

REV. A

AS5195

FEDERAL SUPPLY CLASS  
4730

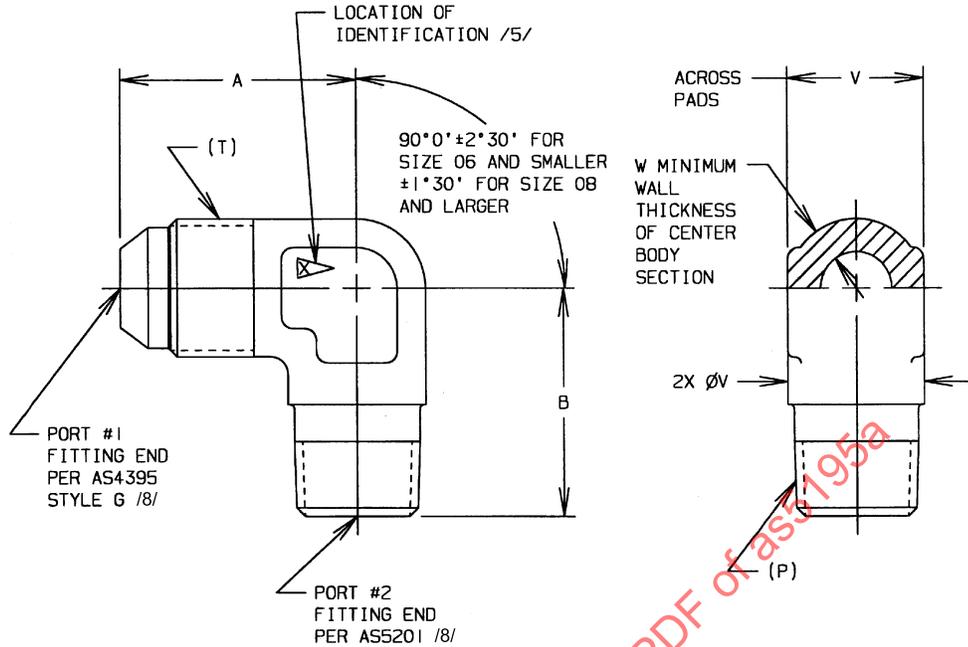


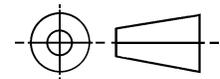
FIGURE 1 - FITTING, ELBOW, 90°

TABLE 1 - DIMENSIONS

BASIC NO. AS5195 /16/ SIZE CODE	(NOMINAL TUBE SIZE) PORT #1	(NOMINAL PIPE SIZE) PORT #2	P THREAD PER AS71051 ANPT	T THREAD PER AS8879 CLASS 3A	PORT #2 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** The Engineering Society  
For Advancing Mobility  
Land Sea Air and Space  
**INTERNATIONAL**  
400 Commonwealth Drive, Warrendale, PA 15096-0001

(R)

**AEROSPACE STANDARD**

FITTING, ELBOW, 90°,  
FLARED TO PIPE

**AS5195**  
SHEET 1 OF 4

**REV. A**

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

ISSUED 1999-04 REVISED 2000-10

REV.  
A

AS5195

TABLE 1A - DIMENSIONS AND WEIGHTS

BASIC NO. AS5195 /16/ SIZE CODE	V	W	LB/EA APPROX REF AL	LB/EA APPROX REF CU	LB/EA APPROX REF 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. AS5195 /16/ SIZE CODE	(NOMINAL TUBE SIZE) PORT #1	(NOMINAL PIPE SIZE) PORT #2	P THREAD PER AS71051 ANPT	T THREAD PER AS8879 CLASS 3A	PORT #2 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

REV.  
A

AS5195

TABLE 1C - DIMENSIONS AND WEIGHTS

BASIC NO. AS5195 /16/ SIZE CODE	V	W	LB/EA APPROX REF AL	LB/EA APPROX REF CU	LB/EA APPROX REF 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.