

# HDU 15/25

## CJC® Offline Fine Filter

### APPLICATION

The **CJC® Offline Fine Filter HDU 15/25** is used for the maintenance of fluids for **power transmission, lubrication, cooling and for quench oil**. The HDU 15/25 is ideal for removal of **particles, oil degradation, products acidity and water**.

### FUNCTION

The filter pump draws fluid from the system tank (at lowest point) and presses it through the filter insert. From the centre of the insert the fluid flows through the filter house and returns to the tank.

The pressure drop over the filter- and consequently the contaminant absorption of the filter insert- is monitored on the pressure gauge on the filter top.

The filter outlet port is placed in the filter base. The filtered fluid should be returned to the tank close to the suction pipe of the main system pump.

Note that the return point preferably should be non-pressurized. Contact us in case this is not possible.

### THE FILTER PUMP

The filter pump is a CJC® Gear Wheel Pump. The electric motor can be supplied for all standard AC and DC voltages.

### FILTER INSERT

The CJC® Filter Inserts consist of several discs bonded together. The material is either cellulose or cotton linters depending on the fluid to be filtered.

### OPTIONS

- Preheater
- Drip pan
- Tank
- Control Box
- Coalescer
- Pressure switch

### FILTRATION ABILITY

- **Particle Removal**  
All CJC® Filter Inserts have the following filtration degree:
  - **3 µm absolute:**  
98.7% of all solid particles >3 µm
  - **0.8 µm nominal:**  
50% of all solid particles >0.8 µm are retained in each pass.**The dirt holding capacity** is 1.5 litres of evenly distributed solids.
- **Degradation Products**  
Oxidation products, resin / sludge, and varnish are retained by the cellulose material, which will retain appr. 1 kg of oil degradation products.
- **Water Removal**  
The water absorption potential is up to 50% (i.e. 750 mL H<sub>2</sub>O) of the total contaminant holding capacity.



The CJC® Fine Filter  
HDU 15/25 PV

### SPECIAL FEATURE

**Retrofit of HDU 15/25 turning it into PTU 15/25**

As the HDU 15/25 is designed as a modular system, it is possible to turn a HDU 15/25 into a PTU 15/25 by retrofitting the separate coalescer housing and changing the filter insert type to BLA 15/25. This process changes the water separation method from absorption to coalescing, which is suitable for larger amounts of water.

### TECHNICAL DATA

Model		HDU 15/25 PV
Pump flow, per hour (std.)	ltr/gal	30-120 / 8-32
Pump type		PV2
Pump inlet pressure, max.	bar/psi	0.5 / 7
Filter Insert 15/25	pcs.	1
Power consumption, aver.	kW	0.18
Pressure drop, max.	bar/psi	1.8 / 26
Oil temperature, max. *)	°C/°F	80 / 176
Dirt holding capacity, appr.	ltr/gal	1.5 / 0.4
Water absorption capacity	ltr/gal	0.75 / 0.20
Dry weight	kg/lb	22 / 49
Operation weight, wet	kg/lb	28 / 62
Design pressure, filter	bar/psi	4 / 58
Ambient temperature, max.	°C/°F	40 / 104

\*) The standard filters are designed for a max. temp. of 80°C / 176°F. Other conditions, please contact us.

### APPLICABLE FILTER INSERTS

Type	Application for
A:	Low flows (small system fluid volumes).
B:	Higher flows (large system fluid volumes).
BG:	High viscosity and larger flows.
BLA:	Water-based fluids and emulsions. **)
BLDA:	Glycol-based flame proof hydraulic fluids. **)

\*\*) Does not hold water permanently



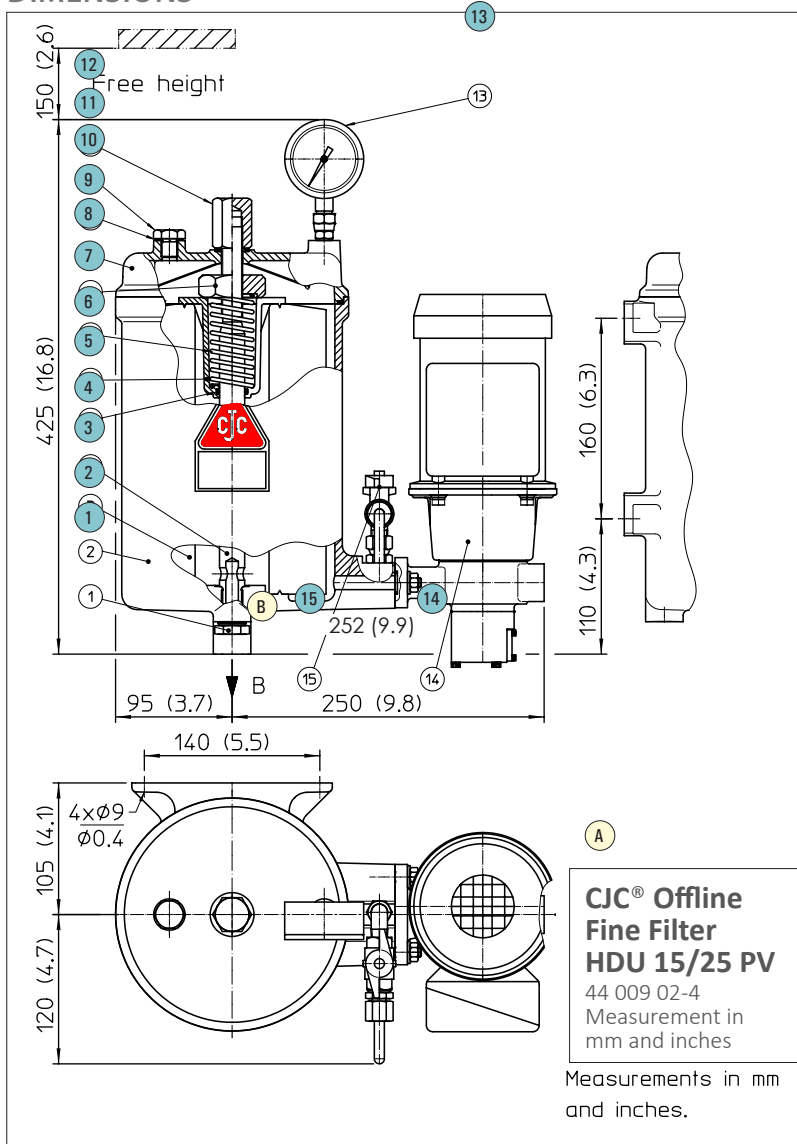
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## COMPONENTS

Item	Part
1	Drain plug
2	Filter house
3	Filter insert
4	Stay bolt
5	O-ring
6	Spring guide
7	Spring
8	Nut
9	Cover
10	Bonded seal
11	Vent screw
12	Top nut
13	Pressure gauge
14	Pump
15	Sampling point
A	3/8" BSP, Oil inlet
B	3/8" BSP, Oil outlet

## DIMENSIONS



## INSTALLATION PRINCIPLE

