

# RATIONALE

FEDERAL SUPPLY CLASS  
4730

AS934C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

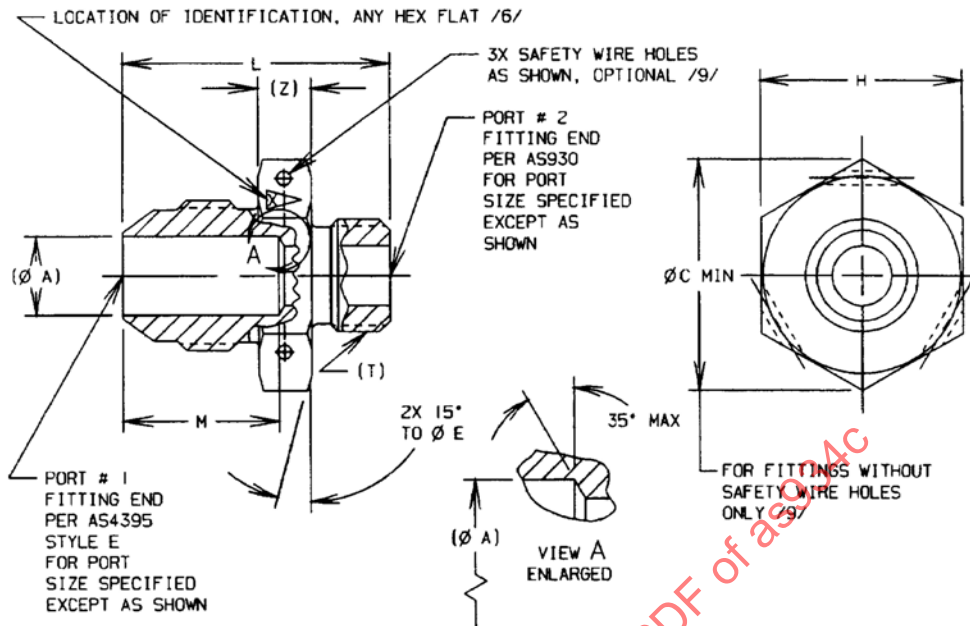


FIGURE 1 - FITTING, ADAPTER, REDUCER

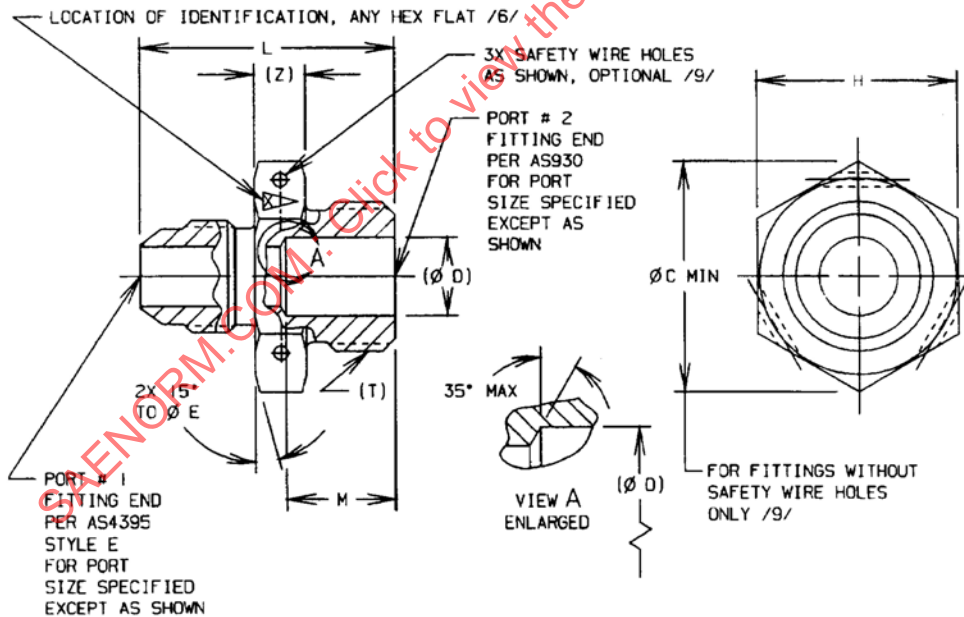
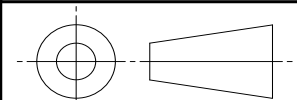


FIGURE 2 - FITTING, ADAPTER, EXPANDER

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS934C>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4875/1

