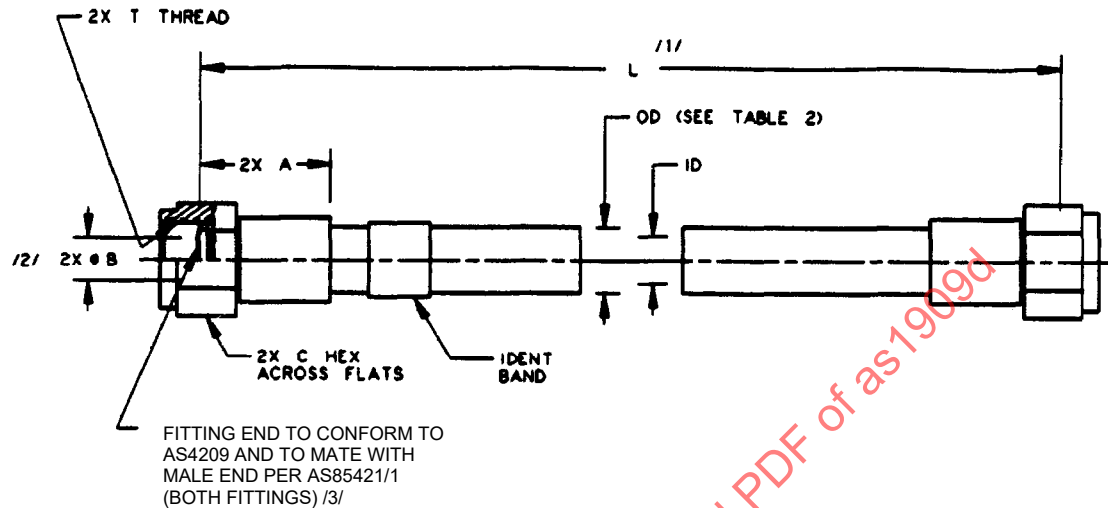
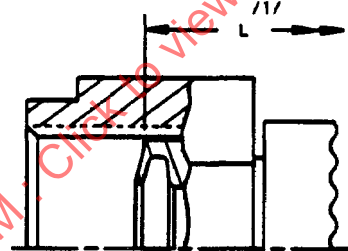


# RATIONALE

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.



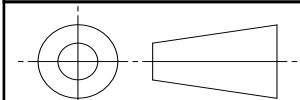
**FIGURE 1 - HOSE AND FITTING DIMENSIONS**



**FIGURE 2 - FITTINGS  
(ENLARGED VIEW)**

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS1909D/>

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 STRAIGHT

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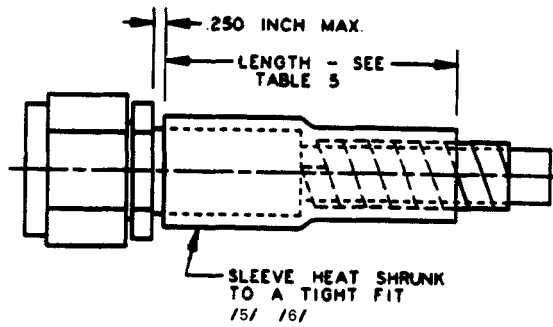


