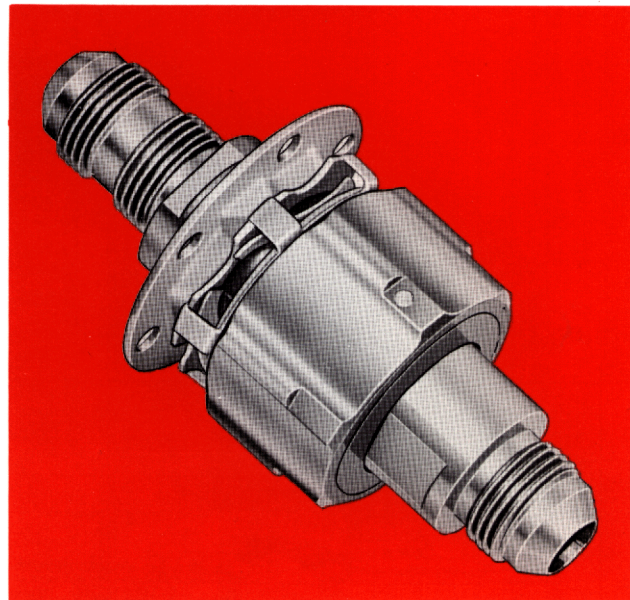


## Hydraulic Self-Sealing Coupling / 155-145 Series

Aircraft and Ground Service quick disconnects...in accordance with MIL-C-5502 and MIL-H-5440C for Type 1 (-65°F to +160°F) Hydraulic Systems.

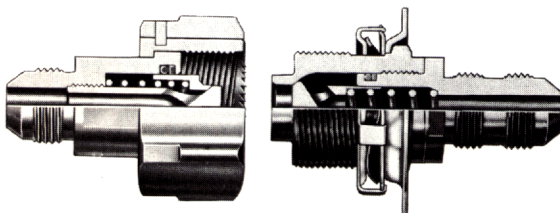
Aeroquip 155-145 Series Self-Sealing Couplings speed inspection and servicing or replacement of the power plant and other aircraft fluid system components. Fluid lines may be disconnected and connected rapidly with virtually no loss of fluid or introduction of air into the system. Draining fluid, repriming and bleeding air from the system are unnecessary. Removal and replacement of aircraft components becomes a matter of minutes, rather than hours.

The dependability of the 155/145 Series has been proven through years of service on Aircraft. It is also the standard hydraulic ground service quick disconnect for USAF, Army and Naval Aircraft and most commercial aircraft. (Ref. Design spec. MIL-H-5440C)

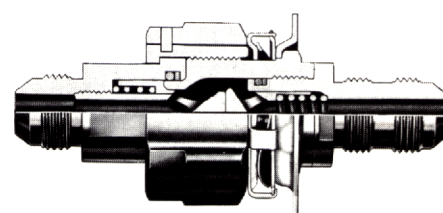


### Principles of Operation

The 155/145 series couplings, incorporating quick-lead threads, are easily connected/disconnected by hand with a simple turning motion. During connection, ratchet teeth on the inner sleeve of the union nut engage a unique lock spring assembly assuring positive locking even under extreme vibration. The lock is automatically released during disconnection. The tubular valve/sleeve and guided poppet combination assure positive valve opening with minimum fluid loss and air inclusion characteristics.



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COUPLED

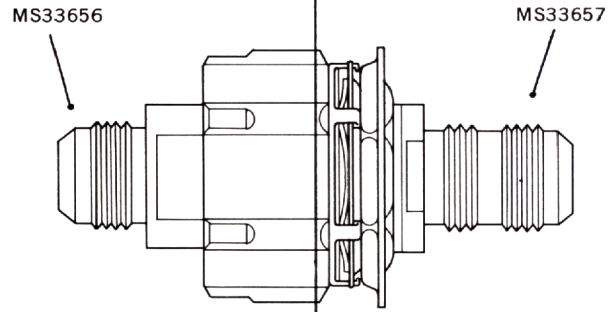
## Coupling Part Numbers

Part numbers shown are standard for Type 1 Hydraulic systems. (Ref. MIL-H-5440C and Fleet Aviation Supply Office Field Notice 4000)

