# Aeroquip®
## Convoluted PTFE Hose

**Combines the routing flexibility of light weight rubber hose with the temperature range and fluid compatibility of PTFE hose.**

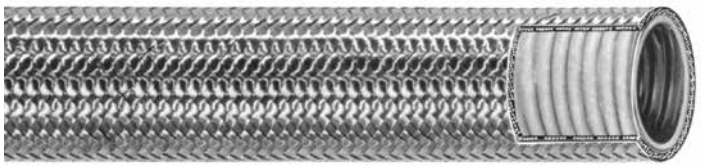
Powering Business Worldwide

# Table of Contents

# Design Features

- Increase flexibility — excellent for use where a tight bend radius is required
- Lightweight
- Crimp fitting design provides excellent retention and sealing characteristics
- Operating temperatures: -65ºF to +400ºF (-54ºC to +204ºC)
- TSO C53a, Type A and Type C and TSO C75, Type II-A-S/P approvals
- Available with integral silicone fire protection cover and integral polyester chafeguard
- Available in wide size range, -4 through -32
- Qualified to AS620 and AS1055
- Available with flared and flareless style end fittings (mates with AS4395 and AS33514 end connections)
- Contact Eaton for other end fitting design options.

## AE641 Hose



**Construction:** Convoluted PTFE inner tube with conductive inner liner. Corrosion resistant stainless steel wire braid reinforcement.

**Application:** Hydraulic return, fuel, engine oil and coolant lines for aircraft and ground support applications.

**Operating Temperature Range:** -65ºF to +400ºF (-54ºC to +204ºC)

**Basic Specification:** AS620; TSO C53a, Type A; TSO C75, Type II-A-S/P approvals.

## AE441/AE443 Hose

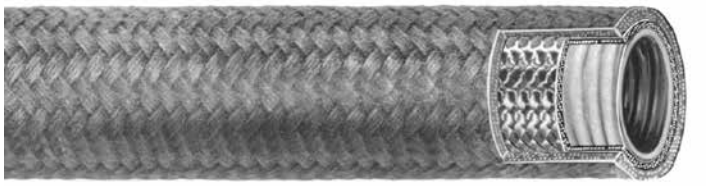
**Construction:** AE641 hose with an integral cover of silicone rubber compound.

**Application:** Hydraulic return, fuel, engine oil and coolant lines for aircraft and ground support applications.

**Operating Temperature Range:** -65ºF to +400ºF (-54ºC to +204ºC)

**Basic Specification:** AS620; AS1055, Type IIb, Class B; TSO C53a, Type C and TSO C75, Type II-A-S/P-F approvals.

## AE541 Hose



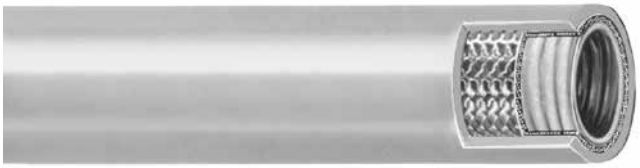
**Construction:** AE641 hose overlaid with a blue braided chafeguard cover of tough polyester yarn.

**Application:** Hydraulic return, fuel, engine oil and coolant lines for aircraft and ground support applications.

**Operating Temperature Range:** -65ºF to +300ºF (-54ºC to +149ºC)

**Basic Specification:** AS620 standards with the exception of upper temperature range limits; TSO C53a, Type A; TSO C75, Type II-A-S/P approvals.

## AE841 Hose



**Construction:** AE641 hose overlaid with a thin wall integral cover of silicone rubber compound.

**Application:** Hydraulic return, fuel, engine oil and coolant lines for aircraft and ground support applications.

**Operating Temperature Range:** -65ºF to +400ºF (-54ºC to +204ºC)

**Basic Specification:** AS620; AS1055, Type IIb, Class B; TSO C53a, Type C; TSO C75, Type II-A-S/P-F approvals.

## Minimum Bend Radius Comparison

| Hose Size | AS620 (AE641 Hose) | MIL-H-25579 (Conventional Smooth Bore) |
|---|---|---|
| **-4** | 1.25 | 2.00 |
| **-6** | 2.25 | 4.00 |
| **-8** | 2.88 | 4.62 |
| **-10** | 3.00 | 5.50 |
| **-12** | 3.75 | 6.50 |
| **-16** | 5.00 | 7.38 |
| **-20** | 6.25 | 11.00 |
| **-24** | 7.50 | 14.00 |
| **-32** | 10.00 | — |

