

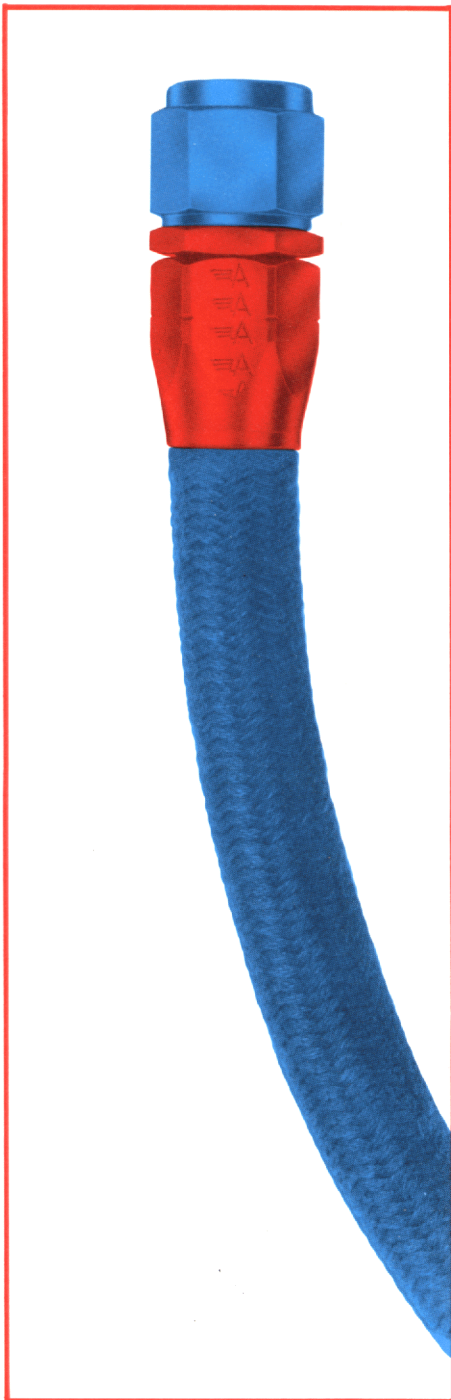


AEROSPACE ENGINEERING BULLETIN

HOSE/FITTINGS

AEB

244A



Aeroquip AE501 AQP[®] Hose Assemblies with Braided Polyester Chafe Guard

for long life,
high performance
hose lines conveying
fuel, lube oil or coolants



AE501 AQP hose lets you maintain the light weight, low profile and the same minimum bend radius as AE701 AQP hose, with the highly abrasion-resistant characteristics of an integral braided polyester sleeve. AE501 AQP hose lines last many times longer and provide high performance in demanding power plant and air frame applications. AE501 AQP hose is manufactured by braiding polyester yarn over the wire braid of AE701 AQP hose.

AE501 AQP Hose

(AE701 AQP Hose with Polyester Cover)



The braided polyester outer cover over AE701 hose adds minimal weight and provides superior chafe resistance. Flexibility is not impaired, and the increase in O.D. is less than .100" for all sizes. For more information on AE701 hose, ask for AEB-230. It explains how the size and complexity of hose inventory can be reduced because of hose compatibility with nearly all fluids.

How It's Made:

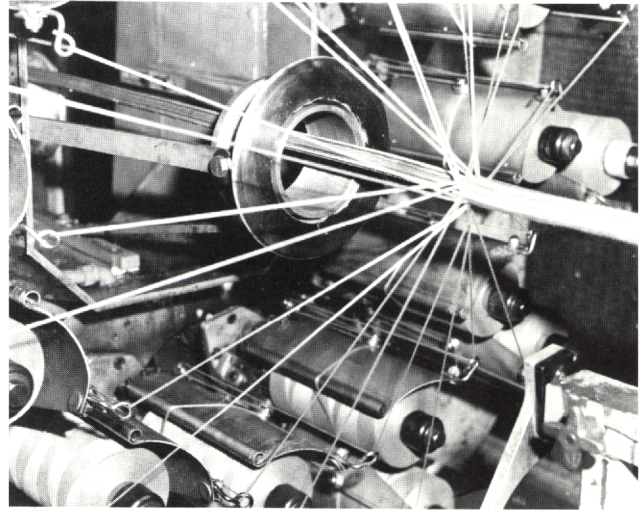
Inner Tube: seamless, specially formulated AQP synthetic compound.

Reinforcement: stainless steel wire braid consisting of partial inner braid and full coverage outer braid.

Cover: Braided abrasion resistant polyester.

