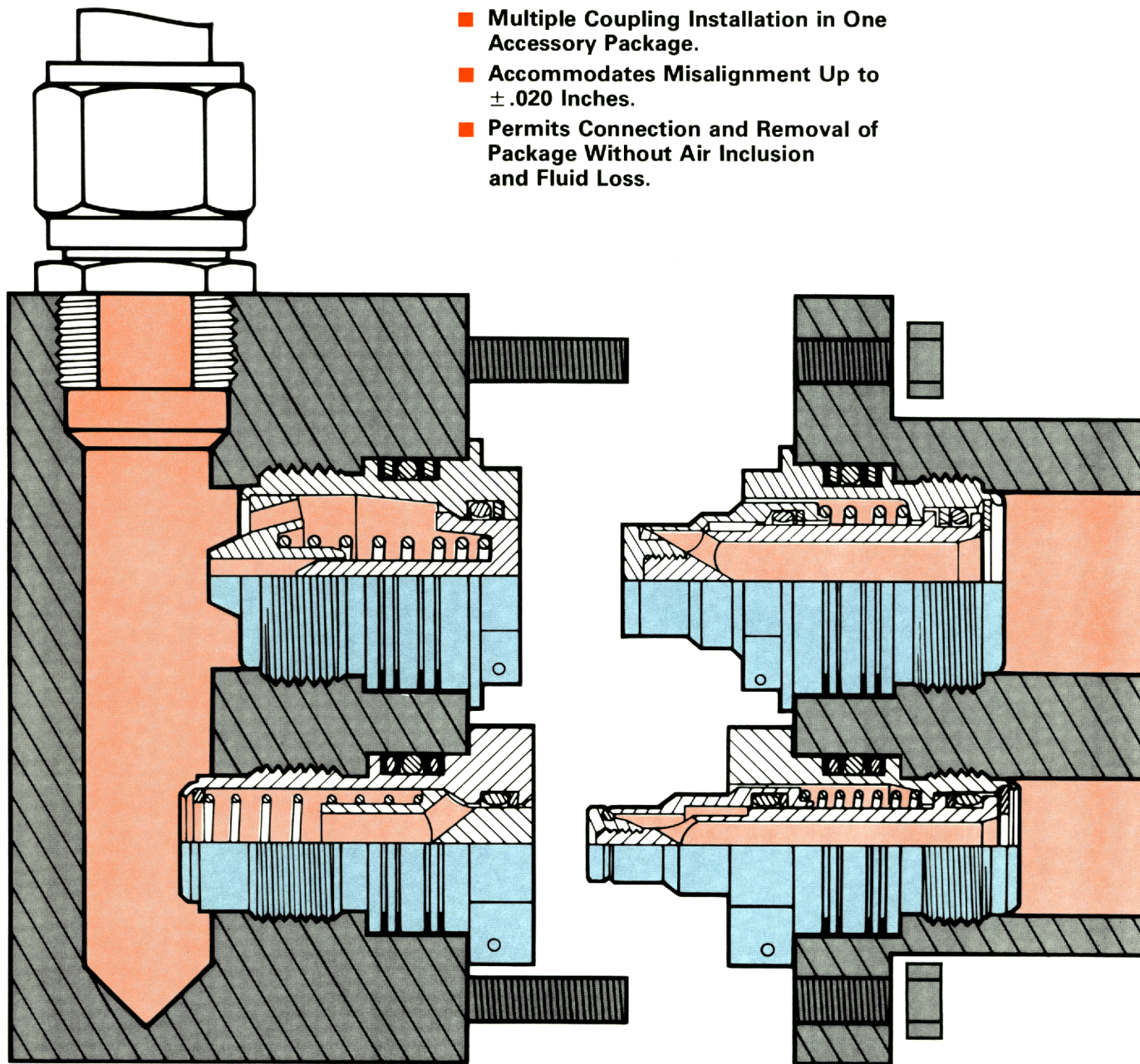


# Aeroquip Self-Sealing Couplings For Modular Hydraulic Systems.

- Multiple Coupling Installation in One Accessory Package.
- Accommodates Misalignment Up to  $\pm .020$  Inches.
- Permits Connection and Removal of Package Without Air Inclusion and Fluid Loss.

