



CJC® Filter Separator P1 27/-

Removal of water, particles, oil degradation products and acid compounds from diesel

Product Sheet

APPLICATION

The CJC® Filter Separator P1 27/- removes large amounts of water as well as particles, oil degradation products (oxidation products, sludge) and acid compounds from diesel due to the unique combination of filter material and filtration type with an extremely high efficiency. Specially optimised for diesel, it is used on diesel engines as well as storage/bunker tanks.

ADVANTAGES

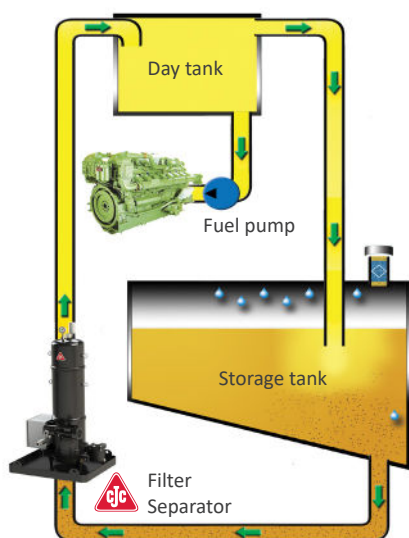
- longer lifetime for engines, injection nozzles, pistons, cylinders and fuel pumps
- less cost-intensive engine failures
- improved engine performance
- simultaneous removal of water, particles, oil degradation products and acid compounds – as well as microorganisms (bacteria, fungi, yeasts)
- high filter efficiency due to continuous fine and depth filtration combined with coalescing filtration (24/7)
- constantly high fuel cleanliness
- Protection against sludge accumulation and the resulting malfunctions
- reduce extensive tank cleaning

FUNCTION PRINCIPLE

The CJC® Fine Filter Insert specially developed for diesel is a depth filter, which offers a long contact time between filter material and diesel, providing an exceptionally high filter efficiency and dirt holding capacity. Contaminants are permanently retained in the depth of the filter material. Simultaneously, the filter material coalesces finest water droplets, which are separated from the diesel in a subsequent process.

INSTALLATION EXAMPLE

Ideally, the suction pipe of the CJC® Filter Separator is connected to the drain valve at the bottom of the storage tank, meaning that also sediments are filtered out. The cleaned diesel returns to the day tank – or via overflow pipe into the storage tank.



CJC® Filter Separator
P1 27/81

TECHNICAL DATA

CJC® Filter Separator P1		27/54	27/81	27/108
Pump flow, max.	l/h	750	1,125	1,500
Filtration degree	µm	3 down to 1 micron		
Dirt holding capacity, approx.	kg	4	6	8
Fine Filter inserts	pcs	2	3	4
Power consumption, max.	kW	0.37	0.37	0.55
Pressure drop, max.	bar	2		
Automatic water separation		permanent		
Equipment				
Standard: <ul style="list-style-type: none">• Pump with motor• Electrical control• Automatic bleeding and venting valve for quick filter insert replacement• Pressure switch for monitoring the degree of saturation of filter inserts• Non-return valve to avoid return flow• Base plate• Sampling point				
Optional: <ul style="list-style-type: none">• Leakage sensor• Filter housing in ASME, w/ or w/o U-stamp (see CJC® Filter Separator P4)				
Single type-approval on request, e. g.				
<ul style="list-style-type: none">• DNV-GL• Bureau Veritas• ABS• Lloyd’s Register				



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COMPONENTS	
Item	Part
1	Filter dome
2	Filter base
8	Automatic bleeding and venting valve
9	Pressure gauge
11	Pump with motor
13	Non-return valve
14	Drain valve DN16 (<i>filter insert replacement</i>)
15	Pressure switch
16	Water separator
17	Solenoid valve (<i>water outlet</i>)
18	Complete drain (<i>water separation</i>)
20	Base plate
23	Electrical control
25	Sampling point
A	Suction pipe, pump Tube AD 18–AD 28
B	Filter outlet Tube AD 22–AD 28

