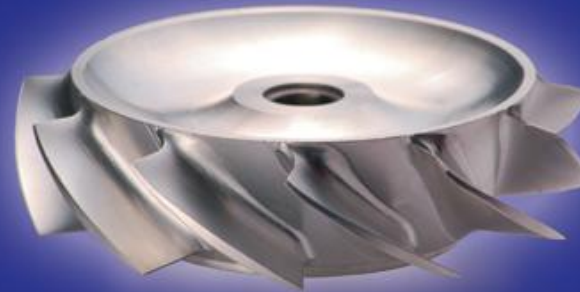




R&D Precision Exports (Pvt) Ltd.  
No.7, Sector D-VII, Export Processing Zone,  
Landhi Industrial Area Extension, Mehran Highway,  
Karachi-75150, Pakistan  
Tele: +92-21-35061003-4  
Fax: +92-21-35066416



R & D PRECISION EXPORTS (PVT) LTD



*We meet the exacting specifications of Aircraft  
Manufacturers & System Integrators*



[www.precision-exports.com](http://www.precision-exports.com)

# R&D Precision Exports (Pvt) Ltd. Who are we?

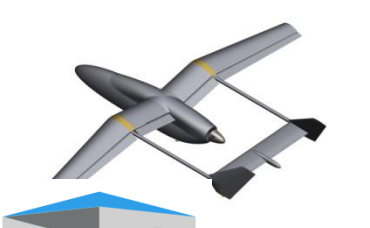
- Established in 1990.
- The founders are a team of professional engineers.
- We manufacture precision components to the highest caliber and standards. Our strategy is to focus on high demanding parts.

Our competence is in “**Design & Development**” and “**Build to Print**” manufacture.

- We have successfully established ourselves as a leader in our chosen field.
  - We are a team of a hundred strong.
  - We have the experience of exporting to Europe since 2006.
  - We are ISO 9001:2008 Qualified
- We follow AS 9102 documentation requirements and are in the process of qualifying for our audit.
- We have successfully developed over 1000 components for high performance applications.



# Platforms being Served:



## Companies/ Platforms that use our manufactured components

Zodiac Aerospace (delivered over 30,000 components/125 Part Nos.)

Bombardier (Lear Jet 60, Challenger, Dash 8, Global Express)

Agusta 109 Power, AW139

Eurocopter AS 332 Super Puma

Finmeccanica (Falco UAV)

Bell Helicopters (Bell 429)

ATR 42

Agusta Bell BA 609 Tilt Rotor

Gulf Stream IV

Nato Helicopter NH 90

Sikorsky S-92

Sagem Defence Security

Anslado Thomassen (Turbine components)



## Core Competencies:

- Precision Machining using Multi-axis CNC Machines.



13 High End CNC machines, Carl Zeiss CMM, 60,000+ hours of machining time available per year for production.



## Core Competencies



- 3-D CAD Models
- 2-D Drawings
- Tooling Drawings
- Quality Check Requirements
- Manufacturing Layout
- Assembly Test Procedures
- Article Test Cards



## Core Competencies

### Process Control:

- **Job Routing Order**-a biometric digital real-time micro-management of activities on the shop floor.

05 Batch Report

File View Edit Options

Select Batch Number  Display Batch Data

Batch Log Times Cancel

Main Report

### Batch Information

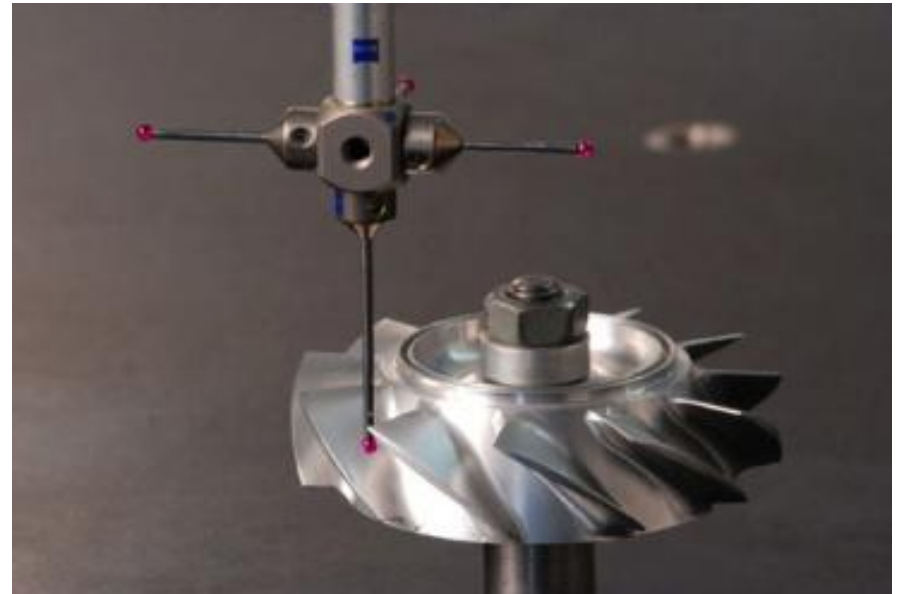
IWO/ Batch No:	12 0451 00	Product Order Quantity:	5
Customer ID No:	E012016	No. Off:	1
Delivery Request Date:	26-Aug-12	Part Quantity for Delivery:	5
Delivery Request Week:	WEEK 12_34	Material:	Aluminium Alloy 2024-T3511 Per Air 9048/9049
Product Nomenclature:	Port Valve	MFG:	X
Part Name:	Port Valve	Purchase Item for Delivery:	N/A
Part No:	3408269	IWO/ Batch Date:	3-Jun-12
Revision No:	14		

Page No.: 1 Total Page No.: 1 Zoom Factor: 100%



## Core Competencies

- **First Article Inspection** is carried out prior to handing over for batch production.





