

The Clarifier

CDFX EI-1588 Requalification Status

The Energy Institute has accepted CDFX Water Barrier Filters as requalified to the 2nd Edition of EI-1588!

See announcement: [EI Letter - EI 1588 Requalification](#)

In our June 2022 edition of *The Clarifier*, we discussed moving forward with requalifying our CDFX Water Barrier Filter to EI-1588-2nd Edition. During the week of June 20, we performed the specific tests with a witness from EI. You may already be aware; CDFX – the most tested jet fuel filter cartridge ever – faced another hurdle after more than 2 years of JIPL field testing. We said in June 2022:

During our years of development, lab testing, robustness testing and millions of liters during field tests conducted globally, we have seen a limited number of endcaps that have exhibited this anomaly. One element in particular that was being field tested came back to our lab and was tested under the EI-1588 specification, as are all trial elements returned to us, we did find that it just exceeded the volume limits of the EI slug test. The slug test consists of swamping the vessel with water and increasing the pressure to 100 psi – no more than 1% of flow rate can pass. On this specific element, we measured 1½%. All other critical tests passed and/or exceeded test parameters (including the ability to stop particulates and emulsified water passing downstream).

For all other trial elements, we have NOT witnessed – ever – any CDFX cartridges that have failed to meet or exceed the rigorous standards for barrier filtration as described in EI-1588 (including the few other cartridges exhibiting inconsistent adhesion of the endcap). To be clear, the endcaps remained attached and sealed to the media, but motion was observed between center tube and endcap.



After discussions with the EI and various governing bodies, we redesigned the endcap, which necessitated requalification per EI requirements; we also took this opportunity to change the outer sleeve to black to help differentiate CDFX from 2” monitor cartridges and dirt defense filters. We felt this was a crucial requirement as we have witnessed where all three models (SAP monitors, Dirt Defence Filters and Water Barriers) were grouped and stored on the same shelf at a customer location that presented high risk for potential error.

The Future of CDFX

In JIG Bulletin 143 dated May 12, 2022, JIG stated:

“Diligently trialing new or updated technology to ensure that only equipment that is fit for purpose is adopted into the JIG Standards takes time. Consequently, if requalified, it could be 6-12 months after EI qualification, whilst field trials are carried out, before a decision can be made regarding adopting an updated version of 2” CDFX technology in JIG.”

Since EI has approved CDFX requalification, we are working closely with JIG to move forward on WBF acceptance into their operating standards. However, the requirement for limited extended field trials is necessary for JIG standards acceptance.

Although we believe further trials may be redundant and/or unnecessary, we are happy to accommodate JIG’s requirement to prove the redesign and ultimately the filter robustness that exceeds all expectations.

At Parker Velcon, we are working under the awareness that the industry needs to remove SAP from the fuel system as quickly as possible and therefore, have established production capabilities at our Sylacauga, Alabama manufacturing facility to meet the demand. Not to be presumptuous but in anticipation of JIG acceptance, we have built thousands of CDFX-230B elements for stock and will ramp-up production as soon as we get the approval from JIG of acceptance into the operating standards.

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ACOX Update

The 6" diameter open-end, high-pressure design ACOX Water Barrier Filter will replace the current SAP monitor cartridges once we qualify to the EI-1588 2nd Edition specification. We expect to qualify and have them available in late 2022.

In mid-July, we transitioned the manufacturing of our single-stool, o-ring design 5"/6" diameter ACOX Water Barrier Filters to our Sylacauga, Alabama plant. We are happy to report that the set-up is complete, and we are now producing these versions of the ACOX!



Alert

We have seen more and more companies advertising that they can produce aviation filtration elements that are qualified to EI-1581, EI-1583, EI-1590, etc. This is simply not the case; there are only a few filtration companies worldwide that produce qualified aviation filter elements. Parker Velcon produces elements only in Sylacauga, Alabama USA.

Anyone else claiming to produce qualified elements or claiming to produce elements manufactured for Parker Velcon is a counterfeiter. A4A, CSA and JIG require that filter elements used for fueling aircraft must be qualified to EI specifications. We will seek guidance from our Legal Office and the Energy Institute on how we address this issue so the industry is reassured they are operating with fully qualified and approved product as: **SAFETY IS OUR PRIORITY!**

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