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AS4409™

## RATIONALE

FEDERAL SUPPLY CLASS  
4730

SAFETY WIRE HOLES OPTION ADDED TO GRAPHICS. REVERT PROCUREMENT SPECIFICATION NOTE FROM QPL TO QML STATUS.

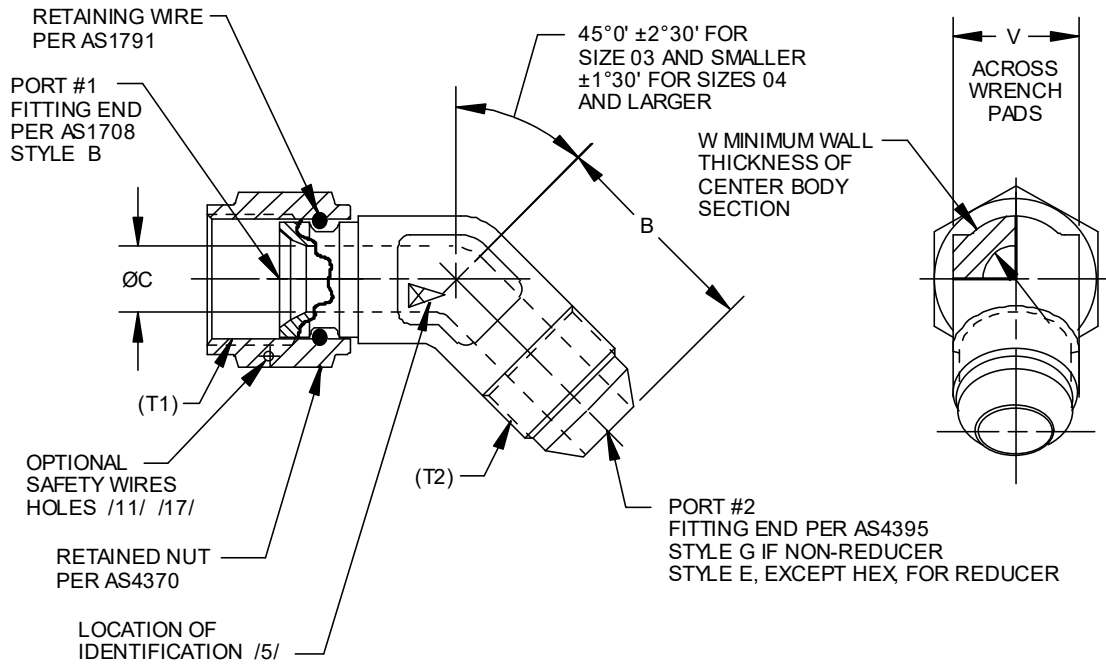


FIGURE 1 - FITTING ASSEMBLY, ELBOW 45°

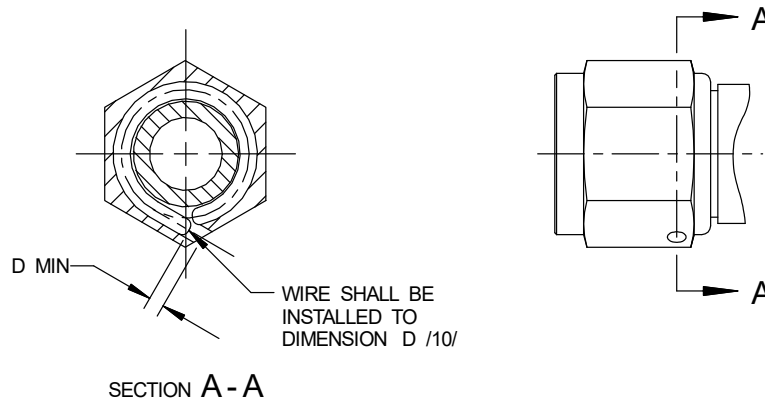
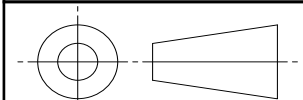


