

MFF100

Mist Separator

The MFF100 protects products by filtering out foreign matter such as dust in gas, oil mist, and welding fumes from piping work.

There is a wide variety of available models, not only for compressed air and low pressure air applications, but also for flammable gases like natural gas and propane, and for inert gases like argon and carbon dioxide. The MFF100 can be used with Yamatake's CMS, CMG, MVF, CML, CMQ-V, and MPC product lines.



Specifications

Model No.	MFF100NxGxxxxA	MFF100NxGxxxxS
Compatible gases	Air only	<ul style="list-style-type: none"> Flammable gases: methane, natural gas, propane, butane, butane-air, and propane-butane mixed gas Air Inert gases: nitrogen, argon, carbon dioxide
Operating pressure range	0 to 1MPa	
Pressure resistance	1.6MPa	
Operating temperature range	0 to 70°C	
Material	Housing	MFF100NAGxxxx: aluminum MFF100NSGxxxx: steel
	O-ring	NBR
	Element	SUS304, aluminum, epoxy resin, polyurethane, Cerex
Trapping efficiency	99.9999% for 0.01μm solid particles	
Residual oil density	0.01mg/m ³ max. when inlet density is 3mg/m ³	
Drain	Automatic drain is a standard feature on the compressed air model.	No drain. Use this model if a drain cannot be installed. There is no drain on flammable gas or inert gas models.
Differential pressure gauge	Clogged filter guideline mark is a standard feature.	
Coating specifications	Polyester resin coating	
Element replacement cycle	Every year, or before element differential pressure reaches 0.5MPa.	
Packing and delivery style	Since housing and element are separately packed, the element is user-mounted.	

Selection Guide

Example: MFF100NAG0002S000

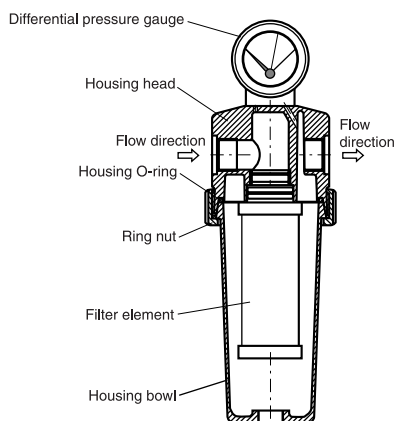
Segment	Model No. selection			Description	
I	Basic No.	MFF	↓ ↓	Filter for Micro Flow products	
II	Filter type	100	○ ○	Mist separator	
III	Identification	N	○ ○	Housing + element set	
IV	Connection	AG	○ -	Rc thread	
		SG	- ○	DIN flange	
V	Treated flow rate			Pipe size	Treated flow rate
	0002	○ -	Rc 1/4"	20m ³ /h (normal)	
	0006	○ -	Rc 3/8"	60m ³ /h (normal)	
	0012	○ -	Rc 1/2"	120m ³ /h (normal)	
	0027	○ -	Rc 1"	270m ³ /h (normal)	
	0048	○ -	Rc 1 1/2"	480m ³ /h (normal)	
	0108	○ -	Rc 2"	1080m ³ /h (normal)	
	0288	○ -	Rc 3"	2880m ³ /h (normal)	
	0576	- ○	DIN100A	5760m ³ /h (normal)	
	1152	- ○	DIN150A	11520m ³ /h (normal)	
VI	Drain	A	○ ○	Air model with drain	
		S	○ ○	For air, flammable and inert gases. No drain.	
VII	Design code	000	○ ○	None	

• A circle (○) denotes availability.

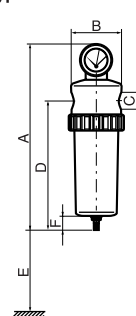
Dimensions

(Unit: mm)

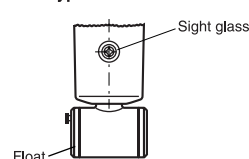
• Filter housing: MFF100NAG0002A to 0288A (with drain)



Type 0002A to 0048A



Type 0108A to 0288A



Housing size	Volume (liter)	Mass* (kg)	A mm	B mm	C	D mm	E mm	F mm	Replacement element	
									Model No.	Required qty. (units)
MFF100NAG0002A	0.35	1.0	285	70	R 1/4"	190	75	25	MFF100SMF0205000	1
MFF100NAG0006A	0.5	1.5	335	80	R 3/8"	220	90	25	MFF100SMF0310000	1
MFF100NAG0012A	0.9	1.9	360	95	R 1/2"	245	120	25	MFF100SMF0420000	1
MFF100NAG0027A	1.4	2.2	430	110	R 1	310	150	25	MFF100SMF0525000	1
MFF100NAG0048A	4.5	.65	585	150	R 1 1/2"	415	200	25	MFF100SMF0730000	1
MFF100NAG0108A	6.0	10.0	795	160	R 2"	625	450	105	MFF100SMF1530000	1
MFF100NAG0288A	18.0	20.0	1195	210	R 3"	1015	850	105	MFF100SMF3050000	1

* Mass without filter element