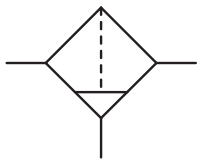
Micro Pre- and Fine Coalescing Filter FG

	Pre-filter V	Fine filter Z
Description	Coarse filter for removing water and solid impurities.	Filters out oil, water and solid impurities. Resistant to mineral and synthetic oils.
Filter element	3 µm incoming flow from inside to outside.	1 µm incoming flow from inside to outside.
Filtration efficiency	99.99% based on 3 µm particle size	99.9999% at 1 µm particle size, residual oil content ≤ 0.5 mg/m³
Filter change	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.
Drainage	automatic drain as standard, optionally manual drain	
Temperature range	1 °C to 65 °C / 34 °F to 149 °F	
Operating pressure	max. 16 bar	
Material	Body/Bowl: chromated and powder-coated cast aluminium	



1 / 3 µm, up to G3
0.1 mg/m³ residual oil

Dimensions A mm	B mm	C mm	Bowl Design of / with	Capacity l	Flow rate m³/h*1	l/min*1	Filter element µm	Connection thread G	Order number
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		G⅜	**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/m³, 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		G⅜	**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**

FG-04V

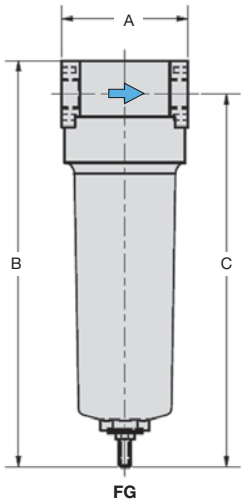
FG-04Z

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 G⅜ 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**



FG

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 permissable flow rate is 10% higher than the indicated value.

Spare parts: **see separate spare parts list**

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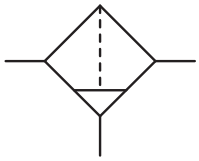
Order example:
FG-02V

Micro Super Fine Coalescing and Activated Carbon Filter FG

	Super fine filter X	Activated Carbon Filter A
Description	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.
Filter element	0.01 µm incoming flow from inside to outside	0.01 µm incoming flow from inside to outside
Filtration efficiency	99.99999% based on 0.01 µm particle size residual oil content ≤ 0.01 mg/m³ at 7 bar and 20 °C/68 °F	residual oil content ≤ 0.03 mg/m³ bei 7 bar and 20 °C/68 °F
Filter change	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.
Drainage	automatic drain as standard, optionally manual drain	manual drain as standard
Temperature range	1 °C to 65 °C / 34 °F to 149 °F	1 °C to 30 °C / 34 °F to 86°F
Operating pressure	max. 16 bar	
Material	Body/Bowl: chromated and powder-coated cast aluminium	



0.01 µm, up to G3
0.003 mg/m³ residual oil

Dimensions A mm	B mm	C mm	Bowl Design of / with	Capacity l	Flow rate m³/h*1	l/min*1	Filter element µm	Connection thread G	Order number
Super fine filter 0.01 mg/m³ 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	**FG-02X**
89	293	269	manual drain	0.8	60	1000		G⅜	**FG-03X**
89	293	269		0.8	108	1800		G½	**FG-04X**
89	293	269		0.8	132	2200		G¾	**FG-A6X**
109	393	359		1.8	180	3000		G¾	**FG-06X**
109	393	359		1.8	270	4500		G1	**FG-08X**
109	540	506		2.7	372	6200		G1¼	**FG-10X**
109	540	506		2.7	432	7200		G1½	**FG-1AX**
150	576	535		4.9	732	12200		G1½	**FG-12X**
150	954	913		8.0	1050	17500		G2	**FG-16X**
188	759	703		10.3	1800	30000		G2½	**FG-20X**
188	939	903		12.7	2220	37000		G3	**FG-24X**
Activated carbon filter 0.003 mg/m³ residual oil				with manual drain, **max. 16 bar**					**FG. A**
69	185	164	aluminium /	0.2	30	500	activated carbon	G¼	**FG-02A**
89	284	260	manual drain	0.8	60	1000		G⅜	**FG-03A**
89	284	260		0.8	108	1800		G½	**FG-04A**
89	284	260		0.8	132	2200		G¾	**FG-A6A**
109	384	350		1.8	180	3000		G¾	**FG-06A**
109	384	350		1.8	270	4500		G1	**FG-08A**
109	531	497		2.7	372	6200		G1¼	**FG-10A**
109	531	497		2.7	432	7200		G1½	**FG-1AA**
150	567	526		4.9	732	12200		G1½	**FG-12A**
150	945	904		8.0	1050	17500		G2	**FG-16A**
188	748	694		10.3	1800	30000		G2½	**FG-20A**
188	930	894		12.7	2220	37000		G3	**FG-24A**

FG-04X

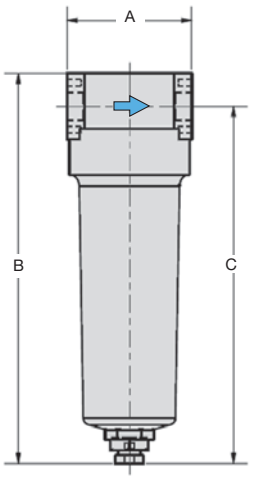
FG-03AD
with differential pressure gauge

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 G⅜ 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**



FG

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 permissable flow rate is 10% higher than the indicated value.

Spare parts: see separate spare parts list

PDF CAD
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Order example: FG-02X