

RATIONALE

ADD INTEGRAL FIRESLEEVE CUFF DIMENSIONS; ADD INTEGRAL ABRASION SLEEVE "M" CODE; ADD CONFIGURATION FOR A NEW "N" CODE THIN WALL INTEGRAL FIRESLEEVE (15 MINUTE); ADD 5 MINUTE FIRESLEEVE MATERIAL CODES; REMOVED AS1624 FROM FIGURE 1; REVISED QPL NOTE PER LATEST STANDARD (NOTE 13); REPLACED MIL STANDARDS WITH CURRENT AS STANDARDS THROUGHOUT; CORRECTED CODE M TEMP LIMIT (TABLE 2); ADDED G SLEEVE CODE.

REV.
D

AS1910™

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 revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

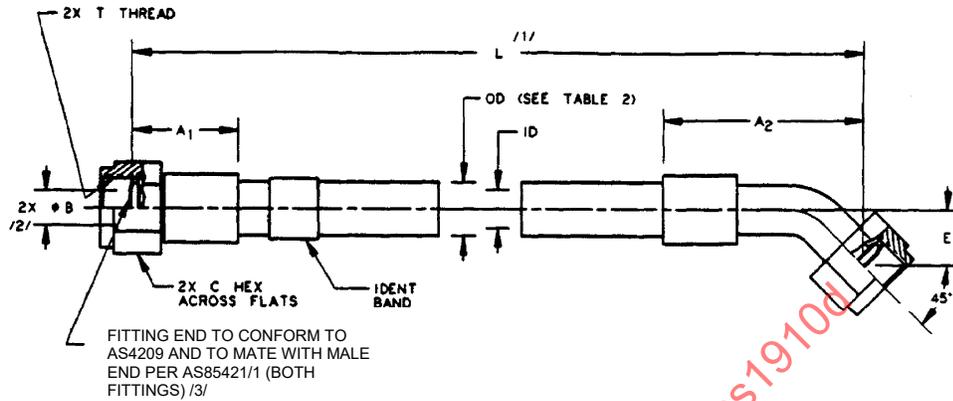


FIGURE 1 - HOSE AND FITTING DIMENSIONS

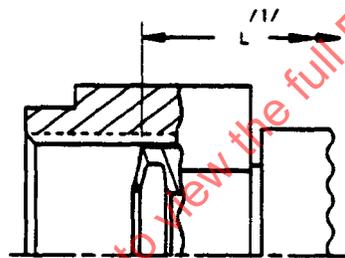


FIGURE 2 - FITTINGS
(ENLARGED VIEW)

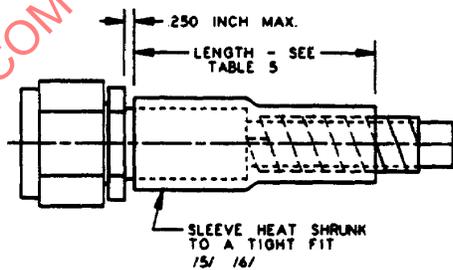
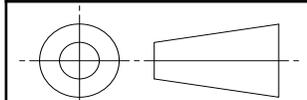


FIGURE 3 - ABRASION SLEEVE RETENTION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS1910D/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: /AS1339 /13/



AEROSPACE STANDARD

HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE,
CRES REINFORCED, 400 °F, 3000 PSI, LIGHTWEIGHT,
BEAM SEAL, STRAIGHT TO 45 DEGREES

