



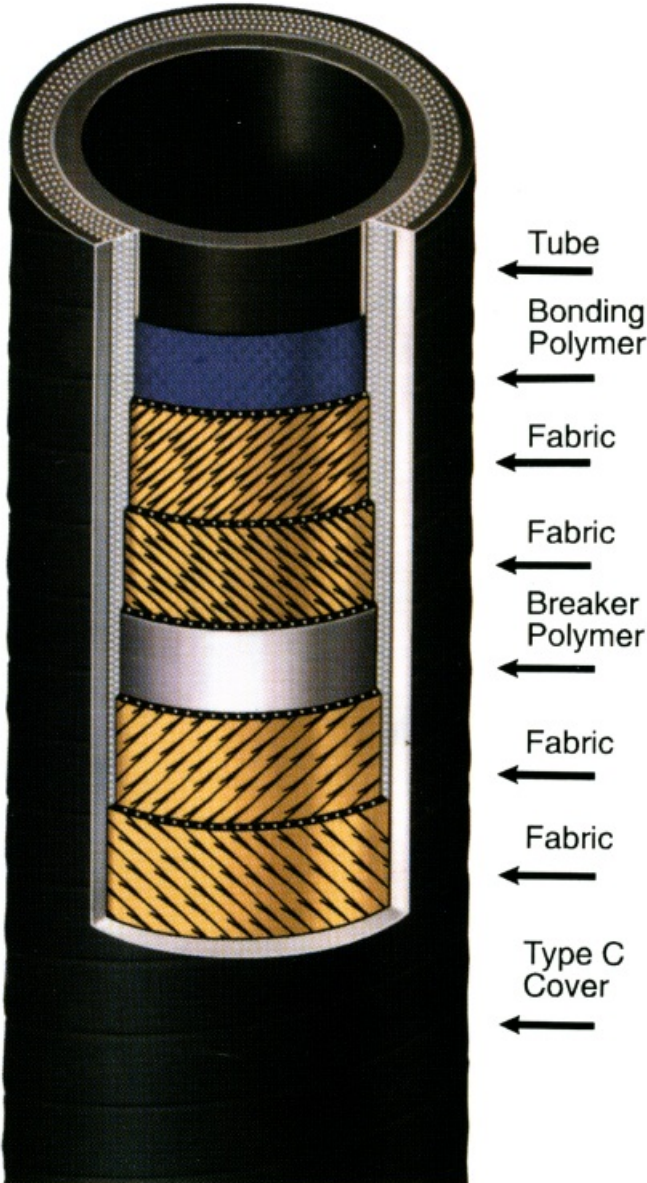
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Aircraft Refueling
 Hose
 Bulletin 140
 (3-03)

GAMMON JETCRAFT INTERNATIONAL AIRCRAFT REFUELLING HOSE

We are truly proud of the world-wide superior performance of our hose under the most severe service conditions. No brand of hose has surpassed the service performance of Gammon Jetcraft Aviation refueling hose

Tested and certified in conformance with these specifications:
 NFPA-407
 API-1529, Revision 5 (1998)
 BS-EN 1361 (1997), replacing BS3158



Gammon Jetcraft International refuelling hose, with its advanced design, actually weighs less than other American hoses, yet accepts standard Dixon/Rostra and ProGrip/Civicon non-reattachable, as well as European-style reattachable couplings. This hose is made to be rugged, with a full 300 psi (20 bar) working pressure and semi-conductive cover (API-1529, Grade 2, Class C).

Our hose is certified to use reattachable and non-reattachable couplings and it passes the difficult 15,000 cycle API pressure test.

FIELD SERVICE EVALUATION

Major oil companies have performed field tests with complete satisfaction. Also this hose has seen six years of desert service in the Middle East with no problems of any kind.

