

## MicraDif



MicraDif is a range of low-cost disposable in-line filters for high efficiency particle removal in air, gas and liquid applications.

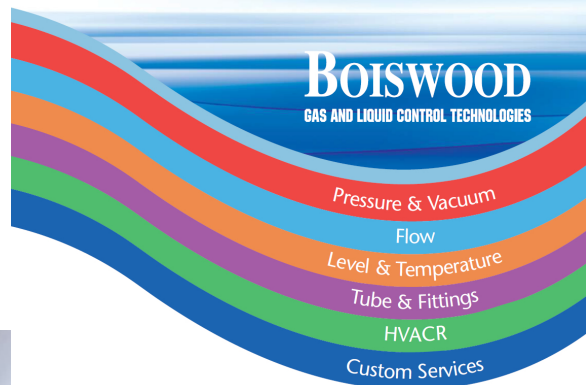
- Designed with a sealed transparent body for easy visual monitoring of performance and service life
- Low cost and disposable
- A permanently sealed **MicraTube** (size 1232) offers a wide range of filtration efficiency and broad chemical resistance\*
- A choice of housing material makes them suitable for a wide range of chemical environments\*
- Available in 5 efficiency grades to suit a range of applications

Suitable for point of use protection of portable analysers and other types of sensitive instrumentation from particulate contamination.

- Also suitable in many other compressed air, vacuum or liquid applications

\*see chemical resistance tables at [www.micrafilter.com](http://www.micrafilter.com) for details of chemical suitability or contact Micrafilter on +44 (0) 191 416 4067 for further information.

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[www.micrafilter.com](http://www.micrafilter.com)



### Applications

Gas analysis
Liquid analysis
Sample analysis
Emissions monitoring and analysis
Stack gas sampling
Instrumentation filtration
Laboratory point of use protection
Critical instrumentation protection
General in-line and process protection
Sample cross-contamination protection

### Industries

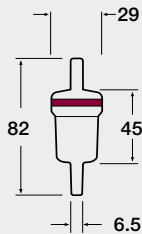
Alternative fuels
Automotive
Chemical manufacturing
CNG services
Compressed air and gas
Electronics
Food processing and packaging
Laboratories
Oil refinery
Pharmaceutical
Power generation
Waste disposal

For information regarding specific applications not listed please contact Micrafilter +44 (0) 191 416 4067

# Technical Specification

MicraDif

Filter Model	Efficiency, Air & Gas at 0.3 micron	Air Flow Rate (see note 1)			Efficiency, Liquid 98% at	Water Flow Rate L/hr at 100 mbar Pressure Drop
		Nm³/h	L/min	SCFM		
MDA-123	99.9998%	0.9	14	0.5	0.3 micron	6
MDB-123	99.9998%	1.3	21	0.75	0.9 micron	14
MDC-123	99.99%	2.6	42	1.5	2 micron	28
MDD-123	99.5%	1.3	70	2.5	8 micron	55
MDE-123	95%	5.0	82	2.9	25 micron	65



Dimensions mm

## Ordering:

If Nylon filter housing is required include suffix [N].

If Polypropylene filter housing is required include suffix [P].

**MicraDif** disposable filters are individually heat sealed in polythene packaging and supplied in packs of 10.

**MicraDif** disposable filters can also be supplied in single units if required.

## Technical Notes

1

**MicraTube** filter cartridges use a PVDF fluoropolymer binder.

2

Direction of flow is dependent on the application. For particulate applications the direction of flow is outside to inside. For coalescing applications the direction of flow is inside to outside.

Element Type	Grade	Efficiency, air & gas at 0.3 micron	Efficiency, liquid 98% at
<b>MicraTube</b>	MTA	99.9998%	0.3 micron
	MTB	99.9998%	0.9 micron
	MTC	99.99%	2 micron
	MTD	99.5%	8 micron
	MTE	95%	25 micron

Specification		
Filter material	Clear Nylon	Polypropylene
Maximum pressure	9 barg (130 psig)	Atmospheric
Pressure loss (clean and dry)	100 mbar (1.5 psi)	
Recommended filter change $\Delta P$	400 mbar (6 psi)	
Temperature range	-40°C to 60°C (-40°F to 140°F)	0°C to 65°C (32°F to 149°F)
Internal volume	11cm³	

Flow Correction Chart	For maximum flow rate multiply model 'flow rate' in the table by the correction factor closest to the actual working pressure												
Operating pressure	barg	0.2	0.5	0.75	1	2	3	4	5	6	7	8	9
	psig	4	9	14.5	29	44	58	72	87	100	115	130	145
Correction factor		0.21	0.29	0.38	0.53	0.65	0.76	0.84	0.92	1	1.07	1.13	1.19