## Core Competencies

- **Complete Traceability** and history of all the deliverables is maintained based on International and Aerospace Standards & Practices. We qualified for the ISO 9001 in the year 2008.

FAI FORM 1 PART NUMBER ACCOUNTABILITY

TRACEABILITY DOCUMENTATION

IN LIEU OF AS/EN/SIAC 9102 Rev A

October 2012

Certificate of Conformity
Non-Conformity Waiver (if applicable)
Inspection Drawings
New Revisions
Packing List
Invoice

FAI FORM 2 PRODUCT ACCOUNTABILITY:
RAW MATERIAL
Certificate of Conformity / Material Test Report from Supplier
SPECIFICATION AND SPECIAL PROCESS(S)
Certificate of Conformity for Surface Treatment
FUNCTIONAL TESTING
Acceptance Test Procedure
List of Test Equipment
Article Test Card

FAI FORM 3: CHARACTERISTIC ACCOUNTABILITY:
VERIFICATION AND COMPATIBILITY EVALUATION

27

7:06 PM  
10/27/2012



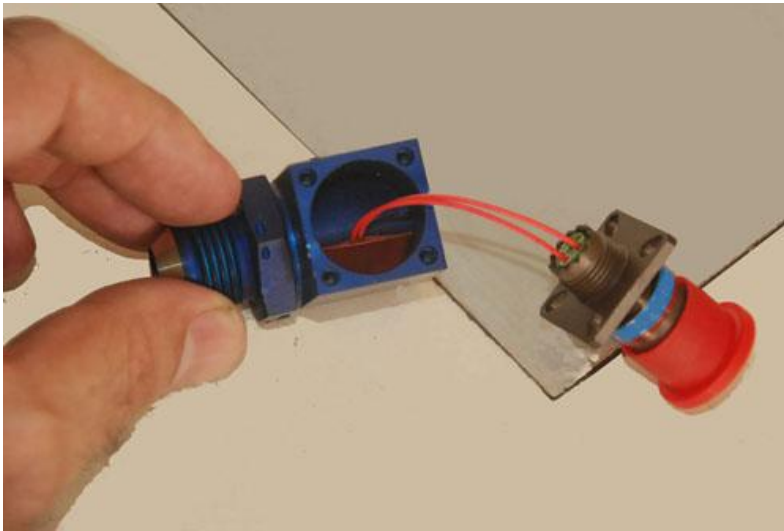
## Core Competencies

- **Assembly Operations** are routinely carried out.



## Core Competencies

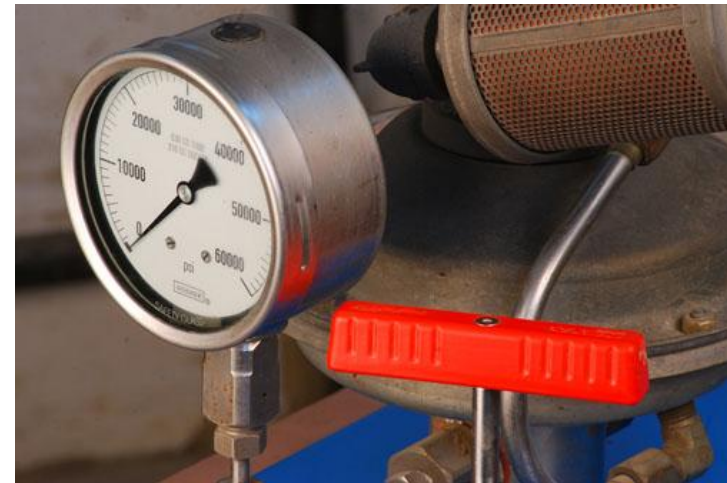
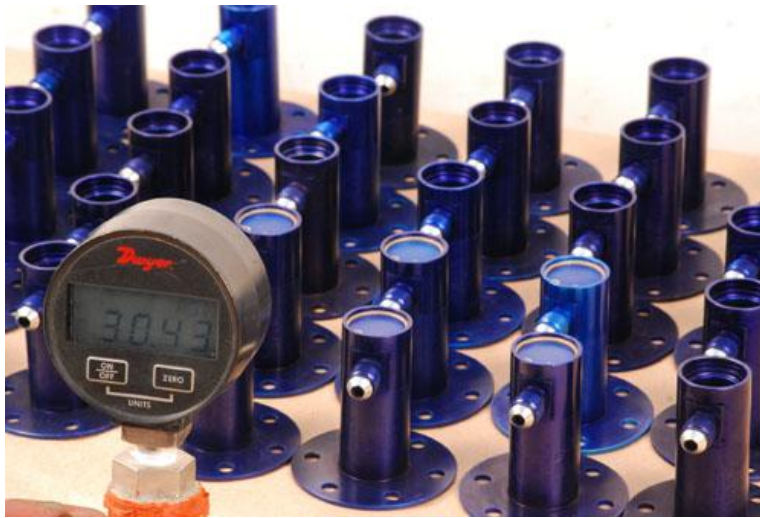
- **Testing of Aerospace applications** are carried out according to specifications and in accordance with approved Testing Procedures.