FACTORY ASSEMBLY

Every hose is shipped with couplings attached as specified in BS-EN 1361 and API-1529. Each hose is then subjected to an electrical resistance test to insure continuity between the coupling and the conductive cover. It is then hydro-tested at 600 psi for a period of not less than 10 minutes to check for coupling slippage. Each hose is tested at its fully extended length. After draining the test water, the hose is cleaned and dried internally before sealing the ends to prevent intrusion of contaminants.

IDENTIFICATION

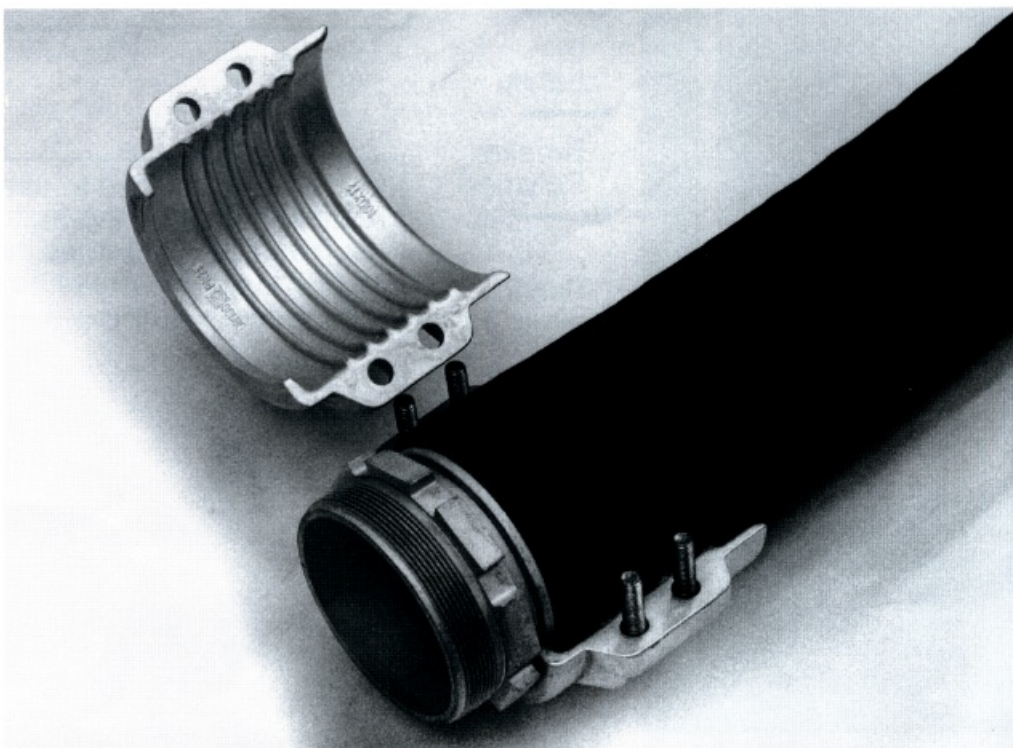
Gammon hose is identified by a lengthwise, molded strip with the following information:

Gammon Jetcraft	NFPA-407
Aircraft Refueling,	GTP-8686
Type C - Grade 2	Quarter and Year of Manufacture
API-1529 5th Edition	300 PSI WP
BS-EN 1361	Size in inches and mm

Before shipment, each coupling is hammer stamped with a code number that identifies it in our log book. The log provides a complete identification including the size, length, type of couplings, pressure test, serial number of the hose, quarter and year manufactured, date of assembly and test, and the name of the technician who performed the work. A certificate is then printed for the customer with all pertinent information filled in.

PACKING FOR SHIPMENT

Gammon hose is known as a semi-hardwall type that must not be kinked. See GamGram No. 35. Therefore, it is carefully packed in cartons large enough so that kinking will not occur during shipment.



GAMMON "RS" COUPLING REATTACHMENT SYSTEM

With this bulletin we are announcing our capability of supplying re-attachable couplings that pass all of the pressure tests of API-1529 when used on Gammon Jetcraft International hose. Made in Germany by Roman Seliger, they carry the trademark "RS". Four (4) bolts must be tightened to complete the assembly. See photo on left page.

