



#### Description

- Borosilicate filter with a high capacity
- Filter rating 0.01 µm
- Efficiency 99.9999%
- Ideal for filtering out aerosols and solid impurities larger than 0.01 μm
- Micro-filter for connection upstream of an activated carbon filter. Installation of an upstream prefilter is recommended!
- Optionally with a differential pressure gauge
- Automatic drain as standard

### Applications

- All applications where standard centrifugal filters with a sintered element do not afford the desired efficiency. ausreichend ist.
- Part of a modular system that also includes a pre-filter and an activated carbon filter, this device belongs to a
  homogeneous product family that is suitable for a wide variety of applications, such as paint spraying plants,
  sandblasting systems, controllers, vacuum systems, measuring instruments, fluidics, feed air, process air, air
  bearings and air conditioning systems.
- The differential pressure gauge indicates the pressure drop  $\Delta p$  inside the filter.

#### **Operating principle**

- Flow direction (inside the element) from the inside to the outside.
- The air, which should preferably be pre-filtered (using a pre-filter), is cleaned in several stages. It flows through the filter element from the inside to the outside. Coarse impurities are removed by a pre-filtration mesh. This stage is followed by fine filtration in multi-layered, borosilicate glass-fibre material. The large cavity (85%) between the glass fibres ensures good absorptivity of solid matter.
  - The foam plastic sheaths are resistant to acidic and synthetic oils as standard.
- The (optional) differential pressure gauge indicates the degree of contamination of the element as a function of the pressure drop.

## Cleaning / element replacement

#### The filter cannot be cleaned!

The element should be replaced at the latest when the pressure drop is 0.6 bar, i.e. when the pressure gauge scale shows a value in the red sector.

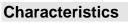
#### Materials

Part	Material
Head piece	AI
Filter bowl	AI
Filter element	Borosilicate - glass-fibre material
	foam plastic - stainless steel
O-rings	NBR
0	

#### Important

 $\rightarrow$  When the pressure system is started up again (e.g. after the element has been replaced), the pressure should be built up gradually to prevent irreparable damage to the filter element

1.2



**1**-18

Order No.			Accessories							
(1)	Port (thread)	Size	Filter element	Con- nectors	Mounting kit	Differential pressure				
	G		olomont	nootoro		gauge				
430.2102	1/4									
430.2104	3/8	1	430/2	429/29	429/25					
430.2106	1/2									
430.2208	3/4	2	430/6			5429.10				
430.2309	1	3	430/8							
430.2410	1¼	4	430/9	429/33	429/27					
430.2511	1½	5	430/11							
430.2612	2	6	430/12							
	General									
Operating pr - With autom drain	Max.	16 ba	16 bar							
- With manua valve		4 bar								
On a set is a ta	Min.	0 bar								
Operating te	mperature:	5°C to								
Port: ISO 22	8	G 1/4	to G 2 standard; G 21/2 and G 3 on request							
Indicating rated diff. pressure Mounting po Flow direction	e gauge sition	Vertic								
	11	inuica	ted by arro	vv						

(1) The first digit after the point is **5** instead of 2 for micro-filters without a differential pressure gauge.

Order example:

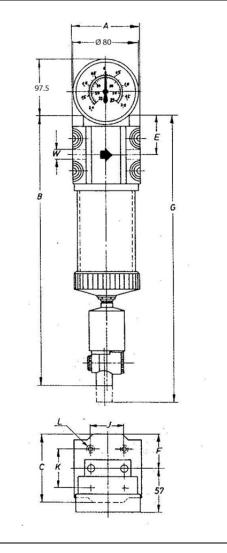
Micro-filter G 1/4 without differential pressure gauge: 430.5102

# Dimensions [mm]

Size	Port	Port Dimensions						Mounting			Weight incl. pr.gauge	
	W	Α	В	С	E	F	G	J	K	L	[g]	
1	G 1/4 / 3/8 / 1/2	83	335	83	57	41.5	410	40	48	M 6	2100	
2	G 3/4		405				550				2100	
3	G 1		420				530				4700	
4	G 1¼	118	520	118	72	59	730	70	80	M 8	5000	
5	G 1½		620				830				5500	
6	G 2		810				1310				6140	

#### Flow rates

		Size	Pressure [bar]							
			2	4	6	8	10	12	14	16
	m³/h	1	13	21	78	39	47	56	64	73
		2	26	43	120	77	94	111	129	145
Flow rate at pressure		3	39	64	245	116	141	167	193	219
drop ∆p = 1.5%		4	69	114	275	206	251	297	343	389
		5	107	179	390	321	393	464	536	607
		6	171	286	540	514	629	743	857	971





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