<b>Operating pressure</b>	max. 16 bar	
<b>Material</b>	Body/Bowl: chromated and powder-coated cast aluminium	

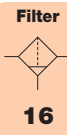


Dimensions			Bowl		Flow rate		Filter element	Connection	Order number
A	B	C	Design	Capacity	m <sup>3</sup> /h*1	l/min*1	µm	thread	G

Super fine filter 0.01 mg/m <sup>3</sup> residual oil							with automatic drain, max. 16 bar 99,99999%, at 0.01 µm		FG. X
69	194	173	aluminium /	0.2	30	500	0.01	G¼	<b>FG-02X</b>
89	293	269	manual drain	0.8	60	1000		G¾	<b>FG-03X</b>
89	293	269		0.8	108	1800		G½	<b>FG-04X</b>
89	293	269		0.8	132	2200		G¾	<b>FG-A6X</b>
109	393	359		1.8	180	3000		G¾	<b>FG-06X</b>
109	393	359		1.8	270	4500		G1	<b>FG-08X</b>
109	540	506		2.7	372	6200		G1¼	<b>FG-10X</b>
109	540	506		2.7	432	7200		G1½	<b>FG-1AX</b>
150	576	535		4.9	732	12200		G1½	<b>FG-12X</b>
150	954	913		8.0	1050	17500		G2	<b>FG-16X</b>
188	759	703		10.3	1800	30000		G2½	<b>FG-20X</b>
188	939	903		12.7	2220	37000		G3	<b>FG-24X</b>



Activated carbon filter 0.003 mg/m <sup>3</sup> residual oil							with manual drain, max. 16 bar		FG. A
69	185	164	aluminium /	0.2	30	500	activated carbon	G¼	<b>FG-02A</b>
89	284	260	manual drain	0.8	60	1000		G¾	<b>FG-03A</b>
89	284	260		0.8	108	1800		G½	<b>FG-04A</b>
89	284	260		0.8	132	2200		G¾	<b>FG-A6A</b>
109	384	350		1.8	180	3000		G¾	<b>FG-06A</b>
109	384	350		1.8	270	4500		G1	<b>FG-08A</b>
109	531	497		2.7	372	6200		G1¼	<b>FG-10A</b>
109	531	497		2.7	432	7200		G1½	<b>FG-1AA</b>
150	567	526		4.9	732	12200		G1½	<b>FG-12A</b>
150	945	904		8.0	1050	17500		G2	<b>FG-16A</b>
188	748	694		10.3	1800	30000		G2½	<b>FG-20A</b>
188	930	894		12.7	2220	37000		G3	<b>FG-24A</b>



## Special options, add the appropriate letter

differential pressure gauge	FG-... D
replacement indicator	FG-... E
further sizes (on request)	

## Accessories

set of mounting brackets made of steel	for G¼	<b>BW00-52</b>
	for G¾ to G¾ (A6)	<b>BW00-53</b>
	for G¾ (06) to G1½	<b>BW00-54</b>
	for G1½ (12) and G2	<b>BW00-55</b>
	for G2½ and G3	<b>BW00-56</b>

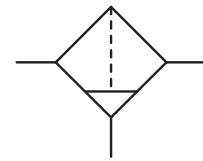
Flow rate conversion factor for other operating pressures																
operating pressure bar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
factor	0.25	0.38	0.5	0.65	0.75	0.88	1	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2	2.13

\*1 at 7 bar operating pressure and open outlet. Pressure drop in new condition: **50 mbar** on fine filter and **90 mbar** on super fine filter. The maximum permissible flow rate is 10% higher than the indicated value.

