



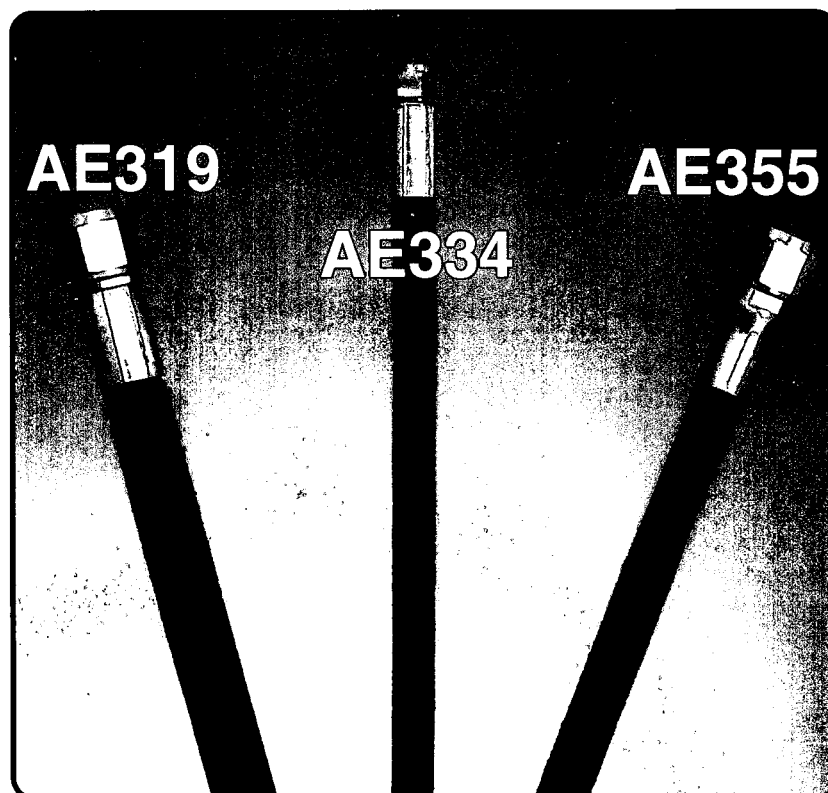
AEROSPACE ENGINEERING BULLETIN

HOSE/FITTINGS

AA

173

KEVLAR® Reinforced High Pressure Teflon® Hose Assemblies



- **Light Weight**
- **Integral Abrasion Resistance**
- **Qualified to Industry Standards**
- **Compatible with Aerospace Fluids**
- **Available for 3000, 4000 or 5000 psi Applications**

KEVLAR® Reinforced High Pressure Teflon® Hose And Fittings

General Characteristics

With its Kevlar® reinforced hose product line, Aeroquip meets the challenge of the Aerospace Industry's continuing requirements for weight savings, superior performance and increased value.

The same Kevlar® fiber that is used in bulletproof vests is used as the reinforcement material for Aeroquip AE319, AE334 and AE355 hose styles. The result is light weight hose assemblies that are capable of handling hydraulic pressures up to 5000 psi.

Kevlar® is the registered trademark for DuPont's family of high temperature resistant aramid fibers having a unique combination of toughness and exceptional thermal stability. These properties offer the means to increase strength and reduce the weight of reinforcement in Aeroquip hose.

The Teflon® tube used in Aeroquip's Kevlar® reinforced high pressure Teflon® hose is manufactured to the same stringent requirements as the tube used in our wire reinforced hoses. Inherent resiliency and toughness are built into the extruded tube by close control of factors affecting crystallinity. The extruded tube has a tough, smooth, waxlike texture which resists erosion and has sufficient conductivity to prevent electrostatically-induced hose failures.

Application Data

Aeroquip Kevlar® reinforced Teflon® hose is suitable for use with fuels, lube oils, hydraulic fluids, coolants or solvents commonly used in aircraft applications. Superior vibration resistance and low volumetric expansion make these hoses ideal for high pressure hydraulic system applications.