AS1910™
SHEET 1 OF 6

REV.
D

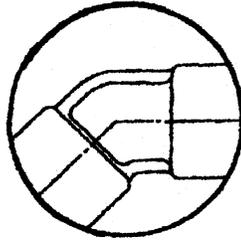


FIGURE 4 - ALTERNATE ELBOW CONFIGURATION /21/

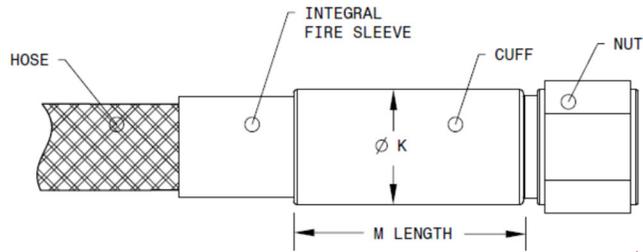


FIGURE 5 - INTEGRAL FIRESLEEVE CUFF DIMENSIONS - SEE TABLE 7 /27/

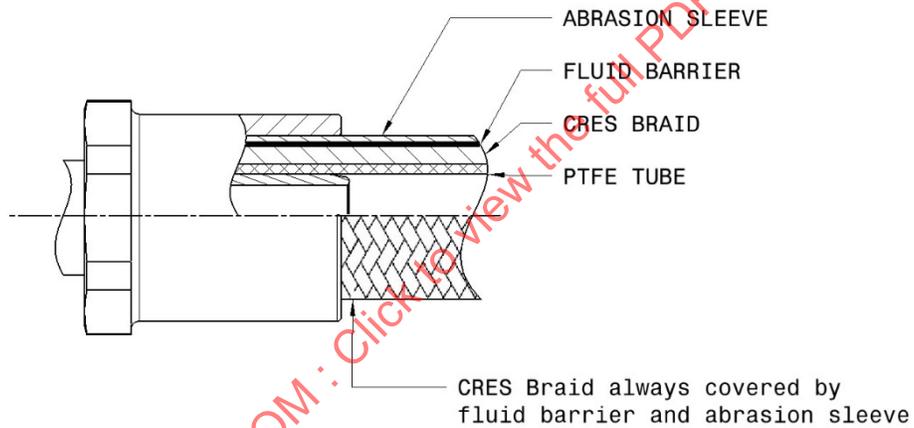


FIGURE 6 - FITTING CAPTURED INTEGRAL ABRASION SLEEVE WITH FLUID BARRIER /28/

TABLE 1 - HOSE AND FITTING DIMENSIONS

| HOSE ASSEMBLY AS1910 SIZE CODE | SIZE (REF) | THREAD T PER AS8879 (REF) | A ₁ MAX | A ₂ MAX | B /2/ DIA MIN | C HEX (REF) | E MIN | E MAX |
|--------------------------------|------------|---------------------------|--------------------|--------------------|---------------|-------------|-------|-------|
| 04 | .250 | .4375-24 UNJS-3B | 1.30 | 1.90 | .135 | .56 | .450 | .550 |
| 06 | .375 | .5625-20 UNJS-3B | 1.44 | 2.35 | .240 | .69 | .517 | .600 |
| 08 | .500 | .7188-20 UNJS-3B | 1.60 | 2.50 | .340 | .88 | .513 | .675 |
| 10 | .625 | .8438-18 UNJS-3B | 1.70 | 2.70 | .410 | 1.00 | .620 | .765 |
| 12 | .750 | 1.0000-16 UNJ-3B | 1.85 | 3.15 | .510 | 1.125 | .760 | .874 |
| 16 | 1.000 | 1.2500-14 UNJS-3B | 2.18 | 3.50 | .760 | 1.50 | .825 | .950 |

TABLE 2 - HOSE OR SLEEVE OUTSIDE DIAMETERS

| SLEEVE CODE | SLEEVE MATERIAL | TEMP. LIMIT °F | TOLE-RANCE | HOSE OR SLEEVE OUTSIDE DIAMETER | | | | | |
|-------------|---|----------------|------------|---------------------------------|--------------------|--------------------|--------------------|--------------------|---------------------|
| | | | | HOSE SIZE /4/ .250 | HOSE SIZE /4/ .375 | HOSE SIZE /4/ .500 | HOSE SIZE /4/ .625 | HOSE SIZE /4/ .750 | HOSE SIZE /4/ 1.000 |
| - | (-) INDICATES HOSE ONLY, NO SLEEVE (REFER TO AS1339) | 400 | MAX MIN | | | | | | |
| A | ABRASION SLEEVE TUBULAR (TFE-AS1291-CODE B) /5/ | 400 | MAX MIN | .500 .440 | .600 .540 | .730 .670 | .840 .780 | 1.110 1.050 | 1.400 1.340 |
| B | ABRASION SLEEVE COIL (NYLON AS1294) /6/ | 275 | MAX MIN | .450 .390 | .550 .490 | .695 .635 | .810 .750 | 1.080 1.020 | 1.360 1.300 |
| C | FIRESLEEVE (AS1072 SIL-FG) (15 MINUTES) /7/ /8/ /11/ | 400 | MAX MIN | .625 .500 | .750 .625 | .875 .750 | 1.000 .875 | 1.250 1.125 | 1.500 1.375 |
| E | ABRASION SLEEVE SHRINK-ON (FEP) (AS23053/11) /10/ | 350 | MAX MIN | .424 .374 | .540 .480 | .665 .615 | .790 .730 | 1.070 1.010 | 1.350 1.290 |
| F | ABRASION SLEEVE SHRINK-ON (POLYOLEFIN AS1073 - CODE B) /10/ | 275 | MAX MIN | .450 .400 | .560 .505 | .695 .645 | .810 .750 | 1.080 1.020 | 1.360 1.300 |
| G | FIRESLEEVE (AS1072 SIL-FG) (5 MINUTES) /7/ /8/ /25/ | 400 | MAX MIN | .625 .500 | .750 .625 | .875 .750 | 1.000 .875 | 1.250 1.125 | 1.500 1.375 |
| H | FIRESLEEVE INTEGRAL SILICONE (15 MINUTES) /11/ /12/ | 400 | MAX MIN | .660 .600 | .745 .685 | .895 .835 | 1.005 .945 | 1.240 1.160 | 1.515 1.455 |
| J | FIRESLEEVE INTEGRAL SILICONE (5 MINUTES) /25/ /12/ | 400 | MAX MIN | .660 .600 | .745 .685 | .895 .835 | 1.005 .945 | 1.240 1.160 | 1.515 1.455 |
| K | INTEGRAL ABRASION SLEEVE (BRAIDED) POLYESTER /9/ | 300 | MAX MIN | .490 .444 | .570 .535 | .695 .650 | .800 .760 | 1.070 1.030 | 1.350 1.310 |
| L | ABRASION SLEEVE COIL (PTFE-AS1293) /6/ | 400 | MAX MIN | .500 .440 | .600 .540 | .730 .670 | .862 .802 | 1.110 1.050 | 1.400 1.340 |
| M | FITTING CAPTURED INTEGRAL ABRASION SLEEVE (BRAIDED) WITH FLUID BARRIER /28/ | 275 | MAX MIN | .530 .444 | .610 .530 | .740 .650 | .870 .760 | 1.105 1.025 | 1.450 1.300 |
| N | THIN WALL FIRSLEEVE INTEGRAL SILICONE (15 MINUTES) /11/ /12/ | 400 | MAX MIN | .625 .490 | .725 .585 | .850 .715 | .955 .820 | 1.230 1.080 | 1.515 1.370 |