**Spare parts: see separate spare parts list** [www.aircom.net](http://www.aircom.net)

**Order example: FG-02X**

<b>Description</b>	Compressed air filter for up to 60 bar operating pressure with various filter elements. Mounting in horizontal position, flow direction indicated by arrow.
<b>Filter element</b>	5 µm and 40 µm made of sintered bronze, 0.01 µm coalescing filter made of borosilicate fibres with stainless steel jacket and foam protection
<b>Filtration efficiency</b>	coalescing filter: 99.999% based on 0.01 µm particle size
<b>Bowl</b>	metal version without sight glass
<b>Drainage</b>	manual drain as standard
<b>Supply pressure</b>	max. 60 bar
<b>Temperature range</b>	0 °C to 90 °C / 32 °F to 194 °F, for appropriately conditioned compressed air down to -30 °C / -22 °F
<b>Material</b>	Body: black, anodized aluminium Bowl: brass at G $\frac{3}{8}$ to G1, aluminium at G1 $\frac{1}{2}$ and G2 Elastomer: NBR/Buna-N



40/60 bar, up to G2  
0.01/5/40 µm

Dimensions			Bowl	Flow rate	Filter element	Connection	Order number
A	B	C	Design	Capacity	rate	thread	number
mm	mm	mm	made of	l	m <sup>3</sup> /h*1	G	

## High pressure filter up to 40 bar with manual drain, 99.999% at 0.01 µm **F445**

72	200	168	metal	0.08	162	2700	40	G $\frac{3}{8}$ " <sup>2</sup>	<b>F445-03EL</b>
65	200	168			168	2800		G $\frac{1}{2}$ "	<b>F445-04EL</b>
92	210	170	metal	0.10	198	3300		G $\frac{3}{4}$ " <sup>2</sup>	<b>F445-06EL</b>
80	210	170			210	3500		G1"	<b>F445-08EL</b>
150	285	243	metal	0.30	1200	20000		G1 $\frac{1}{2}$ " <sup>2</sup>	<b>F445-12EL</b>
140	285	243			1320	22000		G2"	<b>F445-16EL</b>
72	200	168	metal	0.08	126	2100	5	G $\frac{3}{8}$ " <sup>2</sup>	<b>F445-03GL</b>
65	200	168			138	2300		G $\frac{1}{2}$ "	<b>F445-04GL</b>
92	210	170	metal	0.10	156	2600		G $\frac{3}{4}$ " <sup>2</sup>	<b>F445-06GL</b>
80	210	170			168	2800		G1"	<b>F445-08GL</b>
150	285	243	metal	0.30	900	15000		G1 $\frac{1}{2}$ " <sup>2</sup>	<b>F445-12GL</b>
140	285	243			1080	18000		G2"	<b>F445-16GL</b>
72	200	168	metal	0.08	150	2500	0.01	G $\frac{3}{8}$ " <sup>2</sup>	<b>F445-03IL</b>
65	200	168			162	2700		G $\frac{1}{2}$ "	<b>F445-04IL</b>
92	210	170	metal	0.10	192	3200		G $\frac{3}{4}$ " <sup>2</sup>	<b>F445-06IL</b>
80	210	170			204	3400		G1"	<b>F445-08IL</b>
150	285	243	metal	0.30	1140	19000		G1 $\frac{1}{2}$ " <sup>2</sup>	<b>F445-12IL</b>
140	285	243			1260	21000		G2"	<b>F445-16IL</b>



F445-08, 40 bar



F465-08, 60 bar

## High pressure filter up to 60 bar with manual drain, 99.999% at 0.01 µm **F465**

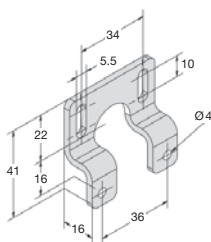
72	185	160	metal	0.08	162	2700	40	G $\frac{3}{8}$ " <sup>2</sup>	<b>F465-03EL</b>
65	185	160			168	2800		G $\frac{1}{2}$ "	<b>F465-04EL</b>
92	200	170	metal	0.10	198	3300		G $\frac{3}{4}$ " <sup>2</sup>	<b>F465-06EL</b>
80	185	160			210	3500		G1"	<b>F465-08EL</b>
72	185	160	metal	0.08	126	2100	5	G $\frac{3}{8}$ " <sup>2</sup>	<b>F465-03GL</b>
65	185	160			135	2300		G $\frac{1}{2}$ "	<b>F465-04GL</b>
92	200	170	metal	0.10	156	2600		G $\frac{3}{4}$ " <sup>2</sup>	<b>F465-06GL</b>
80	200	170			168	2800		G1"	<b>F465-08GL</b>
72	185	160	metal	0.08	150	2500	0.01	G $\frac{3}{8}$ " <sup>2</sup>	<b>F465-03IL</b>
65	185	160			162	2700		G $\frac{1}{2}$ "	<b>F465-04IL</b>
92	200	170	metal	0.10	192	3200		G $\frac{3}{4}$ " <sup>2</sup>	<b>F465-06IL</b>
80	200	170			204	3400		G1"	<b>F465-08IL</b>

