

# INDUSTRIAL FILTERS AND CARTRIDGES



innovation > technology > future

# Industrial filters of GE series

With the filters of GE series, **seko** proposes a range of equipments capable to satisfy the most particular exigencies. Stainless steel body, simpleness of building and possibility of use stainless steel cartridges (GE models), polypropylene or different material (GEM models), make the filters of GE series one of the most complete and versatile ranges present on the market.

**Optional:** prearrangement for backwash, internal anti-corrosion treatment, modification for the use of cartridges E222 OR C3 45, use of tri-clamp hydraulic connection, customized sizing.



## GE series

**Manifold material**  
[int/ext polished stainless steel] AISI 304

**Max. pressure** 10 bar

**Filter cartridges** AISI 316 L 50 µm

### On request

- AISI 316 L manifold
- Disposition for treatment of hot water
- Equipments for higher flow-rates
- Filtering degree 150 or 300 µm

GE	1/35	1/70	1/100	3/35	3/70	3/100
<i>Max. flow-rate (m³/h)</i>	16	32	45	50	95	135
<i>Cartridges</i>	1 CX35	1 CX70	1 CX100	3 CX35	3 CX70	3 CX100
<i>IN/OUT Connections</i>	2"(M)	2"(M)	2"(M)	3"(M)	3"(M)	3"(M)
<i>IN/OUT Centres (mm)</i>	380	730	1020	370	435	480

## GEM series

**Manifold material**  
[int/ext polished stainless steel] AISI 304

**Max. pressure** 10 bar

### APPLICABLE CARTRIDGES

With passing hole  
Any degree of filtration  
Any material  
Ext. Ø max. 70 mm  
Int. Ø min. 22 mm

### ON REQUEST

- AISI 316 L manifold
- Anti-corrosion treatment internally
- Equipment for higher flow-rates



GEM 9/30



GEM	3/20	3/30	3/40	7/20	7/30	7/40	9/20	9/30	9/40	13/20	13/30	13/40	17/20	17/30	17/40	34/20	34/30	34/40
<i>Cartridges</i>	3 20"	3 30"	3 40"	7 20"	7 30"	7 40"	9 20"	9 30"	9 40"	13 20"	13 30"	13 40"	17 20"	17 30"	17 40"	34 20"	34 30"	34 40"
<i>IN/OUT Connections (M)</i>	1 1/2"			2 1/2"			2 1/2"			3"			DN100 PN10			DN150 PN10		

## GE/S series

### Manifold material

[int/ext polished stainless steel] AISI 304

### Max. pressure

6 bar

### Filter cartridges

AISI 316 L 50 µm

### ON REQUEST

- AISI 316 L manifold
- Disposition for treatment of hot water
- Equipments for higher flow-rates
- Filtering degree 150 or 300 µm



GE/S 5/100

CX 70 CX 100

GE/S	5/70	5/100	8/70	8/100	12/70	12/100
Max. flow-rate (m <sup>3</sup> /h)	160	200	250	320	385	480
Cartridges	5 CX70	5 CX100	8 CX70	8 CX100	12 CX70	12 CX100
IN/OUT Connections		DN 150 PN 6			DN 200 PN 6	DN 250 PN 6
IN/OUT Centres (mm)	810	1100	810	1070	810	1070



GEM/S 20/40

## GEM/S series

**Manifold material**

[int/ext polished stainless steel]

AISI 304

**Max. pressure**

6 bar

**APPLICABLE CARTRIDGES**

With passing hole  
Any degree of filtration  
Any material  
Ext. Ø max. 63 mm  
Int. Ø min. 22 mm

**ON REQUEST**

- AISI 316 L manifold
- Anti-corrosion treatment internally
- Equipment for higher flow-rates



GEM/S	20/20	20/30	20/40	25/20	25/30	25/40	35/30	35/40	40/30	40/40	60/30	60/40	80/30	80/40
Max. flow-rate (m³/h)	20 20"	20 30"	20 40"	25 20"	25 30"	25 40"	35 30"	35 40"	40 30"	40 40"	60 30"	60 40"	80 30"	80 40"
IN/OUT Connections	DN 100 PN 6		DN 150 PN 6	DN 100 PN 6				DN 150 PN 6			DN 200 PN 6		DN 250 PN 6	
IN/OUT Centres (mm)	610	860	1100	610	845	1100	845	1100	855	1100	855	1100	825	1080