TABLE 3 - HOSE ASSEMBLY LENGTH TOLERANCES

| | | | | |
|---|---|--|--------------------------------|-------------------------|
|  | AEROSPACE STANDARD | | AS1910™ SHEET 3 OF 6 | REV. D |
| | HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 400 °F, 3000 PSI, LIGHTWEIGHT, BEAM SEAL, STRAIGHT TO 45 DEGREES | | | |

| HOSE ASSEMBLY LENGTH | TOLERANCE |
|---------------------------|------------|
| UNDER 18 INCHES | ±.125 INCH |
| 18 TO 36 INCHES EXCLUSIVE | ±.250 INCH |
| 36 TO 50 INCHES EXCLUSIVE | ±.500 INCH |
| 50 INCHES AND OVER | ±1% |

TABLE 4 - HOSE WEIGHT MAX - ALL OTHERS REF

| HOSE OR SLEEVE CODE | HOSE OR TYPE SLEEVE | UNITS | HOSE SIZE .250 | HOSE SIZE .375 | HOSE SIZE .500 | HOSE SIZE .625 | HOSE SIZE .750 | HOSE SIZE 1.000 |
|---------------------|--|-------|----------------|----------------|----------------|----------------|----------------|-----------------|
| - | HOSE ONLY | LB/IN | .009 | .015 | .020 | .027 | .058 | .085 |
| A | ABRASION SLEEVE (TFE-AS1291-CODE B) | LB/IN | .003 | .004 | .004 | .005 | .007 | .009 |
| B | ABRASION SLEEVE (NYLON AS1294) | LB/IN | .001 | .002 | .003 | .003 | .004 | .005 |
| C | FIRESLEEVE (15 MINUTES) AS1072 | LB/IN | .007 | .009 | .011 | .012 | .017 | .021 |
| E | ABRASION SLEEVE (FEP) | LB/IN | .002 | .003 | .003 | .005 | .006 | .007 |
| F | ABRASION SLEEVE (AS1073-CODE B) | LB/IN | .002 | .003 | .003 | .004 | .005 | .006 |
| G | FIRESLEEVE (5 MINUTES) AS1072 | LB/IN | .007 | .009 | .011 | .012 | .017 | .021 |
| H | FIRESLEEVE INTEGRAL (15 MINUTES) WITH HOSE | LB/IN | .019 | .027 | .035 | .047 | .099 | .117 |
| J | FIRESLEEVE INTEGRAL (5 MINUTES) WITH HOSE | LB/IN | .019 | .027 | .035 | .047 | .099 | .117 |
| K | ABRASION SLEEVE POLYESTER WITH HOSE | LB/IN | .012 | .016 | .022 | .030 | .060 | .090 |
| L | ABRASION SLEEVE (PTFE-AS1293) | LB/IN | .003 | .004 | .005 | .005 | .006 | .007 |
| M | FITTING CAPTURED INTEGRAL ABRASION SLEEVE (BRAIDED) WITH FLUID BARRIER | LB/IN | .004 | .005 | .006 | .007 | .010 | .015 |
| N | THIN WALL FIRESLEEVE INTEGRAL (15 MINUTES) WITH HOSE | LB/IN | .018 | .026 | .034 | .045 | .098 | .117 |
| NONE | FIRESLEEVE CLAMP /23/ | LB/EA | .025 | .025 | .025 | .026 | .026 | .033 |
| NONE | FITTING END (STRAIGHT) /23/ | LB/EA | .060 | .088 | .142 | .225 | .355 | .530 |
| NONE | FITTING END (45°) /23/ | LB/EA | .065 | .095 | .160 | .240 | .420 | .700 |

TABLE 5 - SLEEVE LENGTHS

| HOSE SIZE | LENGTH (INCHES) |
|------------|-----------------|
| .250/ .375 | 2.00 ± .25 |
| .500/ .625 | 2.50 ± .25 |
| .750/1.000 | 3.00 ± .25 |

TABLE 6 - SPHERICAL BALL SIZE FOR DETERMINING MINIMUM HOSE ASSEMBLY ID /2/

| HOSE SIZE | BALL SIZE (INCHES) |
|-----------|--------------------|
| 04 | .115 |
| 06 | .204 |
| 08 | .289 |
| 10 | .349 |
| 12 | .434 |
| 16 | .646 |