

M2 Filter for Liquids

Compact filter to protect components in a fluid system



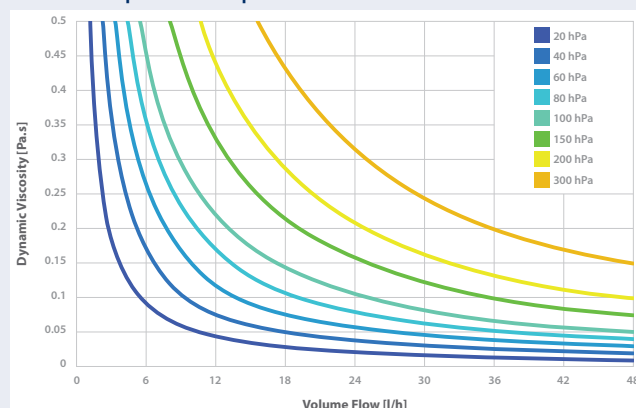
> Introduction

Filters play a relevant role to protect sensitive components in a fluid system. The Bronkhorst® M2 Filter for Liquids offers great flexibility, thanks to the modular concept, whereby it can be equipped with different fluid connectors, filter cartridges and sealing materials. In the default configuration, the drain outlet is provided with a drain plug, which can be replaced by a regular fitting to accommodate proper connection to a drainage facility.

> Technical specifications

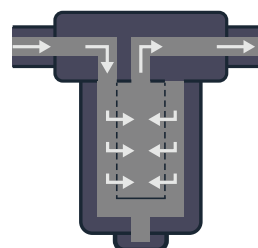
Type description	M2 Filter for Liquids
Filter fineness (meshed) and area	10 µm, 72 cm ² 25 µm, 65 cm ² 40 µm, 60 cm ²
Process connections	See model key
Dimensions	See dimensional drawing
Internal volume	30 ml
Material (housing)	Stainless steel (1.4404)
Material (wetted parts)	Stainless steel (1.4404)
Materials seals (choice)	Viton 70°Sh green 51415 Kalrez 6375 EPDM 559291 USP Viton 514178 USP Kalrez 6230 USP
Fluid temperature range	-10...+100 °C
Ambient temperature range	-20...+70 °C
Fluid pressure (PN)	200 bar (g)
Max. differential pressure	20 bar (d)
Leak integrity, outboard	tested < 2 x 10 ⁻⁹ mbar l/s He
Flow range	See flow rate vs pressure drop figure
Drain outlet	Drain connection, blind nut 1/4" RS or tap
Mounting position	Filter housing pointing downwards

Flow rate vs pressure drop



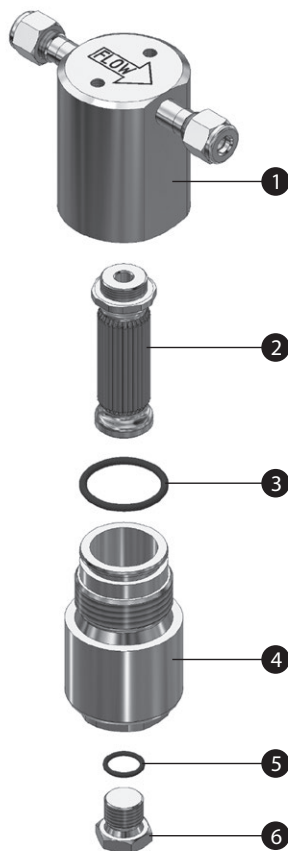
Pressure drop of a M2 filter with filter fineness of 10 µm (meshed)

Functional principle



Components, model key and dimensional drawing

1. Filter body
2. Cartridge
3. O-ring AS013
4. Cover
5. O-ring AS120
6. Drain plug



M2 - **NN** - **X** **X** - **X** - **N** - **A**

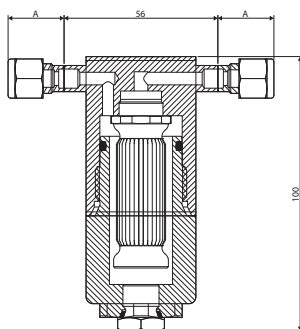
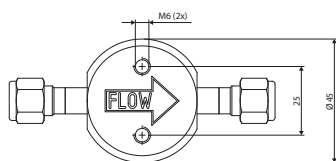
Code	Pore size
AF	10 µm
AH	25 µm
AG	40 µm

Code		Fluid connectors
Inlet	Outlet	
0	0	None
1	1	1/8" OD compression type
2	2	1/4" OD compression type
3	3	6 mm OD compression type
4	4	12 mm OD compression type
5	5	1/2" OD compression type
7	7	1/4" face seal female
8	8	1/4" face seal male
A	A	3 mm OD compression type
B	B	1/8" face seal male
C	C	1/16" OD compression type
D	D	3/8" OD compression type
G	G	8 mm OD compression type
H	H	10 mm OD compression type
L	L	1/2" Face seal male
M	M	1/4" O-ring face seal
9	9	Other (on request)

Code	Wetted material
S	Stainless steel 316L

Code	Seals
A	Viton® 514178 USP/FDA
B	EPDM 559291 USP/FDA
C	Kalrez® 6230 USP/FDA
K	Kalrez® 6375
V	Viton® 51415

Code	Drain connector
1	1/8" OD compression type
2	1/4" OD compression type
3	6 mm OD compression type
4	12 mm OD compression type
5	1/2" OD compression type
7	1/4" face seal female
8	1/4" face seal male
A	3 mm OD compression type
B	1/8" face seal male
C	1/16" OD compression type
D	3/8" OD compression type
G	8 mm OD compression type
H	10 mm OD compression type
L	1/2" Face seal male
M	1/4" O-ring face seal
Z	Blind nut
9	Other (on request)



Dimensions weld adapters

Compression type	3/8" tube
	A
3mm OD	18.0mm
6mm OD	19.2mm
8mm OD	26.6mm
10mm OD	39.7mm
12mm OD	42.4mm
1/16" OD	15.6mm
1/8" OD	18.1mm
1/4" OD	19.6mm
3/8" OD	26.6mm
1/2" OD	42.2mm

Face seal male	3/8" tube
	A
1/8" inlet	13.7 mm
1/4" inlet	17.6 mm
1/2" inlet	37.6 mm

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