

Stainless Steel Filter Cartridge Type Causamesh CMG

Causamesh CMG

The Causamesh stainless steel filter cartridges are made of stainless steel components such as screen mesh, perforated sheet support tube and caps, which are mechanically connected. In the case of very fine fabrics, drainage is integrated between the sieve and the support body. The intermediate layer serves to bring the smooth filter fabric to a distance from the support plate in order to achieve a larger effective filter area. No glue is used.

A common application is the filtration of aqueous solutions. The Causamesh stainless steel filter cartridges are robust and can be cleaned and reused in many applications after filtration. The Causamesh is available in filter fineness's from 5µm to 1000µm and fits in standard 5", 9 3/4", 10", 19 1/2" and 20" filter housings. Other sizes and adapters can be made on request.

Features & Benefits

- Stainless steel 304 (1.4301) or 316 (1.4401)
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- Filtration fineness from 5µm to 1000µm
- Different lengths from 5 to 20"
- Cylindrical or pleated designs
- EPDM seals are standard. Other seals made of NBR (Buna-N), FKM (Viton), silicone or PTFE can be optionally supplied.
- Reusable depending on the application.
- Suitable for 5", 9 3/4", 20" and 30" DOE filter housings.
- The end caps of the filters are mechanically attached.
- Outside diameter 63/68mm · Inside diameter 26mm

Selection of the fineness

- Classic surface filtration with a two-dimensional separation of particles from a filtrate.
- When selecting the filter fineness, attention should be paid to the deformability of the particles. Larger particles can pass through the filter medium for the following reasons:
 - By pressing e.g. Gel particles. The stitches are on one level (two-dimensional).
 - Particles with larger dimensions can pass the mesh in the longitudinal direction.



Different Causamesh versions cylindrical / pleated

The Causamesh CMG stainless steel filter cartridges are available in two versions: cylindrical and pleated.

Cylindrical design

The advantage of this construction is the open, accessible surface. This accessibility is advantageous when cleaning the surface is needed.

Pleated version

The pleating serves to enlarge the surface. Depending on the level of contamination, this version can absorb a higher dirt load and thus extend the service life. The folds are structurally open so that cleaning is also possible here.

Cleaning is a possible option to use these filters several times. Cleaning is only possible with easily removable contaminants. Mechanical cleaning is not possible.

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Specification

Fabric types:

Filter mesh fabric according to DIN 4189 or ISO 4783

Version / design:

cylindrical or pleated

Filtration fineness:

Standard: 5, 10, 15, 25, 40, 50, 70, 100, 150, 200, 250, 300, 400, 500, 750 and 1000µm.
Other filter fineness on request!

Effective filtration area:

(related to OD = 68mm, length = 248mm)
cylindrical = 0.05m²
pleated = 0.15 m²

Dimensions:

Outer diameter = approx. 65mm,
Inner diameter = 25mm

Available lengths *:

127, 248, 500mm, * Other lengths on request

Materials:

Filter: Stainless steel 304 (1.4301) or 316 (1.4401)
Flat gaskets: EPDM (standard), NBR, FKM, Silicone and PTFE

Adaptations:

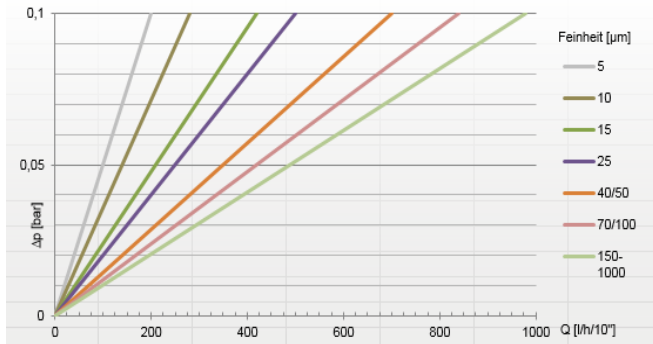
Flat basket on both sides

Recommended operating conditions:

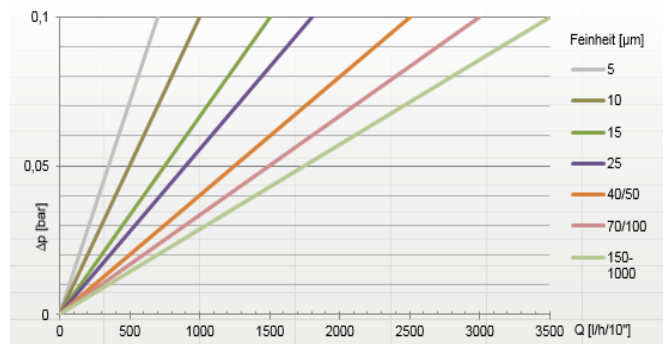
Depending on the gasket material, cylindrical up to 230°C and pleated up to 140°C.
Max. Diff. Pressure: 1.4bar at 25°C.
Max. Diff. Pressure: 4.0bar at 25°C in the H version

Flow

Cylindrical version:



Pleated version:



Ordering Information for Causamesh

Example: CMG-080-08-DOE-AR = Causamesh Stainless steel filter cartridge SS 316 (1.4401), filter fineness 80µm, nominal length 9 3/4" = 248mm, open on both sides with EPDM flat gaskets, cylindrical shape (not pleated).

CMG-	XXX-	XX-	DO_-	X	X-	X
Cartridge Code	Particle Rating in µm	Nominal Length in inch (mm)	Adapter- / End Cap Configuration	Filter Material	Design	Differential Pressure
CMG = Causamesh	005 = 5 010 = 10 015 = 15 025 = 25 040 = 40 050 = 50 070 = 70 100 = 100 150 = 150 200 = 250 250 = 250 300 = 300 400 = 400 500 = 500 750 = 750 M10 = 1000	05 = 5" (125 mm) 08 = 9 3/4" (248 mm) 20 = 20" (508 mm)	DO_ = Double Open End X = Without gasket E = EPDM B = NBR F = FKM S = Silicone T = PTFE	A = 316 (1.4401) B = 304 (1.4301)	P = pleated R = cylindrical	H = 4bar (Standard 1,4bar)