

THE CLARIFIER

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Successful API/IP 1581 5th Edition Qualification

Velcon Filters, Inc. is pleased to announce the successful completion of a qualification test for the “API/IP 1581 Specification and Qualification Procedures for Aviation Jet Fuel Filter/Separators, Fifth Edition” as follows:



Dave Hawkins with qualified vessel

Category C, Type S-LW with ½% water Filter/separator vessel model HV2460 at 1065 gpm (4031 lpm), with 6 x I-656C5TB coalescers and 2 x SO-648V5 separators

This is Velcon’s 16th successful completion of the API/IP 1581 qualification requirements for the fifth edition of this specification.

Andrew Thompson working away during qualification testing



From Robin Mason to the Aviation and Filtration Community

I want to take this opportunity through the Clarifier to thank my many friends in the aviation and filtration industry who sent messages of support and prayers for my recovery from a heart attack in September last year at Denver Int’l Airport. The response from the emergency team at DIA and the medical professionals at University Hospital in Denver combined with the very prompt initial support from my colleague Greg Sprenger, who was traveling with me, all contributed to my recovery. I encourage everybody to get regular check ups and guys, if you have any pain – see a doctor! Additionally, if you have any influence at an airport, encourage them to install defibrillators – they certainly saved me. Have a good and healthy New Year.



Note from Linda Oppelt:

At the time of Robin’s incident, Velcon Filters, Inc. was unable to communicate any details about Robin’s condition due to HIPAA rules & regulations about medical privacy. However this did not prevent the few people in the community who found out about the incident from spreading the news informally. As a result many people sent messages of support to Robin. In many ways, the relatively small, close-knit community of aviation fueling is like a family itself - it is comforting to know that in times of crisis we can lean on each other for support.

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Velcon®

Remember to Sump Vessels Regularly

Whether or not a filter/separator is equipped with an automatic drain valve, the sump should be manually drained on a regular basis to remove any collected water. This should be done **at least** once each operating day and more often if required, to prevent water carryover. Aircraft Fueling Regulations govern the frequency of sump checks for into-aircraft equipment.

Draining or sump sampling should preferably be done during flow through the vessel, or at least when the vessel is pressurized. This will provide velocity to remove collected water from any flat surfaces to the drain valve, and will also prevent air from entering the vessel. Carefully open the drain valve as far as possible without causing spillage. Drain off into a white bucket until all water is removed. Even small quantities of water should be kept drained from kerosene or diesel products to prevent microbial growth at the fuel/water interface. Velcon's new Sump Recover System (SRS) is an easy and cost effective solution to reclaiming sumped fuel. See data sheet # 1967 for complete details.

Airport Expo 2008 in Las Vegas



Show Dates & Hours:

Tues., April 8, 10:00 am - 5:00 pm

Wed., April 9, 10:00 am - 5:00 pm

Thurs., April 10, 10:00 am - 2:00 pm

A new show that Velcon Filters, Inc. will be participating is the Airport Expo 2008

The show is being held at Mandalay Bay Resort & Casino (Hall: Bayside D).

Velcon's booth number is D/428.

We look forward to seeing you there! For more information please see airportexpo2008.com

Tie Rod Installation Instructions

Velcon Filters, Inc. does not install tie rods in vessels in the factory, due to possible damages that may occur in transit. In order to facilitate the installation of the tie rods once the vessel reaches its intended destination, Velcon has developed an instruction sheet for installing the tie rods. This instruction sheet - Form #2013 "Installing Tie Rods", will be included in vessel manuals, and is also available in PDF format on the Velcon web site, at the following address:
www.velcon.com/install.html

Aviation Industry Show in Dallas



Show Dates & Hours:

Tues., March 18, 10:00 am - 5:00 pm

Wed., March 19, 10:00 am - 5:00 pm

Thurs., March 20, 10:00 am - 2:00 pm

In March, 2008, Velcon Filters, Inc. will be participating in the Aviation Industry Expo (formerly called AS3).

This year the show is being held in the Dallas Convention Center. Velcon's booth number is 922.

We look forward to seeing you there!