Minimum bend radius values shown are for standard operating pressures. Contact Eaton for reduced bend radius recommendations at lower operating pressures.

| | |
|---|---|
| **Standard Fitting Material Specifications** | Nut — CRES, AMS 5639 (304) |
| | Wire — CRES, AMS 5685 (305) |
| | Nipple — CRES, AMS 5639 (304) for sizes -6 through -10 |
| | Nipple — CRES, AMS 5659 (15 - 5PH) for sizes -12 through -32 |
| | Socket — CRES, AMS 5639 (304) |

Contact Eaton for alternative fitting materials.

## Hose Dimensions and Performance Data

| | HOSE FITTING | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | -4 | -6 | -8 | -10 | -12 | -16 | -20 | -24 | -32 |
| AE641 Hose O.D. (Max.) | .477 | .587 | .787 | .882 | 1.092 | 1.325 | 1.558 | 1.820 | 2.357 |
| AE441 Hose O.D. (Max.) | .76 | .860 | 1.055 | 1.150 | 1.385 | 1.610 | 1.840 | 2.120 | — |
| AE443 Hose O.D. (Max.) | — | — | — | — | — | — | — | — | 2.520 |
| AE841 Hose O.D. (Max.) | .693 | .803 | 1.003 | 1.098 | 1.308 | 1.485 | 1.774 | 1.980 | — |
| AE541 Hose O.D. (Max.) | .532 | .640 | .840 | .950 | 1.150 | 1.377 | 1.625 | 1.900 | 2.400 |
| Hose I.D. (Min.) | 2.75 | .355 | .520 | .600 | .790 | .990 | 1.220 | 1.490 | 1.980 |
| Minimum Bend Radius (inches) | 1.25 | 2.25 | 2.88 | 3.00 | 3.75 | 5.00 | 6.25 | 7.50 | 10.00 |
| Vacuum Data (max. inches Hg.) | 28 | 28 | 28 | 28 | 28 | 28 | 20 | 12 | 5 |
| Operating Pressure (PSI/MPA) | 1000<br>6,89 | 1000<br>6,89 | 1000<br>6,89 | 1000<br>6,89 | 1000<br>6,89 | 1000<br>6,89 | 1000<br>6,89 | 750<br>5,17 | 250<br>1,72 |
| Proof Pressure (PSI/MPA) | 2000<br>13,79 | 2000<br>13,79 | 2000<br>13,79 | 1800<br>12,41 | 1800<br>12,41 | 1800<br>12,41 | 1800<br>12,41 | 1500<br>10,34 | 500<br>3,45 |
| Minimum Burst Pressure (PSI/MPA) | 4000<br>27,58 | 4000<br>27,58 | 3600<br>24.82 | 3600<br>24,82 | 3600<br>24,82 | 3600<br>24,82 | 3600<br>24,82 | 3000<br>20,68 | 1000<br>6,89 |
| AE641 Hose Wt. (Lb./In.) (Kgs/M) | .008<br>,143 | .008<br>,142 | .013<br>,231 | .017<br>,303 | .026<br>,463 | .032<br>,570 | .040<br>,712 | .050<br>,890 | .066<br>1,775 |
| AE441 Hose Wt. (Lb./In.) (Kgs/M) | .022<br>,393 | .025<br>,445 | .035<br>,625 | .041<br>,729 | .055<br>,979 | .068<br>1,214 | .075<br>1,335 | .090<br>1,607 | — |
| AE443 Hose Wt. (Lb./In.) (Kgs/M) | — | — | — | — | — | — | — | --- | .113<br>2,014 |
| AE841 Hose Wt. (Lb./In.) (Kgs/M) | .017<br>,304 | .019<br>,341 | .028<br>,500 | .032<br>,570 | .043<br>,770 | .049<br>,876 | .068<br>1,216 | .070<br>1,240 | — |
| AE541 Hose Wt. (Lb./In.) (Kgs/M) | .009<br>,161 | .013<br>,232 | .018<br>,329 | .019<br>,339 | .035<br>,625 | .044<br>,786 | .054<br>,964 | .057<br>1,018 | .072<br>1,286 |

All dimensions in inches.

