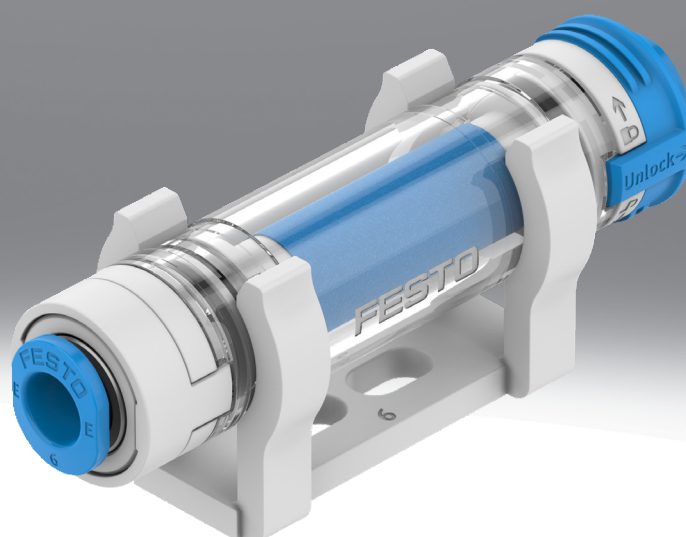


Inline filter OAFA

FESTO



Characteristics

At a glance

The inline filter is used to filter out dirt particles in the air in suction nozzles via a filter cartridge. The filter cartridge is located in a transparent housing so that the contamination level of the filter insert can be determined.

- Can also be used for battery applications thanks to F1A conformity

Note: Do not clean the housing with polar solvents (e.g. alcohol).

Diagrams

Link [oafa](#)



The diagrams shown in this document are also available online. These can be used to display precise values.

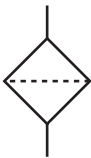
Type code

001	Series	
OAFA	Inline filter	
002	Design	
C	Inline	
003	Vacuum connection 1	
Q3	Push-in connector 3 mm	
Q4	Push-in connector 4 mm	
Q6	Push-in connector 6 mm	
Q8	Push-in connector 8 mm	
Q10	Push-in connector 10 mm	

004	Vacuum connection 2	
E	Same size as connection 1	
005	Filter design	
C	5 µm	
F	10 µm	
E	40 µm	

Datasheet

General technical data



Nominal size	3 mm	4 mm	6 mm	8 mm	10 mm
Pneumatic connection	For tubing outside diameter of 3 mm	For tubing O.D. 4 mm	For tubing O.D. 6 mm	For tubing O.D. 8 mm	For tubing outside diameter of 10 mm
Grade of filtration	5 µm, 10 µm, 40 µm				
Mounting position	Any				
Type of mounting	Inline installation				

Operating and environmental conditions

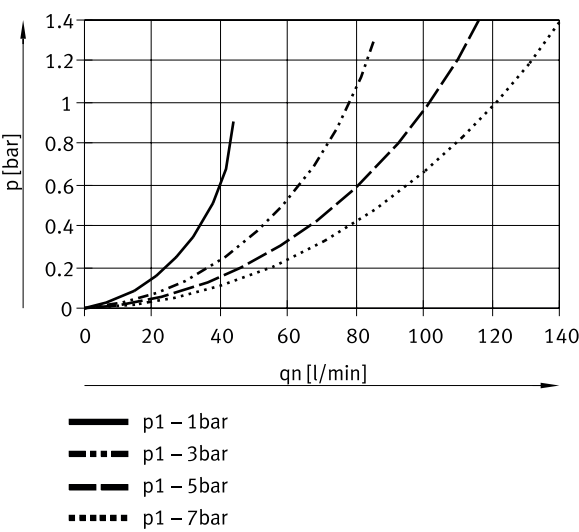
Operating pressure	-0.1 ... 1 MPa
Operating pressure	-1 ... 10 bar
Operating pressure	-14.5 ... 145 psi
Operating medium	Air
Ambient temperature	0 ... 60°C
Corrosion resistance class CRC 1)	1 - Low corrosion stress
Instructions on use	The housing should not be cleaned with polar solvents (such as alcohol).