The Aeroquip Kevlar® reinforced Teflon® hoses shown in this bulletin are rated according to the listed industry specifications. These various ratings are

for specific service conditions involving specified temperature, pressure and impulse conditions. In many cases, a specific rating can be successfully exceeded if other variables are modified. Thus a higher operating pressure might be allowable if temperature and impulse life are modified. Our trained application engineers are available to help with recommendations for special applications with the support of our test facilities and experienced technical staff.

Hose assemblies can be fitted with Aeroquip AE102 (AS1072) style firesleeve for fire protection.

Identification

A white layline consisting of "Aeroquip", hose part number and size and specification number (where applicable) is printed along the length of the hose.

Fittings

Fittings are available in both flareless and ArcSeal® styles to mate with MS33514 and MIL-F-85421 end connections. In addition, elbow fittings are available in standard 45° and 90° styles. Contact Aeroquip about special fittings for custom installations.

Fitting Material

AE319/AE334 FITTINGS

Nut - Ti-6Al-4V (AMS4928 or AMS4965)

Wire - 305 CRES (AMS 5685) or 302 CRES (AMS 5637)

Nipple - Ti-6Al-4V (AMS4965)

Socket - 304 CRES (QQ-S-763 and AMS 5639)

AE355 FITTINGS

Nut - Ti-6Al-4V (AMS4928 or AMS4965)

Wire - 305 CRES (AMS 5685) or 302 CRES (AMS 5637)

Nipple - Ti-6Al-4V (AMS4965 or AMS 4928)

Socket - Commercially pure titanium (ASTM B 348 Grade 2)

ArcSeal® is a registered trademark of Aeroquip Corporation

AE319 Heavy Duty Hose

3000/4000 psi Operating Pressure



Hose Data

Dash Size →	-4	-6	-8	-10	-12	-16
O.D. Tube Size	1/4	3/8	1/2	5/8	3/4	1
Hose I.D. (min.)	.212	.298	.391	.485	.602	.852
Hose O.D. (max)	.510	.655	.855	.915	1.165	1.470
Max. Operating Pressure (psi)	4000	4000	4000	4000	4000	3000
Proof Pressure (psi)	8000	8000	8000	8000	8000	6000
Min. High Temp. Burst Pressure (psi)	12,000	12,000	12,000	12,000	12,000	9000
Min. Room Temp. Burst Pressure (psi)	16,000	16,000	16,000	16,000	16,000	12,000
Minimum Bend Radius	1.50	2.50	2.88	3.25	4.00	7.50
Nominal Weight per Inch (lbs.)	.0073	.0104	.0167	.0200	.0324	.0432

All dimensions in inches

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

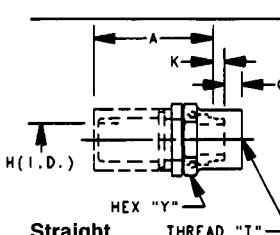
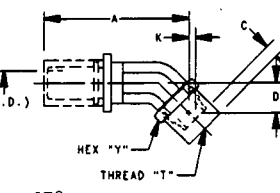
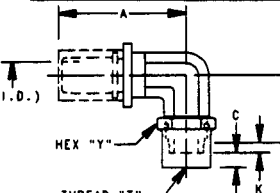
Construction: Extruded, conductive Teflon® inner tube, with one (-4 size), two (-6 through -10 sizes) or three (-12 and -16 sizes) layers of full-coverage Kevlar® reinforcement and a full-coverage black PBI / Kevlar® (-4 through -12 sizes) or black polyester (-16 size) outer braid.

Industry Specifications: Meets the requirements of SAE specification AS4623 for heavy duty 3000 psi operation. Qualified to Aeroquip specifications for 4000 psi operation.

FAA Approvals: All sizes are certified to TSO-C75, Type II-B-S/P.