Fittings are ordered by combining a nipple assembly and socket. Order each by part number. Example:

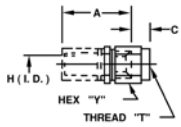
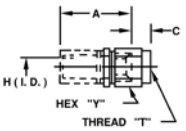
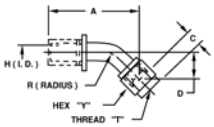
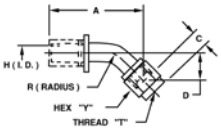
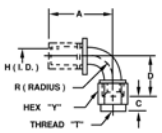
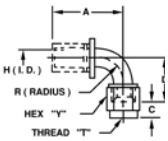
AE24850G + AE24204G

Nipple Assembly Part Number

Socket Part Number

Socket must be ordered under Eaton's part number AE24204/AE33767 (letter size code is the same as nipple assembly).

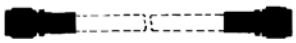
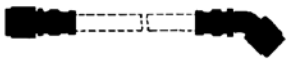
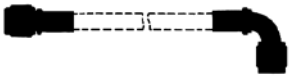
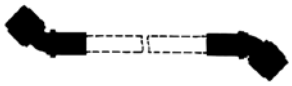
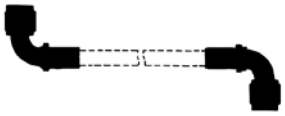
Socket AE24204 (Size code: E through J)
Socket AE33767 (Size code: K through R)

| | Hose Size | Nipple Assembly | Max. A | C | Nom. D | Min. H | R* | Thread T | Hex Y | Weight** (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Straight** | **-4** | AE24850E | 1.19 | .37 | — | .170 | — | .4375-20UNJF | .56 | .16 |
|  | **-6** | AE24850G | 1.27 | .38 | — | .271 | — | .5626-18UNJF | .69 | .10 |
| | **-8** | AE24850H | 1.41 | .43 | — | .360 | — | .7500-16UNJF | .88 | .17 |
| | **-10** | AE24850J | 1.58 | .50 | — | .479 | — | .8750-14UNJF | 1.00 | .22 |
| **AE24850 E, G, H, J** | | | | | | | | | | |
| **Straight** | **-12** | AE36900K | 1.67 | .57 | — | .650 | — | 1.0625-12UNJ | 1.25 | .35 |
|  | **-16** | AE36900M | 1.75 | .60 | — | .854 | — | 1.3125-12UNJ | 1.50 | .48 |
| | **-20** | AE36900N | 2.09 | .64 | — | 1.100 | — | 1.6250-12UNJ | 1.81 | .71 |
| | **-24** | AE36900P | 2.19 | .74 | — | 1.325 | — | 1.8750-12UNJ | 2.13 | 1.08 |
| | **-32** | AE36900R | 2.33 | .92 | — | 1.840 | — | 2.5000-12UNJ | 2.75 | 1.71 |
| **AE36900 K through R** | | | | | | | | | | |
| **45° Elbow** | **-4** | AE25093E | 1.75 | .37 | .389 | .170 | .375 | .4375-20UNJF | .56 | .07 |
|  | **-6** | AE25093G | 1.82 | .38 | .479 | .271 | .500 | .5625-18UNJF | .69 | .10 |
| | **-8** | AE25093H | 1.90 | .44 | .509 | .360 | .500 | .7500-16UNJF | .88 | .17 |
| | **-10** | AE25093J | 2.15 | .50 | .573 | .479 | .625 | .8750-14UNJF | 1.00 | .23 |
| **AE25093 E, G, H, J** | | | | | | | | | | |
| **45° Elbow** | **-12** | AE37091K | 2.39 | .57 | .625 | .596 | .844 | 1.0625-12UNJ | 1.25 | .36 |
|  | **-16** | AE37091M | 2.50 | .63 | .682 | .795 | .969 | 1.3125-12UNJ | 1.50 | .52 |
| | **-20** | AE37091N | 3.00 | .64 | .802 | 1.026 | 1.188 | 1.6250-12UNJ | 1.81 | .74 |
| | **-24** | AE37091P | 3.15 | .77 | .868 | 1.258 | 1.375 | 1.8750-12UNJ | 2.12 | 1.10 |
| | **-32** | AE37091R | 3.47 | .92 | 1.032 | 1.720 | 1.750 | 2.5000-12UNJ | 2.75 | 1.67 |
| **AE37091 K through R** | | | | | | | | | | |
| **90° Elbow** | **-4** | AE25092E | 1.58 | .37 | .770 | .170 | .375 | .4375-20UNJF | .56 | .07 |
|  | **-6** | AE25092G | 1.63 | .38 | .971 | .271 | .500 | .5625-18UNJF | .69 | .11 |
| | **-8** | AE25092H | 1.69 | .44 | 1.014 | .360 | .500 | .7500-16UNJF | .88 | .17 |
| | **-10** | AE25092J | 1.94 | .50 | 1.176 | .479 | .625 | .8750-14UNJF | 1.00 | .27 |
| **AE25092 E, G, H, J** | | | | | | | | | | |
| **90° Elbow** | **-12** | AE36902K | 2.26 | .57 | 1.378 | .596 | .844 | 1.0625-12UNJ | 1.25 | .38 |
|  | **-16** | AE36902M | 2.39 | .63 | 1.532 | .795 | .969 | 1.3125-12UNJ | 1.50 | .56 |
| | **-20** | AE36902N | 2.90 | .64 | 1.830 | 1.026 | 1.188 | 1.6250-12UNJ | 1.81 | .80 |
| | **-24** | AE36902P | 3.08 | .77 | 2.033 | 1.258 | 1.375 | 1.8750-12UNJ | 2.12 | 1.19 |
| | **-32** | AE36902R | 3.46 | .92 | 2.484 | 1.720 | 1.750 | 2.5000-12UNJ | 2.75 | 1.98 |
| **AE36902 K through R** | | | | | | | | | | |