FIGURE 3 - ABRASION SLEEVE RETENTION

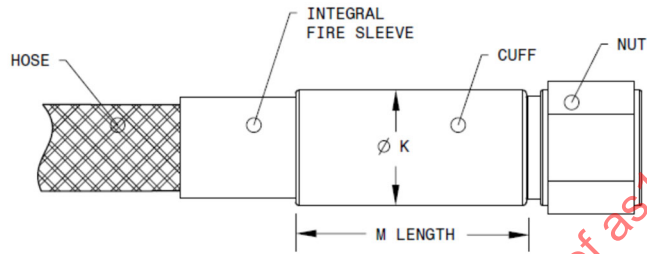


FIGURE 4 - INTEGRAL FIRESLEEVE CUFF DIMENSIONS - SEE TABLE 7 /26/

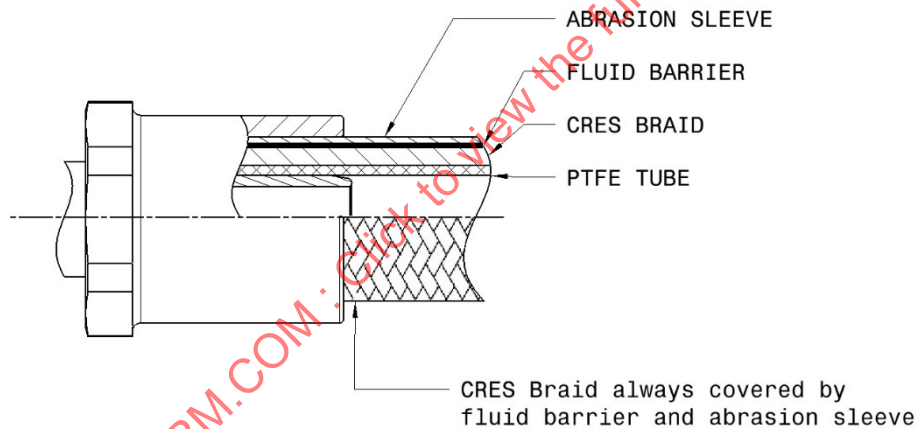


FIGURE 5 - FITTING CAPTURED INTEGRAL ABRASION SLEEVE WITH FLUID BARRIER /27/

TABLE 1 - HOSE AND FITTING DIMENSIONS

| HOSE ASSEMBLY<br>AS1909<br>SIZE CODE | SIZE<br>(REF) | THREAD T<br>PER AS8879<br>(REF) | A<br>MAX | B /2/<br>DIA<br>MIN | C<br>HEX<br>(REF) |
|--------------------------------------|---------------|---------------------------------|----------|---------------------|-------------------|
| 04                                   | .250          | .4375-24 UNJS-3B                | 1.30     | .135                | .56               |
| 06                                   | .375          | .5625-20 UNJS-3B                | 1.44     | .240                | .69               |
| 08                                   | .500          | .7188-20 UNJS-3B                | 1.60     | .340                | .88               |
| 10                                   | .625          | .8438-18 UNJS-3B                | 1.70     | .410                | 1.00              |
| 12                                   | .750          | 1.0000-16 UNJ-3B                | 1.85     | .510                | 1.125             |
| 16                                   | 1.000         | 1.2500-14 UNJS-3B               | 2.18     | .760                | 1.50              |

