



Experience at your disposal: Working closely with operators, oil companies and standards committees for 60 years, ELAFLEX knows what matters for aircraft refuelling equipment.

Our product range for the aviation sector comprises hoses, fittings, overwing nozzles, dry disconnect couplings and rubber expansion joints, for fitting to refuellers and dispensing vehicles.

With this leaflet we would like to inform you about our competence with aircraft refuelling hoses.

HOSE ASSEMBLIES FROM A SINGLE SOURCE

Since 1948 our aviation hoses are developed in close cooperation with ContiTech, and still 'made in Germany' (see Information 6.05E for details why it pays to use quality aircraft refuelling hoses).

Also regarding couplings (see Information 7.07), all major products are own developments.

Having in hand both development and production, we guarantee that our customers will get a constant quality. Further, we ensure accuracy of fit when it comes to combining hose and coupling, as a complete hose assembly.

QUALITY AND SAFETY

ELAFLEX is a certified ISO 9001 supplier, authorised to test according the European Pressure Equipment Directive and approved according AQAP-2130 for supplies to NATO-forces.

What does that mean to you? Quality and safety are always our top priorities - never the lowest price. This leads to our renown product reliability and durability.

Due to local personal advice and close relationship with our major customers we are able to understand your problems, and to provide solutions. This expert knowledge flows into the improvement of our hoses and couplings.

The cooperation with international standards bodies plays a part in contributing to keeping up the official safety requirements for aviation hoses. Based on that, our philosophy is to be always better than the standard.



Hose Assembling



Hose Endoscopy - Random Sample Test

ASSEMBLING AND TESTING: OUR SERVICE

Aircraft refuelling standards and the international JIG Guidelines recommend the purchase of complete hose assemblies.

ELAFLEX assembles your required aviation hose, professionally and ready for use.

Prior to commissioning, we usually do a pressure test (40 bar) and a electrical continuity test. A certificate is issued.

All into-plane hoses (types C and F) shall only have an electrical resistance between 1.000 and 1.000.000 Ohm. For more details on hose assembling and testing see Information 5.09.

CODING OF TESTED HOSE ASSEMBLIES

All ELAFLEX hoses are permanently marked with a batch number, for traceability.

Additionally, every single tested hose assembly is uniquely coded with a pin marker on the safety clamp:

- Serial Number
- Test Date
- Test Pressure
- Elaflex Mark

Both the hose batch number and hose assembly code appear in the test certificate.

TRAINING

ELAFLEX offers free of charge training sessions for the assembling and testing of aviation hoses.

Our hose assembling system is easy to learn and service-friendly. Self-assembly, e.g. for cutting and reassembling a damaged hose, is possible provided all hints issued in our catalogue and Information 5.09 are followed.

In the highly sensitive aircraft refuelling sector only authorised staff should do assembling and testing. In a one day session we will train your staff, and issue personal certificates which attest the acquirements.

Please contact us to enquire about training sessions, which can take place worldwide - at your premises, or at ELAFLEX.

ELAFLEX 		
INSPECTION CERTIFICATE 3.1 acc. to EN 10204:2005		
Purchaser: ELAFLEX Italia S.r.l. Andrea Bonelli Via Industriale, 28 Rezzato (BS), 25086 Italy	Order No.: 8.095806*AMA Order Date: 25.09.09 Confirmation No.: 911022937 Confirmation Date: 28.09.09	
Article and quantity: 2 x 50 m HD 50 C "Yellow Band" one side: VC 50-2" SS BSP other side: MC 50-2" SS BSP	Serial number 911022937/1-2	Assembling date 10.09
	Hose prod. no. 6432.092	Hose prod. date 01.09
max. working pressure: PS 20 bar		
Pressure test: Above items were tested at 40 bar / 10 min. Test medium water. No leakages were found.		
Test of electrical conductivity: The electrical conductivity was tested. The electrical resistance between the couplings, measured at the couplings, was recorded as:		
911022937/1-2 from <u>6000</u> Ohm to <u>65000</u> Ohm		
Inspector: <u>D. Pross</u> , <u>filidul</u> 02. Okt. 2009		
Result: Regarding the pressure resistance and electrical conductivity above hoses correspond to the requirements of the EN 1361 and the agreed conditions of the order.		
Hamburg, the <u>02.10.09</u>		
		
ELAFLEX - Gummi Ehlers GmbH, Schnackenburgallee 121, D-22525 Hamburg Tel: +49 (0)40 540 00 50 - Telefax: +49 (0)40 540 00 567		

Test Certificate (Sample)



Coding of Hose Assembly on Spannloc Fitting

CERTIFICATE	
Mr.	
Company Name	
took part in our product training.	
For "Assembly and testing of ELAFLEX aircraft refuelling hoses" he is authorized to educate trainees on behalf of ELAFLEX.	
.....	
Hamburg, 13th February 2008	
Ulf Peemöller ELAFLEX - Gummi Ehlers GmbH	
	

Training Certificate (Sample)