## Core Competencies

- **Qualification of Assemblies** are carried out with various available pressure, electrical and performance related tests.





Components in Aluminium crafted on multi axis machines.



**ENGINES AND  
PERFORMANCE PARTS**







Components in Aluminium crafted on multi axis machines.



**ENGINES AND  
PERFORMANCE PARTS**





Precision internal sphere geometry and conformance to the tolerance defines this component. Tolerance of size and position on the sphere is 0.025mm



**ENGINES AND  
PERFORMANCE PARTS**



High Strength and secure environment made possible by this housing for electronic hardware in aerospace application.



**STRUCTURES**



Bulkhead- High Strength Aluminium Alloy



**STRUCTURES**





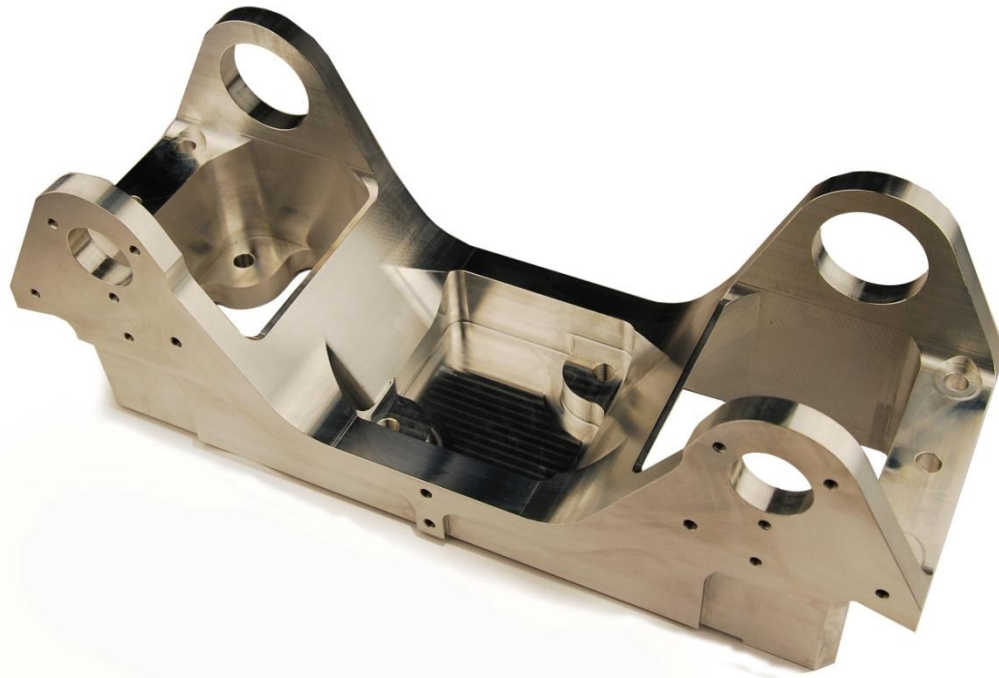


Bulkhead-Aerospace Application



**STRUCTURES**





High Strength Landing Gear Blocks-Aerospace application.



**STRUCTURES**

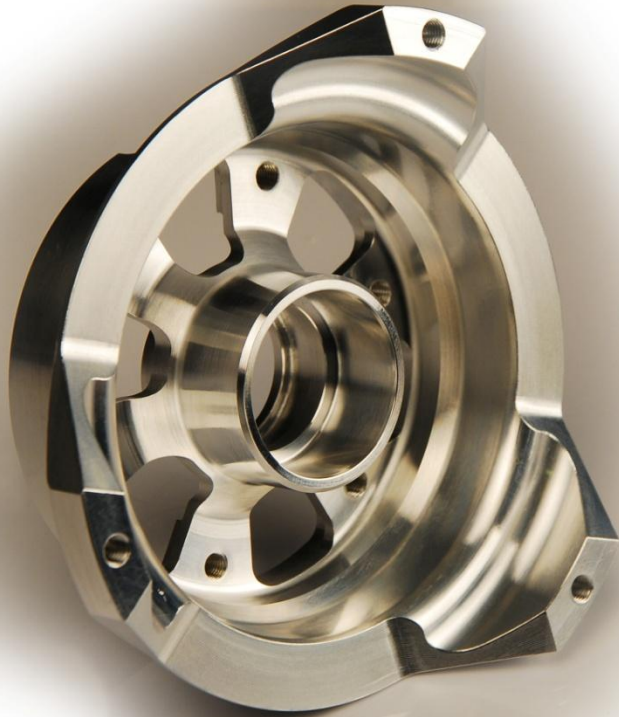


Complex machining in Titanium- Aerospace application.



