

3M™ Housings 1N Series

Cartridge Filter Housings

Attention: This housing corresponds to the Directive 97/23/CE - Article 3.3
Please consult 3M Purification for any other classification.

Cartridge Filter Housing Model 1N

The model 1N plastic housing is manufactured from a high impact plastic for added strength and has been specifically designed to meet most industrial application requirements for liquid filtration.

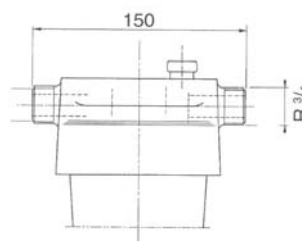
- The model 1N is available with R 3/4 or Rp 3/4 inlet and outlet connections.
- The model 1N may be fixed with a mounting bracket (optional).
- Double sump length allows extended cartridge change-out and reduces maintenance costs.
- No tool is needed for the threaded sump connection.

Table 1: Specifications 1N Filter Housing Model

Inlet - outlet	R 3/4 or Rp 3/4
Max. operating pressure	10 bar at 20 °C
Approx. shipping weight	1N1 : 1.2 kg 1N2 : 1.6 kg
Head	Talc filled polypropylene
Sump	S.A.N.: clear or opaque Talc filled polypropylene
O-ring	Nitrile
Vent plug	Polypropylene

Table 2: Dimensions

MODEL	A	H
1 N 1	318	360
1 N 2	568	610

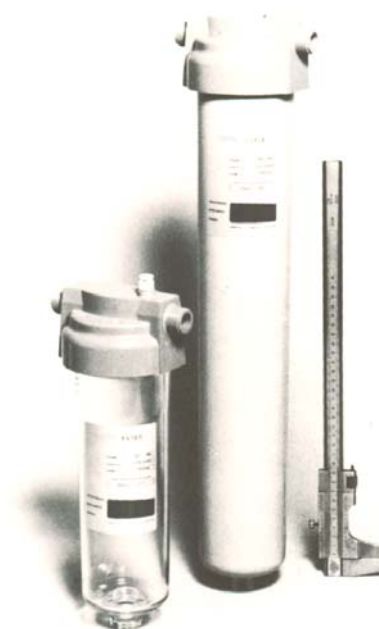


MODEL DESIGNATION **1N** **1** **M** **C**
 MODEL ←
 SUMP LENGTH 1 ← 2
 IN/OUT CONN.
 M: MALE
 F: FEMALE
 SUMP MATERIAL:
 O = S.A.N. opaque
 C = S.A.N. clear
 P = Polypropylene

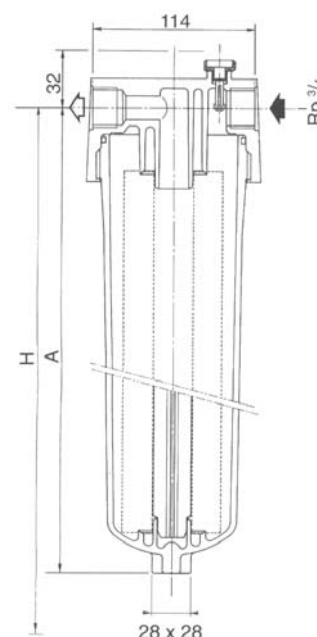
Table 3: Catalogue Numbers

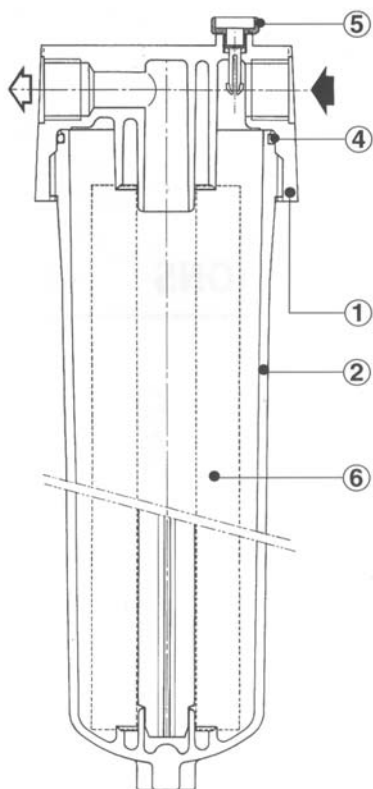
CONNECTION	SUMP				MODEL	REFERENCE
	MATERIAL	CLEAR	OPAQUE	LENGTH		
R 3/4	S.A.N.	X		1	1N1-MC	FQ100078218
			X	1	1N1-MO	FQ100078341
		X		2	1N2-MC	FQ100078549
	POLYPROPYLENE		X	1	1N1-MP	FQ100078275
			X	2	1N2-MP	FQ100078366
		X		1	1N1-FC	FQ100078309
Rp 3/4	S.A.N.		X	1	1N1-FO	FQ100078234
		X		2	1N2-FC	FQ100078556
			X	1	1N1-FP	FQ100078242
	POLYPROPYLENE		X	2	1N2-FP	FQ100078226
		X		1		
			X	2		

* Versions without mounting bracket



Type 1N1-MC Type 1N2-MP





Filter Cartridge Dimensions

Use 3M Purification standard cartridges with:

- double open end
- length 248 mm (9 ¾") for 1N1 or 496 mm (19 ½") for 1N2.

Filter Cartridge Identification

The cartridge identification is indicated on the filter cartridge packaging. The identification should be used for cartridge replacement orders.

Maximum Flow Rate

The maximum flow rate allowed is 2.2 m³ h⁻¹. However, maximum flow rate is usually dictated by the particular specification of the filter cartridge used.

Housing Installation

- Mount the housing vertically with the sump downwards.
- Keep enough space below (see dimension H).
- Connect inlet and outlet corresponding to the flow direction indicated by the arrow.
- The head can be fixed to the wall by an optional mounting bracket.

Operating Instructions

- The 1N1 filter housing is for liquid filtration only.
- Do not use for compressed air or other gases.
- The filter cartridge should be replaced when the maximum allowed pressure loss for the cartridge has been reached (*see specific cartridge specifications*).
- Before unscrewing the sump, close the inlet and outlet valves and open the vent plug (*item 5*). This ensures zero pressure in the filter housing.
- Tighten and untighten the sump manually when changing the cartridge. Do not overtighten.
- Vent by opening the vent plug (*item 5*) until the housing is completely full of fluid, then close vent.

Spare Parts

Consult 3M Purification for ordering spare parts indicating : part numbers, descriptions and quantities.

Table 4: Spare Parts List

ITEM	DESCRIPTION	PART OF MATERIAL	PART NUMBER
1	Head R ¾	Talc filled polypropylene	FQ100074118
2	Head Rp ¾	Talc filled polypropylene	FQ100074126
	Sump lg 1	S.A.N.: opaque	FQ100078358
	Sump lg 1	S.A.N.: clear	FQ100078200
	Sump lg 1	Talc filled polypropylene	FQ100078283
	Sump lg 2 with centre post	S.A.N.: clear	FD000064330
	Sump lg 2 with centre post	Talc filled polypropylene	FD000074332
4	O-Ring	Nitrile	FD000074373
5	Vent plug + O-ring	Polypropylene/ Nitrile	FD000074456
6	Cartridge	See the individual cartridge specifications	

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