## Basket series GE/CS

**Manifold material** [int/ext polished stainless steel]      AISI 304

**Max. pressure**      10 bar

**Degree of filtration**      800 µm

### Industrial basket and bag filters

The basket filters (GE/CS models) are constructed in stainless steel AISI 304 or AISI 316, with internal removable basket with 800 µm. filtering degree. Three different dimensions ensure a range of flow rate from 30 to 90 m<sup>3</sup>/h. this type of containers is generally used as pre-filtration in the industrial field to filter process waters. A different version of basket filters is represented by bag filters (GE/S models), which result to be particularly suitable in the filtration of waters with high concentrations of suspended solids. The filtering bags are available with different filtering degrees.

	GE/CS	130	160	230
Basket AISI 316 L		1 – Ø 130	1 – Ø 160	1 – Ø 230
Flow rate (m <sup>3</sup> /h)		30	50	90
IN/OUT Connections		2"	2"	3"
IN/OUT Centres (mm)		720	720	760



## GEM1 Filtering cartridge containers

	GEM1 <sup>(*)</sup>	1-10	1-20
IN-OUT Connections		1" M	1" M
Max pressure (bar)		10	10
Max temperature (°C)		70	70
Max. height (mm)		450	450
Max. width (mm)		195	195
Cartridge		10" (254 mm)	20" (508 mm)

<sup>(\*)</sup> Made entirely of stainless steel



## GEM 222 series

### Manifold material

[int/ext polished stainless steel]

AISI 316 L

### Max. pressure

10 bar

### Use of gaskets suitable for use with foodstuffs

### APPLICABLE CARTRIDGES

With E222 OR C3 Ø 45 connections

Any filtering degree

Any material

### Alimentary filters of 222 series

GEM 222 filters are particularly suitable for alimentary uses. The manifold is made by AISI 316L stainless steel while the cartridges, which can be mounted inside, have the E222 OR C3 Ø 45 for alimentary use.

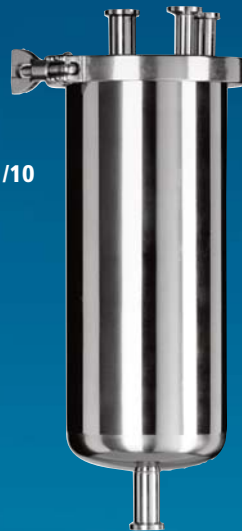
Thanks to the presence of o-rings this one guarantees the seal and avoids the stagnation of every fluid. The use of tri-clamp connections, the internal polishing of the body and the particular care in the manufacturing of the weldings guarantee a product without any coves, which, as it is known, are areas of stagnation and bacterial proliferation.



TRI-CLAMP  
Connection

O-RING

GEM 222 1/10



GEM 222 7/20



	222-3		222-7		222-9		222-13	
GEM	3/20	3/30	7/20	7/30	9/20	9/30	13/20	13/30
Cartridges	3 20"	3 30"	7 20"	7 30"	9 20"	9 30"	13 20"	13 30"
IN/OUT CLAP Connections	1"½ DN38		2" DN51		2"½ DN64		3" DN76	

# Filtering cartridges



	PURTREX	CARBON BLOCK	CP	CX	NYLON	CC10	CC/A 10	CC GAC
Filtration degree ( $\mu\text{m}$ )	1-5-10-25	5	1-5-10-25	50	50	25	0,1	5
Length (")	20-30-40	10-20	10-20-30-40	10	10	10	10	10
Material	Polypropylene	Extruded carbon	Coiled wire	S/S 304	Nylon	Activated carbon	Carbon	Activated carbon

## 222 Series



Crimped filtration baffle in multi-layered polyester and borosilicate.

Model	Filtration degree ( $\mu\text{m}$ )
222 PB 20"	0,2
222 PB 20"	0,45



Ceramic filtration baffle.

Model	Filtration degree ( $\mu\text{m}$ )
222 CE 20"	0,45



Filtration baffle made of coiled wire.

Model	Filtration degree ( $\mu\text{m}$ )
222 CP 20"	1-3
222 CP 20"	5
222 CP 20"	10
222 CP 20"	25
222 CP 20"	50
222 CP 30"	1-3
222 CP 30"	5
222 CP 30"	10
222 CP 30"	25
222 CP 30"	50



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