



Separator Filter Element

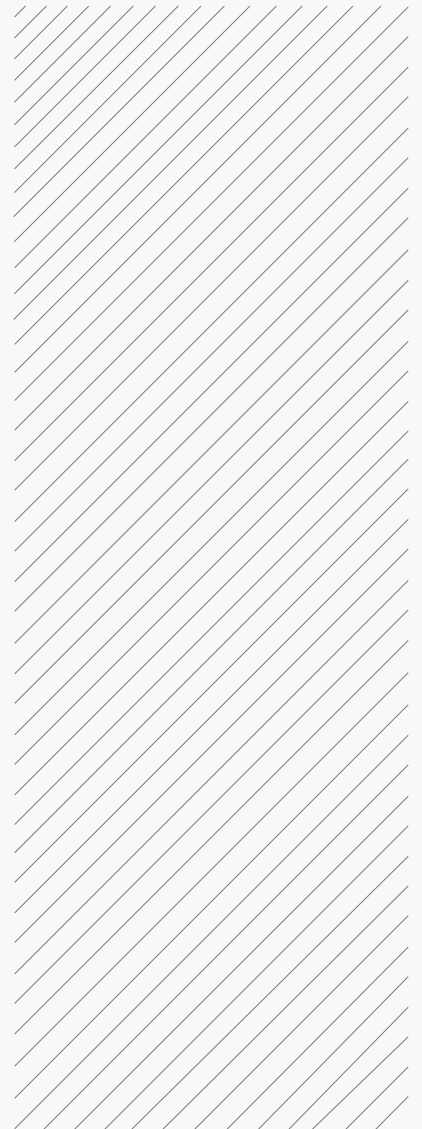
Weave Impossible to Possible



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The hydrophobic property of separator filter element makes it effectively prevent droplets not coalesced on the coalescer filter element from passing through.

Separator filter element is made of Teflon material with natural hydrophobic property after special processing. Oil flows from outside to inside of the separator filter element. The outer Teflon material can effectively prevent droplets from passing through, leaving droplets on the surface of the filter element. These droplets coalesce to form larger droplets under the gravity and settle to the bottom of the filter shell, while oil passing through the filter element smoothly, thus realizing oil-water separation.

