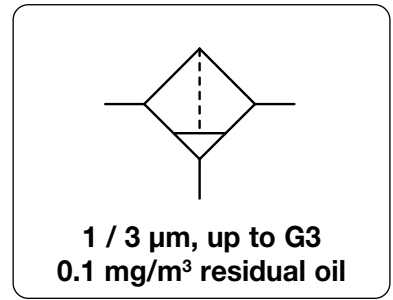


	pre-filter V	Fine filter Z
<b>Description</b>	Coarse filter for removing water and solid impurities.	Filters out oil, water and solid impurities. Resistant to mineral and synthetic oils.
<b>Filter element</b>	3 µm incoming flow from inside to outside.	1 µm incoming flow from inside to outside.
<b>Filtration efficiency</b>	99.99% based on 3 µm particle size	99.9999% at 1 µm particle size, residual oil content ≤ 0.5 mg/m³
<b>Filter change</b>	Cleaning required as from 0.35 bar differential pressure. Solid impurities removed by blowing from inside to outside. Oil to be cleaned in soap suds.	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	m³/h*1	µm	thread	
mm	mm	mm	of / with	l	l/min*1		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	<b>FG-02V</b>
89	293	269	automatic drain	0.8	60	1 000		G¾	<b>FG-03V</b>
89	293	269		0.8	108	1 800		G½	<b>FG-04V</b>
89	293	269		0.8	132	2 200		G¾	<b>FG-A6V</b>
109	393	359		1.8	180	3 000		G¾	<b>FG-06V</b>
109	393	359		1.8	270	4 500		G1	<b>FG-08V</b>
109	540	506		2.7	372	6 200		G1¼	<b>FG-10V</b>
109	540	506		2.7	432	7 200		G1½	<b>FG-1AV</b>
150	576	535		4.9	732	12 200		G1½	<b>FG-12V</b>
150	954	913		8.0	1 050	17 500		G2	<b>FG-16V</b>
188	759	703		10.3	1 800	30 000		G2½	<b>FG-20V</b>
188	939	903		12.7	2 220	37 000		G3	<b>FG-24V</b>



Micro fine filter 1 µm			with automatic drain, 99,9999% filtration efficiency residual oil ≤ 0.1 mg/m³, max. 16 bar					FG. Z	
69	194	173	aluminium /	0.2	30	500	1	G¼	<b>FG-02Z</b>
89	293	269	automatic drain	0.8	60	1 000		G¾	<b>FG-03Z</b>
89	293	269		0.8	108	1 800		G½	<b>FG-04Z</b>
89	293	269		0.8	132	2 200		G¾	<b>FG-A6Z</b>
109	393	359		1.8	180	3 000		G¾	<b>FG-06Z</b>
109	393	359		1.8	270	4 500		G1	<b>FG-08Z</b>
109	540	506		2.7	372	6 200		G1¼	<b>FG-10Z</b>
109	540	506		2.7	432	7 200		G1½	<b>FG-1AZ</b>
150	576	535		4.9	732	12 200		G1½	<b>FG-12Z</b>
150	954	913		8.0	1 050	17 500		G2	<b>FG-16Z</b>
188	759	703		10.3	1 800	30 000		G2½	<b>FG-20Z</b>
188	939	903		12.7	2 220	37 000		G3	<b>FG-24Z</b>



## Special options, add the appropriate letter

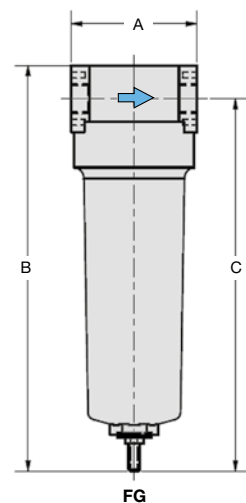
differential pressure gauge	FG-... D
replacement indicator	FG-... E
further sizes	

## Accessories, enclosed

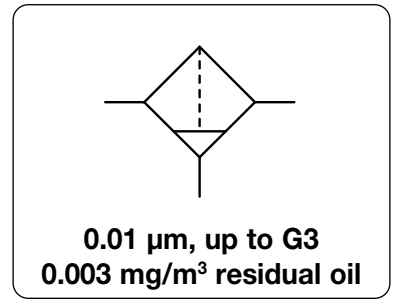
set of mounting brackets	made of steel	for G¼	<b>BW00-52</b>
		for G¾ to G¾ (A6)	<b>BW00-53</b>
		for G¾ (06) to G1½	<b>BW00-54</b>
		for G1½ (12) and G2	<b>BW00-55</b>
		for G2½ and G3	<b>BW00-56</b>

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: **20 mbar** on pre-filter and **30 mbar** on universal filter. The maximum permissible flow rate is 10% higher than the indicated value.



	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	

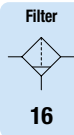


Dimensions			Bowl		Flow rate		Filter element	Connection	Order
A	B	C	Design	Capacity	m <sup>3</sup> /h*1	l/min*1	µm	thread	number
mm	mm	mm	of / with	l				G	

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

**Accessories,** enclosed

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: **50 mbar** on fine filter and **90 mbar** on super fine filter. The maximum permissible flow rate is 10% higher than the indicated value.