1) More information www.festo.com/x/topic/crc

Materials

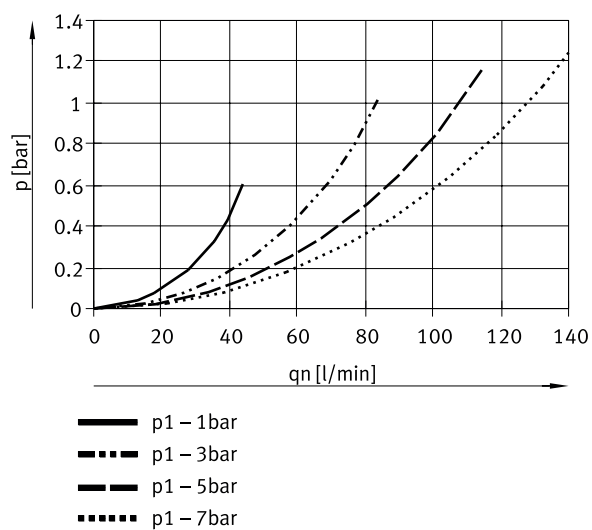
Material housing	PA
Material seals	HNBR
Material filter	Packaging unit
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 zone III
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)

Normal flow rate qn as a function of differential pressure Δp (OAFA-C-Q3-E-C)

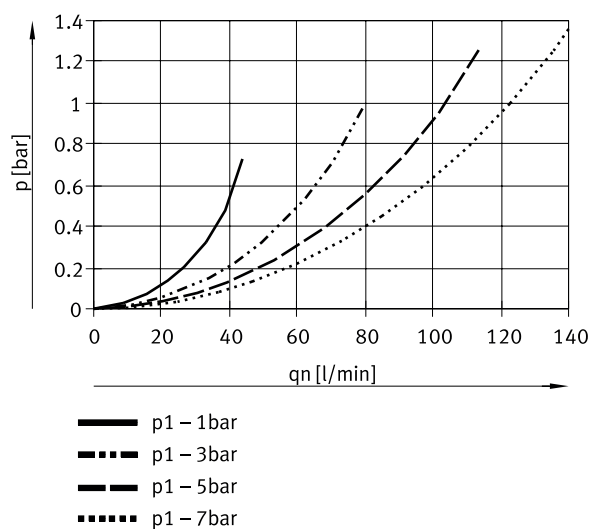


Datasheet

Normal flow rate q_n as a function of differential pressure Δp (OAFA-C-Q3-E-E)

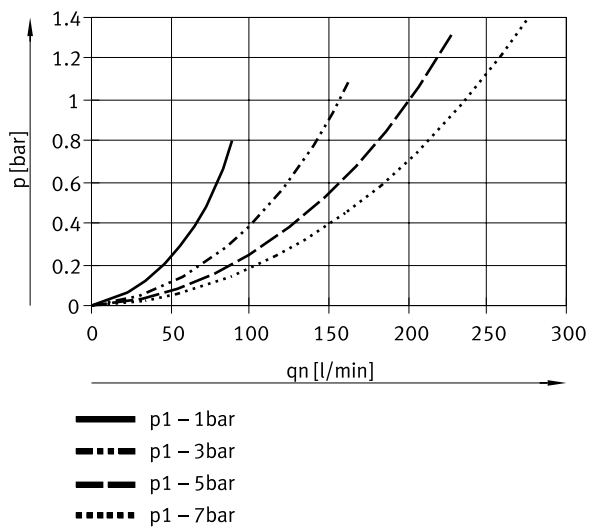


Normal flow rate q_n as a function of differential pressure Δp (OAFA-C-Q3-E-F)

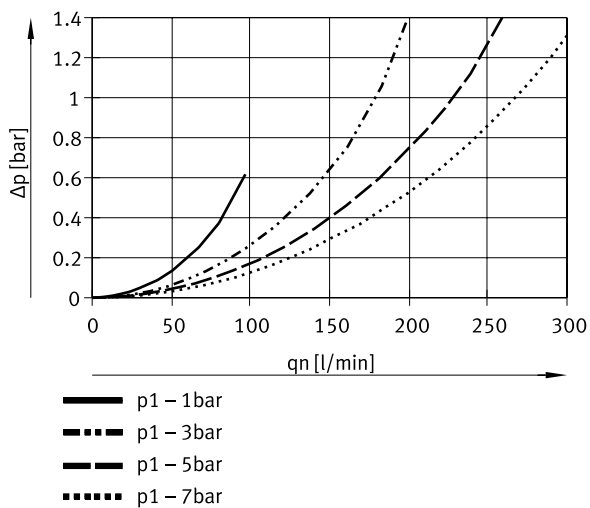


Datasheet

Normal flow rate q_n as a function of differential pressure Δp (OAFA-C-Q4-E-C)

