

# MicraSteel 100 barg

MicraSteel 100 barg filters have been specifically designed and manufactured for high efficiency filtration of gases and liquids in critical applications. Manufactured from solid steel bar stock in accordance with the NACE MR-01-75 (ISO 15156-1) specification, they can be used in the pressure range from full vacuum to 100 barg (1500 psig). MicraSteel filters are suitable for use with all grades of MicraMesh, MicraLescer and MicraTube. All sizes are available with or without a drain connection.



Filter Model	Pipe Size (NPT)	Flow Rate (see note 1)			Dimensions mm (")				Cartridge Size mm (")	Mounting Bracket
		Nm³/h	L/min	SCFM	A	B	C	D		
MST-102-2564-[ ]	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-[ ]	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-[ ]	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-[ ]	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:

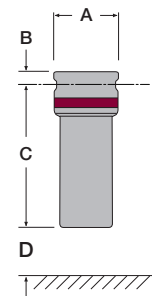
If a PTFE seal is required include suffix [F].

If a drain connection is required include suffix [D].

If a PTFE seal and drain connection are both required include suffix [FD].

Filter cartridges sold separately.

Specification		
Model	MST-102 & 104	
Filter material	316L Stainless Steel	
Maximum operating pressure	100 barg (1500 psig)	
Seal material	Viton (standard)	PTFE (optional)
Temperature range*	-40°C to 200°C (-40°F to 392°F)	-240°C to 260°C (-400°F to 500°F)
Drain connection	Optional	



\* The temperature range of the cartridge intended for use must also be considered.

### Technical Notes

- Flow rates are based on a 7 barg (100 psig) operating pressure. Use the flow conversion chart below to calculate flow rates at other pressures.
- The drain connection size is the same as the pipe size except for models MST-104 which are 1/4" NPT.
- For coalescing, recommended direction of flow is from inside to out through the filter cartridge. For particulate removal, recommended direction of flow is from outside to in through the filter cartridge. Housing heads are marked with 'P' and 'C' to aid installation.

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
	psig	15	30	60	100	150	200	300	750	1500
Correction factor		0.3	0.2	0.75	1	1.2	1.5	1.7	2.5	3.5