All dimensions in inches.

Max. A = Maximum length of fitting, including socket, when fitting is assembled on hose.
Nom. D = Nominal drop dimensions. Tolerance is ± .035" on bent tube fittings.
*R = Radius of elbow measured to centerline.
**Weight = nipple assembly plus socket (nominal).

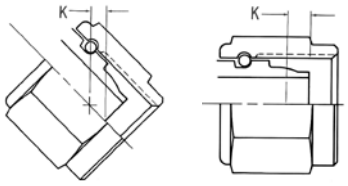
# Hose Assemblies/Swivel Flared to Swivel Flared

| Configurations A B | Hose Size | AE641 Hose Assembly Base No. | AE441 Hose (Silicone Cover) Assembly Base No. | AE541 Hose (Polyester Chafeguard) Assembly Base No. | AE841 Hose (Thin Wall Silicone Cover) Assembly Base No. | Nipple A Part No. | Nipple B Part No. |
|---|---|---|---|---|---|---|---|
|  **Straight to Straight** | -4 thru -32 | AE1010556 | AE1010565* | AE1010573 | AE1014077** | AE24850 (-4 thru -10)<br>AE36900 (-12 thru -32) | AE24850 (-4 thru -10)<br>AE36900 (-12 thru -32) |
|  **Straight to 45°** | -4 thru -32 | AE1010557 | AE1010566* | AE1010651 | AE1014078** | AE24850 (-4 thru -10)<br>AE36900 (-12 thru -32) | AE25093 (-4 thru -10)<br>AE37091 (-12 thru -32) |
|  **Straight to 90°** | -4 thru -32 | AE1010558 | AE1010567* | AE1010652 | AE1014079** | AE24850 (-4 thru -10)<br>AE36900 (-12 thru -32) | AE25092 (-4 thru -10)<br>AE36902 (-12 thru -32) |
|  **45° to 45°** | -4 thru -32 | AE3948 | AE3954* | AE3972 | AE5553** | AE25093 (-4 thru -10)<br>AE37091 (-12 thru -32) | AE25093 (-4 thru -10)<br>AE37091 (-12 thru -32) |
|  **45° to 90°** | -4 thru -32 | AE3949 | AE3955* | AE3973 | AE5554** | AE25093 (-4 thru -10)<br>AE37091 (-12 thru -32) | AE25092 (-4 thru -10)<br>AE36902 (-12 thru -32) |
|  **90° to 90°** | -4 thru -32 | AE3950 | AE3956* | AE3974 | AE5555** | AE25092 (-4 thru -10)<br>AE36902 (-12 thru -32) | AE25092 (-4 thru -10)<br>AE36902 (-12 thru -32) |

*Contact Eaton for -32 (AE443) hose assembly part numbers.
** Not available in -32 size.