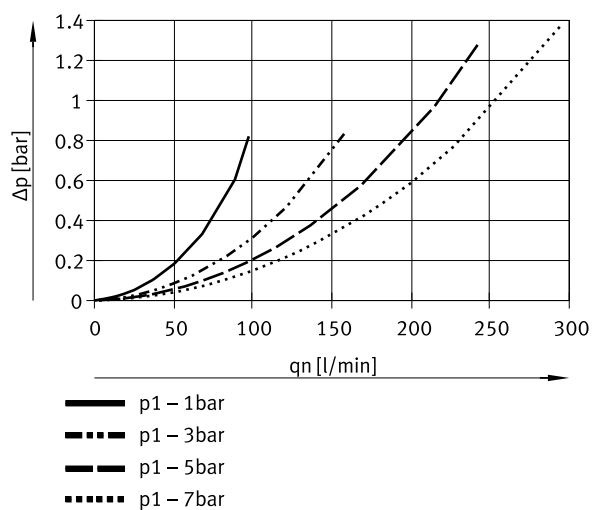


Normal flow rate q_n as a function of differential pressure Δp (OAFA-C-Q4-E-E)

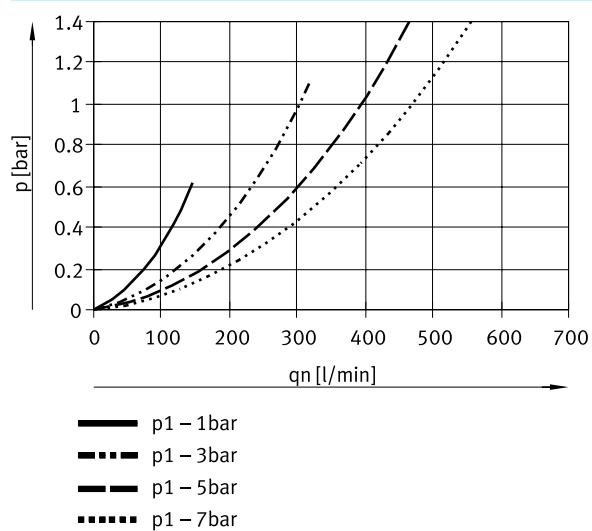


Datasheet

Normal flow rate q_n as a function of differential pressure Δp (OAFA-C-Q4-E-F)

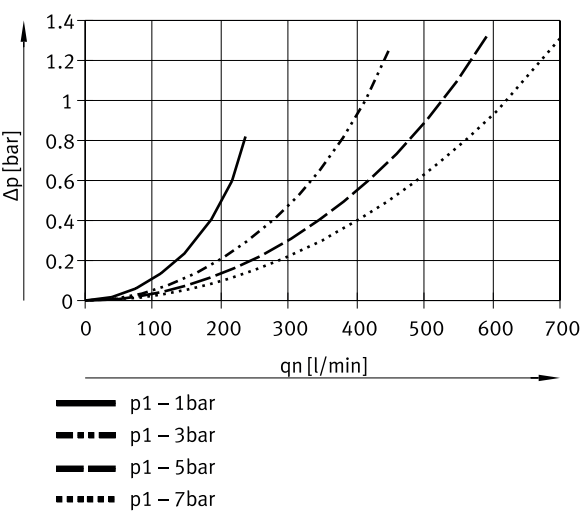


Normal flow rate q_n as a function of differential pressure Δp (OAFA-C-Q6-E-F)

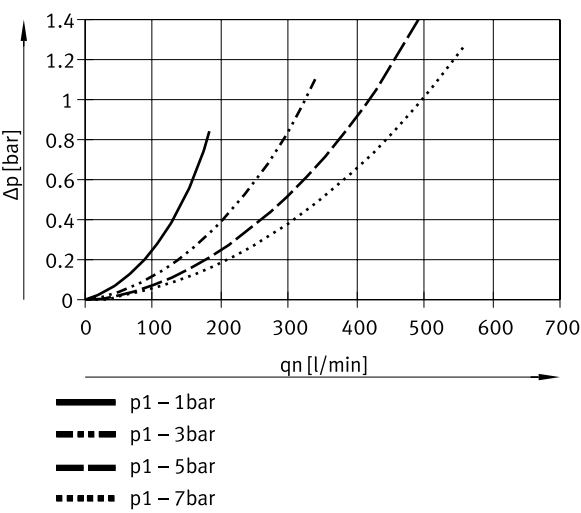


Datasheet

Normal flow rate q_n as a function of differential pressure Δp (OAFA-C-Q6-E-E)