Material—Aluminum body with steel flange and lock spring assembly

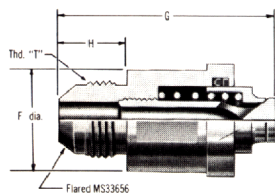
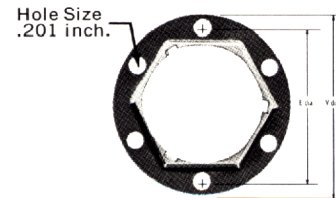
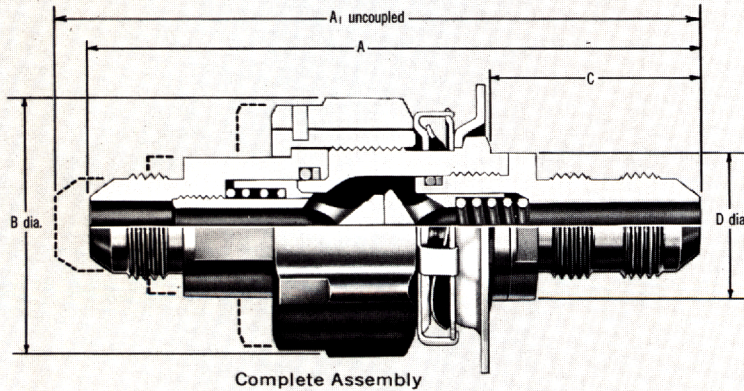
Select coupling part number for desired configuration style from chart at right. Couplings may be ordered by halves or by complete coupling assembly. Hose attaching half is designated S5 when union nut is included. Bulkhead mounting half includes mounting flange and lock spring assembly.

Style I

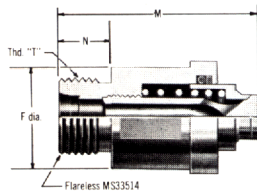


	Hose Attaching Half	Coupling Assembly	Bulkhead Mounting Half	
<b>DASH SIZE</b>	—4	155-S5-4D	155-4D	TB155-S4-4D
	—5	155-S5-5D	155-5D	TB155-S4-5D
	—6	155-S5-6D	155-6D	TB 155-S4-6D
	—8	155-S5-8D	155-8D	TB 155-S4-8D
	—10	155-S5-10D	155-10D	TA155-S4-10D
	—12	155-S5-12D	155-12D	TA155-S4-12D
	—16	155-S5-16D	155-16D	TA155-S4-16D
	—20	145-S5-20D	145-20D	B145-S4-20D
—24	145-S5-24D	145-24D	B145-S4-24D	

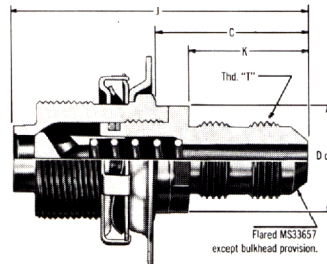
## Coupling Dimensions



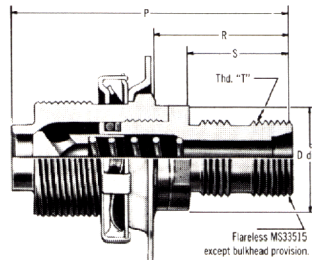
**Coupling Half, Hose Attaching (S1)**  
(Less Union Nut)  
T150-S1-size D (—4 thru —16)  
B140-S1-size D (—20 and —24)



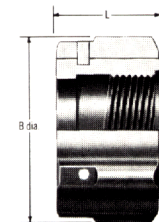
**Coupling Half, Hose Attaching (S1)**  
(Less Union Nut)  
3060-S1-size D (—4 thru —24)



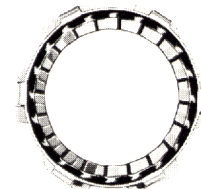
**Coupling Half, Bulkhead Mounting (S4)**



