

# MicraDif

MicraDif disposable filters are typically used to protect gas analysers and other types of sensitive equipment from particulate contamination. These disposable filters can also be used in many other compressed air, vacuum and liquid applications. Each MicraDif is available in either clear nylon or polypropylene. MicraDif contains a permanently sealed MicraTube (size 1232) available in five grades of efficiency depending upon the application.



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
		Nm <sup>3</sup> /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

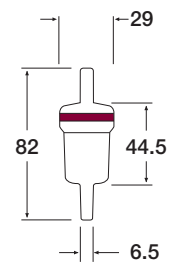
### Ordering:

If Nylon filter is required include suffix [N].

If Polypropylene filter is required include suffix [P].

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

Specification		
Filter material	Clear Nylon	Polypropylene
Maximum pressure	9 barg (130 psig)	Atmospheric
Pressure loss (clean and dry)	100 mbar (1.5 psi)	
Pressure loss replacement indicator	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	11cm <sup>3</sup>	



Dimensions mm

### Technical Notes

- Flow rates shown are at 2 barg (30 psig) operating pressure. Use the flow conversion chart below to calculate flow rates at other pressures.
- MicraTube filter cartridges use a fluorocarbon resin binder.
- Recommended direction of flow is from inside to out through the filter cartridge.

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	3	7.5	10	15	30	45	60	75	90	100	115	130	
Correction factor		0.4	0.5	0.55	0.65	1	1.2	1.5	1.8	2.1	2.4	2.5	2.8	