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AS1914™

FEDERAL SUPPLY CLASS  
4720

## 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); ADDED G SLEEVE CODE.

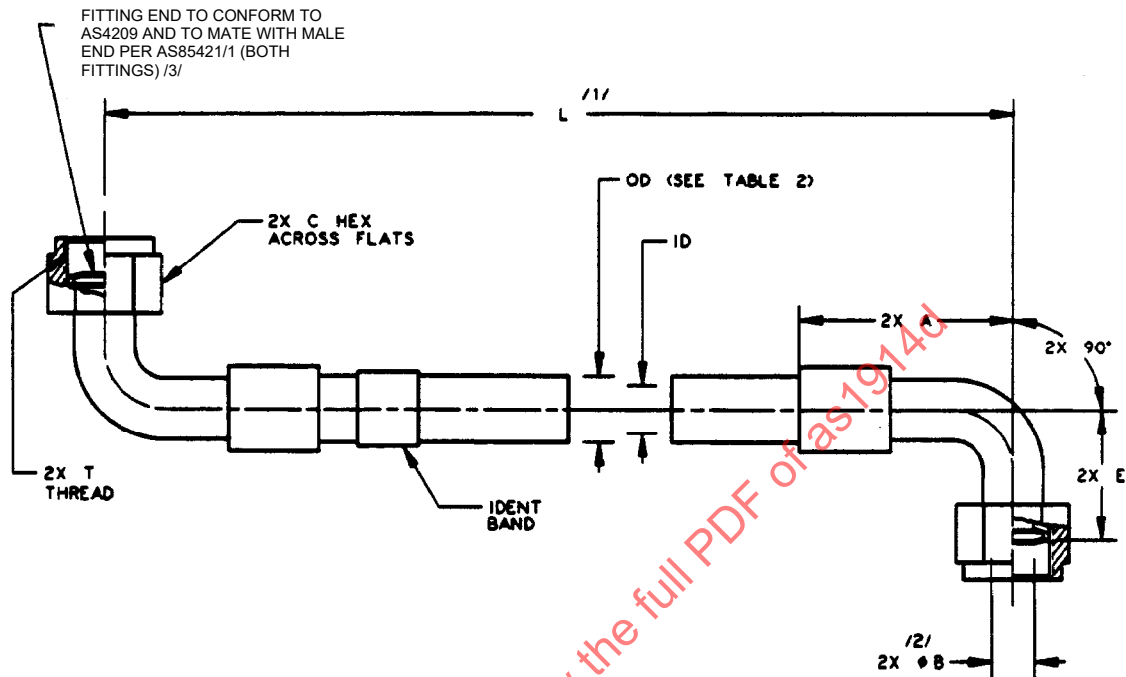


FIGURE 1 - HOSE AND FITTING DIMENSIONS

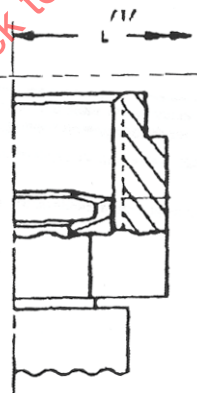
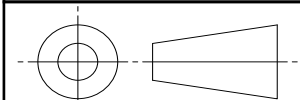


FIGURE 2 - FITTINGS  
(ENLARGED VIEW)

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS1914D/>

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, 90 TO 90 DEGREES

AS1914™  
SHEET 1 OF 7

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ISSUED 1985-08 REAFFIRMED 2015-01 REVISED 2022-12

