

REV.  
B

AS5195

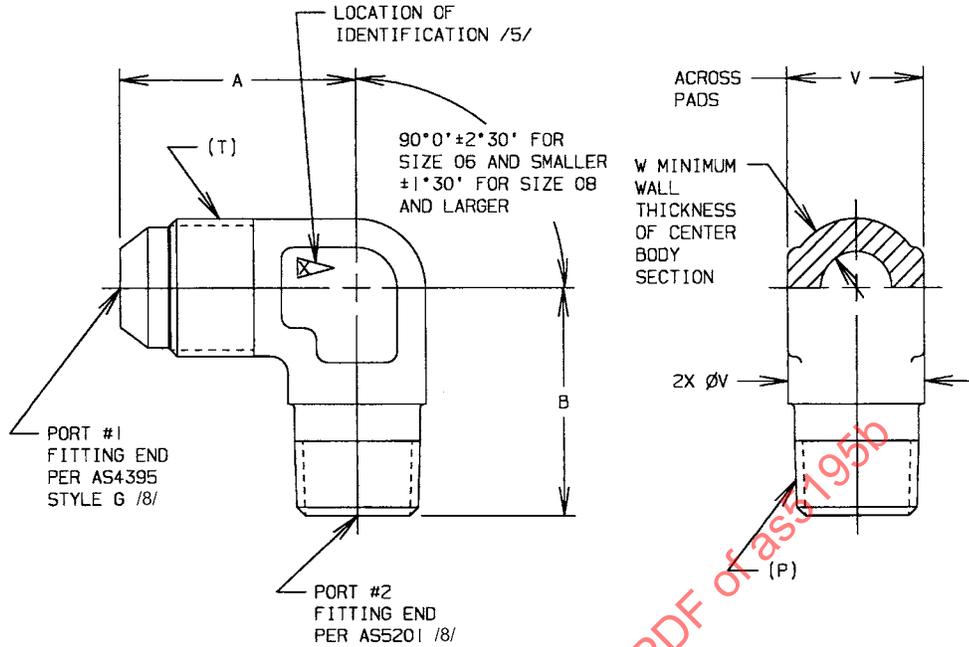


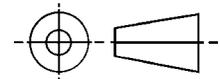
FIGURE 1 - FITTING, ELBOW, 90°

TABLE 1 - DIMENSIONS

| BASIC NO.<br>AS5195<br>/16/<br>SIZE CODE | (NOMINAL<br>TUBE SIZE)<br>PORT<br>#1 | (NOMINAL<br>PIPE SIZE)<br>PORT<br>#2 | P THREAD<br>PER<br>AS71051<br>ANPT | T THREAD<br>PER<br>AS8879<br>CLASS 3A | PORT<br>#2<br>STYLE | A     | B     |
|--|--------------------------------------|--------------------------------------|------------------------------------|---------------------------------------|---------------------|-------|-------|
| 0202                                     | .125                                 | .125                                 | 1/8-27                             | .3125-24 UNJF                         | B                   | .790  | .743  |
| 0302                                     | .188                                 | .125                                 | 1/8-27                             | .3750-24 UNJF                         | B                   | .852  | .743  |
| 0402                                     | .250                                 | .125                                 | 1/8-27                             | .4375-20 UNJF                         | C                   | .915  | .805  |
| 0404                                     | .250                                 | .250                                 | 1/4-18                             | .4375-20 UNJF                         | A                   | 1.055 | 1.086 |
| 0502                                     | .312                                 | .125                                 | 1/8-27                             | .5000-20 UNJF                         | C                   | .977  | .805  |
| 0504                                     | .312                                 | .250                                 | 1/4-18                             | .5000-20 UNJF                         | A                   | 1.055 | 1.086 |
| 0602                                     | .375                                 | .125                                 | 1/8-27                             | .5625-18 UNJF                         | C                   | 1.055 | .899  |
| 0604                                     | .375                                 | .250                                 | 1/4-18                             | .5625-18 UNJF                         | A                   | 1.086 | 1.118 |
| 0606                                     | .375                                 | .375                                 | 3/8-18                             | .5625-18 UNJF                         | C                   | 1.212 | 1.212 |
| 0608                                     | .375                                 | .500                                 | 1/2-14                             | .5625-18 UNJF                         | C                   | 1.336 | 1.462 |
| 0806                                     | .500                                 | .375                                 | 3/8-18                             | .7500-16 UNJF                         | C                   | 1.274 | 1.243 |
| 1008                                     | .625                                 | .500                                 | 1/2-14                             | .8750-14 UNJF                         | C                   | 1.477 | 1.493 |