AE319 Fittings and Hose Assemblies













3000 psi Flareless Fitting Dimensions

	Dash Size	*Nipple Assembly	Max. A	C Ref.	Nom. D	Min. H	K Ref.	Thread T	Hex Y Ref.	Nom. Wt. (lbs.) w/Socket
 <p>Straight</p>	-4	AE32821E	1.50	.17	—	.142	.158	.4375-20 UNJF-3B	.563	.051
	-6	AE32821G	1.73	.16	—	.243	.167	.5625-18 UNJF-3B	.688	.074
	-8	AE32821H	2.07	.18	—	.342	.192	.7500-16 UNJF-3B	.875	.123
	-10	AE32821J	2.15	.20	—	.412	.204	.8750-14 UNJF-3B	1.000	.178
	-12	AE32821K	3.00	.20	—	.525	.231	1.0625-12 UNJ-3B	1.250	.435
	-16	AE32821M	3.44	.13	—	.760	.300	1.3125-12 UNJ-3B	1.500	.792
 <p>45°</p>	-4	AE32898E	1.84	.17	.370	.142	.112	.4375-20 UNJF-3B	.563	.060
	-6	AE32898G	2.09	.16	.454	.243	.118	.5625-18 UNJF-3B	.688	.083
	-8	AE32898H	2.46	.18	.534	.342	.136	.7500-16 UNJF-3B	.875	.133
	-10	AE32898J	2.53	.20	.598	.412	.144	.8750-14 UNJF-3B	1.000	.208
	-12	AE32898K	3.45	.20	.648	.525	.163	1.0625-12 UNJ-3B	1.250	.521
	-16	AE32898M	4.28	.13	.778	.760	.212	1.3125-12 UNJ-3B	1.500	.904
 <p>90°</p>	-4	AE32822E	1.63	.17	.672	.142	.158	.4375-20 UNJF-3B	.563	.065
	-6	AE32822G	1.84	.16	.814	.243	.167	.5625-18 UNJF-3B	.688	.092
	-8	AE32822H	2.17	.18	.932	.342	.192	.7500-16 UNJF-3B	.875	.143
	-10	AE32822J	2.21	.20	1.184	.412	.204	.8750-14 UNJF-3B	1.000	.211
	-12	AE32822K	3.12	.20	1.352	.525	.231	1.0625-12 UNJ-3B	1.250	.530
	-16	AE32822M	3.91	.13	1.599	.760	.300	1.3125-12 UNJ-3B	1.500	.938

*Nipple assembly part number does not include socket

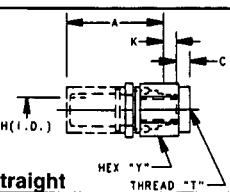
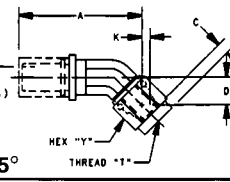
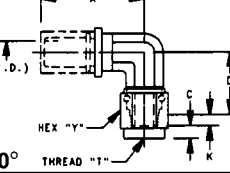
All dimensions in inches

3000 psi Hose Assemblies - Flareless to Flareless

A	B	Dash Sizes	Assembly Base No.	Nipple A Part No.	Nipple B Part No.	Socket Part No.
		-4 thru -16	AC127	AE32821	AE32821	AE28571
AS4624						
		-4 thru -16	AC128	AE32821	AE32898	AE28571
AS4625						
		-4 thru -16	AC129	AE32821	AE32822	AE28571
AS4626						
		-4 thru -16	AC137	AE32898	AE32898	AE28571
AS4627						
		-4 thru -16	AC138	AE32898	AE32822	AE28571
AS4628						
		-4 thru -16	AC139	AE32822	AE32822	AE28571
AS4629						