FIGURE 2 - INSTALLATION, RETAINED NUT AND RETAINING WIRE

NOT RECOMMENDED IN PART /18/

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS4409D/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS4841 /4/



## AEROSPACE STANDARD

FITTING ASSEMBLY, ELBOW 45°,  
REDUCER AND NONREDUCER,  
INTERNAL FLARE TO FLARED TUBE

AS4409™  
SHEET 1 OF 6

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TABLE 1 - DIMENSIONS C-W AND WEIGHTS

| BASIC NO.<br>AS4409<br>/17/<br>SIZE CODE | (NOMINAL<br>TUBE<br>SIZE) | T1, T2<br>THREAD<br>PER<br>AS8879<br>CLASS 3B, 3A | C           | D    | V           | W    | LB/EA<br>APPROX<br>REF<br>ALUM | LB/EA<br>APPROX<br>REF<br>CRES | LB/EA<br>APPROX<br>REF<br>TI |
|------------------------------------------|---------------------------|---------------------------------------------------|-------------|------|-------------|------|--------------------------------|--------------------------------|------------------------------|
| 02                                       | .125                      | .3125-24 UNJF                                     | .058- .065  | .045 | .297- .314  | .090 | .012                           | .034                           | .019                         |
| 03                                       | .188                      | .3750-24 UNJF                                     | .121- .128  | .045 | .360- .377  | .100 | .021                           | .060                           | .034                         |
| 04                                       | .250                      | .4375-20 UNJF                                     | .168- .175  | .045 | .423- .440  | .110 | .025                           | .072                           | .041                         |
| 05                                       | .312                      | .5000-20 UNJF                                     | .230- .237  | .045 | .485- .502  | .120 | .032                           | .092                           | .053                         |
| 06                                       | .375                      | .5625-18 UNJF                                     | .293- .301  | .045 | .547- .565  | .120 | .044                           | .123                           | .071                         |
| 08                                       | .500                      | .7500-16 UNJF                                     | .387- .395  | .055 | .735- .753  | .150 | .077                           | .224                           | .140                         |
| 10                                       | .625                      | .8750-14 UNJF                                     | .480- .488  | .063 | .860- .878  | .170 | .118                           | .343                           | .196                         |
| 12                                       | .750                      | 1.0625-12 UNJ                                     | .604- .614  | .095 | 1.047-1.065 | .185 | .196                           | .570                           | .326                         |
| 16                                       | 1.000                     | 1.3125-12 UNJ                                     | .839- .851  | .125 | 1.292-1.317 | .205 | .294                           | .852                           | .488                         |
| 20                                       | 1.250                     | 1.6250-12 UNJ                                     | 1.073-1.086 | .155 | 1.605-1.630 | .240 | .551                           | 1.600                          | .916                         |
| 24                                       | 1.500                     | 1.8750-12 UNJ                                     | 1.307-1.320 | .180 | 1.855-1.880 | .250 | .734                           | 2.130                          | 1.220                        |
| 32                                       | 2.000                     | 2.5000-12 UNJ                                     | 1.776-1.791 | .180 | 2.542-2.572 | .350 | .961                           | 2.790                          | 1.598                        |