**Coupling Half, Bulkhead Mounting (S4)**



**Union Nut**  
E155-25-size (—4 thru —16)  
E145-25-size (—20 thru —24)

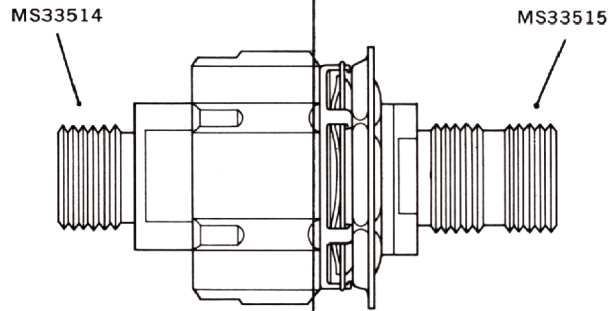
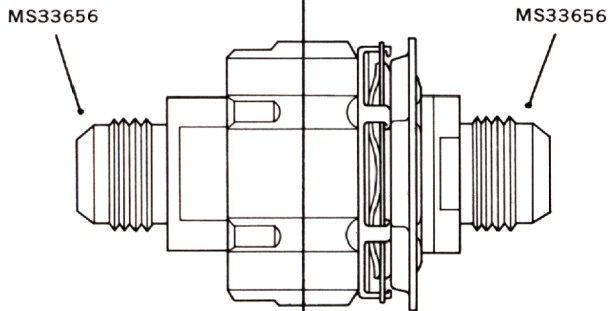


**C155-37 Lock Spring**

COUPLING NOMENCLATURE

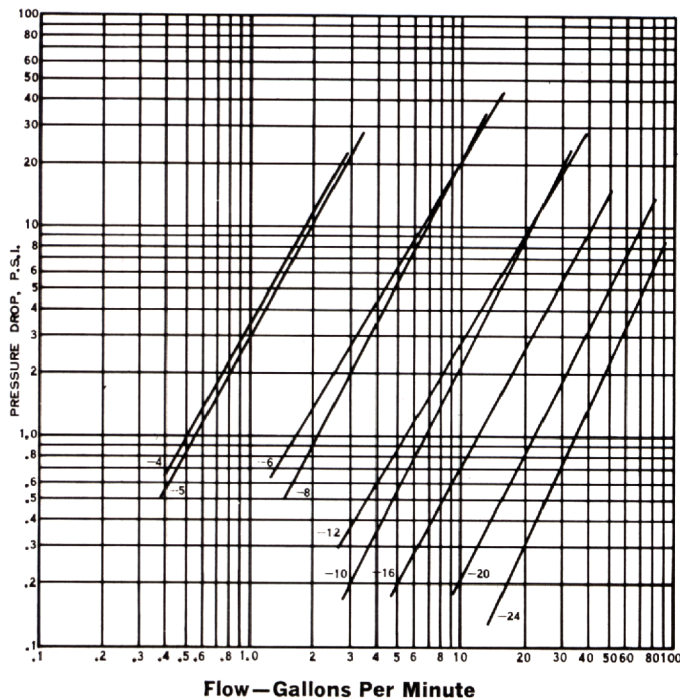
Style II

Style III



	Hose Attaching Half	Coupling Assembly	Bulkhead Mounting Half	Hose Attaching Half	Coupling Assembly	Bulkhead Mounting Half
	155-S5-4D	015519-4D	TB015519-S4-4D	3065-S5-4D	3065-4D	TB3005-S4-4D
	155-S5-5D	015519-5D	TB015519-S4-5D	3065-S5-5D	3065-5D	TB3005-S4-5D
	155-S5-6D	015519-6D	TB015519-S4-6D	3065-S5-6D	3065-6D	TB3005-S4-6D
	155-S5-8D	015519-8D	TB015519-S4-8D	3065-S5-8D	3065-8D	TB3005-S4-8D
	155-S5-10D	015519-10D	T015519-S4-10D	3065-S5-10D	3065-10D	B3005-S4-10D
	155-S5-12D	015519-12D	T015519-S4-12D	3065-S5-12D	3065-12D	B3005-S4-12D
	155-S5-16D	015519-16D	015519-S4-16D	3075-S5-16D	3070-16D	3070-S4-16D
	145-S5-20D	014519-20D	014519-S4-20D	3065-S5-20D	3065-20D	A3005-S4-20D
	145-S5-24D	014519-24D	014519-S4-24D	3065-S5-24D	3065-24D	B3005-S4-24D