AE319 Fittings and Hose Assemblies













4000 psi Flareless Fitting Dimensions

	Dash Size	*Nipple Assembly	Max. A	C Ref.	Nom. D	Min. H	K Ref.	Thread T	Hex Y Ref.	Nom. Wt. (lbs.) w/Socket
 <p>Straight</p>	-4	AE29572E	1.50	.17	—	.142	.158	.4375-20UNJF-3B	.563	.053
	-6	AE29572G	1.73	.16	—	.243	.167	.5625-18UNJF-3B	.688	.079
	-8	AE29572H	2.07	.18	—	.342	.192	.7500-16UNJF-3B	.875	.129
	-10	AE29572J	2.15	.20	—	.412	.204	.8750-14UNJF-3B	1.000	.182
	-12	AE29572K	3.00	.20	—	.525	.231	1.0625-12UNJ-3B	1.250	.450
 <p>45°</p>	-4	AE29574E	1.84	.17	.370	.142	.112	.4375-20UNJF-3B	.563	.062
	-6	AE29574G	2.09	.16	.454	.243	.118	.5625-18UNJF-3B	.688	.086
	-8	AE29574H	2.46	.18	.534	.342	.136	.7500-16UNJF-3B	.875	.139
	-10	AE29574J	2.53	.20	.598	.412	.144	.8750-14UNJF-3B	1.000	.212
	-12	AE29574K	3.45	.20	.648	.525	.163	1.0625-12UNJ-3B	1.250	.535
 <p>90°</p>	-4	AE29576E	1.63	.17	.672	.142	.158	.4375-20UNJF-3B	.563	.067
	-6	AE29576G	1.84	.16	.814	.243	.167	.5625-18UNJF-3B	.688	.095
	-8	AE29576H	2.17	.18	.932	.342	.192	.7500-16UNJF-3B	.875	.148
	-10	AE29576J	2.21	.20	1.184	.412	.204	.8750-14UNJF-3B	1.000	.216
	-12	AE29576K	3.12	.20	1.352	.525	.231	1.0625-12UNJ-3B	1.250	.544

*Nipple assembly part number does not include socket

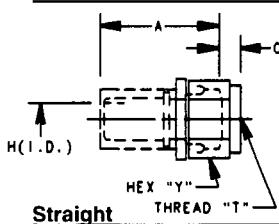
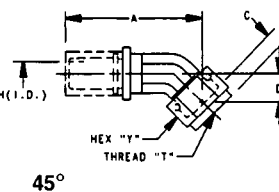
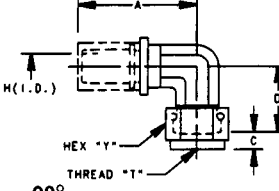
All dimensions in inches

4000 psi Hose Assemblies - Flareless to Flareless

A	B	Dash Sizes	Assembly Base No.	Nipple A Part No.	Nipple B Part No.	Socket Part No.
		-4 thru -12	AC240	AE29572	AE29572	AE28571
		-4 thru -12	AC241	AE29572	AE29574	AE28571
		-4 thru -12	AC242	AE29572	AE29576	AE28571
		-4 thru -12	AC243	AE29574	AE29574	AE28571
		-4 thru -12	AC244	AE29574	AE29576	AE28571
		-4 thru -12	AC245	AE29576	AE29576	AE28571

AE319 Fittings and Hose Assemblies

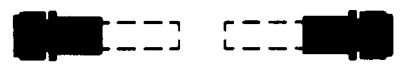
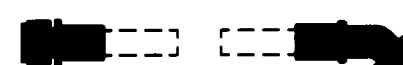
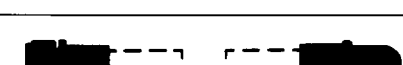
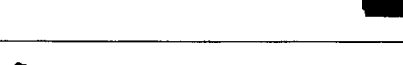
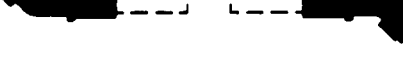
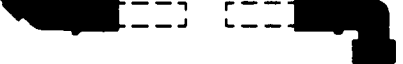
3000/4000 psi ArcSeal® Fitting Dimensions

	Dash Size	*Nipple Assembly	Max. A	C Ref.	Nom. D	Min. H	Thread T	Hex Y Ref.	Nom. Wt. (lbs.) w/Socket
 <p>Straight</p>	-4	AE31640E	1.43	.206	—	.142	.4375-24 UNJS-3B	.563	.048
	-6	AE31640G	1.62	.214	—	.243	.5625-20 UNJS-3B	.688	.069
	-8	AE31640H	1.90	.227	—	.342	.7188-20 UNJS-3B	.875	.110
	-10	AE31640J	1.94	.283	—	.412	.8438-18 UNJS-3B	1.000	.154
	-12	AE31640K	2.76	.312	—	.525	1.0000-16 UNJ-3B	1.188	.397
	-16**	AE31640M	3.14	.347	—	.760	1.2500-16 UNJS-3B	1.500	.765
 <p>45°</p>	-4	AE31641E	1.79	.206	.318	.142	.4375-24 UNJS-3B	.563	.056
	-6	AE31641G	2.01	.214	.375	.243	.5625-20 UNJS-3B	.688	.076
	-8	AE31641H	2.38	.227	.448	.342	.7188-20 UNJS-3B	.875	.120
	-10	AE31641J	2.38	.283	.446	.412	.8438-18 UNJS-3B	1.000	.184
	-12	AE31641K	3.36	.312	.559	.525	1.0000-16 UNJ-3B	1.188	.487
	-16**	AE31641M	4.06	.347	.566	.760	1.2500-16 UNJS-3B	1.500	.875
 <p>90°</p>	-4	AE31642E	1.63	.206	.599	.142	.4375-24 UNJS-3B	.563	.061
	-6	AE31642G	1.84	.214	.702	.243	.5625-20 UNJS-3B	.688	.084
	-8	AE31642H	2.17	.227	.861	.342	.7188-20 UNJS-3B	.875	.130
	-10	AE31642J	2.21	.283	.970	.412	.8438-18 UNJS-3B	1.000	.187
	-12	AE31642K	3.12	.312	1.123	.525	1.0000-16 UNJ-3B	1.188	.491
	-16**	AE31642M	3.91	.347	1.299	.760	1.2500-16 UNJS-3B	1.500	.909

