The Clarifier

On May 12, 2022, JIG *issued Operations Bulletin 143 – Filtration Update & TN11* JIG Bull. 143 & TN11 to remind users of the requirements included in the new *Issue 13 JIG Inspection Checklist* to establish a risk-based Management of Change plan specific to each location at which they operate to establish what actions are required to phase out Filter Monitors (FM) from their operations. It is also recommended to establish a site-specific Transition Plan containing a schedule under which FMs will be replaced.

The Bulletin states that JIG will withhold acceptance of our current EI 1588 qualified CDFX water barrier filter. The TN11 update explains that the delay is based on observations of inconsistencies in the adhesion at the open endcap.

During our years of development, lab testing, robustness testing and millions of liters of 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.

We were obviously disappointed JIG published the latest bulletin and technical newsletter that over-emphasized the issue. However, we have taken the opportunity to make an improvement to the endcap-to-center tube connection and demonstrated our solution to various technical committees via live video torque tests where the endcaps were exposed to much higher torque (5-6 times greater) than the 5 ft-lbs required in EI-1588. We submitted a request to EI that Parker Velcon at least partially requalify the CDFX to the EI-1588 current edition. This requalification will also allow us to change the color of the outer sleeve from white to black (this critical safety upgrade will help users in the field distinguish between CDFX and 2" monitors or dirt defense filters).

The photo below shows 2" monitor elements, 2" dirt defense filters and our CDFX element at a JIG location. Can you spot the difference? Therein lies the problem! We want to make it absolutely clear to maintenance personnel, operators and inspectors which element is being installed. When our CDFX-2xxB is qualified later this month, CDFX will have a black outer sleeve to distinguish it from all elements that appear similar.

Safety is Our Priority

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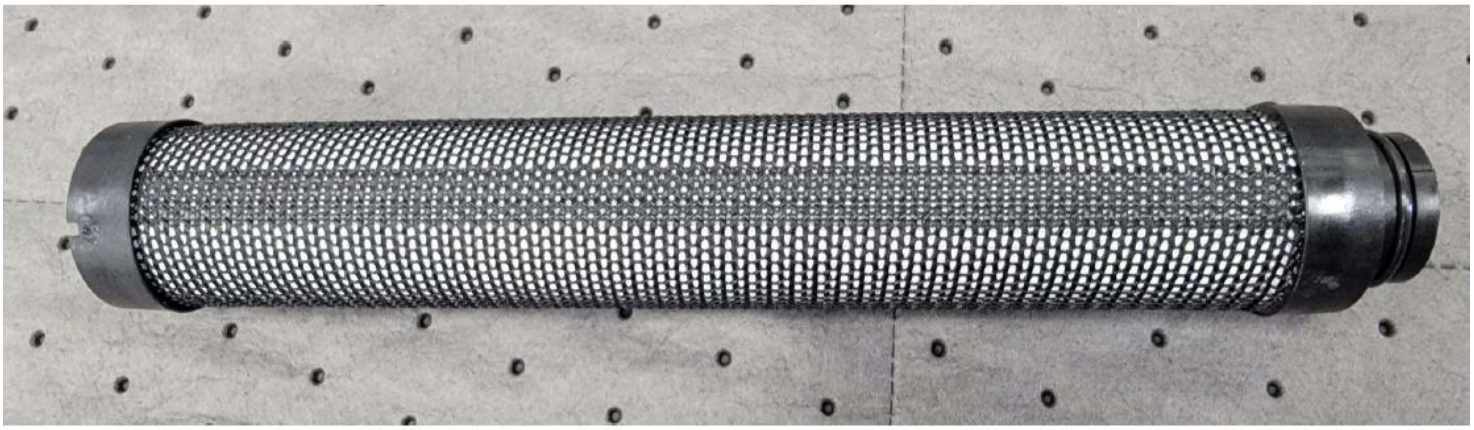

The photo above shows our new CDFX-2xxB with the black outer sleeve to distinguish it from elements that appear similar. We also redesigned the seam of the outer sleeve, so we now have a much improved – low profile seam.

We have engaged with EI to arrange for this partial requalification the week of June 20th. Once EI requalifies CDFX, we will work with the JIPL to accept the new model CDFX-2xxB into the operating standards as we commence into full scale production for world-wide use.

The TN11 mentions several other topics that we will also address:

- The CDFX has shown a variable service life through robustness and field trials and although the requalification of the redesigned version may not change the service life, we have always stated that users should not rule out this technology without trialing them at your specific operations. Users have seen throughputs of 3 months to 12+ months service life at various locations.
- Parker Velcon has worked with the JIPL for over 2 years in many global field trials, as well as other successful independent field trials. Additionally, we conducted rigorous surfactancy testing that provided reassurance that this technology greatly exceeds the EI-1588 specification. With this, we feel any additional field trials will not provide any further decisive information to the already rigorous testing performed.
- Future discussions and updates on our 5" and 6" ACOX version of the barrier technology will be addressed in separate communications by the Parker Velcon team directly.

Parker Velcon and our Distributors remain 100% committed to this water barrier technology as the ideal solution to replace SAP monitors as a **true drop-in replacement** that allows users to easily trial and adopt for their operations.

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