## Special options, add the appropriate letter

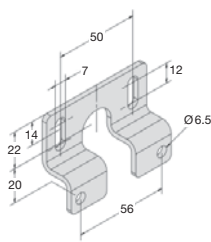
for oxygen specially cleaned F4.5-...15

## Zubehör, lose beigelegt

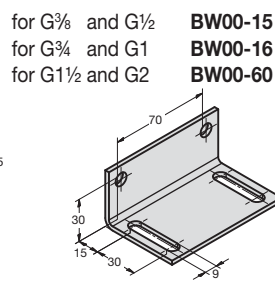
mounting bracket made of steel



BW00-15

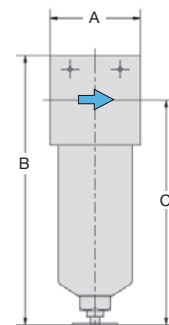


BW00-16



BW00-60

for G $\frac{3}{8}$ " and G $\frac{1}{2}$ " **BW00-15**  
for G $\frac{3}{4}$ " and G1" **BW00-16**  
for G1 $\frac{1}{2}$ " and G2" **BW00-60**



F445 / F465

\*1 at 7 bar operating pressure and 0.33 bar pressure drop

\*2 reduced from the next bigger filter

Spare parts: see separate spare parts list

PDF CAD  
www.aircom.net



Order example:  
F445-03EL



**Description** The exhaust filter/sound silencer treats all exhaust air issued by pneumatic devices:  
 1) Removing environmentally harmful oil particles from oily exhaust air  
 2) Silencing exhaust air noise

**Filtration efficiency** > 99.99%, residual oil content < 0.01 mg/m<sup>3</sup>

**Noise reduction** > 40 dB (A) at 1 m

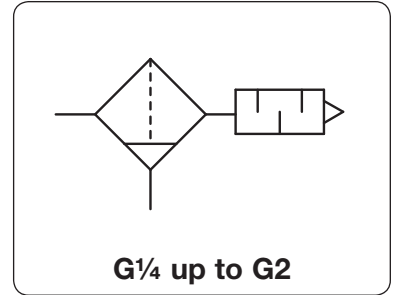
**Service life** approx. 2500 operating hours, depending on contamination

**Drainage** The bowl is emptied by means of an overflow valve or by opening the manual drain.

**Operating pressure** max. 16 bar

**Temperature range** 2 °C to 100 °C / 36 °F to 212 °F

**Material** Housing: polypropylene at G $\frac{1}{4}$  and G $\frac{3}{8}$ , aluminium at G $\frac{1}{2}$  to G2  
 Filter: micro fibreglass and polyurethane