*Nipple assembly part number does not include socket

All dimensions in inches

3000/4000 psi Hose Assemblies - ArcSeal® to ArcSeal®

A	B	Dash Sizes	Assembly Base No.	Nipple A Part No.	Nipple B Part No.	Socket Part No.
		-4 thru -16**	AC246	AE31640	AE31640	AE28571
		-4 thru -16**	AC247	AE31640	AE31641	AE28571
		-4 thru -16**	AC248	AE31640	AE31642	AE28571
		-4 thru -16**	AC249	AE31641	AE31641	AE28571
		-4 thru -16**	AC250	AE31641	AE31642	AE28571
		-4 thru -16**	AC251	AE31642	AE31642	AE28571

** -16 size is only qualified for operating pressures of 3000 psi and below

AE355 Standard Duty Hose

3000/4000 psi Operating Pressure



Hose Data

Dash Size →	-4	-6	-8	-10
O.D. Tube Size	1/4	3/8	1/2	5/8
Hose I.D. (min.)	.212	.298	.391	.485
Hose O.D. (max)	.455	.555	.715	.880
Max. Operating Pressure (psi)	3000/4000	3000/4000	3000/4000	3000/4000
Proof Pressure (psi)	8000	8000	8000	8000
Min. High Temp. Burst Pressure (psi)	12,000	12,000	12,000	12,000
Min. Room Temp. Burst Pressure (psi)	16,000	16,000	16,000	16,000
Minimum 3000 psi Bend Radius	1.50	2.50	2.88	3.25
Minimum 4000 psi Bend Radius	1.50	2.50	5.75	6.50
Nominal Weight per Inch (lbs.)	.0053	.0071	.0111	.0159

All dimensions in inches

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

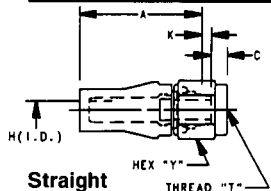
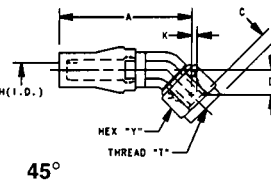
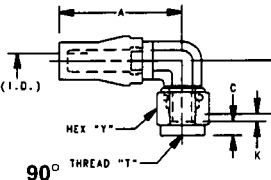
Construction: Extruded, conductive Teflon® inner tube, with one (-4 through -8 sizes) or two (-10 size) layers of full-coverage Kevlar® reinforcement and a full-coverage black polyester outer braid.

Industry Specifications: Meets the requirements of SAE specification AS1975 for 3000/4000 psi operation.

FAA Approvals: All sizes are certified to TSO-C75, Type II-B-S/P.