See page 8 for hose assembly part number information.

### Distance to Sealing Point




K = Gauge point location per NAS 1760

Socket must be ordered separately under Eaton's part number AE24204/AE33767 (letter size code is the same as nipple assembly).

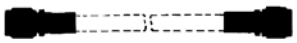
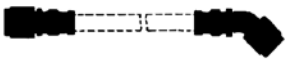
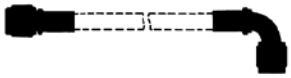
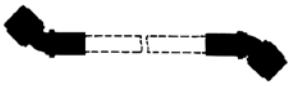
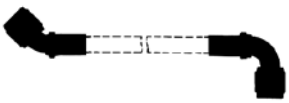
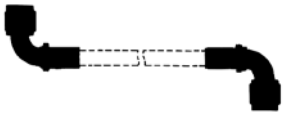
Socket AE24204 (Size code: E through J)
Socket AE33767 (Size code: K through R)

| | Hose Size | Nipple Assembly | Max. A | C | Nom. D | Min. H | K | R* | Thread T | Hex Y | Weight** (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Straight** | **-4** | AE24851E | 1.27 | .17 | — | .170 | .16 | — | .4375-20UNJF | .56 | .06 |
| | **-6** | AE24851G | 1.34 | .16 | — | .271 | .16 | — | .5625-18UNJF | .69 | .11 |
| | **-8** | AE24851H | 1.52 | .18 | — | .360 | .19 | — | .7500-16UNJF | .88 | .18 |
| | **-10** | AE24851J | 1.70 | .20 | — | .479 | .20 | — | .8750-14UNJF | 1.00 | .24 |
| **AE24851 E, G, H, J** | | | | | | | | | | | |
| **Straight** | **-12** | AE34231K | 1.88 | .20 | — | .646 | .23 | — | 1.0625-12UNJ | 1.25 | .38 |
| | **-16** | AE34231M | 1.98 | .13 | — | .854 | .30 | — | 1.3125-12UNJ | 1.50 | .53 |
| | **-20** | AE34231N | 2.52 | .14 | — | 1.088 | .30 | — | 1.6250-12UNJ | 1.81 | .81 |
| | **-24** | AE34231P | 2.50 | .07 | — | 1.325 | .37 | — | 1.8750-12UNJ | 2.13 | 1.16 |
| | **-32** | AE34231R | 2.61 | .28 | — | 1.808 | .37 | — | 2.5000-12UNJ | 2.75 | 1.81 |
| **AE34231 K through R** | | | | | | | | | | | |
| **45° Elbow** | **-4** | AE25094E | 1.84 | .17 | .484 | .170 | .11 | .375 | .4375-20UNJF | .56 | .05 |
| | **-6** | AE25094G | 1.84 | .16 | .540 | .271 | .12 | .375 | .5625-18UNJF | .69 | .11 |
| | **-8** | AE25094H | 2.03 | .18 | .606 | .360 | .13 | .500 | .7500-16UNJF | .88 | .20 |
| | **-10** | AE25094J | 2.36 | .20 | .736 | .479 | .14 | .625 | .8750-14UNJF | 1.00 | .27 |
| **AE25094 E, G, H, J** | | | | | | | | | | | |
| **45° Elbow** | **-12** | AE36007K | 2.47 | .20 | .739 | .596 | .16 | .750 | 1.0625-12UNJ | 1.25 | .42 |
| | **-16** | AE36007M | 2.91 | .13 | .937 | .795 | .21 | .969 | 1.3125-12UNJ | 1.50 | .57 |
| | **-20** | AE36007N | 3.40 | .14 | 1.05 | 1.026 | .21 | 1.188 | 1.6250-12UNJ | 1.81 | .84 |
| | **-24** | AE36007P | 3.80 | .07 | 1.274 | 1.258 | .26 | 1.375 | 1.8750-12UNJ | 2.13 | 1.28 |
| | **-32** | AE36007R | 4.09 | .28 | 1.407 | 1.720 | .26 | 1.750 | 2.5000-12UNJ | 2.75 | 1.71 |
| **AE36007 K through R** | | | | | | | | | | | |
| **90° Elbow** | **-4** | AE24981E | 1.58 | .17 | .899 | .170 | .16 | .375 | .4375-20UNJF | .56 | .06 |
| | **-6** | AE24981G | 1.53 | .16 | 1.000 | .271 | .16 | .375 | .5625-18UNJF | .69 | .12 |
| | **-8** | AE24981H | 1.72 | .18 | 1.149 | .360 | .19 | .500 | .7500-16UNJF | .88 | .19 |
| | **-10** | AE24981J | 2.00 | .20 | 1.413 | .479 | .20 | .625 | .8750-14UNJF | 1.00 | .27 |
| **AE24981 E, G, H, J** | | | | | | | | | | | |
| **90° Elbow** | **-12** | AE36008K | 2.17 | .20 | 1.480 | .596 | .23 | .750 | 1.0625-12UNJ | 1.25 | .43 |
| | **-16** | AE36008M | 2.57 | .13 | 1.912 | .795 | .30 | .969 | 1.3125-12UNJ | 1.50 | .62 |
| | **-20** | AE36008N | 3.09 | .14 | 2.218 | 1.026 | .30 | 1.188 | 1.6250-12UNJ | 1.81 | .91 |
| | **-24** | AE36008P | 3.41 | .07 | 2.683 | 1.258 | .37 | 1.375 | 1.8750-12UNJ | 2.13 | 1.38 |
| | **-32** | AE36008R | 3.71 | .28 | 3.012 | 1.720 | .37 | 1.750 | 2.5000-12UNJ | 2.75 | 1.86 |
| **AE36008 K through R** | | | | | | | | | | | |