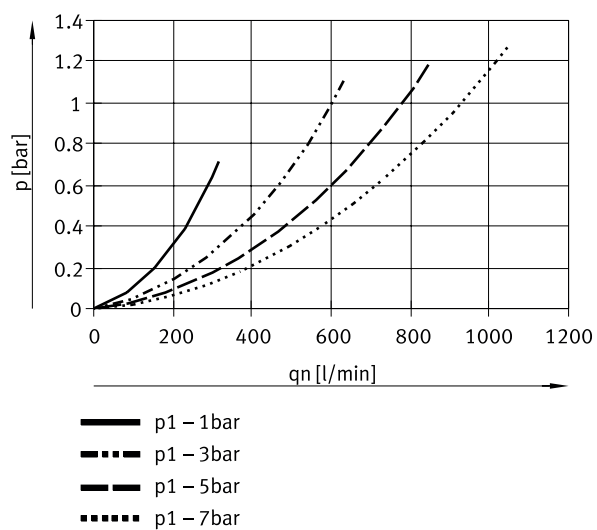


Normal flow rate q_n as a function of differential pressure Δp (OAFA-C-Q6-E-F)

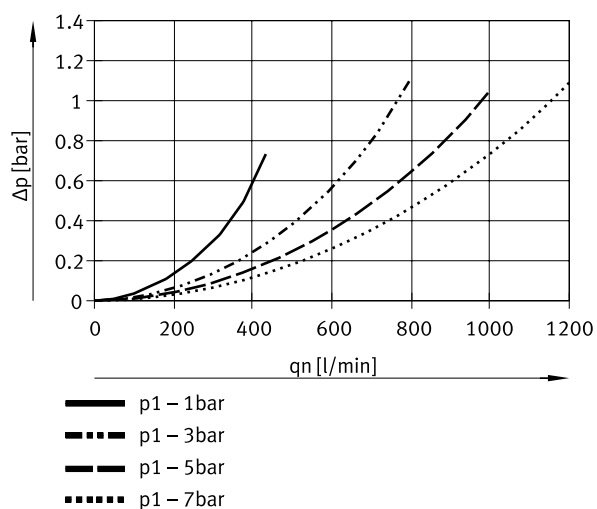


Datasheet

Normal flow rate q_n as a function of differential pressure Δp (OAFA-C-Q8-E-C)

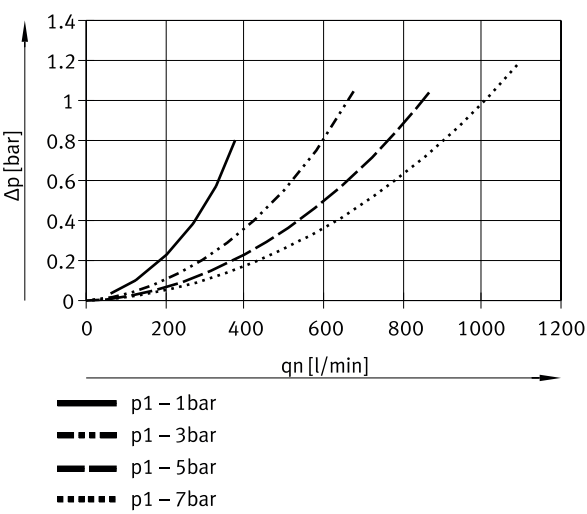


Normal flow rate q_n as a function of the differential pressure Δp (OAFA-C-Q8-E-E)

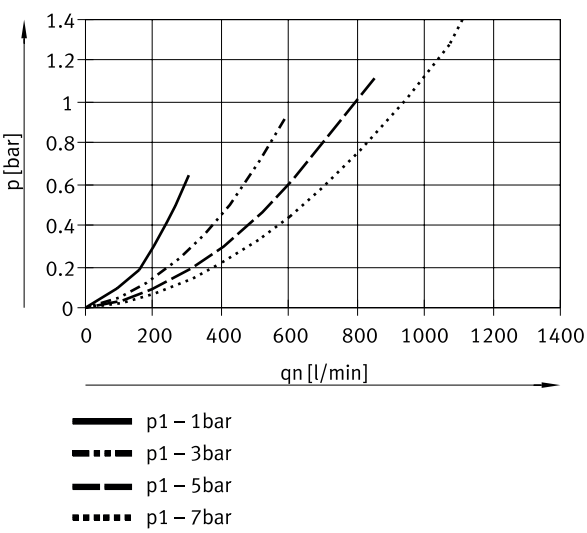


Datasheet

Normal flow rate q_n as a function of differential pressure Δp (OAFA-C-Q8-E-F)