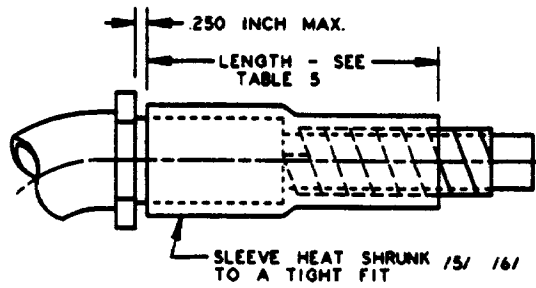


FIGURE 3 - ABRASION SLEEVE RETENTION

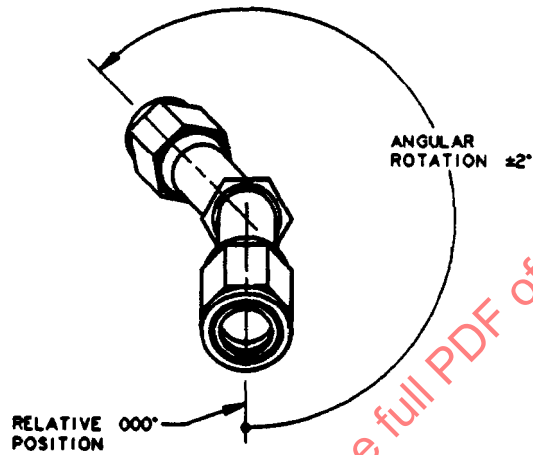


FIGURE 4 - FITTING ANGULAR ORIENTATION

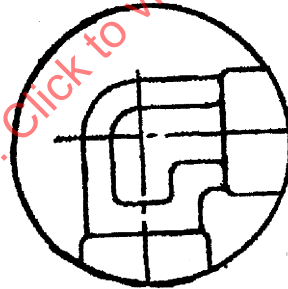


FIGURE 5 - ALTERNATE ELBOW CONFIGURATION /21/

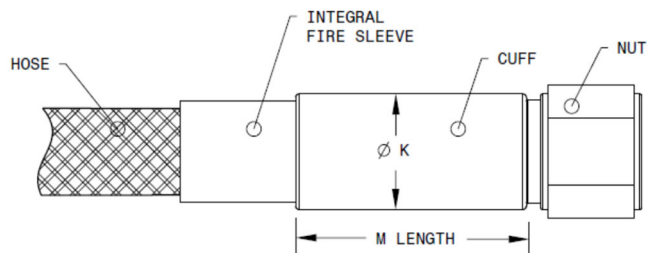


FIGURE 6 - INTEGRAL FIRESLEEVE CUFF DIMENSIONS - SEE TABLE 7 /28/

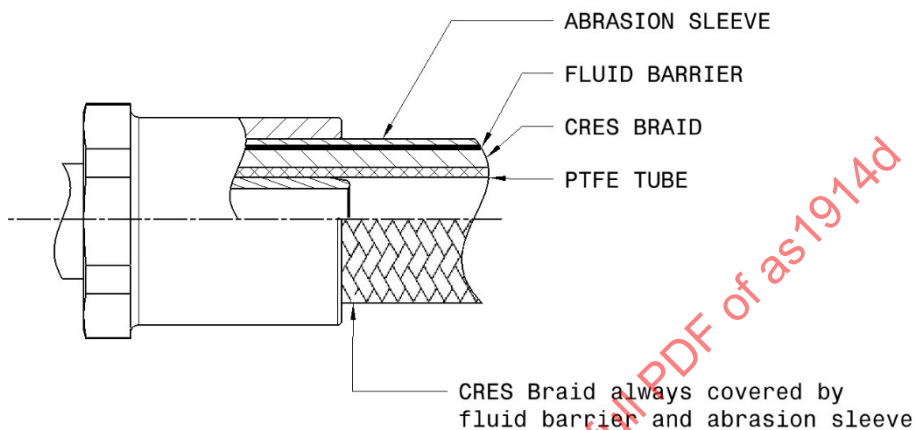


FIGURE 7 - FITTING CAPTURED INTEGRAL ABRASION SLEEVE WITH FLUID BARRIER /29/

TABLE 1 - HOSE AND FITTING ASSEMBLY

| HOSE<br>ASSEMBLY<br>AS1914<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) | E<br>MIN | E<br>MAX |
|-----------------------------------------|---------------|---------------------------------|----------|---------------------|-------------------|----------|----------|
| E                                       | .250          | .4375-24 UNJS-3B                | 1.69     | .135                | .56               | .795     | .983     |
| G                                       | .375          | .5625-20 UNJS-3B                | 2.21     | .240                | .69               | 1.000    | 1.125    |
| H                                       | .500          | .7188-20 UNJS-3B                | 2.10     | .340                | .88               | 1.033    | 1.240    |
| J                                       | .625          | .8438-18 UNJS-3B                | 2.29     | .410                | 1.00              | 1.258    | 1.445    |
| K                                       | .750          | 1.0000-16 UNJ-3B                | 2.79     | .510                | 1.125             | 1.530    | 1.954    |
| M                                       | 1.000         | 1.2500-14 UNJS-3B               | 3.20     | .760                | 1.50              | 1.795    | 1.920    |