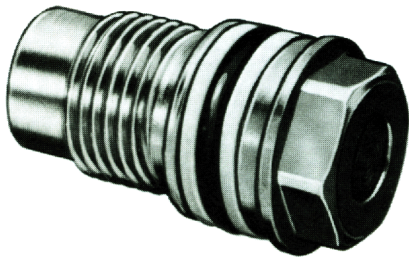


# Design Specifications

Coupling halves are used to connect and disconnect hydraulic accessory packages in the aircraft. Both coupling halves seal out dust and foreign matter while preventing fluid leakage during disconnection. The female half is flush with the aircraft surface when disconnected. A special feature permits the coupling halves to be connected when misaligned up to  $\pm .020$  inches. This blind mating capability, developed by Aeroquip engineers, is designed into a family of Aeroquip couplings for a variety of Aircraft applications.

**Medium:** ..... MIL-H-5606 Hydraulic Fluid  
**Pressure:** ..... (See Below)  
**Temperature:** ..... -65°F to +275°F  
 ( -54°C to +135°C)  
**Material** ..... Aluminum & Cres  
**Dimensions** ..... Reference drawings on page 4.  
**Weight** ..... (See Below)  
**Testing** ..... Qualification Test Report 66446-3

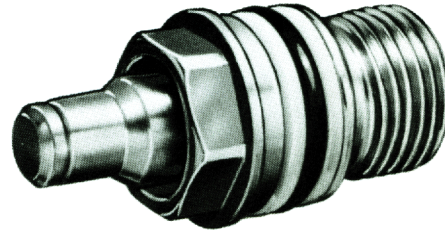
## 1/4 inch size



**AE97486E**  
Female Half

Pressure Information: (Installed in Receptacle)  
 MIN BURST: ..... **7,500 PSIG**  
 PROOF: ..... **4,500 PSIG**  
 OPERATING: ..... **3,000 PSIG**  
 Max. Weight (Lbs) ..... **.044**

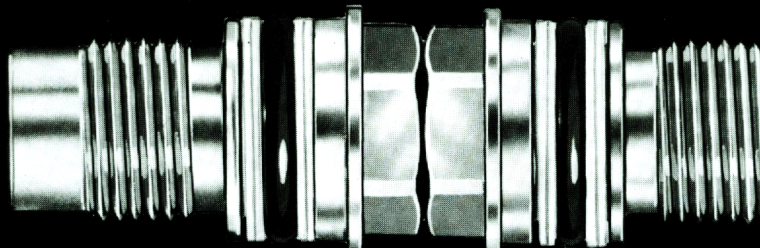
**NOTE:** O-Rings and Back-Up Rings not included.



**AE97485E**  
Male Half

Pressure Information: (Installed in Receptacle)

	CONNECTED POSITION	DISCONNECTED POSITION
MIN BURST:	<b>7,500 PSIG</b>	<b>1,250 PSIG</b>
PROOF:	<b>4,500 PSIG</b>	<b>750 PSIG</b>
OPERATING:	<b>3,000 PSIG</b>	<b>500 PSIG</b>
Max Weight (Lbs)	<b>.062</b>	