Tube End Size	DIMENSIONS (INCHES)									
	-4	-5	-6	-8	-10	-12	-16	-20	-24	
Operating Pressure	3000	3000	3000	3000	3000	3000	3000	1000	1000	
Style I A	3.46	3.32	3.91	4.19	4.93	5.06	5.33	5.20	5.41	
Style II A	3.10	2.97	3.47	3.68	4.43	4.47	4.79	4.66	4.98	
Style III A	3.39	3.26	3.81	4.05	4.80	4.81	4.70	5.17	5.28	
Style I A <sub>1</sub>	3.83	3.70	4.39	4.68	5.63	5.76	6.15	5.87	6.20	
Style II A <sub>1</sub>	3.47	3.34	3.96	4.16	5.13	5.17	5.61	5.33	5.76	
Style III A <sub>1</sub>	3.76	3.63	4.30	4.53	5.50	5.50	5.33	5.84	6.07	
B	1.58	1.58	1.80	1.80	2.44	2.44	2.72	3.14	3.43	
Style I C	1.10	1.10	1.31	1.49	1.68	1.86	1.79	1.83	1.82	
Style II C	.74	.74	.87	.97	1.17	1.28	1.25	1.29	1.38	
Style III C	.94	.94	.98	1.13	1.27	1.38	1.56	1.71	1.68	
D	.80	.80	1.02	1.02	1.47	1.47	1.74	1.98	2.24	
E	1.44	1.44	1.69	1.69	2.12	2.12	2.38	2.62	2.88	
F	.74	.74	.96	.96	1.37	1.37	1.62	1.88	2.12	
G	1.61	1.48	1.79	1.90	2.47	2.40	2.60	2.49	2.70	
H	.55	.55	.56	.66	.76	.86	.91	.96	1.08	
J	2.16	2.16	2.54	2.72	3.10	3.29	3.49	3.33	3.45	
K	.91	.91	.99	1.17	1.26	1.45	1.45	1.50	1.52	
L	.93	.93	1.07	1.07	1.30	1.30	1.54	1.12	1.24	
M	1.52	1.38	1.71	1.80	2.33	2.23	2.55	2.58	2.71	
N	.45	.45	.47	.56	.62	.69	.69	.69	.69	
P	2.19	2.19	2.53	2.68	3.11	3.22	3.41	3.20	3.30	
R	1.13	1.13	1.30	1.44	1.68	1.79	1.71	1.70	1.68	
S	.94	.94	.98	1.12	1.27	1.38	1.38	1.38	1.38	
T	1/16-20	1/2-20	3/16-18	3/4-16	7/8-14	1 1/16-12	1 1/16-12	1 5/8-12	1 7/8-12	
V	1.81	1.81	2.00	2.00	2.50	2.50	2.75	3.00	3.25	
Wgt-Lbs	Style I	.247	.252	.377	.409	.845	.851	1.198	1.278	1.602
	Style II	.242	.246	.367	.394	.834	.823	1.166	1.094	1.202
	Style III	.244	.218	.367	.398	.558	.767	1.141	1.248	1.592



**Pressure loss vs. flow (MIL-H-5606)**

Pressure loss . . . to find the pressure loss for a given coupling size at a given flow rate, 1) find flow rate at bottom of chart and read up until line intersects the curve for the coupling size in question, 2) read across to find the pressure loss.

Example for Ordering

**TB155-S4-4D**

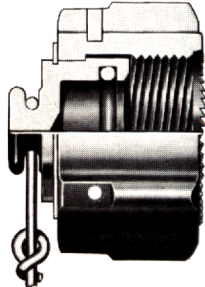
- Size & Material (Tube O.D. in 1/16's")
- Bulkhead Half (Includes Flange & Lockspring Assembly)
- Basic Number—designates end style

**Couplings for other fluids and end fitting combinations**

Part numbers for MIL-H-5606 hydraulic applications for Type 1 systems (-65°F to +160°F) are listed inside. 155/145 series couplings are available with other end fitting combinations, materials and with packings for many commonly used fluids for elevated temperature service such as phosphate ester based hydraulic fluids.

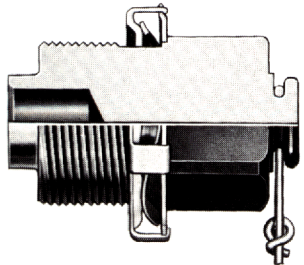
Write for additional information on 155/145 series couplings to meet your specific requirements.

**Dust Caps, Plugs and Chain**




155-S7-size Dust Cap with Chain (size—4 thru—16)

145-S7-size Dust Cap with Chain (size—20 and—24)



155-S9-size Dust Plug with Chain (size—4 thru—16)

145-S9-size Dust Plug with Chain (size—20 and—24)



5100-S10-size Chain

Union nut, lock spring, flange, dust plug and dust cap size 5 is used on coupling half sizes 4 and 5; size 8 on coupling half sizes 6 and 8; and size 12 on coupling half sizes 10 and 12.

Chain size 5 is used on dust cap size 5 only; Chain size 8 is used on plug sizes 5, 8 and 12 and cap sizes 8 and 12; Chain size 12 is used on cap and plug sizes 16, 20 and 24.



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