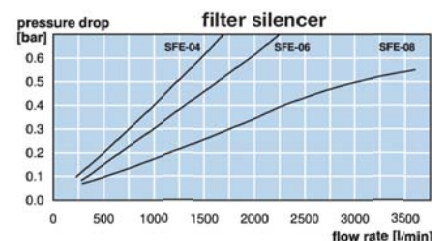
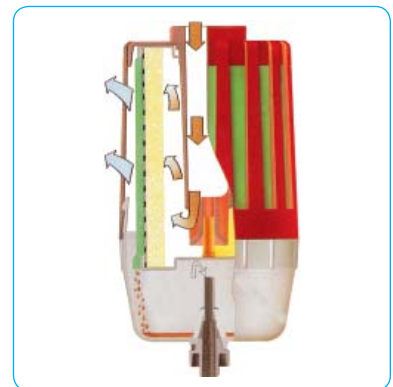
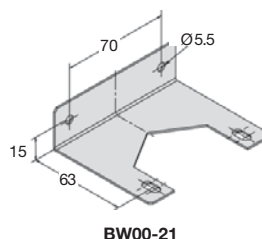
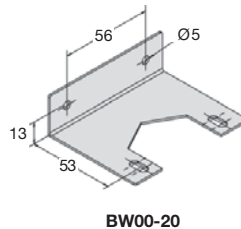
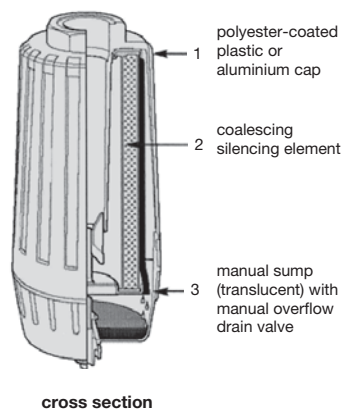
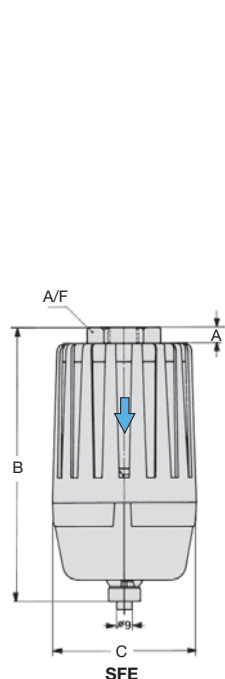
Dimensions				Flow rate	Connection thread	Order number
A	B	ØC	A/F			
mm	mm	mm	mm	m <sup>3</sup> /h*1	G	

Filter silencer						operating pressure max. 16 bar	SFE
8	131	77	28	30	500	G $\frac{1}{4}$	<b>SFE-02</b>
8	131	77	28	35	580	G $\frac{3}{8}$	<b>SFE-03</b>
12	181	90	36	75	1250	G $\frac{1}{2}$	<b>SFE-04</b>
12	181	90	36	100	1670	G $\frac{3}{4}$	<b>SFE-06</b>
15	254	110	50	175	2920	G1	<b>SFE-08</b>
70	287	110	50	200	3330	G1 $\frac{1}{4}$	<b>SFE-10</b>
70	312	110	50	200	3330	G1 $\frac{1}{2}$	<b>SFE-12</b>
70	312	110	50	200	3330	G2	<b>SFE-16</b>



## Accessories

mounting bracket	made of steel	for G $\frac{1}{4}$ to G $\frac{3}{4}$	<b>BW00-20</b>
		for G1 to G2	<b>BW00-21</b>



\*1 at 6 bar operating pressure to atmosphere

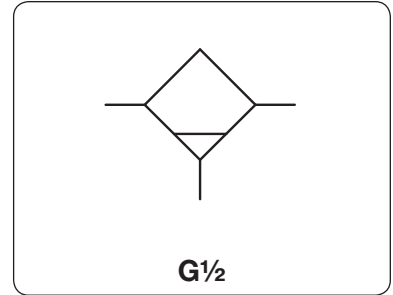
Spare parts: see separate spare parts list

PDF CAD  
www.aircom.net



Order example:  
**SFE-02**

<b>Description</b>	The condensate drain collects any liquid which has accumulated in the compressed air circuit. It is to be installed at the lowest point in the compressed air plant.
<b>Bowl</b>	plastic version with bowl guard at D608
<b>Drain</b>	metal version with or without sight glass at D11, with sight glass at D608 D11: internal automatic drain as standard for max. 12 bar, optionally manual drain D608: external automatic drain as standard for max. 18 bar, optionally internal drain for max. 16 bar without manual drain
<b>Operating pressure</b>	max. 12 bar at plastic bowl max. 12 bar or 16 bar at metal bowl with internal automatic drain max. 18 bar at metal bowl with external automatic drain
<b>Temperature range</b>	0 °C to 50 °C / 32 °F to 122 °F for plastic bowl 0 °C to 70 °C / 32 °F to 158 °F for metal bowl with sight glass 0 °C to 80 °C / 32 °F to 176 °F for metal bowl without sight glass
<b>Material</b>	Body: zinc die-cast Sight glass: polyurethane Bowl: polyurethane or zinc die-cast