AE355 Fittings and Hose Assemblies

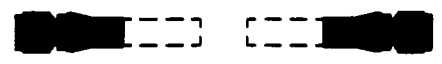

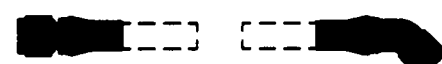

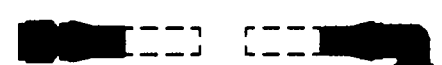

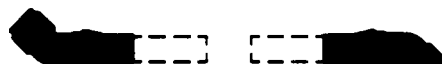

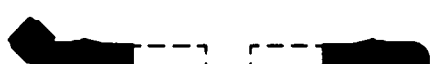

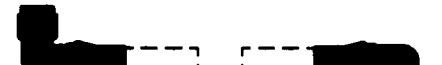

3000/4000 psi Flareless Fitting Dimensions

	Dash Size	*Fitting Assembly	Max. A	C Ref.	Nom. D	Min. H	K Ref.	Thread T	Hex Y Ref.	Nom. Wt. (lbs.) w/Socket
	-4	AE32631E	1.58	.17	—	.135	.158	.4375-20 UNJF-3B	.563	.040
	-6	AE32631G	1.83	.16	—	.245	.167	.5625-18 UNJF-3B	.688	.068
	-8	AE32631H	2.03	.18	—	.340	.192	.7500-16 UNJF-3B	.875	.109
	-10	AE32631J	2.25	.20	—	.410	.204	.8750-14 UNJF-3B	1.000	.170
	-4	AE32894E	2.01	.17	.370	.135	.112	.4375-20 UNJF-3B	.563	.049
	-6	AE32894G	2.31	.16	.454	.245	.118	.5625-18 UNJF-3B	.688	.087
	-8	AE32894H	2.55	.18	.534	.340	.136	.7500-16 UNJF-3B	.875	.126
	-10	AE32894J	2.77	.20	.598	.410	.144	.8750-14 UNJF-3B	1.000	.216
	-4	AE32646E	1.79	.17	.672	.135	.158	.4375-20 UNJF-3B	.563	.056
	-6	AE32646G	2.06	.16	.814	.245	.167	.5625-18 UNJF-3B	.688	.090
	-8	AE32646H	2.25	.18	.932	.340	.192	.7500-16 UNJF-3B	.875	.135
	-10	AE32646J	2.45	.20	1.184	.410	.204	.8750-14 UNJF-3B	1.000	.218

*Fitting assembly part number does not include socket

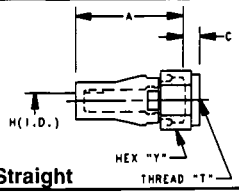
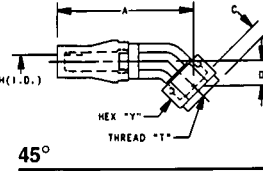
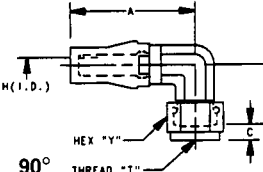
All dimensions in inches

3000/4000 psi Hose Assemblies - Flareless to Flareless

A	B	Dash Sizes	Assembly Base No.	Fitting A Part No.	Fitting B Part No.
		-4 thru -10	AC130	AE32631	AE32631
		-4 thru -10	AC131	AE32631	AE32894
		-4 thru -10	AC132	AE32631	AE32646
		-4 thru -10	AC133	AE32894	AE32894
		-4 thru -10	AC134	AE32894	AE32646
		-4 thru -10	AC135	AE32646	AE32646

AE355 Fittings and Hose Assemblies

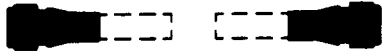
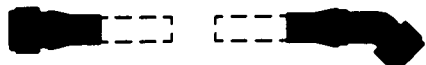

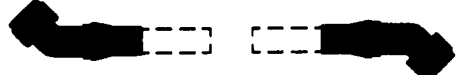
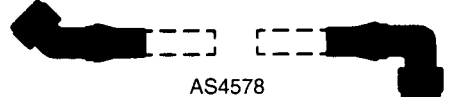
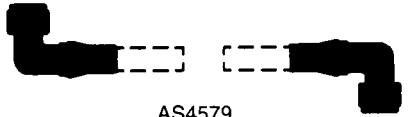
3000/4000 psi ArcSeal® Fitting Dimensions