Specifications:

Fluid Compatibility: versatile inner tube is compatible with nearly all petroleum-based oils, aviation gas, JP fuels,



The tough polyester yarn is braided over wire-braid cover and becomes an integral part of the hose.

synthetic-based fluids, including MIL-L-7808 and MIL-L-23699 lubricating fluids. Unaffected by alcohols, coolants and solvents commonly used in aerospace systems.

Operating Temperatures: -65° to +275°F.

Testing: AE501 assemblies have been subjected to extensive qualification tests. Data available upon request.

Note: Consult Aeroquip for approval before using AE501 hose in hydraulic impulse pressure applications.

Dimensional Data

Hose Size	O.D. Tube Size	I.D. Min.	O.D. Max.	Min. Tube Gage	Room Temp. Min. Burst Pressure (PSIG)	Proof Pressure (PSIG)	Operating Pressure (PSIG)	Min. Bend Radius	Weight lbs/ft.
-4	.250	.204	.550	.075	6000	3000	1000	2.00	.138
-6	.375	.329	.659	.085	6000	3000	1000	2.50	.184
-8	.500	.415	.761	.080	5000	2500	1000	3.50	.204
-10	.625	.539	.895	.088	5000	2500	1000	4.00	.248
-12	.750	.665	1.053	.094	4000	2000	1000	4.50	.333
-16	1.000	.844	1.265	.109	3000	1500	750	5.50	.439
-20	1.250	1.094	1.526	.094	2000	1300	500	8.00	.636

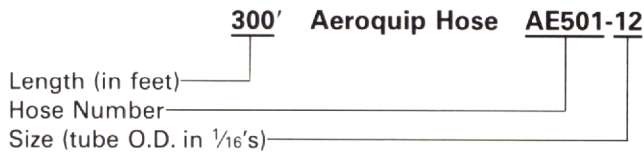
NOTE: The above hose sizes are also available as Aeroquip AE503 hose (601 hose with integral polyester chafe guard). Contact Aeroquip.

All dimensions in inches.

How To Order

BULK HOSE

To order Aeroquip AE501 hose, simply state the length desired, followed by the part number and the size, as indicated in the example below.



BULK FITTINGS

Contact your nearest Aeroquip Aerospace distributor or write to Advertising Department, Aeroquip Corporation, Aerospace Division, 300 South East Avenue, Jackson, Michigan 49203-1972. Request Aerospace Engineering Bulletin AEB-230. It contains the complete line of **"little gem"**® reusable fittings.

How to Order AE501 Hose Assemblies

STRAIGHT and SINGLE ELBOW ASSEMBLIES




AE7010000E0184

Base number for all straight and single elbow assemblies using AE501 hose.

Assembly length in inches always four digits, last digit indicates fractional length in 1/16's of an inch.

SIZE CODE

Hose Dash Size	-4	-6	-8	-10	-12	-16	-20
Letter Code	E	G	H	J	K	M	N

FITTING CONFIGURATION	FITTING CONFIGURATION		FITTING MATERIAL
	37° FLARED	FLARELESS	
 Straight to Straight	AE7013128	AE7013120	Steel/ Aluminum Socket
	AE7013110	AE7013121	Aluminum
 Straight to 45° Elbow	AE7013129	AE7013122	Steel/ Aluminum Socket
	AE7013111	AE7013123	Aluminum
 Straight to 90° Elbow	AE7013130	AE7013124	Steel/ Aluminum Socket
	AE7013112	AE7013125	Aluminum

How To Order

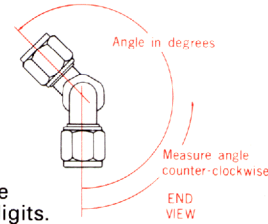
DOUBLE ELBOW ASSEMBLIES

AE7000E0184-225

AE7000 series applies to double elbow assemblies using AE501 hose.




Elbow position angle expressed in three digits.

Assembly length always four digits, last digit indicates fractional length in 1/8's of an inch.



SIZE CODE

Hose Dash Size	-4	-6	-8	-10	-12	-16	-20
Letter Code	E	G	H	J	K	M	N

FITTING CONFIGURATION	37° FLARED		FITTING MATERIAL
	FLARELESS	FLARELESS	
 45° Elbow to 45° Elbow	AE7071	AE7065	Steel/ Aluminum Socket
	AE7058	AE7066	Aluminum
 45° Elbow to 90° Elbow	AE7072	AE7067	Steel/ Aluminum Socket
	AE7059	AE7068	Aluminum
 90° Elbow to 90° Elbow	AE7073	AE7069	Steel/ Aluminum Socket
	AE7060	AE7070	Aluminum

See AEB-230 for "little gem"® fitting data.

How To Assemble AE501 Hose Assemblies with "little gem" Straight and Elbow Fittings is explained in ASB-128. Contact Aeroquip.



Aerospace Group

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