INACTIVE IN PART - See Note /17/

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4842/1

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

FITTING, ELBOW, 90°,  
FLARED TO PIPE

**AS5195**  
SHEET 1 OF 4

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ISSUED 1999-04 REVISED 2003-08

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TABLE 1A - DIMENSIONS AND WEIGHTS

| BASIC NO.<br>AS5195<br>/16/<br>SIZE CODE | V         | W    | LB/EA<br>APPROX<br>REF<br>AL | LB/EA<br>APPROX<br>REF<br>CU | LB/EA<br>APPROX<br>REF<br>STEEL |
|--|-----------|------|------------------------------|------------------------------|---------------------------------|
| 0202                                     | .297-.314 | .090 | .0122                        | .0370                        | .0349                           |
| 0302                                     | .360-.377 | .100 | .0177                        | .0537                        | .0507                           |
| 0402                                     | .423-.440 | .110 | .0251                        | .0762                        | .0720                           |
| 0404                                     | .547-.565 | .120 | .0485                        | .147                         | .139                            |
| 0502                                     | .485-.502 | .120 | .0334                        | .101                         | .0958                           |
| 0504                                     | .547-.565 | .120 | .0476                        | .145                         | .137                            |
| 0602                                     | .547-.565 | .120 | .0454                        | .138                         | .130                            |
| 0604                                     | .547-.565 | .120 | .0473                        | .144                         | .136                            |
| 0606                                     | .735-.753 | .150 | .0953                        | .290                         | .274                            |
| 0608                                     | .860-.878 | .170 | .149                         | .452                         | .427                            |
| 0806                                     | .735-.753 | .150 | .0971                        | .295                         | .279                            |
| 1008                                     | .860-.878 | .170 | .146                         | .443                         | .419                            |

TABLE 1B - DIMENSIONS

| BASIC NO.<br>AS5195<br>/16/<br>SIZE CODE | (NOMINAL<br>TUBE SIZE)<br>PORT<br>#1 | (NOMINAL<br>PIPE SIZE)<br>PORT<br>#2 | P THREAD<br>PER<br>AS71051<br>ANPT | T THREAD<br>PER<br>AS8879<br>CLASS 3A | PORT<br>#2<br>STYLE | A     | B     |
|--|--------------------------------------|--------------------------------------|------------------------------------|---------------------------------------|---------------------|-------|-------|
| 1012                                     | .625                                 | .750                                 | 3/4-14                             | .8750-14 UNJF                         | A                   | 1.649 | 1.586 |
| 1208                                     | .750                                 | .500                                 | 1/2-14                             | 1.0625-12 UNJ                         | C                   | 1.649 | 1.586 |
| 1212                                     | .750                                 | .750                                 | 3/4-14                             | 1.0625-12 UNJ                         | A                   | 1.680 | 1.618 |
| 1216                                     | .750                                 | 1.000                                | 1-11 1/2                           | 1.0625-12 UNJ                         | A                   | 1.805 | 1.962 |
| 1612                                     | 1.000                                | .750                                 | 3/4-14                             | 1.3125-12 UNJ                         | C                   | 1.836 | 1.743 |
| 1616                                     | 1.000                                | 1.000                                | 1-11 1/2                           | 1.3125-12 UNJ                         | A                   | 1.836 | 1.993 |
| 2016                                     | 1.250                                | 1.000                                | 1-11 1/2                           | 1.6250-12 UNJ                         | C                   | 2.055 | 2.399 |
| 2020                                     | 1.250                                | 1.250                                | 1 1/4-11 1/2                       | 1.6250-12 UNJ                         | B                   | 2.086 | 2.399 |
| 2420                                     | 1.500                                | 1.250                                | 1 1/4-11 1/2                       | 1.8750-12 UNJ                         | C                   | 2.227 | 2.524 |
| 2824                                     | 1.750                                | 1.500                                | 1 1/2-11 1/2                       | 2.2500-12 UNJ                         | C                   | 2.836 | 2.805 |
| 3232                                     | 2.000                                | 2.000                                | 2-11 1/2                           | 2.5000-12 UNJ                         | C                   | 3.086 | 3.024 |