Dimensions		Bowl	Automatic	Operating	Connection	Order
A	B	design	drain	pressure	thread	number
mm	mm	of / with	capacity	max. bar	G	

Condensate / tank drain with automatic drain						D11/D608	
54	134	metal	0.12	SA605MD	12	G <sup>1</sup> / <sub>2</sub>	<b>D11-04</b>
		metal / sight glass					<b>D11-04W</b>
95	159	plastic / bowl guard	0.25	SA603D	12	G <sup>1</sup> / <sub>2</sub>	<b>D608-04D</b>
		metal / sight glass			18		<b>D608-04DW</b>



D11-04W

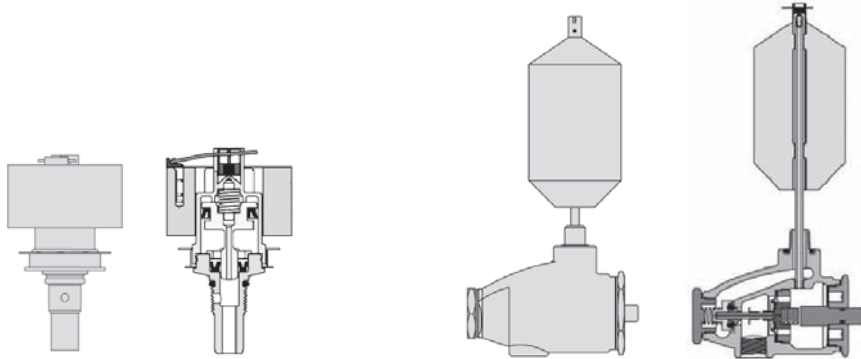
D11-04

## Wahlweise Ausführung, es ist der entsprechende Buchstabe hinzuzufügen

<b>NPT</b>	connection thread	D . . . -04 . <b>N</b>
<b>manual drain</b>	instead of automatic drain	for D11 D11 -04 . <b>H</b>
<b>manual drain</b>	instead of automatic drain	for D608 D608-04 . <b>H</b>
<b>automatic drain</b>	internal, SA702MD, max. 16 bar	for D608 D608-04 . <b>R</b>

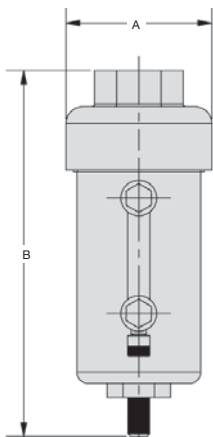


D608-04DW

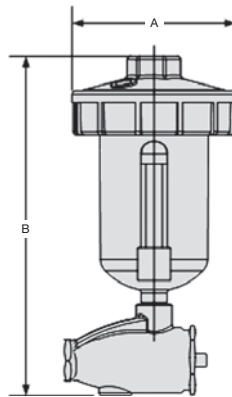


**SA605MD**  
internal drain

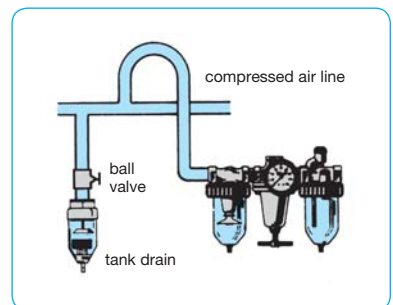
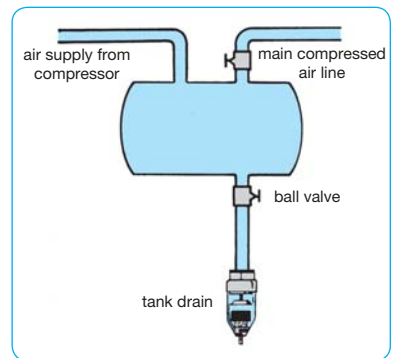
**SA603D**  
external drain



D11-04W



D608



examples of use