**SAE Aerospace**  
An SAE International Group

## AEROSPACE STANDARD

FITTING, ADAPTER, REDUCER/EXPANDER,  
FLARED TO BOSS

**SAE AS934**  
SHEET 1 OF 3

REV. C

TABLE 1 - PORT SIZES, CORRESPONDING THREADS, HEX SIZES AND HOLE DEPTHS

| PORT<br>SIZE | (NOMINAL<br>TUBE<br>SIZE) | T THREAD<br>PER<br>MIL-S-8879 | A     | C     | D     | E<br>±.010<br>// | H<br>//     | Z    |
|--------------|---------------------------|-------------------------------|-------|-------|-------|------------------|-------------|------|
| 02           | .125                      | .3125-24 UNJF                 | .062  | .638  | .062  | .542             | .552-.565   | -    |
| 03           | .188                      | .3750-24 UNJF                 | .124  | .709  | .124  | .605             | .615-.628   | .220 |
| 04           | .250                      | .4375-20 UNJF                 | .172  | .780  | .172  | .668             | .678-.691   | .235 |
| 05           | .312                      | .5000-20 UNJF                 | .234  | .851  | .234  | .730             | .740-.753   | .235 |
| 06           | .375                      | .5625-18 UNJF                 | .297  | .922  | .297  | .792             | .802-.815   | .250 |
| 08           | .500                      | .7500-16 UNJF                 | .391  | 1.120 | .391  | .980             | .990-1.003  | .250 |
| 10           | .625                      | .8750-14 UNJF                 | .484  | 1.260 | .484  | 1.103            | 1.113-1.128 | .312 |
| 12           | .750                      | 1.0625-12 UNJ                 | .609  | 1.540 | .609  | 1.353            | 1.363-1.380 | .375 |
| 16           | 1.000                     | 1.3125-12 UNJ                 | .845  | 1.788 | .845  | 1.603            | 1.613-1.630 | .375 |
| 20           | 1.250                     | 1.6250-12 UNJ                 | 1.080 | 2.063 | 1.080 | 1.853            | 1.863-1.880 | .375 |
| 24           | 1.500                     | 1.8750-12 UNJ                 | 1.314 | 2.338 | 1.314 | 2.099            | 2.109-2.135 | .374 |
| 32           | 2.000                     | 2.5000-12 UNJ                 | 1.784 | 3.025 | 1.784 | 2.724            | 2.734-2.760 | .437 |

TABLE 2 - DIMENSIONS, OVERALL LENGTH L

| SIZE<br>OF<br>PORT #1 | L<br>PORT #2<br>SIZE<br>02 | L<br>PORT #2<br>SIZE<br>03 | L<br>PORT #2<br>SIZE<br>04 | L<br>PORT #2<br>SIZE<br>05 | L<br>PORT #2<br>SIZE<br>06 | L<br>PORT #2<br>SIZE<br>08 | L<br>PORT #2<br>SIZE<br>10 | L<br>PORT #2<br>SIZE<br>12 | L<br>PORT #2<br>SIZE<br>16 | L<br>PORT #2<br>SIZE<br>20 | L<br>PORT #2<br>SIZE<br>24 | L<br>PORT #2<br>SIZE<br>32 |
|-----------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 02                    | -                          | 1.028                      | 1.083                      | 1.083                      | 1.098                      | 1.183                      | 1.200                      | 1.303                      | 1.303                      | 1.303                      | 1.303                      | 1.365                      |
| 03                    | 1.059                      | -                          | 1.114                      | 1.114                      | 1.129                      | 1.169                      | 1.231                      | 1.334                      | 1.334                      | 1.334                      | 1.334                      | 1.396                      |
| 04                    | 1.145                      | 1.145                      | -                          | 1.185                      | 1.200                      | 1.240                      | 1.302                      | 1.405                      | 1.405                      | 1.405                      | 1.405                      | 1.467                      |
| 05                    | 1.145                      | 1.145                      | 1.185                      | -                          | 1.200                      | 1.240                      | 1.302                      | 1.405                      | 1.405                      | 1.405                      | 1.405                      | 1.467                      |
| 06                    | 1.166                      | 1.166                      | 1.206                      | 1.206                      | -                          | 1.246                      | 1.308                      | 1.411                      | 1.411                      | 1.411                      | 1.411                      | 1.473                      |
| 08                    | 1.267                      | 1.267                      | 1.307                      | 1.307                      | 1.307                      | -                          | 1.409                      | 1.512                      | 1.512                      | 1.512                      | 1.512                      | 1.574                      |
| 10                    | 1.430                      | 1.430                      | 1.470                      | 1.470                      | 1.470                      | 1.510                      | -                          | 1.613                      | 1.613                      | 1.613                      | 1.613                      | 1.675                      |
| 12                    | 1.599                      | 1.599                      | 1.639                      | 1.639                      | 1.639                      | 1.679                      | 1.679                      | 1.719                      | 1.719                      | 1.719                      | 1.719                      | 1.781                      |
| 16                    | 1.646                      | 1.646                      | 1.686                      | 1.686                      | 1.686                      | 1.726                      | 1.726                      | 1.726                      | -                          | 1.766                      | 1.766                      | 1.828                      |
| 20                    | 1.693                      | 1.693                      | 1.733                      | 1.733                      | 1.733                      | 1.733                      | 1.773                      | 1.813                      | 1.813                      | -                          | 1.813                      | 1.875                      |
| 24                    | 1.818                      | 1.818                      | 1.858                      | 1.858                      | 1.858                      | 1.898                      | 1.898                      | 1.938                      | 1.938                      | 1.938                      | -                          | 2.000                      |
| 32                    | 2.130                      | 2.130                      | 2.170                      | 2.170                      | 2.170                      | 2.210                      | 2.210                      | 2.250                      | 2.250                      | 2.250                      | 2.250                      | -                          |