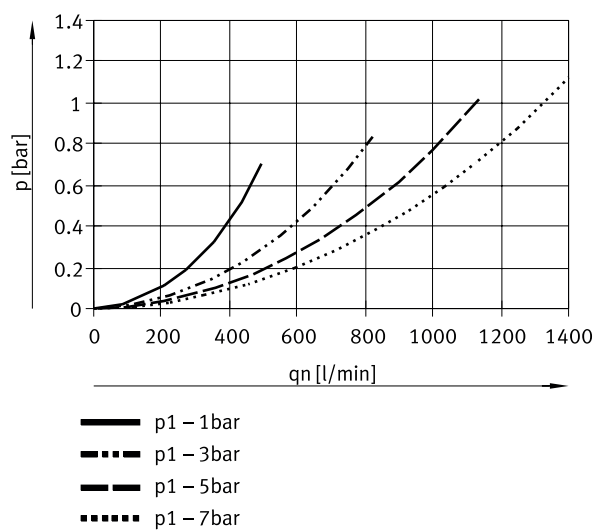


Normal flow rate q_n as a function of differential pressure Δp (OAFA-C-Q10-E-C)

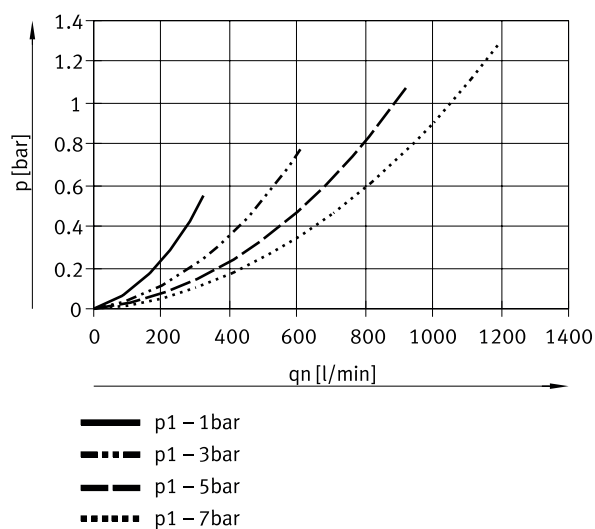


Datasheet

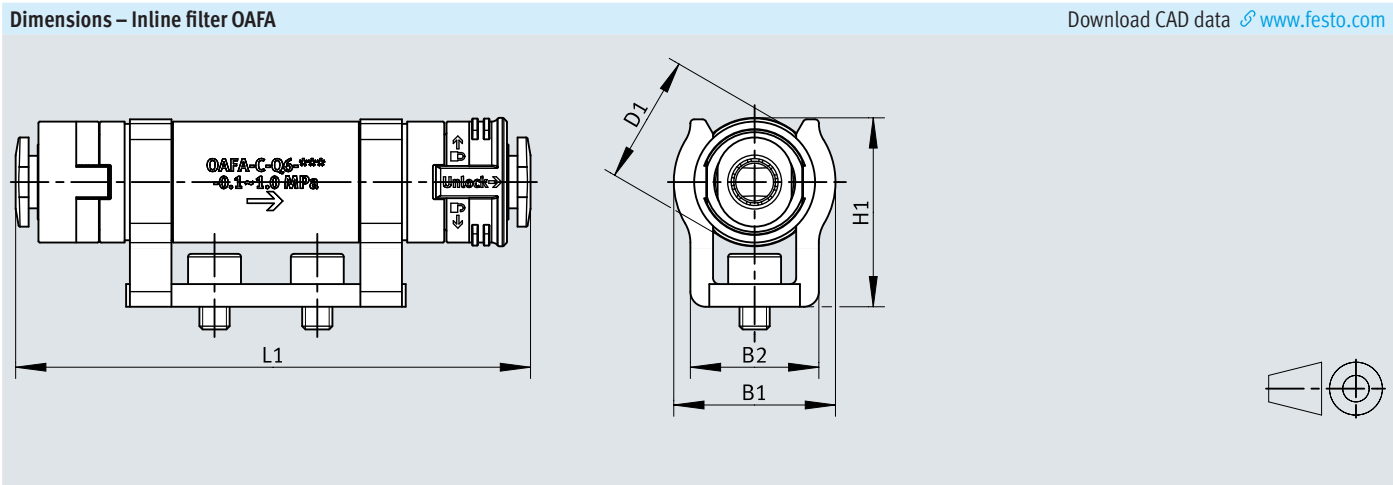
Normal flow rate q_n as a function of differential pressure Δp (OAFA-C-Q10-E-E)