**STRUCTURES**

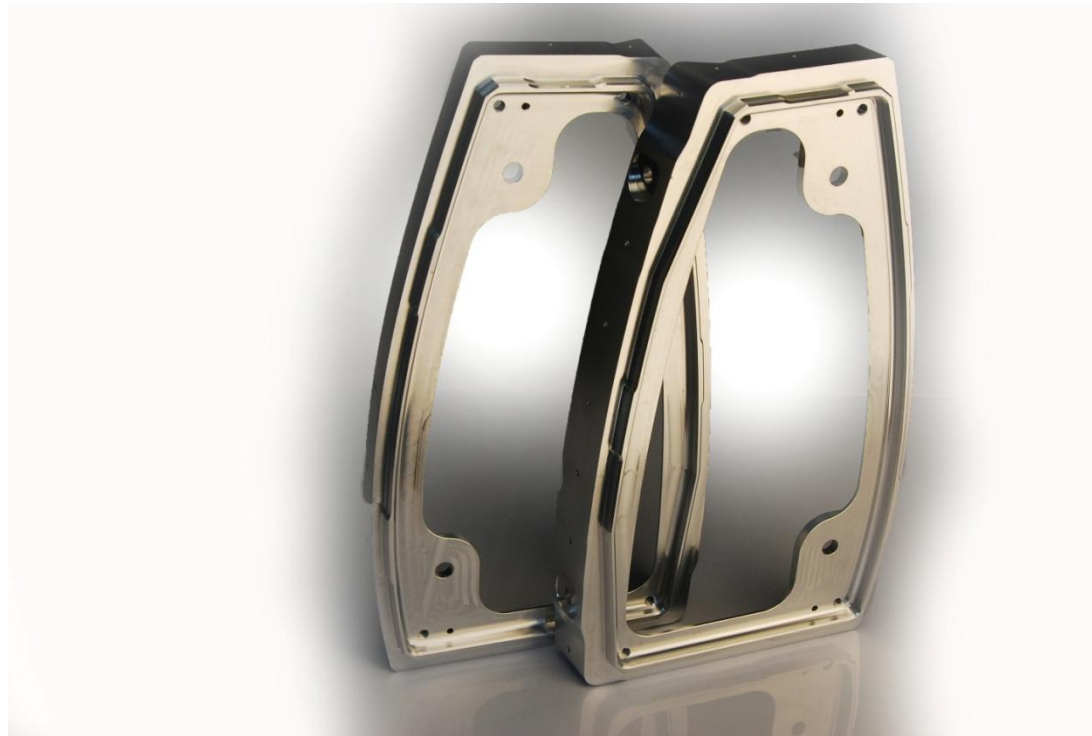




Landing Gear-Aerospace application.



**STRUCTURES**



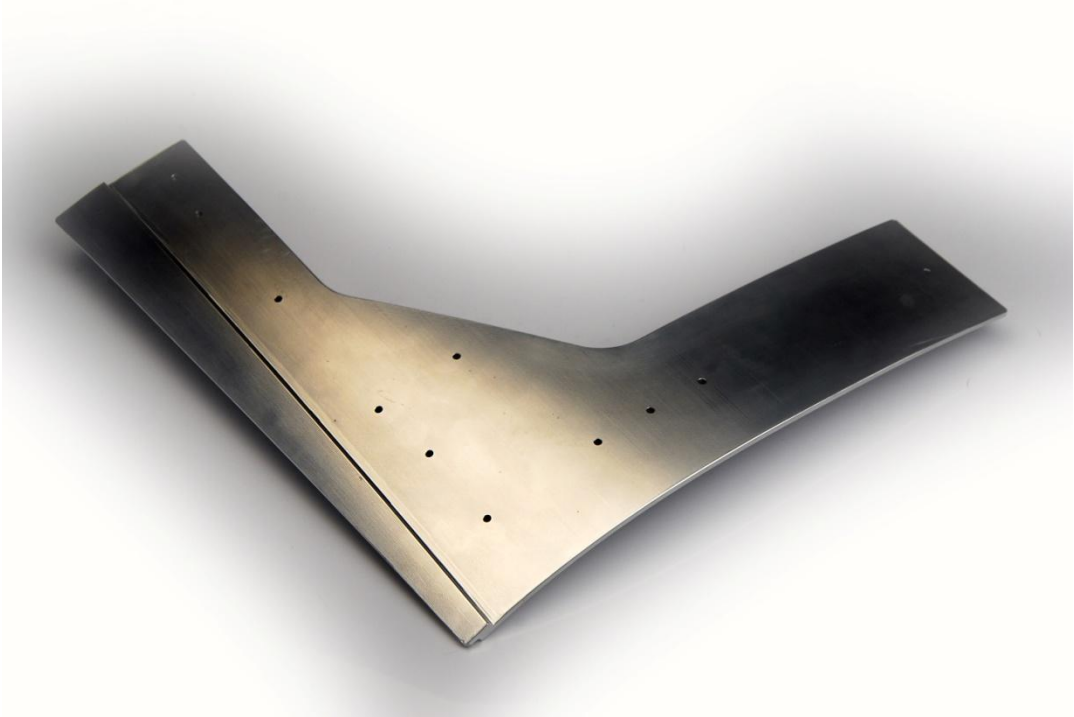
Aerofoil .



