

CLAY FILTER

CLF Series

Applications

The main function of a clay filter is to remove unwanted surface active surfactants, coloring and other additives which may be present from the refining process or during transportation of Jet Fuel.

These unwanted surfactants can accumulate in the coalescer elements of a filter/water separator and reduce their water removal efficiency.

Therefore such clay filter vessels are normally installed in front of a filter/water separator vessel.

To enable optimum performance of the adsorption process of the Attapul-gas Clay, the recommended flow rate per element is 25 l/min.



Construction (standard version)

- Design pressure: 10 bar
- Design temperature: -10 to + 50°C
- Design code: ASME Sec. VIII , Div. 1 lately edition
- Material of construction: Carbon Steel or stainless steel
- Internal coating: acc. to MIL-C-4556 (latest Edition)

Other design pressures as well as other materials like aluminum or stainless steel are available upon request.

Accessories

For improved operation K-Flow Aviation Micro Filter may fitted with some or all of the following accessories:

- Automatic air eliminator
- Differential pressure gauge
- Pressure relief valve

Concept & Performance

- Vertical mode
- Standard range – for optimum cost/performance ratio
- Quick delivery
- International standards
 - ASME Code, Section VII with or without U-stamp
 - CNS 9788



K-Flow Engineering Co., LTD

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E-mail : kflow@seed.net.tw Website : www.kffilters.com.tw



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Sample of marking:

CLF-34-4

Series

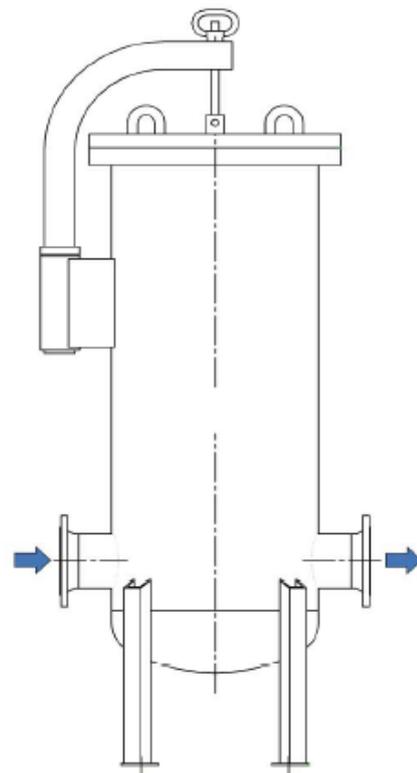
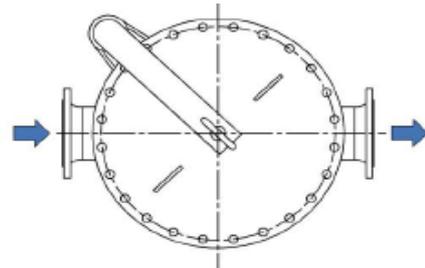
Size of connection, inch.

Q'ty of clay canister

Technical Details

- For stationary and mobile applications
- For Jet A1, JP 1, JP 4, JP 8, Kerosene
- Maximum flow rates up to 4.575 l/min, higher flow rates on request

Model No.	Element	Flow rates
	Quantity	M3/H
CLF-34-4	34	51
CLF-51-4	51	76.5
CLF-72-6	72	108
CLF-93-6	93	139.5
CLF-120-6	120	180
CLF-150-8	150	225
CLF-183-8	183	274.5



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Clay Element

Applications

To remove surface active agents (surfactants), colorings and additives from Jet Fuel, which can be present in Jet Fuel from processing and refining or may be picked up from transportation methods such as ships, trucks or multi-product-pipelines. These unwanted surfactants accumulate on the Coalescer element, disarm it and reduce the efficiency of a Filter/Water Separator. Therefore Clay Elements are usually found upstream of a Filter/Water Separator.

Product Description

K-Flow Engineering Co., Ltd Clay Elements remove surfactants, colorings and additives by adsorption and prolong the lifetime of Coalescers (Coalescers can be disarmed by Surfactants).

The Clay Elements consist of Attapulgus Clay as Filter media. The recommended flow rate per element is 25 l/min. The Clay Elements are mounted in stacks onto a manifold.

This ensures an equal flow rate of the fuel through each Clay Element.

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Technical Details

Maximum permitted differential pressure:	1.5 bar (21, 75 psi)
Recommended Operation period:	12 months ¹
Recommended Storage time:	24 months ^{1&2}
Operating temperature:	min. -10°C / max. 80°C
Flow direction:	Out to in
Outside diameter:	177 mm

Effluent quality checks indicate the clay is spent and is no longer removing surfactant materials.

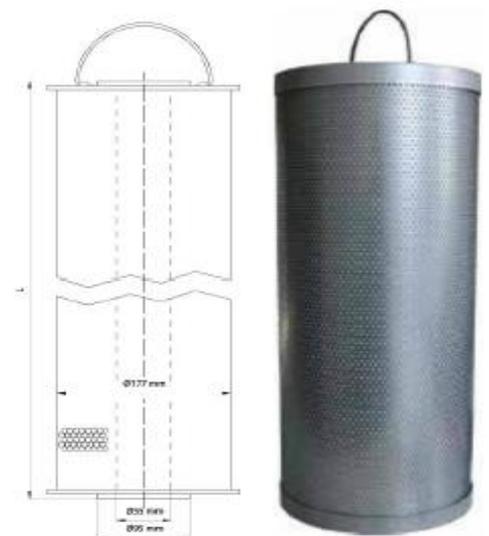
¹Manufacturer recommendation

²Original packaging, 20°C and max. 50°C humidity.

After date of shipment out of K-Flow Engineering Co., Ltd stock

Standard Design

- Highest adsorptive area
- Hoisting handles for easy change-out
- Interchangeable with other manufacturers clay cartridges
- Perforated metal center tube
- Coated metal end caps
- NBR (perbunan) gaskets on both ends
- For assured sealing



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