	Dash Size	*Fitting Assembly	Max. A	C Ref.	Nom. D	Min. H	Thread T	Hex Y Ref.	Nom. Wt. (lbs.) w/Socket
 <p>Straight</p>	-4	AE36553E	1.52	.206	—	.135	.4375-24 UNJS-3B	.563	.036
	-6	AE36553G	1.72	.214	—	.245	.5625-20 UNJS-3B	.688	.059
	-8	AE36553H	1.90	.227	—	.340	.7188-20 UNJS-3B	.875	.094
	-10	AE36553J	2.03	.283	—	.410	.8438-18 UNJS-3B	1.000	.144
 <p>45°</p>	-4	AE37200E	1.97	.206	.331	.135	.4375-24 UNJS-3B	.563	.044
	-6	AE37200G	2.22	.214	.375	.245	.5625-20 UNJS-3B	.688	.077
	-8	AE37200H	2.42	.227	.410	.340	.7188-20 UNJS-3B	.875	.107
	-10	AE37200J	2.62	.283	.446	.410	.8438-18 UNJS-3B	1.000	.187
 <p>90°</p>	-4	AE37225E	1.79	.206	.599	.135	.4375-24 UNJS-3B	.563	.051
	-6	AE37225G	2.06	.214	.703	.245	.5625-20 UNJS-3B	.688	.080
	-8	AE37225H	2.25	.227	.756	.340	.7188-20 UNJS-3B	.875	.116
	-10	AE37225J	2.45	.283	.901	.410	.8438-18 UNJS-3B	1.000	.187

*Fitting assembly part number does not include socket

All dimensions in inches

3000/4000 psi Hose Assemblies - ArcSeal® to ArcSeal®

A	B	Dash Sizes	Assembly Base No.	Fitting A Part No.	Fitting B Part No.
		-4 thru -10	AC140	AE36553	AE36553
		-4 thru -10	AC141	AE36553	AE37200
		-4 thru -10	AC142	AE36553	AE37225
		-4 thru -10	AC143	AE37200	AE37200
		-4 thru -10	AC144	AE37200	AE37225
		-4 thru -10	AC145	AE37225	AE37225

AE334 Hose

5000 psi Operating Pressure



Hose Data

Dash Size →	-3	-4	-6	-8	-10
O.D. Tube Size	3/16	1/4	3/8	1/2	5/8
Hose I.D. (min.)	.176	.212	.298	.422	.515
Hose O.D. (max)	.460	.580	.735	.830	.965
Max. Operating Pressure (psi)	5000	5000	5000	5000	5000
Proof Pressure (psi)	10,000	10,000	10,000	10,000	10,000
Min. High Temp. Burst Pressure (psi)	17,000	17,000	17,000	17,000	17,000
Min. Room Temp. Burst Pressure (psi)	20,000	20,000	20,000	20,000	20,000
Minimum Bend Radius	1.25	1.50	2.50	2.88	3.25
Nominal Weight per Inch (lbs.)	.0067	.0101	.0149	.0190	.0233

All dimensions in inches

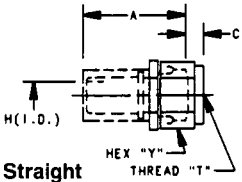
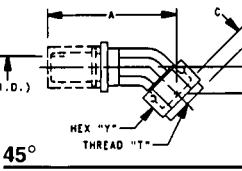
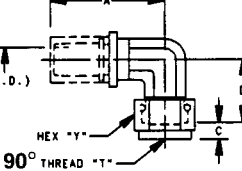
Temperature Range: -65° F. to +275° F.

Industry Specifications: Meets the performance requirements of MIL-H-85800 for 5000 psi operation.

Construction: Extruded, conductive Teflon® inner tube, with two (-3 through -6 sizes) or three (-8 and -10 sizes) layers of full-coverage Kevlar® reinforcement and a full-coverage black PBI / Kevlar® outer braid.

