

Atlas Copco



MSS
stainless steel
sintered filter



MSS stainless steel sintered filter

Product description

Introduction

MSS filters provide reliable and efficient filtration for steam, high-temperature, and corrosive gases and liquids. It has an extended service life thanks to its robust construction and durable materials. The high-pressure sintered construction has many equally distributed voids with excellent permeability. It is fully welded with no adhesives or glues used.

Devices

MSS filters are available in a wide range of scalable cartridges that allow for fast and easy scale-up of your production. From laboratory-scale filters to production-scale assemblies, all filters incorporate the same media and identical materials of construction, eliminating the need to requalify filter units as processes are scaled up.

Compatibility

The MSS filter series are made entirely from stainless steel ensuring wide compatibility with a range of fluids and suitable for applications such as pre-filtration in water and other liquids and a broad chemical compatibility with a large number of solvents, acids and bases. A range of oring materials aids this. Due to the materials used, this provides compliance and suitability in food production and pharmaceutical uses, meeting the major regulations controlling contact materials.

Documentation

MSS filters are designed, developed and manufactured in accordance with a ISO 9001 certified Quality Management System.

All the materials used comply with the European Union Regulation (EC) No. 1935/2004 as well as the Regulation (EU) No. 10/2011. concerning plastic materials and articles intended to come into contact with foodstuffs. These guidelines for plastics allow the use in food and beverage applications. All materials used meet the requirements of the CFR Title 21.



Key features

- High flow and low pressure drop
- Absolute retention rate (gas)
- Wide chemical compatibility
- Suitable for repeatable cleaning
- Regeneration by ultrasonic bath

Applications

Thanks to its chemical compatibility MSS series filters are widely used in Food & Beverage, Pharmaceutical, Cosmetics and Chemical Industries.

- Steam, gases and liquids
- Culinary steam filtration
- High temperature gas and water filtration
- Oxidant and corrosive streams



Technical data

Micron ratings (μm)

1/5/25 μm

Cartridge length

10"/20"/30" + UF sizes (see configuration)

Cartridge diameter

42mm - 140mm

Material of construction

Filter media	Sintered 316L Stainless steel
End caps	304 Stainless steel
Seal	EPDM, Fluoraz

Maximum operating temperature

210°C (EPDM), 250°C (Fluoraz)

Maximum differential pressure forward (cartridges)

5.0 bar

Recommended changeout differential pressure

2.5 bar

Regulatory compliance

Indirect food additive

The product complies with food contact regulation 21 CFR §177 - 182 and (EC) No 1935/2004 and subsequent amendments

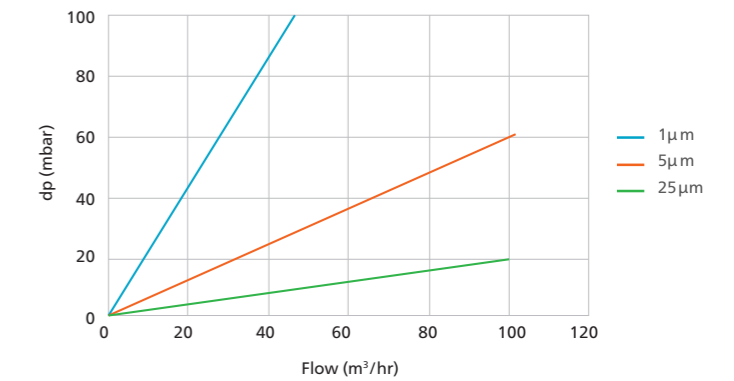
Quality assurance

For each filter cartridge an electronic Certificate of Conformity is available, detailing relevant information and product approvals against the specific batch number and part number for the filter. The filter cartridges are manufactured in a controlled environment.

Product purity

All MSS series cartridges are free of surfactants, anti static agents, binders and adhesives.

Flow rate



Note: 1030 cartridge tested with saturated steam @ 121°C/1 barg

Protecting process, products and people

Atlas Copco's process filters optimize your productivity while protecting your process, product and consumers. Our portfolio of cartridges and housings covers all your filtration needs. The products are made from proven, high quality materials from reputable suppliers and manufactured in a controlled environment subjected to strict QA/QC procedures.

Dimensions

Size	A mm	B mm	C Inch	D mm	Correction factor
MSS 0310	76	12	¾"	42	0,12
MSS 0410	104	12	¾"	42	0,17
MSS 0420	104	14	1"	52	0,19
MSS 0520	104	14	1"	52	0,19
MSS 0525	128	14	1"	62	0,32
MSS 0530	128	16	2"	86	0,46
MSS 0725	180	14	1"	62	0,47
MSS 0730	180	16	2"	86	0,68
MSS 1030	254	16	2"	86	1,00
MSS 1530	381	16	2"	86	1,55
MSS 2030	508	16	2"	86	2,10
MSS 3030	762	16	2"	86	3,28
MSS 3050	762	16	3"	140	5,89



Product configuration

Cartridges

Series	Rating (µm)	Length	End cap	Seal
MSS	1	10" / 20" / 30"	UF (UF plug in 2 oring)	E (EPDM)
	5	0310 / 0410	C7 (2x226 O-ring + 2 tabs/fin)	F (Fluoraz)
	25	0420 / 0520		
		0525 / 0725		
		0730 / 1030		
		1530 / 2030		
		3030 / 3050		

Example: MSS 1µm 0310 UF E