Normal flow rate q_n as a function of differential pressure Δp (OAFA-C-Q10-E-F)



Dimensions

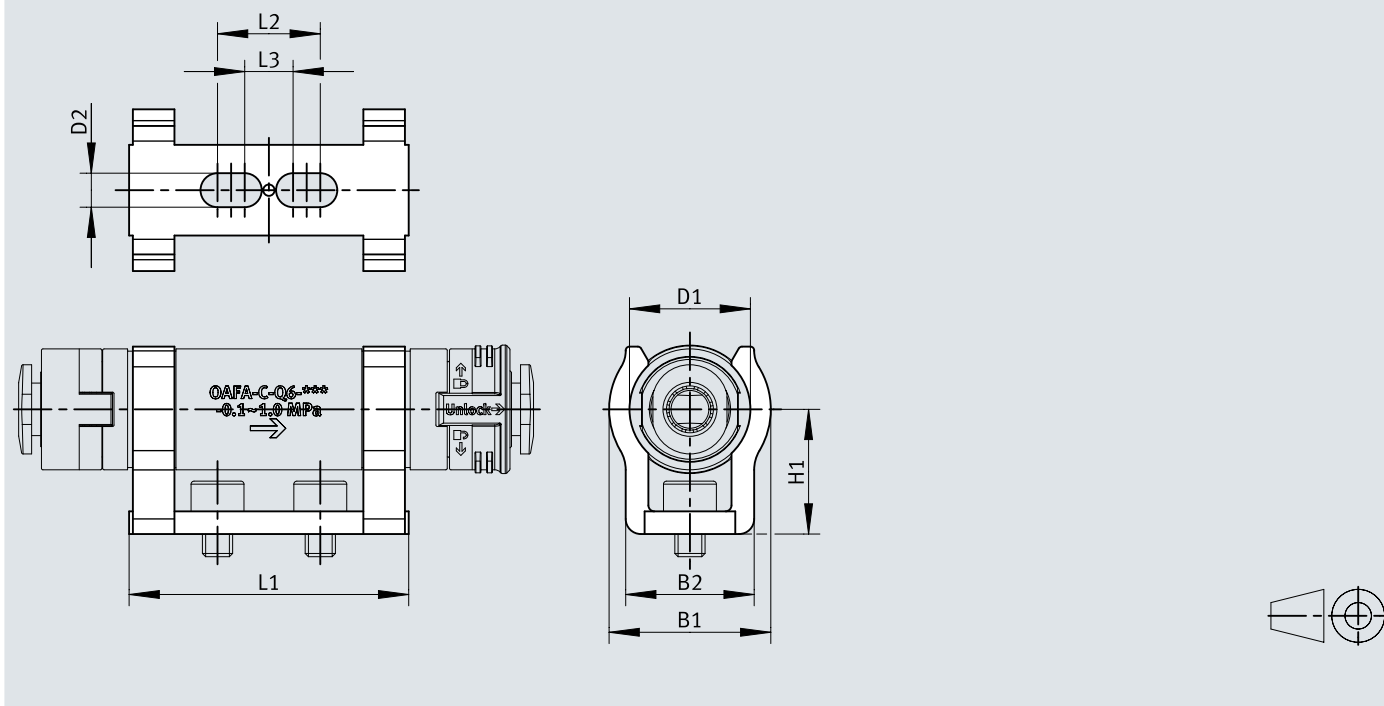


	B1	B2	D1 Ø	H1	L1
OAFA-C-Q3-E-C	14,7	11	12	17,5	60,2
OAFA-C-Q3-E-E					
OAFA-C-Q3-E-F					
OAFA-C-Q4-E-C	14,7	11	12	17,5	61,7
OAFA-C-Q4-E-E					
OAFA-C-Q4-E-F					
OAFA-C-Q6-E-C	21,4	17	17	25	68
OAFA-C-Q6-E-E					
OAFA-C-Q6-E-F					
OAFA-C-Q8-E-C	28	21	23,6	32,8	71,9
OAFA-C-Q8-E-E					
OAFA-C-Q8-E-F					
OAFA-C-Q10-E-C	28	21	23,6	32,8	87,5
OAFA-C-Q10-E-E					
OAFA-C-Q10-E-F					