TABLE 2 - LEG LENGTH A

| SIZE OF<br>PORT #1 | FORG.<br>SIZE<br>/8/<br>02 | FORG.<br>SIZE<br>/8/<br>03 | FORG.<br>SIZE<br>/8/<br>04 | FORG.<br>SIZE<br>/8/<br>05 | FORG.<br>SIZE<br>/8/<br>06 | FORG.<br>SIZE<br>/8/<br>08 | FORG.<br>SIZE<br>/8/<br>10 | FORG.<br>SIZE<br>/8/<br>12 | FORG.<br>SIZE<br>/8/<br>16 | FORG.<br>SIZE<br>/8/<br>20 | FORG.<br>SIZE<br>/8/<br>24 | FORG.<br>SIZE<br>/8/<br>32 |
|--------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 02                 | .403                       | .414                       | .427                       | .439                       | .466                       | .504                       | .530                       | .596                       | .634                       | .699                       | .796                       | .940                       |
| 03                 | --                         | .416                       | .430                       | .442                       | .469                       | .507                       | .533                       | .572                       | .637                       | .702                       | .799                       | .943                       |
| 04                 | --                         | --                         | .438                       | .450                       | .477                       | .515                       | .541                       | .580                       | .645                       | .710                       | .807                       | .951                       |
| 05                 | --                         | --                         | --                         | .492                       | .519                       | .557                       | .583                       | .622                       | .687                       | .752                       | .798                       | .998                       |
| 06                 | --                         | --                         | --                         | --                         | .603                       | .641                       | .667                       | .706                       | .771                       | .836                       | .888                       | 1.029                      |
| 08                 | --                         | --                         | --                         | --                         | --                         | .749                       | .775                       | .814                       | .878                       | .943                       | .995                       | 1.091                      |
| 10                 | --                         | --                         | --                         | --                         | --                         | --                         | .825                       | .864                       | .927                       | .992                       | 1.044                      | 1.139                      |
| 12                 | --                         | --                         | --                         | --                         | --                         | --                         | --                         | .828                       | .892                       | .957                       | 1.009                      | 1.139                      |
| 16                 | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | .911                       | .976                       | 1.028                      | 1.191                      |
| 20                 | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | 1.023                      | 1.075                      | 1.284                      |
| 24                 | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | 1.155                      | 1.327                      |
| 32                 | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | 1.483                      |

TABLE 3 - LEG LENGTH B

| SIZE OF<br>PORT #2 | FORG.<br>SIZE<br>/8/<br>02 | FORG.<br>SIZE<br>/8/<br>03 | FORG.<br>SIZE<br>/8/<br>04 | FORG.<br>SIZE<br>/8/<br>05 | FORG.<br>SIZE<br>/8/<br>06 | FORG.<br>SIZE<br>/8/<br>08 | FORG.<br>SIZE<br>/8/<br>10 | FORG.<br>SIZE<br>/8/<br>12 | FORG.<br>SIZE<br>/8/<br>16 | FORG.<br>SIZE<br>/8/<br>20 | FORG.<br>SIZE<br>/8/<br>24 | FORG.<br>SIZE<br>/8/<br>32 |
|--------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 02                 | .664                       | .633                       | .633                       | .671                       | .728                       | .783                       | .807                       | .873                       | 1.013                      | 1.091                      | 1.154                      | 1.341                      |
| 03                 | --                         | .664                       | .655                       | .702                       | .759                       | .814                       | .838                       | .904                       | 1.044                      | 1.122                      | 1.185                      | 1.372                      |
| 04                 | --                         | --                         | .726                       | .773                       | .830                       | .885                       | .909                       | .975                       | 1.115                      | 1.193                      | 1.256                      | 1.443                      |
| 05                 | --                         | --                         | --                         | .773                       | .830                       | .885                       | .909                       | .975                       | 1.115                      | 1.193                      | 1.256                      | 1.443                      |
| 06                 | --                         | --                         | --                         | --                         | .836                       | .891                       | .915                       | .981                       | 1.121                      | 1.199                      | 1.262                      | 1.449                      |
| 08                 | --                         | --                         | --                         | --                         | --                         | .992                       | 1.016                      | 1.082                      | 1.222                      | 1.300                      | 1.363                      | 1.550                      |
| 10                 | --                         | --                         | --                         | --                         | --                         | --                         | 1.117                      | 1.183                      | 1.323                      | 1.401                      | 1.464                      | 1.651                      |
| 12                 | --                         | --                         | --                         | --                         | --                         | --                         | --                         | 1.289                      | 1.429                      | 1.507                      | 1.570                      | 1.757                      |
| 16                 | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | 1.476                      | 1.554                      | 1.617                      | 1.804                      |
| 20                 | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | 1.601                      | 1.664                      | 1.851                      |
| 24                 | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | 1.789                      | 1.976                      |
| 32                 | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | --                         | 2.226                      |



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