MICRAFILTER

MicraSteel Series

The MicraSteel Series is a range of high pressure housings manufactured from 316L stainless steel, specifically for specialist gas applications.

- Materials of construction comply with NACE MR-01-75 and ISO 15156
- Corrosion, high temperature and broad chemical resistance for high pressure applications
- Available in 100 and 350 barg pressure ranges
- All pipe connections are NPT taper threads as standard, other thread forms are available on request
- All housings are supplied without a drain and a Viton seal unless otherwise specified

All MicraSteel housings are suitable for use with MicraTube, MicraLescer and MicraMesh, dependent on the specific application.

- **MicraTube** offers a wide range of filtration efficiency
- **MicraLescer** is a coalescing filter cartridge which removes oil aerosols and particulate matter
- **MicraMesh** offers excellent corrosion and high pressure differential resistance for heavily contaminated applications
- All filter cartridges offer high temperature tolerance and broad chemical resistance*
- Outstanding durability in high pressure and high temperature environments

Applications

- Gas analysis
- Liquid analysis
- Emission monitoring and analysis
- Sample analysis
- Stack gas sampling
- Gas and chemical filtration
- Fume cupboard filtration
- Instrumentation filtration
- Laboratory point of use protection
- Critical instrumentation protection
- General in-line and process 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

* see chemical resistance table at www.micrafilter.com for details of chemical suitability or contact Micrafilter on :-

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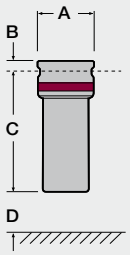
www.micrafilter.com

Technical Specification

MicraSteel Series

Filter Model	Pipe Size (NPT)	Flow Rate (see note 1)			Dimensions mm (Inches)				Cartridge Size mm (Inches)	Mounting Bracket
		Nm³/h	L/min	SCFM	A	B	C	D		
MST-102-2564-[Grade]	1/4	29	481	17	65 (2.6")	20 (0.8")	135 (5.3")	70 (2.8")	25 x 64 (1" x 2.5")	MBK2
MST-104-2564-[Grade]	1/2	60	991	35	65 (2.6")	20 (0.8")	135 (5.3")	70 (2.8")	25 x 64 (1" x 2.5")	MBK2
MST-102-2178-[Grade]	1/4	34	566	20	65 (2.6")	20 (0.8")	250 (9.8")	180 (7.1")	25 x 178 (1" x 7")	MBK2
MST-104-2178-[Grade]	1/2	90	1500	53	65 (2.6")	20 (0.8")	250 (9.8")	180 (7.1")	25 x 178 (1" x 7")	MBK2
MST-351-1232-[Grade]	1/8	8.5	141	5	41 (1.6”)	10 (0.4”)	78 (3.1”)	35 (1.4”)	12 x 32 (0.5” x 1.2”)	MBK1
MST-352-1232–[Grade]	1/4	11	169	6	41 (1.6”)	10 (0.4”)	78 (3.1”)	35 (1.4”)	12 x 32 (0.5” x 1.2”)	MBK1
MST-351-1257-[Grade]	1/8	12	198	7	41 (1.6”)	10 (0.4”)	103 (4.1”)	60 (2.4”)	12 x 57 (0.5” x 2.2”)	MBK1
MST-352-1257-[Grade]	1/4	29	481	17	41 (1.6”)	10 (0.4”)	103 (4.1”)	60 (2.4”)	12 x 57 (0.5” x 2.2”)	MBK1
MST-354-2564-[Grade]	1/2	60	991	35	65 (2.6”)	20 (0.8”)	135 (5.3”)	70 (2.8”)	25 x 64 (1” x 2.5”)	MBK2
MST-354-2178-[Grade]	1/2	90	1500	53	65 (2.6”)	20 (0.8”)	250 (9.8”)	180 (7.1”)	25 x 178 (1” x 7”)	MBK2



Ordering:

Each filter housing is supplied individually. Filter cartridges must be ordered separately.

For more information consult the MicraTube, MicraLescer and MicraMesh data sheets.

If a PTFE seal is required include suffix [F].

Technical Notes

1. The drain connection size is the same as the pipe size expect for the MST-354 models which are all 1/4” NPT

Specification	100 Barg		350 Barg	
Model	MST-102 & 104		MST-351, 352, 354	
Filter housing material	316L stainless steel		316L stainless steel	
Maximum operating pressure	100 barg (1450 psig)		350 barg (5075 psig)	
Seal material	Viton (standard)	PTFE (optional)	Viton (standard)	PTFE (optional)
Temperature range*	0°C to 200°C (32°F to 392°F)		0°C to 200°C (32°F to 250°F)	

* Max temperature is dependent upon final configuration, filter cartridges and seals

Flow Conversion 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	1	2	4	7	10	15	20	50	100	150	250	350
	psig	15	30	60	100	150	200	300	750	1500	2000	3500	5000
Correction factor		0.3	0.2	0.75	1	1.2	1.5	1.7	2.5	3.5	4.5	6	7

For MicaSteel 350 Barg models only

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