

## 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 executions can be made on request.

### Features & Benefits

- Stainless steel AISI 304 (1.4301) or AISI 316 (1.4401)
- 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, Silicone or PTFE can be optionally supplied.
- Reusable depending on the application.
- Suitable for 5" (4 7/8"), 9 3/4" and 20" DOE filter housings.
- The end caps of the filters are mechanically attached.
- Outside diameter approx. 66mm
- Inside diameter approx. 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

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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: 0.05m<sup>2</sup>  
pleated : 0.15m<sup>2</sup>

### Available lengths \*:

124, 248, 500mm (± 2 mm); \*Other lengths on request

### Dimensions:

Outer diameter: approx. 68mm  
Inner diameter: approx. 26mm

### Materials:

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

### Adaptations:

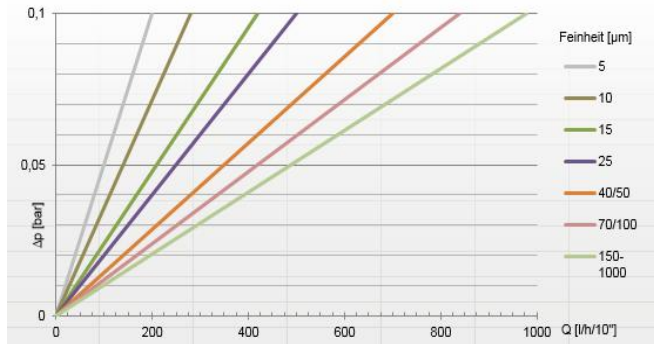
Flat gaskets on both sides

### Recommended operating conditions:

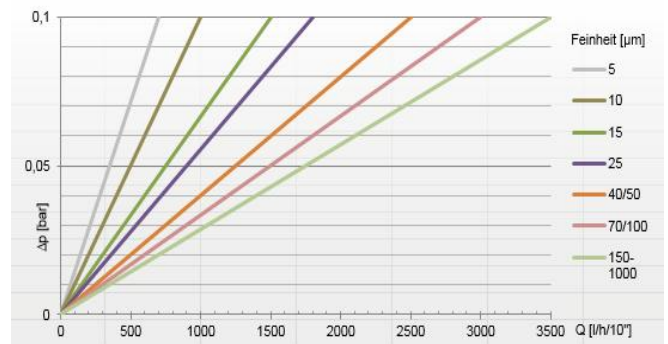
Depending on the gasket material, cylindrical up to 230°C and pleated up to 140°C.  
Max. Diff. Pressure: 3bar at 25°C.  
Max. Diff. Pressure: 4bar at 25°C in the H version

## Flow

### Cylindrical version:



### Pleated version:



## Ordering Information for Causamesh

**Example: CMG-080-08-DOE-AR** = Causamesh Stainless steel filter cartridge SS AISI 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	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** = 4 7/8" (124mm)  
**08** = 9 3/4" (248mm)  
**20** = 20" (508mm)

**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 3bar)