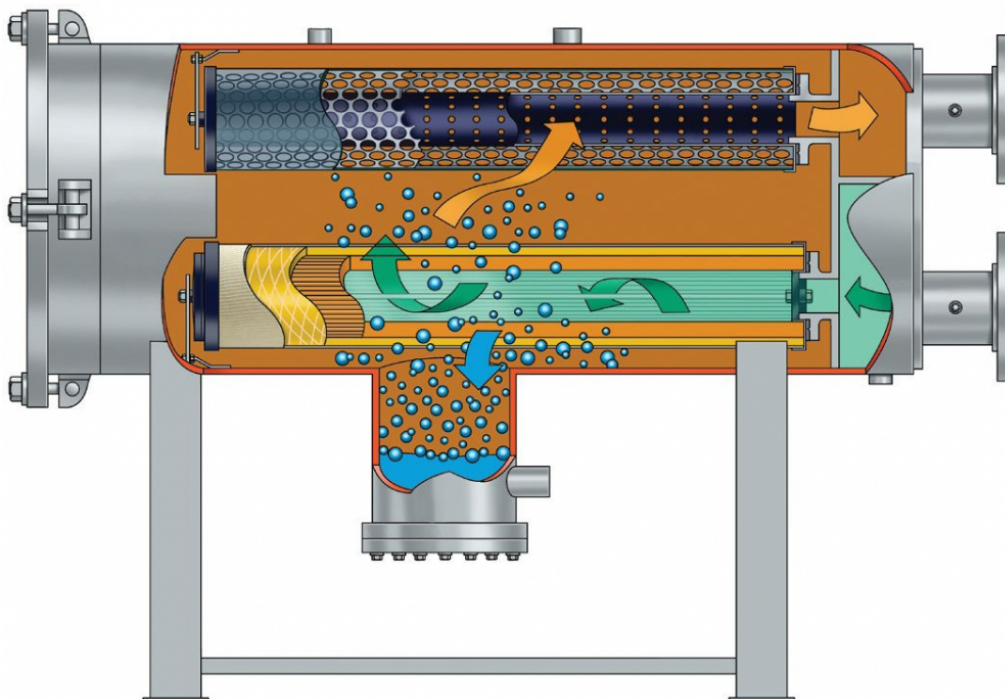
Separator Filter Element



SEPARATOR FILTER ELEMENT

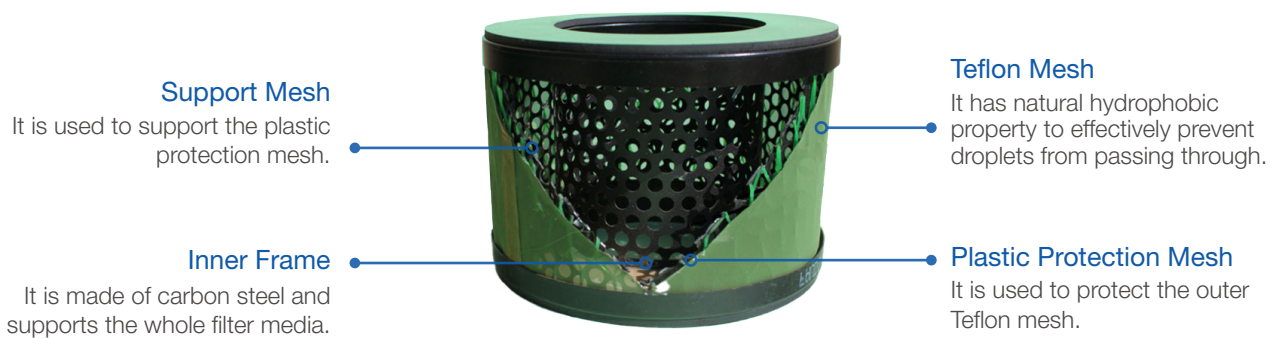
Working Principle

Coalescer filter element makes the coalesced larger droplets settle to the bottom of the filter shell, while small droplets that have not been coalesced require further separation by making use of the hydrophobic property of separator filter element. Separator filter element makes these droplets settle to the bottom of the filter shell and flow out from the drain valve. Clean fuel is collected by the separation filter tray and flows out from the separator outlet.



SEPARATOR FILTER ELEMENT

Structure



SEPARATOR FILTER ELEMENT

End Cap Type

The same as coalescer filter element, one end of separator filter element is also sealed for fixing the filter element in the coalescer separation filter. The other end is opened and mostly flat end caps. The metal flat end cap is also provided with a seal ring to offer good seal effect. End caps are customized according to customers' demands.



SEPARATOR FILTER ELEMENT

Specification

Frame: carbon steel perforated metal

Filter media: Teflon

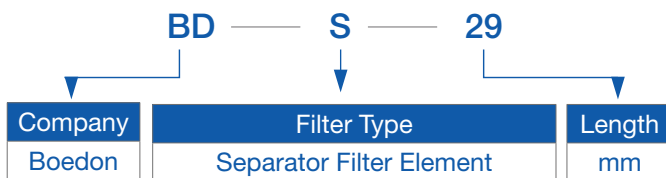
Disposable: can be washed for reuse

Dirt holding capacity: 1.3 g (L/min)

Features: good hydrophobic property, great oil passage capacity; large filter area, simple structure, easy to install.

Recommended operating temperature: 115 °C

PH range: 5–9



Specifications of Separator Filter Element

Model	Length (mm)	Inner Diameter (mm)	Outer Diameter (mm)
BD-S-29	290	89	152
BD-S-58	580	89	152
BD-S-73	730	89	152
BD-S-86	860	89	152
BD-S-114	1140	89	152
BD-S-145	1450	89	152

Notes: Other specifications are available upon request.

Features & Application

Features

- Teflon with good water resistance is adopted to create good separation effect.
- Carbon steel inner frame support is provided for long lifespan.
- Good lipophilic property, prevent water droplets from passing through while allowing oil to pass through smoothly.

Replacement Conditions

- **Damaged filter media.**
It may lead to incomplete oil-water separation.
- **Unqualified water pouring test.**
Water resistance goes down and lead to incomplete oil-water separation.

Application



Oil & Gas

- Jet fuel
- Gasoline, diesel, kerosene
- Turbine oil
- Lubricating oil filtration
- Natural gas filtration, etc.



Metallurgy

- Rolling mill and continuous casting machine hydraulic system filtration
- Various lubricating equipment filtration



Chemical

- Cyclohexane
- Isopropanol
- Cycloethanol
- Cycloacetophenone
- Other hydrocarbon compound filtration



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