**STRUCTURES**







Thin Section Panel. High Strength Aluminium Alloy.



**STRUCTURES**





Control surface geometry for Aerospace applications.  
Components in Aluminium 2024-T3511-Air Norm 9048/9049.



**STRUCTURES**





Product designed and developed to mount an Aircraft  
Antenna. Form and Style beyond Function.  
Aluminium 2024-T3511



**STRUCTURES**





An oblique internal cone blends with a angled mating feature to make an impossible circular projection in this component, leaving no undercuts. Components in Aluminium 2024-T3511-Air Norm 9048/9049.



**STRUCTURES**



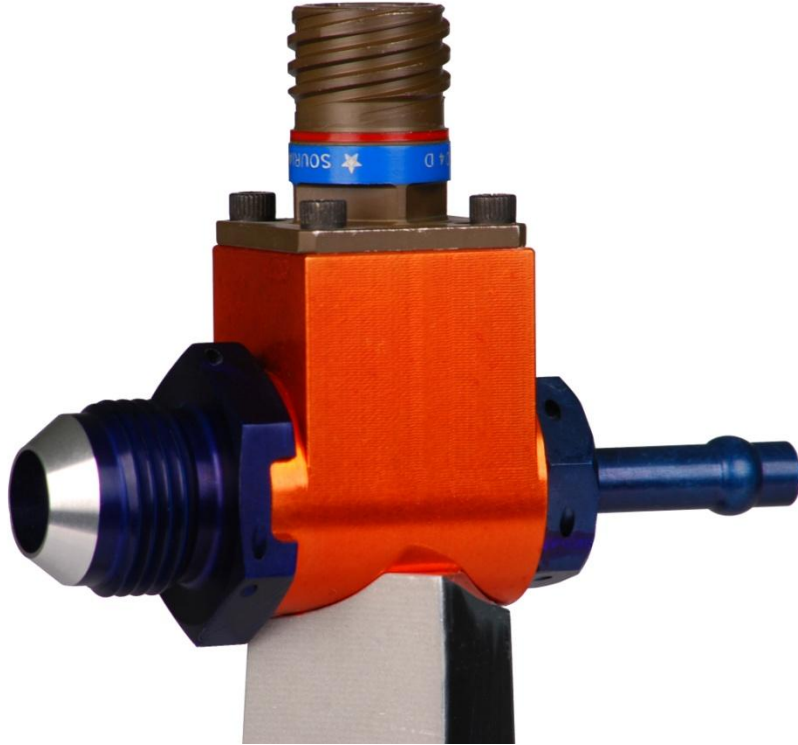


High Strength and secure environment made possible by this housing for electronic hardware in aerospace application.

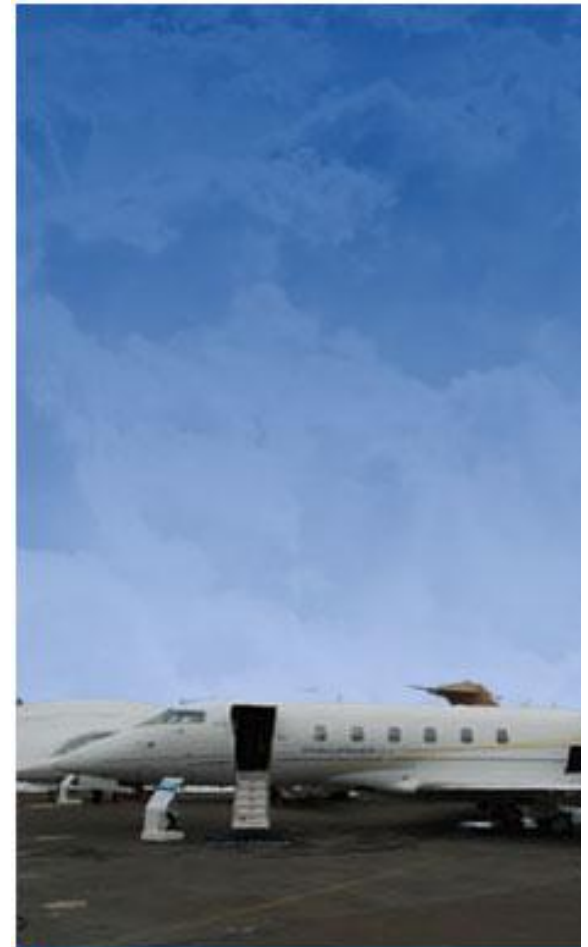


**STRUCTURES**





Small but robust, perfectly machined components make an assembly that combines high strength materials with delicate springs, seals, thermal and electrical devices. All components are Tested and Certified. Machined components in Aluminium 2024-T3511-Air Norm 9048/9049.