All dimensions in inches.

Max. A = Maximum length of fitting, including socket, when fitting is assembled on hose.
Nom. D = Nominal drop dimensions. Tolerance is ± .035" on bent tube fittings.
*R = Radius of elbow measured to centerline.
**Weight = nipple assembly plus socket (nominal).

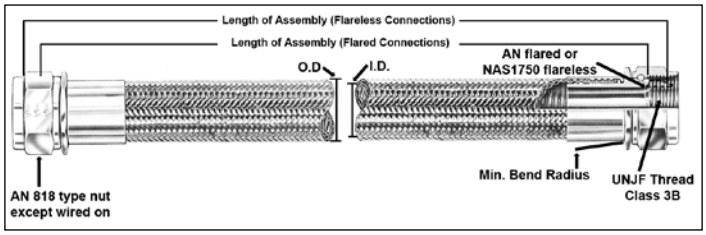
# Hose Assemblies/Swivel Flareless to Swivel Flareless (NAS 1760)

| Configurations A B | Hose Size | AE641 Hose Assembly Base No. | AE441 Hose (Silicone Cover) Assembly Base No. | AE541 Hose (Polyester Chafeguard) Assembly Base No. | AE841 Hose (Thin Wall Silicone Cover) Assembly Base No. | Nipple A Part No. | Nipple B Part No. |
|---|---|---|---|---|---|---|---|
|  **Straight to Straight** | -4 thru -32 | AE1010559 | AE1010562* | AE1010653 | AE1014089** | AE24851 (-4 thru -10)<br>AE34231 (-12 thru -32) | AE24851 (-4 thru -10)<br>AE34231 (-12 thru -32) |
|  **Straight to 45°** | -4 thru -32 | AE1010560 | AE1010563* | AE1010654 | AE1014090** | AE24851 (-4 thru -10)<br>AE34231 (-12 thru -32) | AE25094 (-4 thru -10)<br>AE36007 (-12 thru -32) |
|  **Straight to 90°** | -4 thru -32 | AE1010561 | AE1010564* | AE1010655 | AE1014091** | AE24851 (-4 thru -10)<br>AE34231 (-12 thru -32) | AE24981 (-4 thru -10)<br>AE36008 (-12 thru -32) |
|  **45° to 45°** | -4 thru -32 | AE3951 | AE3957* | AE3975 | AE5565** | AE25094 (-4 thru -10)<br>AE36007 (-12 thru -32) | AE25094 (-4 thru -10)<br>AE36007 (-12 thru -32) |
|  **45° to 90°** | -4 thru -32 | AE3952 | AE3958* | AE3976 | AE5566** | AE25094 (-4 thru -10)<br>AE36007 (-12 thru -32) | AE24981 (-4 thru -10)<br>AE36008 (-12 thru -32) |
|  **90° to 90°** | -4 thru -32 | AE3953 | AE3959* | AE3977 | AE5567** | AE24981 (-4 thru -10)<br>AE36008 (-12 thru -32) | AE24981 (-4 thru -10)<br>AE36008 (-12 thru -32) |

*Contact Eaton for -32 (AE443) hose assembly part numbers.
** Not available in -32 size.