For more information please see

aviationindustryexpo.com

Aviation fuel handling – New handbook from the Energy Institute

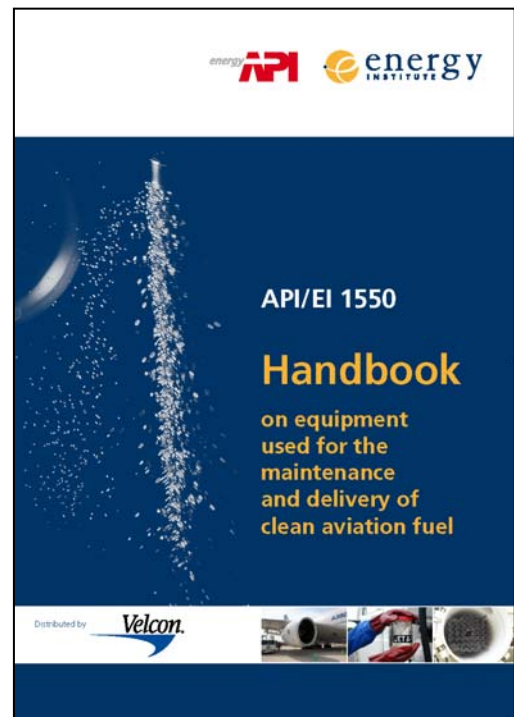
The following is an excerpt from an article that appeared in *Petroleum Review* in October 2007, and is reproduced with permission from Energy Institute (EI).

The cleanliness of jet fuel is affected by the presence of particulate matter and dispersed water, which can be introduced at any stage in the distribution system, and may have a variety of effects on ground handling operations and ultimately those on board aircraft. Every litre of jet fuel delivered to aircraft passes through a series of filtration components in aviation fuel handling systems. These components are the main subject of a new EI publication, issued jointly with API, *API/EI 1550 Handbook on equipment used for the maintenance and delivery of clean aviation fuel*.

Key to maintaining fuel quality is the performance of filtration components, and in recent years there has been much research undertaken in this area... With so much new material available there is a need for appropriate guidance on operational application that may assist in the optimisation of aviation fuel handling systems, both in terms of safety and efficiency. API/EI 1550 is a means of providing information on the application of components that are designed, constructed and tested in accordance with the requirements of the seven aviation fuel cleanliness publications issued by the EI and API.

The outline of the content of API/EI 1550 is shown.

- Chapter 1 – Introduction
- Chapter 2 – Aviation fuel handling systems
- Chapter 3 – Fuel cleanliness
- Chapter 4 – Description of components
- Chapter 5 – Relating API/EI specifications to end use of filters (qualification process)
- Chapter 6 – Laboratory testing requirements
- Chapter 7 – Filter/water separators (API/EI 1581)
- Chapter 8 – Similarity for filter/water separators (API/EI 1582)
- Chapter 9 – Filter monitors (EI 1583)
- Chapter 10 – Microfilters (API/EI 1590)
- Chapter 11 – Dirt defence filters (API/EI 1599)
- Chapter 12 – Three-stage filtration (vessels)
- Chapter 13 – Filter vessels (API/EI 1596)
- Chapter 14 – Electronic sensors (API/EI 1598)
- Chapter 15 – Quality assurance of filter element and vessel manufacture
- Chapter 16 – Application of components in aviation fuel handling systems
- Chapter 17 – Operation of filter vessels – general health and safety considerations
- Chapter 18 – Recommendations for operation of filter vessels
- Chapter 19 – Service life of filtration elements
- Chapter 20 – Disposal of used filter elements



Manual Cover of the API/EI 1550 Handbook

With an overview publication such as this, revisions to the seven component publications, or indeed additions to the portfolio, are likely to warrant the inclusion of new information in API/EI 1550. The EI plans to keep the industry informed of such developments via a dedicated website (www.energyinst.org.uk/filtration). The site will also be used to capture feedback from industry practitioners.

Looking to the future, EI is working with API to develop industry training based on the concepts covered in 1550. If the first edition does indeed become the main reference for information on equipment used for the maintenance and delivery of clean aviation fuel, it could also be expanded to cover in greater depth items such as the handling of aviation gasoline, clay treatment and the management of cross-contamination of fuel from multi-product pipelines.

Velcon Service Awards

Congratulations to these Velcon employees who have recently celebrated special anniversaries with Velcon:

35 Years

Mike Gish (CO)

15 Years

Rick McKenna (CO)

10 Years

Stacey McNeal (AL)

Christopher Morris (AL)

5 Years

Carol Boldin (AL)

William Wilson (AL)

Holiday Shutdown

Please note that Velcon will be closed the following dates in 2008.

**Memorial Day:
May 26, 2008**

**Independence Day:
July 4, 2008**

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If you know anyone who would like to receive *The Clarifier*, fax their name, company and address to the address listed on the left.

We also welcome your comments and suggestions on topics covered in *The Clarifier*.