



Vogt Aero Partners with BAI to Support our Customers in:



Africa
Asia / Asia Pacific
Central / South America



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VOGT AERO

 **BANNER AIRCRAFT
INTERNATIONAL**

About Us

Vogt Aero & Vogt MRO are driven by the passion for innovation and continuous improvement while remaining focused on our values.

Our Vision

Vogt's vision is to be a leader in after market solutions; leading with integrity and transparency by providing innovative customer solutions.

Our Mission

Vogt's mission is rooted in a passion for innovation and integrity. We seek success by creating strong relationships that result in parts and services with greater reliability, affordability, and availability.

Our Culture

Vogt's culture begins and ends with safety; everything we do must be considered through the lens of safety. Working with our customers to provide safe, reliable, and economically viable solutions is at the heart of our culture.

Our Foundation

Vogt's foundation begins with communication and trust. Open communication leads to feedback loops between our organizations further enabling continuous improvement; our customers trust to collaborate and share service experience which leads to improved safety and reliability.





History

Vogt Aero represents our parts division.

(Vogt Aero represents the parts division of our business while Vogt MRO represents the repairs division.)

- 1993 DER Certified (Erik Vogt), began approving data for PMA parts and STC modifications
- 2004 Created Vogt Aviation Certification & Engineering LLC, began designing and obtaining FAA certification for more than 100 PMA parts for other companies
- 2015 Rebranded to Vogt Aero, became an FAA Production Approval Holder (PAH), began designing and obtaining FAA certification for Vogt Aero PMA parts
- 2025 Vogt Aero offers more than 130 PMA, STC, and OOP parts along with a variety of services
Relocation to larger facility; April 2025





History

Vogt MRO represents our repairs division.

(Vogt Aero represents the parts side of our business while Vogt MRO represents the repairs side of our business.)

- May of 2024 Vogt MRO was established
- July of 2024 acquired Airmark International
 - Airmark International originally based in Corona CA, with operations beginning in 1985
 - Vogt MRO moving to new facility; 2025
- MRO Capabilities; ratings include:
 - Accessory Class 1: Mechanical Accessories per 4 CFR § 145.59(f)(1)
 - Accessory Class 2: Electrical Accessories per 4 CFR § 145.59(f)(2)
 - Nondestructive Inspection, Testing, and Processing – All Manufacturers, Makes & Models
 - Magnetic Particle Testing (MPT)
 - Fluorescent Penetrant Testing (FPT)
 - Eddy Current Testing (ECT)





PMA vs OEM

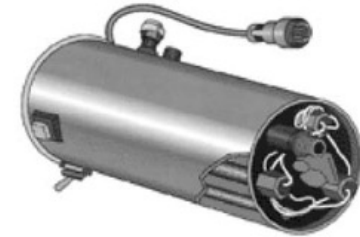
Is PMA better than OEM? – PMA articles are typically replacements for OEM articles that were designed 10+ years ago. Thus, a PMA company has an advantage...

- **The service history of the OEM article** – Through visits to and discussions with the MROs & operators along with researching the service history, a PMA company can identify areas of need.
 - Design Improvements
 - Reliability Improvements
 - Maintainability Improvements
- **The latest regulatory requirements developed from the OEM service history**
- **The latest material, manufacturing & design technology** –
 - Automated and computer aided manufacturing
 - Solid 3D modeling versus 2D drawings
 - Carbon fiber reinforced materials
 - Additive Manufacturing – 3D Printing

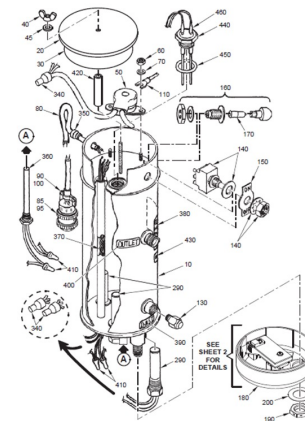


CASE STUDY:

Lavatory Hot Water Systems



- Lav Systems NHAs: [24E507009G03](#) & [24E507040G04](#) Series
- Vogt Aero offers many PMAs:
 - VA-2540-T01 & VA-2540-T02 (Pic 1 below)
 - VA-2540-H01 & VA-2540-H02 (Pic 2 below)
 - 3E2534-VA (see Pic 3 below)
 - 532T1-1M-140-VA (see Pic 4 below)
 - 24B508385P1-VA (see Pic 5 below)
- Vogt Aero part(s) currently in development:
 - 4K1378-1VA for OEM 4K1378-1; Printed Circuit Board coming soon