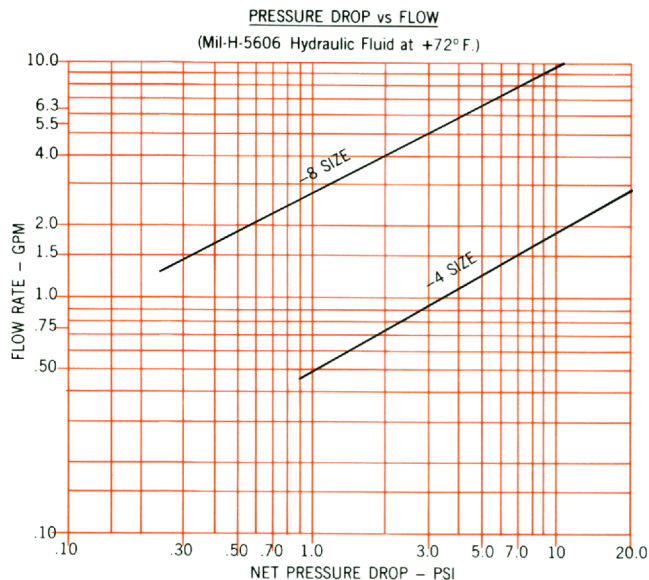


**AE97486E**  
Female Half  
(Mounted in Aircraft)

**AE97485E**  
Male Half  
(Mounted in Accessory)

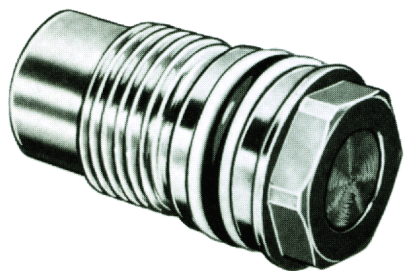
# Design Features

1. Blind Mating Capability — Floating feature in male half allows axial misalignment up to .020 inches in a 360° circle.
2. Flush end surfaces allow cleaning prior to connection.
3. Minimum envelope and weight.
4. Installs in an easy-to-machine receptacle. (Reference drawings Page 4)
5. Expendable, no servicing required.
6. Seals out dust or foreign matter when disconnected.
7. Low pressure drop.



Curves represent pressure drop in both directions of flow.

## 1/2 inch size

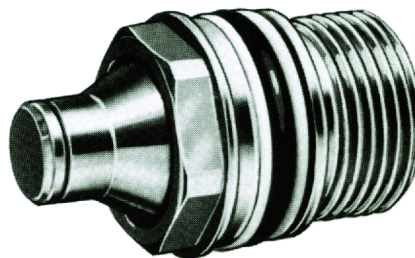


**AE97486H**  
Female Half

Pressure Information (Installed in Receptacle)

MIN BURST:	7,500 PSIG
PROOF:	4,500 PSIG
OPERATING:	3,000 PSIG
Max Weight (Lbs)	.092

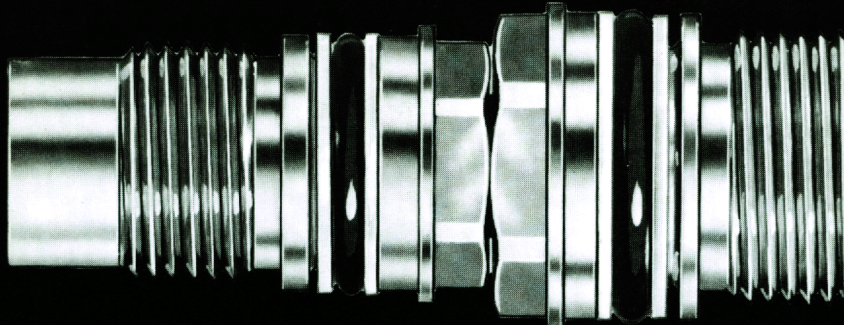
**NOTE:** O-Rings and Back-Up Rings not included.



**AE97485H**  
Male Half

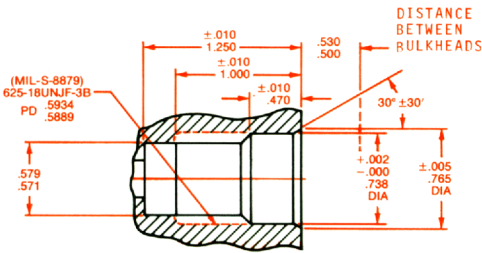
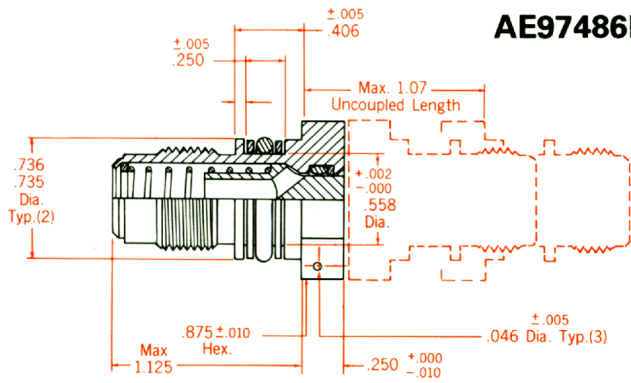
Pressure Information: (Installed in Receptacle)

	CONNECTED POSITION	DISCONNECTED POSITION
MIN BURST:	7,500 PSIG	1,250 PSIG
PROOF:	4,500 PSIG	750 PSIG
OPERATING:	3,000 PSIG	500 PSIG
Max Weight (Lbs)	.165	