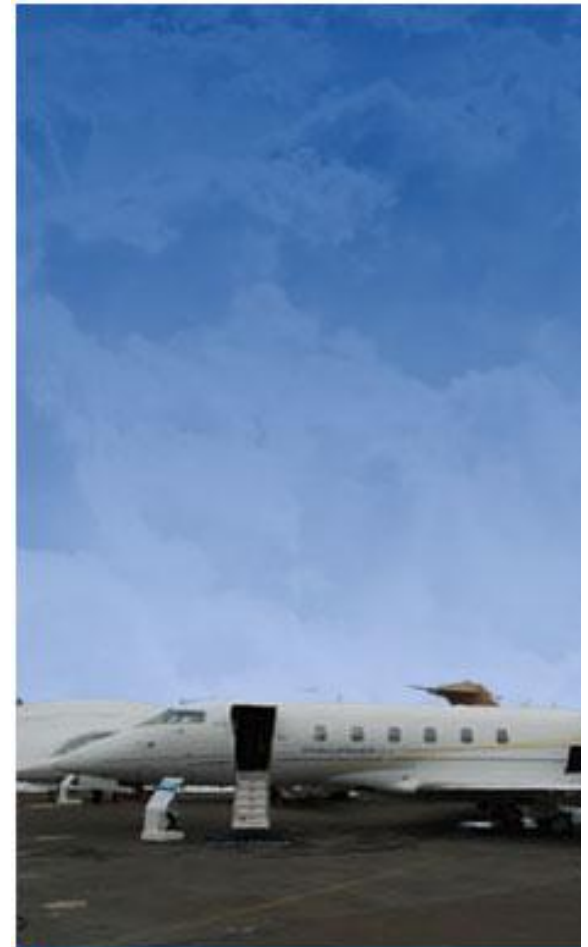


**VALVES AND FLUID  
CONTROL**





Off-centered axis, oblique angle, multiple surface treatments and control on tolerance of size and geometry offer challenges in manufacturing controls. Components in Aluminium 2024-T3511-Air Norm 9048/9049.



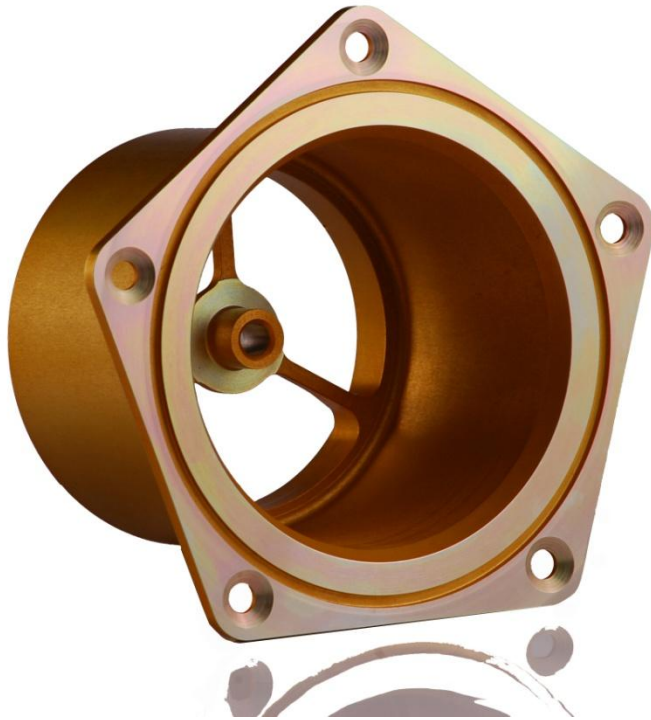
**VALVES AND FLUID  
CONTROL**



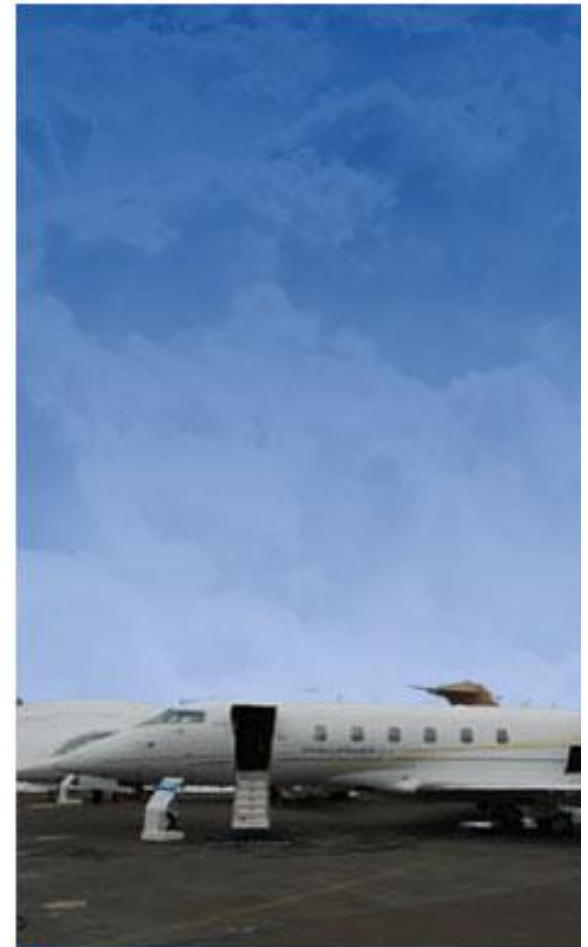
Accuracy of the locking features, control on tolerance of size and geometry are an important requirement for this part. The steel Nut with a protective cover and sealed against leakages is assembled together by riveting.



**VALVES AND FLUID  
CONTROL**



Interesting features are the five sided flange, the thin section geometry, the multiple surface treatments, and the seating of the Valve and Piston for an Aerospace application.  
Components in Aluminium 2024-T3511-Air Norm 9048/9049.