AE334 Fittings and Hose Assemblies













5000 psi ArcSeal® Fitting Dimensions

	Dash Size	*Nipple Assembly	Max. A	C Ref.	Nom. D	Min. H	Thread T	Hex Y Ref.	Nom. Wt. (lbs.) w/Socket
 <p>Straight</p>	-3	AE31643B	1.65	.173	—	.100	.3750-28 UNJS-3B	.500	.052
	-4	AE31643E	1.69	.206	—	.142	.4375-24 UNJS-3B	.563	.057
	-6	AE31643G	2.03	.214	—	.230	.5625-20 UNJS-3B	.688	.096
	-8	AE31643H	2.30	.227	—	.340	.7188-20 UNJS-3B	.875	.151
	-10	AE31643J	2.83	.283	—	.408	.8438-18 UNJS-3B	1.000	.227
 <p>45°</p>	-3	AE31644B	2.07	.173	.334	.100	.3750-28 UNJS-3B	.500	.063
	-4	AE31644E	2.13	.206	.345	.142	.4375-24 UNJS-3B	.563	.074
	-6	AE31644G	2.45	.214	.376	.230	.5625-20 UNJS-3B	.688	.110
	-8	AE31644H	2.76	.227	.436	.340	.7188-20 UNJS-3B	.875	.161
	-10	AE31644J	3.28	.283	.446	.408	.8438-18 UNJS-3B	1.000	.257
 <p>90°</p>	-3	AE31646B	1.89	.173	.635	.100	.3750-28 UNJS-3B	.500	.064
	-4	AE31646E	1.94	.206	.673	.142	.4375-24 UNJS-3B	.563	.076
	-6	AE31646G	2.26	.214	.742	.230	.5625-20 UNJS-3B	.688	.122
	-8	AE31646H	2.57	.227	.866	.340	.7188-20 UNJS-3B	.875	.186
	-10	AE31646J	3.13	.283	.981	.408	.8438-18 UNJS-3B	1.000	.260

*Nipple assembly part number does not include socket

All dimensions in inches

5000 psi Hose Assemblies - ArcSeal® to ArcSeal®

A	B	Dash Sizes	Assembly Base No.	Nipple A Part No.	Nipple B Part No.	Socket Part No.
		-3 thru -10	AC252	AE31643	AE31643	AE29050
		-3 thru -10	AC253	AE31643	AE31644	AE29050
		-3 thru -10	AC254	AE31643	AE31646	AE29050
		-3 thru -10	AC255	AE31644	AE31644	AE29050
		-3 thru -10	AC256	AE31644	AE31646	AE29050
		-3 thru -10	AC257	AE31646	AE31646	AE29050

How to Complete Hose Assembly Part Numbers

The part numbers shown here represent standard configurations with materials, markings and cleaning requirements conforming to the related military or aerospace standards as they apply. If your requirements differ from these standards, the hose assemblies you order will be assigned new customer specific part numbers by Aeroquip.

Example of Aeroquip Part Number
AC129HA0242SSU

<p>Base Part Number and Hose Size Code</p> <p>Silicone Firesleeve Use "-" if Sleeve is Not Required</p> <p>Length of Assembly in Inches</p> <p>Fraction of an Inch in Eighths</p> <p>Straight Fitting 90° Fitting</p> <p>Lockwire Holes <i>U-Two Lockwire Holes</i> <i>W-Three Lockwire Holes</i> <i>Leave Character Space Blank if Lockwire Holes are Not Required</i></p>	
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R-Step Down One Size
S-Hose Size
E-Step Up One Size

On assemblies with an elbow fitting on each end, measure the orientation angle as shown above. Add the angle measurement as a suffix to the base part number. In all cases, the angle should be expressed in 3 digits. For example, 90° should be written 090. If the angle desired is 0°, specify 000.

Example of Aeroquip Part Number
AC139HA242U270

<p>Base Part Number and Hose Size Code</p> <p>Silicone Firesleeve Use "-" if Sleeve is Not Required</p> <p>Length of Assembly in Inches</p> <p>Fraction of an Inch in Eighths</p> <p>Lockwire Holes <i>U-Two Lockwire Holes</i> <i>W-Three Lockwire Holes</i> <i>Use "-" if Lockwire Holes are Not Required</i></p> <p>Orientation Angle in 1° Increments</p>	
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The length for flareless hose assemblies can be measured to the end of the nipple or to the gage point, as referenced in NAS1760. When defining the part number length, use the length between the gage points. The "K" dimension shows the distance between the end of the nipple and the gage point (reference pages 4, 5 and 8).

This part number format is consistent with the SAE AS part number format.

Hose Dash Size	3	4	6	8	10	12	16
Letter Code	B	E	G	H	J	K	M

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