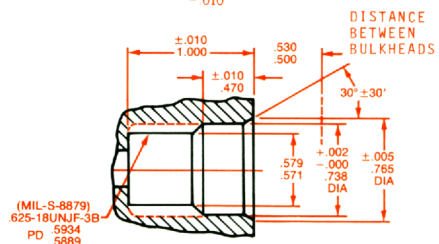
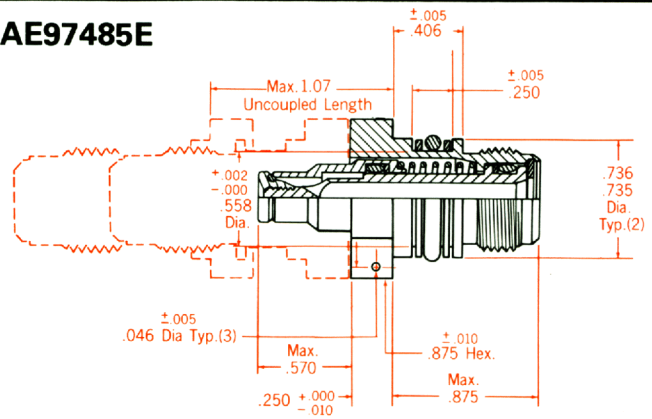


**AE97486H**  
Female Half  
(Mounted in Aircraft)

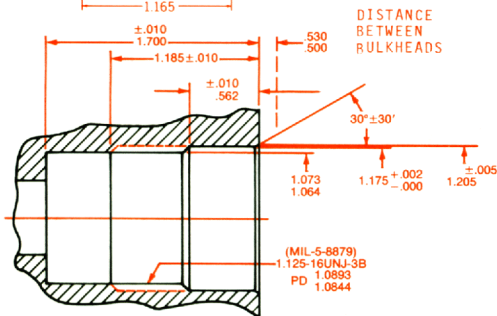
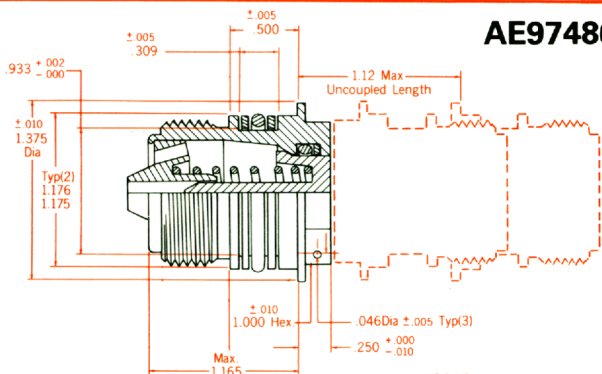
**AE97485H**  
Male Half  
(Mounted in Accessory)

**AE97486E**

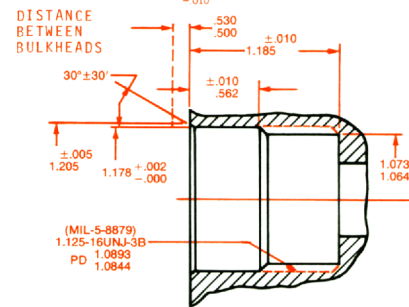
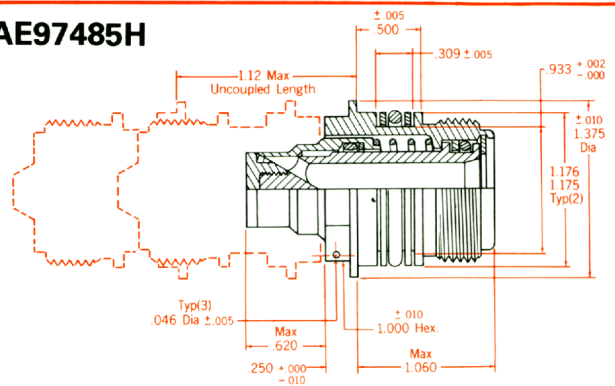
(Receptacle Dimensions)

**AE97485E**

(Receptacle Dimensions)

**AE97486H**

(Receptacle Dimensions)

**AE97485H**

(Receptacle Dimensions)



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**AEROQUIP CORPORATION / JACKSON, MICHIGAN, U.S.A.**

**A TRIUNOVA COMPANY**

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