**VALVES AND FLUID  
CONTROL**



Accuracy of the Internal and External locking features, control on tolerance of size and geometry are an important requirement for these parts. Components in Aluminium 2024-T3511-Air Norm 9048/9049.

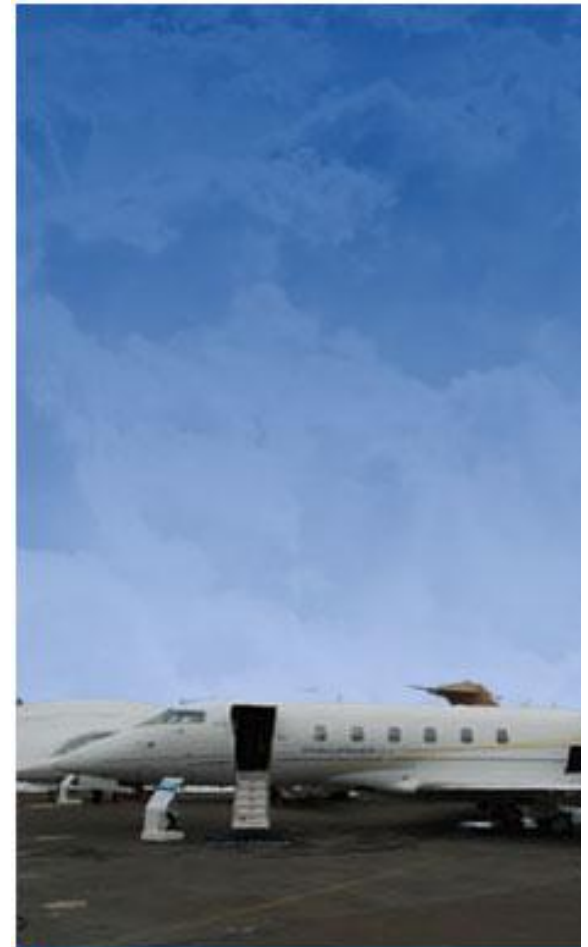


**VALVES AND FLUID  
CONTROL**

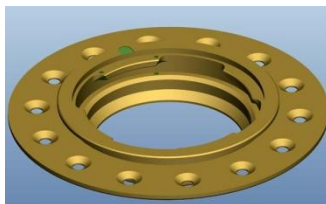
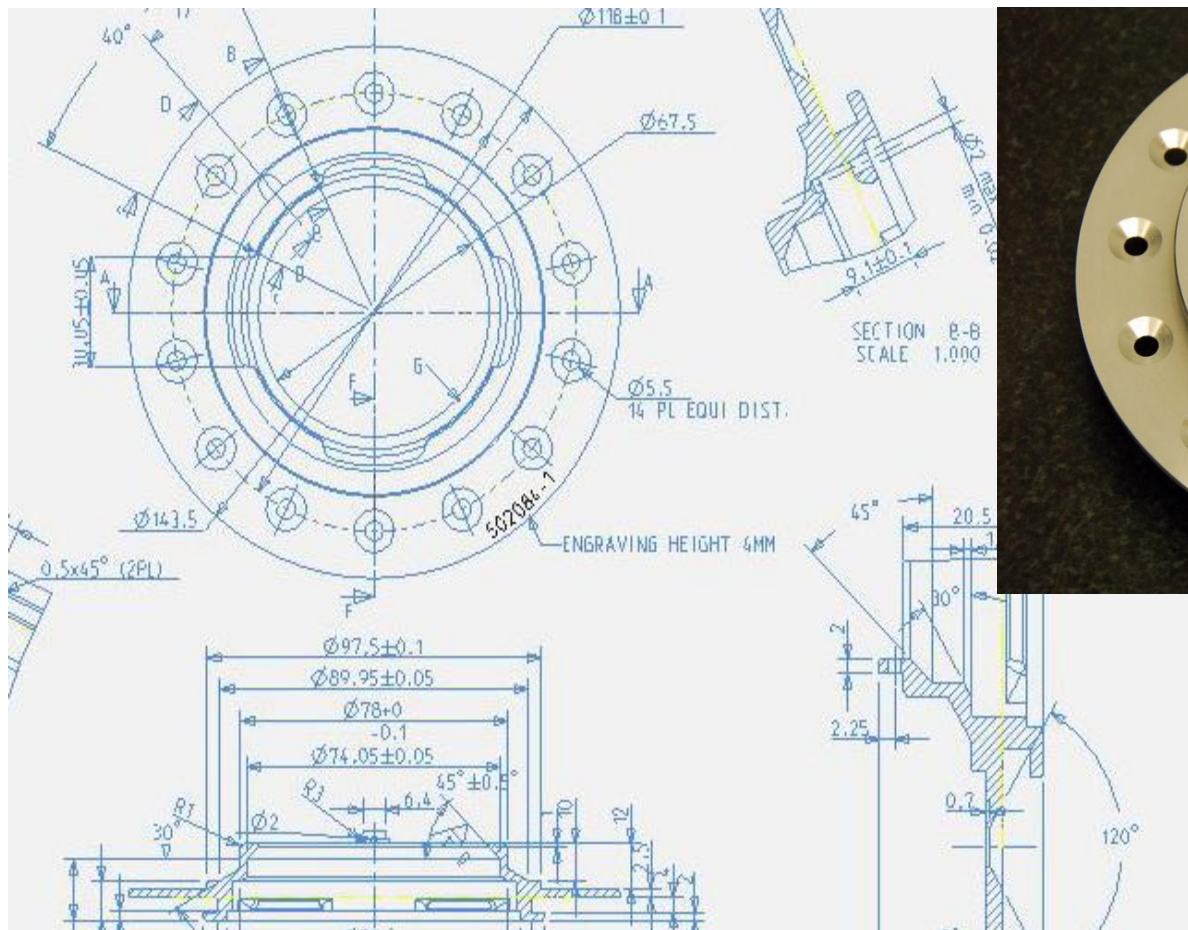