See page 8 for hose assembly part number information.

# Hose Assembly Part Number Information




## Assembly Length

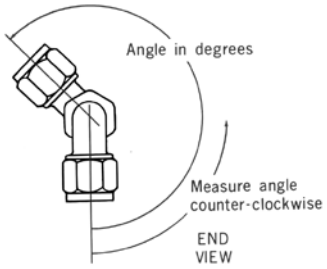
Assembly length is measured from sealing surface to sealing surface. When defining the part number length, measure the length from gauge point to gauge point of NAS 1760 flareless fittings. The "K" dimensions on page 6 show the difference between overall length and length to gauge point. With elbow fittings, the measuring point is the intersection of the centerline of the elbow with the face of the sealing surface.

## Assembly Length Tolerances

| | |
|---|---|
| Up to and including 18 inches: | ±.125 |
| Above 18 inches, to and including 36 inches: | ±.250 |
| Above 36 inches, to and including 50 inches: | ±.500 |
| Above 50 inches: | ±1% of length |

## Rotational Angle Measurement

On assemblies with an elbow fitting on each end, measure the rotation angle as shown. The index angle will follow the basic style hose assembly part number indicated (see example for "double elbow" assemblies). In all cases, the angle should be expressed in 3 digits. For example, 35° should be written as 035. If the angle desired is 0°, specify 000.




## Hose Assemblies

To properly specify the correct hose assembly, use the simple numbering system below. Straight and single elbow assemblies are identified by the number beginning with AE101 and double elbow assemblies are identified by a number beginning with AE39XX or AE55XX. Any assembly can be ordered using these numbers.

**Examples:**

### Straight and Single Elbow Hose Assemblies

**AE101XXXX G 0184**

- **AE101XXXX** — Base number for all straight and single elbow assemblies
- **G** — Size Code (see below)
- **0184** — Assembly length, in inches, always four digits; last digit indicates fractional length in 1/8's of an inch.

### Double Elbow Hose Assemblies

**AE39XX G 0184 -035**

- **AE39XX** — Base number for all double elbow assemblies.
- **G** — Size Code (see below).
- **0184** — Assembly length, in inches, always four digits; last digit indicates fractional length in 1/8's of an inch.
- **-035** — Elbow position angle, expressed in three digits.

| Hose Dash Size | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 24 | 32 |
|---|---|---|---|---|---|---|---|---|---|
| Letter Code | E | G | H | J | K | M | N | P | R |

FAILURE OR IMPROPER SELECTION,USE, OR ASSEMBLY OF THE PRODUCTS AND COMPONENTS FOR APPLICATIONS DESCRIBED HEREIN CAN RESULT IN POSSIBLE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. This document and any other related information from Eaton® Aeroquip® or its affiliates and authorized distributors, provide product options for consideration by Users having technical expertise with these products. Due to the wide variety of applications and operating conditions for these products and components, the User is solely responsible for making the final selection of the products and ensuring that all performance, safety and warning requirements for the User's intended application are met. Eaton® Aeroquip® recommends that Eaton® Aeroquip® hose, fittings or assembly equipment must be used only with other Eaton® Aeroquip® hose, fittings or assembly equipment,and Eaton Aeroquip and/or its affiliates disclaim any obligation or liability (including all incidental and consequential damages)to the extent Eaton® Aeroquip® hose, fittings or assembly equipment is used with any other manufacturer's hose, fittings or assembly equipment or in the event that Eaton® Aeroquip® recommended processes and product instructions for hose assemblies are not followed. The products described herein, including product features, specifications, designs, and availability are subject to change at any time without notice.

**Eaton**
**Aerospace Group**
**Fluid & Electrical Distribution Division**
**300 South East Avenue**
**Jackson, Michigan 49203-1972**
**Phone: (517) 787 8121**
**Fax: (517) 789 2947**

Powering Business Worldwide

Eaton
Aerospace Group
9650 Jeronimo Road
Irvine, California 92618
Phone: (949) 452 9500
Fax: (949) 452 9555
www.eaton.com/aerospace


Form No. TF100-21E
(Supersedes AA42A)
October 2018