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**AEROSPACE STANDARD**FITTING, ELBOW, 90°,  
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**AS5195**  
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AS5195

TABLE 1C - DIMENSIONS AND WEIGHTS

| BASIC NO.<br>AS5195<br>/16/<br>SIZE CODE | V           | W    | LB/EA<br>APPROX<br>REF<br>AL | LB/EA<br>APPROX<br>REF<br>CU | LB/EA<br>APPROX<br>REF<br>STEEL |
|--|-------------|------|------------------------------|------------------------------|---------------------------------|
| 1012                                     | 1.047-1.065 | .185 | .237                         | .721                         | .681                            |
| 1208                                     | 1.047-1.065 | .185 | .245                         | .745                         | .704                            |
| 1212                                     | 1.047-1.065 | .185 | .230                         | .698                         | .659                            |
| 1216                                     | 1.292-1.317 | .205 | .407                         | 1.24                         | 1.17                            |
| 1612                                     | 1.292-1.317 | .205 | .395                         | 1.20                         | 1.13                            |
| 1616                                     | 1.292-1.317 | .205 | .369                         | 1.12                         | 1.06                            |
| 2016                                     | 1.605-1.630 | .240 | .728                         | 2.21                         | 2.09                            |
| 2020                                     | 1.605-1.630 | .240 | .622                         | 1.89                         | 1.79                            |
| 2420                                     | 1.855-1.880 | .250 | .944                         | 2.87                         | 2.71                            |
| 2824                                     | 2.230-2.260 | .350 | 1.63                         | 4.96                         | 4.69                            |
| 3232                                     | 2.542-2.572 | .350 | 2.36                         | 7.17                         | 6.77                            |

## NOTES:

## /1/ MATERIAL:

- a. DASH AS CODE LETTER - LOW ALLOY STEEL FORGING OR BAR, TYPE 4130 PER AMS-S-6758 OR AMS 6370, OR TYPE 4140 PER AMS 6382. /2/
- b. CODE LETTER B - TYPE 377 COPPER ALLOY FORGING PER ASTM B 124 OR AMS 4614 OR HALF HARD FORGING OR BAR PER ASTM B 138.
- c. CODE LETTER D - TYPE 2014-T6 ALUMINUM ALLOY FORGING PER AMS 4134, OR TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6, OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS 4339. /2/ /16/
- d. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS 5639.
- e. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS 5648.
- f. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS 5645.
- g. CODE LETTER W - TYPE 7075-T73 ALUMINUM ALLOY FORGING PER AMS 4141, OR TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9, OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124. /2/

## /2/ HEAT TREATMENT:

- a. DASH AS CODE LETTER - SEE HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.
- b. CODE LETTERS D AND W - SEE ELECTRICAL CONDUCTIVITY AND HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION. /16/
- c. OTHER CODE LETTERS - NONE.

## 3. FINISH:

- a. DASH AS CODE LETTER - CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 2, DYE BLACK AND COAT WITH A LIGHT FILM OF OIL PER PROCUREMENT SPECIFICATION.
- b. CODE LETTER B - CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 3 OR NONE.
- c. CODE LETTER D - ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, DYE BLUE, DUPLEX SEAL PER PROCUREMENT SPECIFICATION. /16/
- d. CODE LETTERS J, K AND R - PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
- e. CODE LETTER W - ANODIZE PER AMS 2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.



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SHEET 3 OF 4REV.  
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