Dimensions

Dimensions – Mounting bracket OAMM

Download CAD data www.festo.com



	B1	B2	D1 Ø	D2	H1	L1	L2	L3
OAMM-A2-A-Q3Q4	14,7	11	10,7	3,2	11,5	32	25	23
OAMM-A2-A-Q6	14,7	11	15,4	4,5	16,5	37	13,6	6,4
OAMM-A2-A-Q8Q10	21,4	17	22	4,5	21	39	19,3	8,7

Ordering data

Ordering information – Vacuum filter OAFA



Pneumatic connection	Nominal size	Grade of filtration	Product weight	Part no.	Type
For tubing outside diameter of 3 mm	3 mm	5 µm	5.38 g	8212636	OAFA-C-Q3-E-C
		10 µm		8212634	OAFA-C-Q3-E-F
		40 µm		8234101	OAFA-C-Q3-E-E
For tubing O.D. 4 mm	4 mm	5 µm	5.4 g	8212639	OAFA-C-Q4-E-C
		10 µm		8212637	OAFA-C-Q4-E-F
		40 µm		8212638	OAFA-C-Q4-E-E
For tubing O.D. 6 mm	6 mm	5 µm	11 g	8212642	OAFA-C-Q6-E-C
		10 µm		8212640	OAFA-C-Q6-E-F
		40 µm		8212641	OAFA-C-Q6-E-E
For tubing O.D. 8 mm	8 mm	5 µm	22.3 g	8212645	OAFA-C-Q8-E-C
		10 µm		8212643	OAFA-C-Q8-E-F
		40 µm		8212644	OAFA-C-Q8-E-E
For tubing outside diameter of 10 mm	10 mm	5 µm	28 g	8212648	OAFA-C-Q10-E-C
		10 µm		8212646	OAFA-C-Q10-E-F
		40 µm		8234107	OAFA-C-Q10-E-E

Accessories

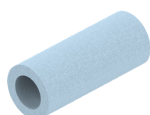
Mounting bracket OAMM



Type of mounting	Max. tightening torque	Suitability for the production of Li-ion batteries ¹⁾	Product weight	Part no.	Type
Via through-hole for M3 screw	0.26 Nm	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)	1.36 g	8228731	OAMM-A2-A-Q3Q4
Via through-hole for M4 screw	0.4 Nm		3.7 g	8228730	OAMM-A2-A-Q6
			5.63 g	8228729	OAMM-A2-A-Q8Q10

1) www.festo.com/x/topic/bat

Filter cartridge OAFC (5 µm)



Grade of filtration	Suitability for the production of Li-ion batteries ¹⁾	Product weight	Size of pack	Part no.	Type
5 µm	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)	0.93 g	5	8224528	OAFC-A2-Q3Q4-E-C
		3.25 g		8224531	OAFC-A2-Q6-E-C
		6.1 g		8224534	OAFC-A2-Q8Q10-E-C

1) www.festo.com/x/topic/bat

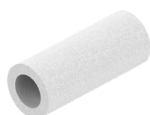
Filter cartridge OAFC (10 µm)



Grade of filtration	Suitability for the production of Li-ion batteries ¹⁾	Product weight	Size of pack	Part no.	Type
10 µm	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)	0.93 g	5	8224526	OAFC-A2-Q3Q4-E-F
		3.25 g		8224529	OAFC-A2-Q6-E-F
		6.1 g		8224532	OAFC-A2-Q8Q10-E-F

1) www.festo.com/x/topic/bat

Filter cartridge OAFC (40 µm)



Grade of filtration	Suitability for the production of Li-ion batteries ¹⁾	Product weight	Size of pack	Part no.	Type
40 µm	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)	0.93 g	5	8224527	OAFC-A2-Q3Q4-E-E
		3.25 g		8224530	OAFC-A2-Q6-E-E
		6.1 g		8224533	OAFC-A2-Q8Q10-E-E

1) www.festo.com/x/topic/bat