High temperature and moderate pressure one-way valve.  
Aircraft engine exhaust is restricted to flow as desired. All  
components are Tested and Certified. Material Stainless Steel  
316L



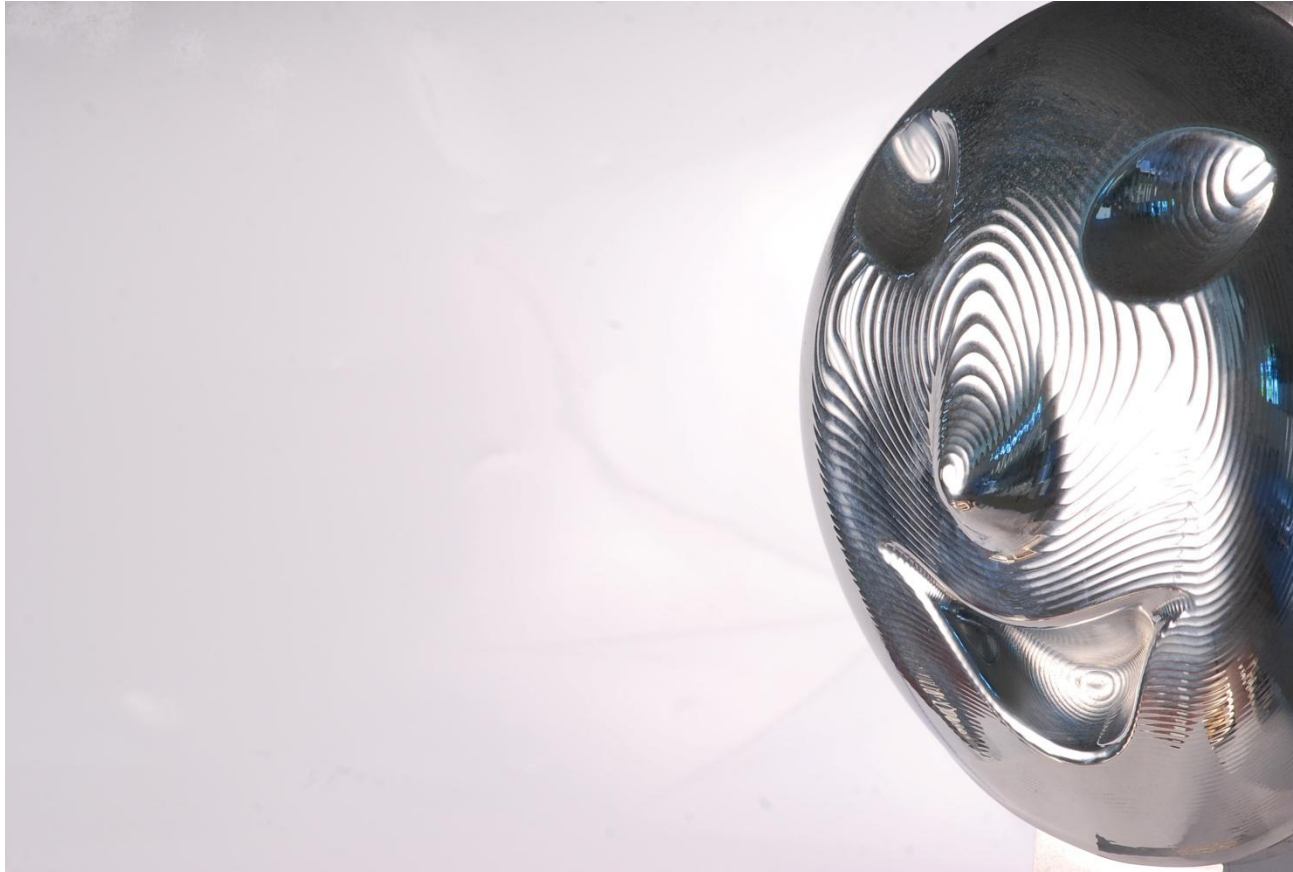
**VALVES AND FLUID  
CONTROL**



CONFIDENTIAL

**Highlights:**  
 Material; Aluminium Alloy 2017A-T4  
 Tolerance of size, max: 0.02  
 Geometrical Tolerance: None  
 Surface Roughness: Ra 0.4 on internal conical seat.  
 Surface Treatment: Sulfuric Acid Anodizing MIL A 8625

PDM 401 Embase 502084-1\_13



Thank you for patience, and for your time.

