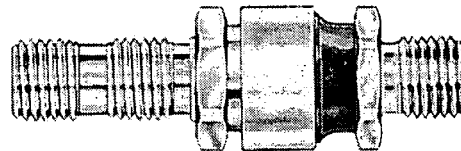
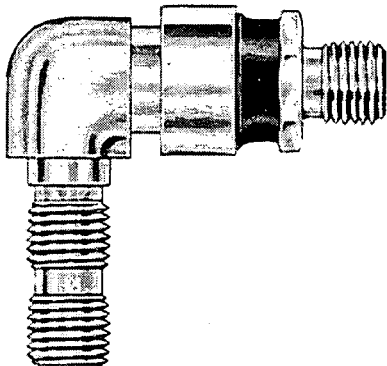




Aerospace Advance Product News

New! Low Profile 4,000 and 5,000 PSI Swivel Joints



(Flareless fitting style shown)

Currently Being Qualified to MIL-J-5513C

Aeroquip is currently developing new 4,000 and 5,000 psi ball bearing swivel joints for use on the C-17, ATF, ATA and V-22.

DESIGN FEATURES

- Ball bearings to minimize torque while maximizing service life.
- Titanium material reduces weight.
- Dust seal excludes grit contamination from the ball bearings and seals for increased service life.

DESIGN DATA

Service: Swivel joints are designed for use in MIL-H-83282 hydraulic systems.

Material: Titanium

Pressure Ratings:	Operating	4,000 psi	5,000 psi
	Proof	8,000 psi	10,000 psi
	Burst	16,000 psi	20,000 psi

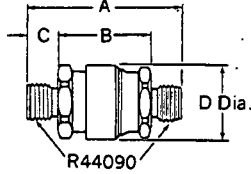
Temperature Range: -65° F. to +275° F.

End Fittings: Dynatube* or Flareless

NOTE: Revision C of MIL-J-5513 requires 100,000 endurance cycles. Aeroquip currently testing -6 and -10 sizes at twice the impulse and side loads of MIL-J-5513C for Type II Class 5,000 psi swivel for V-22.

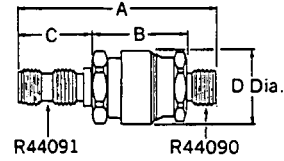
*Dynatube is a Resistoflex trademark

4,000 PSI Swivel Joints with Dynatube Ends



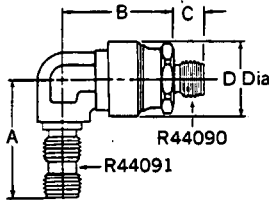
Size	A Ref	B Ref	C ±.015	D Max	Wt. (Lbs.)
-4	1.52	.97	.275	.795	.09
-6	1.72	1.12	.295	.990	.14
-8	1.87	1.25	.308	1.185	.22
-10	2.17	1.42	.372	1.315	.30
-12	2.39	1.56	.412	1.515	.43
-16	2.71	1.79	.460	1.780	.69

All dimensions in inches.



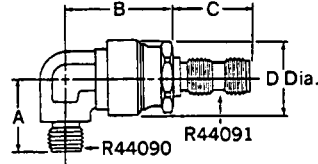
Size	A Ref	B Ref	C ±.015	D Max	Wt. (Lbs.)
-4	1.92	.97	.680	.795	.11
-6	2.14	1.12	.719	.990	.16
-8	2.31	1.25	.755	1.185	.26
-10	2.69	1.42	.894	1.315	.36
-12	2.97	1.56	.990	1.515	.52
-16	3.33	1.79	1.082	1.780	.80

All dimensions in inches.



Size	A Ref	B Ref	C ±.015	D Max	Wt. (Lbs.)
-4	1.12	1.28	.275	.795	.14
-6	1.25	1.48	.295	.990	.23
-8	1.35	1.71	.308	1.185	.37
-10	1.59	1.92	.372	1.315	.53
-12	1.79	2.17	.412	1.515	.92
-16	2.01	2.45	.460	1.780	1.45

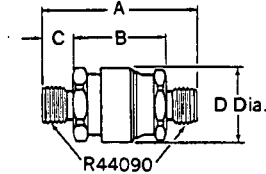
All dimensions in inches.



Size	A Ref	B Ref	C ±.015	D Max	Wt. (Lbs.)
-4	.71	1.28	.680	.795	.14
-6	.83	1.48	.719	.990	.23
-8	.90	1.71	.755	1.185	.37
-10	1.07	1.92	.894	1.315	.53
-12	1.21	2.17	.990	1.515	.92
-16	1.39	2.45	1.082	1.780	1.45

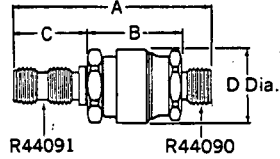
All dimensions in inches.

5,000 PSI Swivel Joints with Dynatube Ends



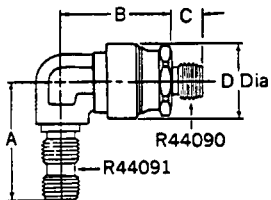
Size	A Ref	B Ref	C ±.015	D Max	Wt. (Lbs.)
-4	1.52	.97	.275	.795	.09
-6	2.04	1.45	.295	1.100	.21
-8	TBD	TBD	.308	TBD	TBD
-10	2.48	1.74	.372	1.545	.48

All dimensions in inches.



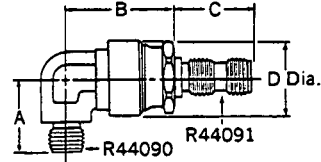
Size	A Ref	B Ref	C ±.015	D Max	Wt. (Lbs.)
-4	1.92	.97	.275	.795	.11
-6	2.47	1.45	.295	1.100	.22
-8	TBD	TBD	.308	TBD	TBD
-10	3.10	1.74	.372	1.545	.55

All dimensions in inches.



Size	A Ref	B Ref	C ±.015	D Max	Wt. (Lbs.)
-4	1.12	1.28	.275	.795	.14
-6	1.54	1.57	.295	1.100	.25
-8	TBD	TBD	.308	TBD	TBD
-10	1.74	2.10	.372	1.545	.65

All dimensions in inches.



Size	A Ref	B Ref	C ±.015	D Max	Wt. (Lbs.)
-4	.71	1.28	.680	.795	.14
-6	1.05	1.57	.719	1.100	.25
-8	TBD	TBD	.755	TBD	TBD
-10	1.15	2.10	.894	1.545	.65

All dimensions in inches.