**TABLE 2 - HOSE OR SLEEVE OUTSIDE DIAMETERS**

| SLEEVE<br>CODE | SLEEVE MATERIAL                                                                   | TEMP<br>LIMIT<br>°F | TOLERANCE  | HOSE OR<br>SLEEVE<br>OUTSIDE<br>DIAMETER<br>/4/ | HOSE OR<br>SLEEVE<br>OUTSIDE<br>DIAMETER<br>/4/ | HOSE OR<br>SLEEVE<br>OUTSIDE<br>DIAMETER<br>/4/ | HOSE OR<br>SLEEVE<br>OUTSIDE<br>DIAMETER<br>/4/ | HOSE OR<br>SLEEVE<br>OUTSIDE<br>DIAMETER<br>/4/ | HOSE OR<br>SLEEVE<br>OUTSIDE<br>DIAMETER<br>/4/ |
|----------------|-----------------------------------------------------------------------------------|---------------------|------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
|                |                                                                                   |                     |            | HOSE SIZE<br>.250                               | HOSE SIZE<br>.375                               | HOSE SIZE<br>.500                               | HOSE SIZE<br>.625                               | HOSE SIZE<br>.750                               | HOSE SIZE<br>1.000                              |
| -              | (-) INDICATES HOSE ONLY,<br>NO SLEEVE (REFER TO AS1339)                           | 400                 | MAX<br>MIN |                                                 |                                                 |                                                 |                                                 |                                                 |                                                 |
| A              | ABRASION SLEEVE TUBULAR<br>(TFE-AS1291 - CODE B) /5/                              | 400                 | MAX<br>MIN | .500<br>.440                                    | .600<br>.540                                    | .730<br>.670                                    | .840<br>.780                                    | 1.110<br>1.050                                  | 1.400<br>1.340                                  |
| B              | ABRASION SLEEVE COIL<br>(NYLON AS1294) /6/                                        | 275                 | MAX<br>MIN | .450<br>.390                                    | .550<br>.490                                    | .695<br>.635                                    | .810<br>.750                                    | 1.080<br>1.020                                  | 1.360<br>1.300                                  |
| C              | FIRESLEEVE (AS1072 SIL-FG)<br>(15 MINUTES) /7/ /8/ /11/                           | 400                 | MAX<br>MIN | .625<br>.500                                    | .750<br>.625                                    | .875<br>.750                                    | 1.000<br>.875                                   | 1.250<br>1.125                                  | 1.500<br>1.375                                  |
| E              | ABRASION SLEEVE SHRINK-ON<br>(FEP) (AS23053/11) /10/                              | 350                 | MAX<br>MIN | .424<br>.374                                    | .540<br>.480                                    | .665<br>.615                                    | .790<br>.730                                    | 1.070<br>1.010                                  | 1.350<br>1.290                                  |
| F              | ABRASION SLEEVE SHRINK-ON<br>(POLYOLEFIN AS1073 - CODE B)<br>/10/                 | 275                 | MAX<br>MIN | .450<br>.400                                    | .560<br>.505                                    | .695<br>.645                                    | .810<br>.750                                    | 1.080<br>1.020                                  | 1.360<br>1.300                                  |
| G              | FIRESLEEVE (AS1072 SIL-FG)<br>(5 MINUTES) /7/ /8/ /24/                            | 400                 | MAX<br>MIN | .625<br>.500                                    | .750<br>.625                                    | .875<br>.750                                    | 1.000<br>.875                                   | 1.250<br>1.125                                  | 1.500<br>1.375                                  |
| H              | FIRESLEEVE INTEGRAL SILICONE<br>(15 MINUTES) /11/ /12/                            | 400                 | MAX<br>MIN | .660<br>.600                                    | .745<br>.685                                    | .895<br>.835                                    | 1.005<br>.945                                   | 1.240<br>1.160                                  | 1.515<br>1.455                                  |
| J              | FIRESLEEVE INTEGRAL SILICONE<br>(5 MINUTES) /24/ /12/                             | 400                 | MAX<br>MIN | .660<br>.600                                    | .745<br>.685                                    | .895<br>.835                                    | 1.005<br>.945                                   | 1.240<br>1.160                                  | 1.515<br>1.455                                  |
| K              | INTEGRAL ABRASION SLEEVE<br>(BRAIDED) POLYESTER /9/                               | 300                 | MAX<br>MIN | .490<br>.444                                    | .570<br>.535                                    | .695<br>.650                                    | .800<br>.760                                    | 1.070<br>1.030                                  | 1.350<br>1.310                                  |
| L              | ABRASION SLEEVE COIL<br>(PTFE-AS1293) /6/                                         | 400                 | MAX<br>MIN | .500<br>.440                                    | .600<br>.540                                    | .730<br>.670                                    | .862<br>.802                                    | 1.110<br>1.050                                  | 1.400<br>1.340                                  |
| M              | FITTING CAPTURED INTEGRAL<br>ABRASION SLEEVE (BRAIDED)<br>WITH FLUID BARRIER /27/ | 275                 | MAX<br>MIN | .530<br>.444                                    | .610<br>.530                                    | .740<br>.650                                    | .870<br>.760                                    | 1.105<br>1.025                                  | 1.450<br>1.300                                  |
| N              | THIN WALL FIRESLEEVE<br>INTEGRAL SILICONE<br>(15 MINUTES) /11/ /12/               | 400                 | MAX<br>MIN | .625<br>.490                                    | .725<br>.585                                    | .850<br>.715                                    | .955<br>.820                                    | 1.230<br>1.080                                  | 1.515<br>1.370                                  |

**TABLE 3 - HOSE ASSEMBLY LENGTH TOLERANCES**

| 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%        |



**AEROSPACE STANDARD**

HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE,  
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BEAM SEAL, STRAIGHT TO STRAIGHT

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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 /22/                                                  | LB/EA | .025           | .025           | .025           | .026           | .026           | .033            |
| NONE                | FITTING END (STRAIGHT) /22/                                            | LB/EA | .060           | .088           | .142           | .225           | .355           | .530            |

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 | STRAIGHT FITTING |
|-----------|------------------|
| 04        | .122             |
| 06        | .216             |
| 08        | .306             |
| 10        | .369             |
| 12        | .459             |
| 16        | .684             |



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