In the past, if a hose end was damaged or worn, the entire hose was a total loss unless it was shipped to an approved re-coupling facility. After paying the cost for freight, for re-coupling and for the new non-reattachable coupling you could finally put the hose back into service after several days delay.

We have done away with this problem. If you buy our Gammon Jetcraft International Aircraft Refueling Hose and if it is ever necessary to reattach the coupling, all you must do is remove the existing fitting with ordinary wrenches, cut off the damaged portion of the hose, re-install the same coupling and perform a hydrotest with your hose tester at 600 psi.

The process of coupling a hose requires severe distortion of the rubber body of the hose. This distortion does not occur instantly, but over a period of time as the rubber adjusts to the shape of the clamp ridges. This adjustment also involves slippage between the rubber and the metal components before it finally comes to rest. After a period of several days the rubber has taken a "permanent-set". At that time, it is wise to re-tighten the bolts. The capability of re-tightening is not possible with another brand of coupling made in Germany which uses a longitudinal pin to hold the clamps together after tightening them in a vise.

The assembly process requires the use of a set of long bolts to draw the 2 halves of the clamp together. Then these long bolts are replaced one by one with short bolts to complete the assembly.

Gammon hose and RS fittings are available in all sizes from 1" to 4", male or female threads.

NON-REATTACHABLE COUPLINGS

The optional non-reattachable couplings that we offer are also fully certified on Gammon Jetcraft hose. One brand is made by Dixon (formerly Rostra). Another brand we are certified to supply is ProGrip (formerly Civicon), which is available in either brass or stainless steel.

The threaded coupling, with serrations on the OD, fits inside the hose and is then internally expanded by a tapered mandrel that is drawn through it using a special machine. The hose is restrained on its OD by an internally serrated ferrule so that the hose is tightly compressed between the coupling and ferrule. Available with NPT threads only.

HOW TO ORDER

Hose can be supplied with various types of couplings. One of these suffix letters must follow the model number GTP-8686.

RS Roman Seliger: Bolted Reattachable E Elaflex/Spannfix: reattachable
 D Dixon: Non-reattachable, *formerly Rostra* P ProGrip: non-reattachable, *formerly Civicon*

MODEL NO.	INSIDE DIAMETER - I inches or MM	LENGTH - Feet or Meters	COUPLINGS - Male or Female	THREADS - NPT or BSPP	FINISH Brass or Tin plated brass T
EXAMPLE: GTP-8686RS-	37MM	30M	MxF	B	T

In this example you would order GTP-8686RS-37MM-30M-MxF-B-T.
 This hose has an inside diameter of 37MM, 30 meters length, coupled male one end, female other end with BSPP threads, tinplated.

The same hose can be ordered in the inches/feet system, as shown:
 GTP-8686RS-1.5I-100F-MxF-B-T

To order hose with Dixon/Rostra couplings, replace the "RS" with a D, such as:
 GTP-8686D-37MM-30M-MxF-N-T

Dixon and Pro-Grip couplings are not available with BSPP threads, but RS couplings can be either NPT or BSPP. On special order, Elaflex couplings can be provided in either thread series.

Note: Unless instructed otherwise, the length of hose that is specified on a customer's purchase order does not include the length of the couplings. Therefore, if a specific overall length, including couplings is required, it must be stated on the purchase order.

Inside Inch	Diameter mm	Weight lbs/ft	Weight KG/m	Max. psi	Max. Vacuum HG*
1	25.4	0.53	0.79	13.2	27
1¼	32	0.68	1.01	13.2	27
1½	38	0.84	1.25	11.3	23
2	50	1.24	1.85	12.3	25
2½	63	1.56	2.32	11.8	24
3	76	2.09	3.11	9.8	20
4	102	2.82	4.20	6.9	14

*At 70°F (21°C)

Available Lengths
 Up to 200 ft.
 (61 meters from stock)
 Up to 400 ft
 (122 meters) on special order