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

| SLEEVE<br>CODE | SLEEVE MATERIAL                                                                   | TEMP.<br>LIMIT<br>°F | TOLE-<br>RANCE | HOSE OR<br>SLEEVE<br>OUTSIDE<br>DIAMETER | HOSE OR<br>SLEEVE<br>OUTSIDE<br>DIAMETER | HOSE OR<br>SLEEVE<br>OUTSIDE<br>DIAMETER | HOSE OR<br>SLEEVE<br>OUTSIDE<br>DIAMETER | HOSE OR<br>SLEEVE<br>OUTSIDE<br>DIAMETER | HOSE OR<br>SLEEVE<br>OUTSIDE<br>DIAMETER |
|----------------|-----------------------------------------------------------------------------------|----------------------|----------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
|                |                                                                                   |                      |                | 1/4/<br>HOSE<br>SIZE<br>.250             | 1/4/<br>HOSE<br>SIZE<br>.375             | 1/4/<br>HOSE<br>SIZE<br>.500             | 1/4/<br>HOSE<br>SIZE<br>.625             | 1/4/<br>HOSE<br>SIZE<br>.750             | 1/4/<br>HOSE<br>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              | FIRE SLEEVE (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              | FIRE SLEEVE (AS1072 SIL-FG)<br>(5 MINUTES) /7/ /8/ /26/                           | 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              | FIRE SLEEVE INTEGRAL<br>SILICONE (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              | FIRE SLEEVE INTEGRAL<br>SILICONE (5 MINUTES) /26/ /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 /29/ | 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 FIRE SLEEVE<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%        |

TABLE 4 - HOSE WEIGHT MAX - ALL OTHERS REF

| HOSE<br>OR<br>SLEEVE<br>CODE | HOSE OR TYPE SLEEVE                                                       | UNITS | HOSE<br>SIZE<br>.250 | HOSE<br>SIZE<br>.375 | HOSE<br>SIZE<br>.500 | HOSE<br>SIZE<br>.625 | HOSE<br>SIZE<br>.750 | HOSE<br>SIZE<br>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<br>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<br>SLEEVE (BRAIDED) WITH FLUID BARRIER | LB/IN | .004                 | .005                 | .006                 | .007                 | .010                 | .015                  |
| N                            | THIN WALL FIRESLEEVE INTEGRAL (15 MINUTES)<br>WITH HOSE                   | LB/IN | .018                 | .026                 | .034                 | .045                 | .098                 | .117                  |
| NONE                         | FIRESLEEVE CLAMP /24/                                                     | LB/EA | .025                 | .025                 | .025                 | .026                 | .026                 | .033                  |
| NONE                         | FITTING END (90°) /24/                                                    | LB/EA | .060                 | .100                 | .150                 | .250                 | .430                 | .680                  |

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<br>(INCHES) |
|-----------|-----------------------|
| E         | .115                  |
| G         | .204                  |
| H         | .289                  |
| J         | .349                  |
| K         | .434                  |
| M         | .646                  |

TABLE 7 - INTEGRAL FIRESLEEVE CUFF DIMENSIONS /28/

| HOSE SIZE | "K" MAX<br>(INCHES) | "M" MAX<br>(INCHES) |
|-----------|---------------------|---------------------|
| E         | .96                 | 2.05                |
| G         | 1.08                | 2.18                |
| H         | 1.22                | 2.55                |
| J         | 1.37                | 2.67                |
| K         | 1.54                | 2.67                |
| M         | 1.87                | 3.10                |



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CRES REINFORCED, 400 °F, 3000 PSI, LIGHTWEIGHT,  
BEAM SEAL, 90 TO 90 DEGREES

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