TABLE 3 - DIMENSIONS, HOLE DEPTH M

| SIZE<br>OF<br>PORT #1 | M<br>PORT #2<br>SIZE<br>02 | M<br>PORT #2<br>SIZE<br>03 | M<br>PORT #2<br>SIZE<br>04 | M<br>PORT #2<br>SIZE<br>05 | M<br>PORT #2<br>SIZE<br>06 | M<br>PORT #2<br>SIZE<br>08 | M<br>PORT #2<br>SIZE<br>10 | M<br>PORT #2<br>SIZE<br>12 | M<br>PORT #2<br>SIZE<br>16 | M<br>PORT #2<br>SIZE<br>20 | M<br>PORT #2<br>SIZE<br>24 | M<br>PORT #2<br>SIZE<br>32 |
|-----------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 02                    | -                          | .435                       | .480                       | .460                       | .455                       | .470                       | .505                       | .570                       | .505                       | .435                       | .365                       | .295                       |
| 03                    | .555                       | -                          | .495                       | .480                       | .475                       | .490                       | .525                       | .590                       | .520                       | .455                       | .385                       | .310                       |
| 04                    | .630                       | .645                       | -                          | .490                       | .485                       | .500                       | .535                       | .600                       | .535                       | .465                       | .395                       | .325                       |
| 05                    | .610                       | .630                       | .640                       | -                          | .505                       | .515                       | .550                       | .620                       | .550                       | .485                       | .415                       | .340                       |
| 06                    | .615                       | .630                       | .645                       | .660                       | -                          | .540                       | .575                       | .640                       | .575                       | .505                       | .435                       | .385                       |
| 08                    | .685                       | .705                       | .715                       | .735                       | .755                       | -                          | .560                       | .625                       | .555                       | .490                       | .420                       | .345                       |
| 10                    | .825                       | .840                       | .850                       | .870                       | .895                       | .875                       | -                          | .645                       | .575                       | .505                       | .440                       | .365                       |
| 12                    | .985                       | .975                       | .985                       | 1.005                      | 1.025                      | 1.010                      | 1.025                      | -                          | .590                       | .520                       | .450                       | .375                       |
| 16                    | .935                       | .950                       | .965                       | .980                       | 1.005                      | .990                       | 1.005                      | .980                       | -                          | .580                       | .510                       | .440                       |
| 20                    | .915                       | .930                       | .945                       | .960                       | .985                       | .970                       | .985                       | 1.000                      | 1.060                      | -                          | .540                       | .465                       |
| 24                    | .970                       | .990                       | 1.000                      | 1.020                      | 1.040                      | 1.025                      | 1.040                      | 1.055                      | 1.115                      | 1.145                      | -                          | .525                       |
| 32                    | 1.145                      | 1.165                      | 1.175                      | 1.195                      | 1.215                      | 1.200                      | 1.220                      | 1.230                      | 1.295                      | 1.320                      | 1.380                      | -                          |