

CC series

COALESCER CARTRIDGES

LIQUID - LIQUID

DIAMETER 95 - 152 mm



MAIN APPLICATION:

- FINE CHEMICAL
- PETROCHEMICAL
- OIL & GAS
- POWER GENERATION
- GENERAL INDUSTRIES

CHARACTERISTICS:

- Large diameter design for large flow-rate
- Available with two diameters
- Excellent separation efficiency
- Low initial pressure drop
- Flow direction from inside to outside
- Filter media available in fibreglass , polyester, polypropylene or nylon
- Stainless steel, tinned steel or polyamide/FRP hardware available
- Designed for water removal from hydrocarbons
- Specific design for amine or caustic solution removal
- Specific design for water removal from solvents
- Specific design for water removal from aromatic hydrocarbons
- Specific design for hydrocarbons removal from formation water
- Suitable for disperses phase up to 30000 ppm (3%) without pre-separation device
- Disperses phase separation efficiency from 99% to 99.9%
- Residual water ≤ 10 ppm if combined with second permanent separation stage
- Specific design for separation of low interfacial tension (IFT) disperses phases
- Three end-caps style available



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TECHNICAL DATA

DIFFERENTIAL PRESSURE

Cartridge replacement:

1.03 bar @ 25 °C

Max. allowable:

5.0 bar @ 25 °C

WORKING TEMPERATURE

80 - 93 °C

CONSTRUCTION MATERIAL

Coalescing media:

- Micro fiberglass
- Polyester
- Polypropylene
- Nylon

Support layers:

- Cellulose
- Polyester
- Polypropylene
- Nylon

External drain sleeve:

- Polyester
- Cotton

End caps:

- Tinned steel
- Stainless steel
- Nylon
- Polyamide/FRP

Inner core:

- Tinned steel
- Stainless steel
- Epoxy coated steel

Gaskets:

- Buna-n
- EPDM
- Viton

DIMENSIONS

Diameter:

OD 152 mm

OD 95 mm (only SOE Pall)

Length:

20": 508 mm

33": 848 mm

40": 1016 mm

56": 1428 mm

Coalescence introduction

Coalescer elements are designed to separate two liquid phases with different characteristics of density, viscosity and interfacial tension (IFT).

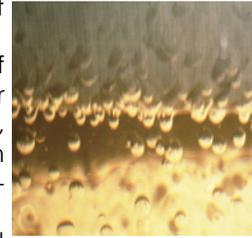
Coalescer elements are manufactured with several filtration media layers in pleated configuration to provide at the initial separation of the disperses phase from the main stream.

Separated drops are slowly carried to the outside surface of the cartridge where the external agglomeration layer provide to combine the separated liquid in larger droplet, now enough heavy to be separated from the main stream by gravity, consequently the separated phase can be collected on the filter bottom by settling.

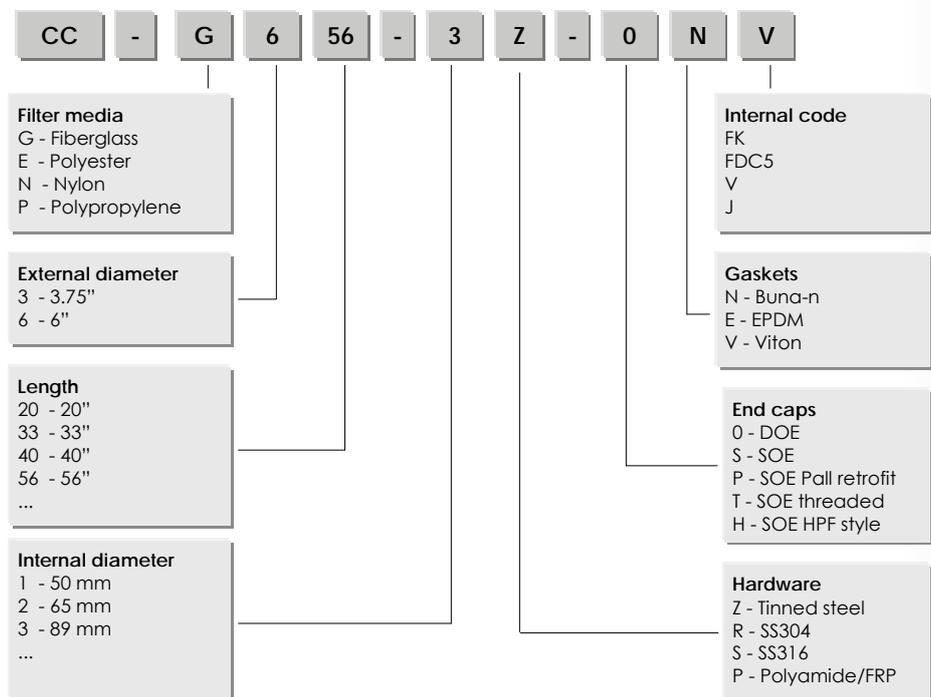
Separation efficiency depends not only from the selected coalescing media but also from the filter design. Concerning the filter media, CC series coalescer cartridges are available in various materials to be selected depends form the fluids involved:

- Micro fiberglass: when water separation from hydrocarbons is required in absence of caustics and/or surfactants.
- Nylon: when water separation or amine and caustics solutions separation from hydrocarbons is required; or when non aqueous solution and/or solvents separation is required.
- Polyester: when solvents or hydrocarbons separation from water is required.
- Polypropylene: when water separation is required from caustic fluids or with high pH.

Caustics coalescence require a special warning due to the process problems generated during the treatment of hydrocarbons with caustics; fibreglass is the most common coalescing media, but in contact with caustics a fast coalescing capability disarm is highlighted. A proper chemically compatible media not affected by the caustic is the solution: ASCO Filtri recommend to treat caustic polluted hydrocarbons with nylon or polypropylene coalescer elements.



Ordering information:



We reserve the right to change the data of this specification without notice.

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