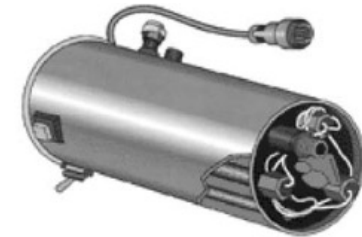


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CASE STUDY:

Hot Water Tank Assy(s)



Vogt Aero offers PMA PN:

- VA-2540-T01 for OEM PN 8921110G5
- VA-2540-T02 for OEM PN 8921385G1

PROBLEM

- Failure Point of System – Leaks at Bushing's & Welded Seam's
- Corrosion
- Costly Repairs – Price for Spares Causing Excessive BER Rate

SOLUTIONS

- Improved Materials – 316 SS; Corrosion Resistance
- Use of Similar Materials with All Mating Parts
- Increased Pressure Test Requirements
- Improved Manufacturing Methods – CNC End Caps, Low Carbon Welding Methods

RESULTS

- Increased Service Life
- Reduced Cost
- Improved Maintainability of NHA

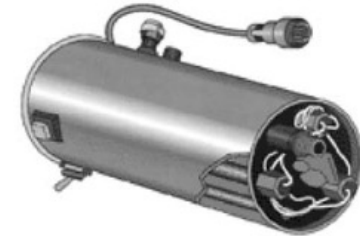


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CASE STUDY:

Cartridge Heater Assy(s)



Vogt Aero offers PMA PN:

- VA-2540-H01 for OEM PN 24D507239P01
- VA-2540-H02 for OEM PN 24D507239P02

PROBLEM

- Heater Burst – Due to Ingress of Moisture
- Corrosion
- Costly Repairs – High Price for Spares

SOLUTIONS

- Improved Materials – 316 SS; Corrosion Resistance
- Use of Similar Materials with All Mating Parts
- Resistance – Tighter High/Low Tolerance
- Improved Manufacturing Methods – Electro-Polish, Drawn Sheath, Two Stage Sealing of Electrical Leads

RESULTS

- Increased Service Life
- Reduced Cost
- Improved Maintainability of NHA

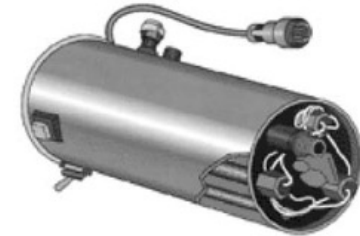


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CASE STUDY:

Water Level Sensor Assy



Vogt Aero offers PMA PN: 3E2534-VA for OEM PN 3E2534

PROBLEM

- Failure Point of System – IR Test
- Corrosion of Probes
- Internal Short

SOLUTIONS

- Improved Materials – 316 SS; Corrosion Resistance
- Use of Similar Materials with All Mating Parts
- Improved Seal – At the Probe Bushing/Interface
- Improved Manufacturing Methods – Gold Plated Probes

RESULTS

- Increased Service Life
- Reduced Cost
- Improved Maintainability of NHA
- Reduced Lead Time

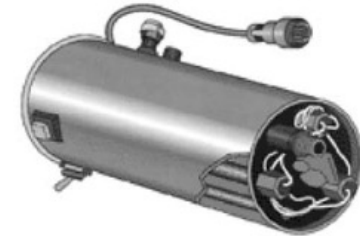


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CASE STUDY:

Pressure Relief Valve Assy



Vogt Aero offers PMA PN: 532T1-1M-140-VA for OEM PN 532T1-1M-140

PROBLEM

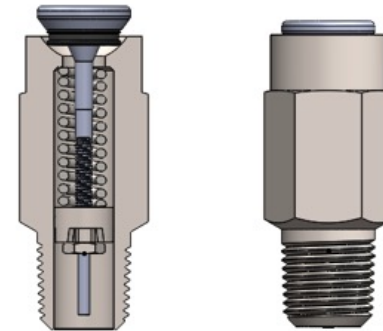
- Lead Time
- Corrosion
- Costly Repairs – High Price for Spares

SOLUTIONS

- Improved Materials – 316 SS; Corrosion Resistance
- Use of Similar Materials with All Mating Parts
- Increased body length; preventing damage due to excessive torque
- Improved mating surface of seal

RESULTS

- Reduced cost
- Improved Maintainability of NHA
- Reduced Lead Time

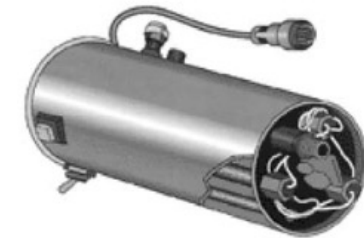


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CASE STUDY:

Temperature Sensor Probe Assy



Vogt Aero offers PMA PN: 24B508385P1-VA for OEM PN 24B508385P1

PROBLEM

- Corrosion
- Costly Repairs – Price for Spares Causing Excessive BER Rate

SOLUTIONS

- Improved Materials – 316 SS; Corrosion Resistance
- Use of Similar Materials with All Mating Parts
- Improved Manufacturing Methods – Electro-Polish, Two Stage Sealing of Electrical Leads

RESULTS

- Increased Service Life
- Reduced Cost
- Improved Maintainability of NHA
- Reduced Lead Time

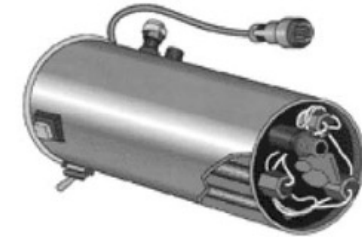


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CASE STUDY: RESULTS

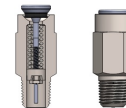
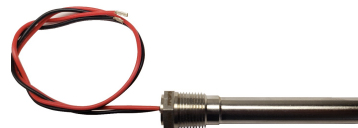
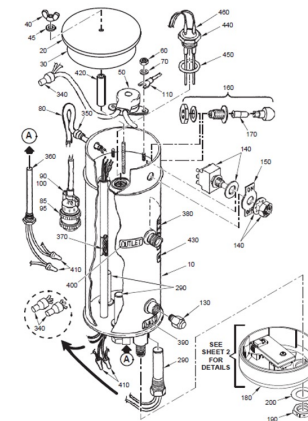
How Many Parts are In-Service Today?



Lav Systems NHAs: 24E507009G03 & 24E507040G04 Series

Vogt Aero PMAs in Service:

- VA-2540-T01 3,700+ units in service since 2016
- VA-2540-T02 650+ units in service since 2017
- VA-2540-H01 800+ units in service since 2016
- VA-2540-H02 16,000+ units in service since 2016
- 3E2534-VA 6,000+ units in service since 2020
- 532T1-1M-140-VA 1,600+ units in service since 2023
- 24B508385P1-VA 250+ units in service since 2021



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Continuous Improvement

Understanding Where The Pain Points Are

PROBLEM

- Reliability – What is the Next Point of Failure?
- Costly Repair – What are the Current Drivers?
- Availability – What is Driving Lead Time?

SOLUTIONS

- Improve Time on Wing
- Reduce Cost of Repairs
- Improve Maintainability
- Improved Manufacturing Methods
- Maintain Stock

RESULTS

- Increased Service Life
- Reduced Cost
- Improved Maintainability
- Reduced Lead Time

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Innovation

- Continuing to bring in new technology and capabilities
 - 3D Printing
 - 3D Scanning
 - Laser Etching
 - Micro Welding
 - Magnetic Particle Testing
 - Fluorescent Penetrant Testing
 - Eddy Current Testing

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Vogt Aero is Continuing to Look for New Ways to Support our Customers!

- New and future projects:
 - Main Ship Batteries (Boeing application, and more)
 - Lavatory Faucet Assemblies – Adams Rite
 - 2980292100000
 - 2980312100000
 - 2980332100000
 - 2980372100000
 - Heated Drain Mast Assemblies
 - 4-60000H883-00
 - 19600-570
 - Cabin Accessories
 - Seat Belt Assemblies
 - Pouch – For under seat life vests
 - Galley / Lavatory Fleece Filters (Airbus)
 - A225400454-204
 - A425400454-200
 - E629199-001
 - SP0720-7
 - Many more currently under review.....

Contact us for our current parts list. We look forward to serving you!

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Thank you!

Questions? Requests?

- **Business Development Director**

- Contact Mr. Glen Edwardsen at:
 - Glen.Edwardsen@vogtaero.com
 - Mobile: +1.360.721.6055

- **For General Vogt Aero requests**

- Contact Vogt Aero at:
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- **CEO | DER | Accountable Manager**

- Contact Mr. Erik Vogt at:
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 - Mobile: +1.602.721.8567

- **General Manager of Vogt MRO**

- Contact Mr. Wesley Sperry at:
 - Wesley.Sperry@vogtmro.com
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- **For General Vogt MRO requests**

- Contact Vogt MRO at:
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- **BAI – Distributor for Vogt Aero PMAs**

- Contact BAI Sales at:
 - sales@banner.aero
 - Office: +1.855.822.6637

