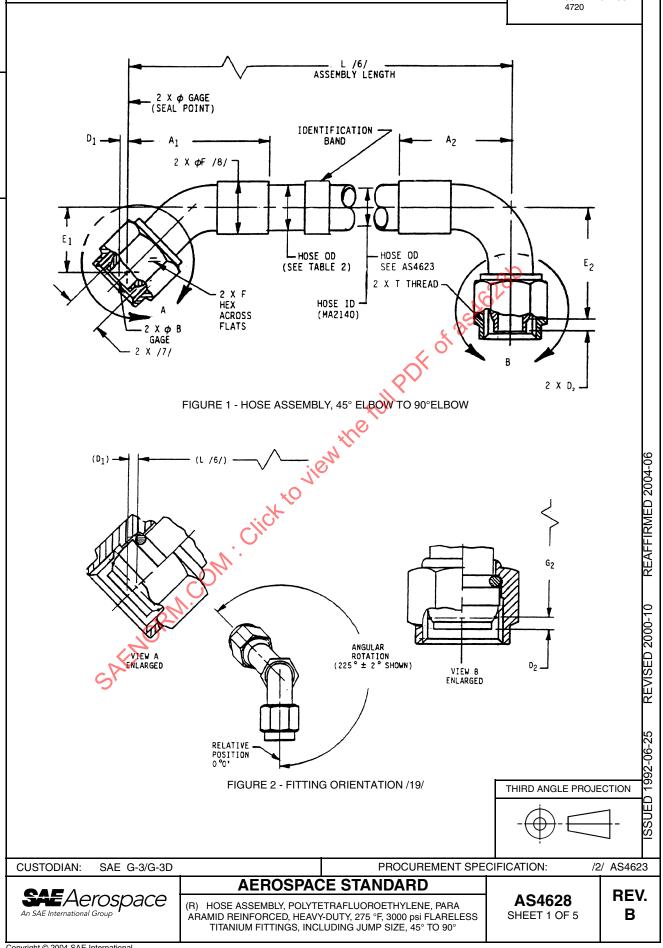
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**AS4628** 

TABLE 1 - HOSE AND FITTING DIMENSIONS

| BASIC HOSE<br>ASSEMBLY<br>NO. AS4628<br>SIZE CODE | SIZE  | THREAD T<br>PER AS 8879            | A<br>MAX       | A2<br>MAX | B GAGE<br>BASIC                 | (C)<br>HEX | 01  | 02         | E <sub>1</sub> | E1<br>MIN    | E2<br>MAX     | E2<br>MIN     | r X         | BALL SIZE<br>MIN<br>THRU<br>/7/<br>IN |
|---|-------|------------------------------------|----------------|-----------|---------------------------------|------------|-----|------------|----------------|--------------|---------------|---------------|-------------|---------------------------------------|
| шо  | .250  | .3375-20UNJF-3B<br>.5625-18UNJF-3B | 2.160          | 1.180     | .2930                           | 95.<br>69. | .11 | .16<br>.16 | .500           | .350         | .840          | .645<br>.715  | 99.         | .109                                  |
| ェつ  | .500  | .7500-16UNJF-3B<br>.8750-14UNJF-3B | 2.740<br>3.785 | 2.538     | .5600                           | .88        | .13 | .19        | .560           | .435<br>.545 | .970<br>1.210 | .845<br>1.085 | .97<br>1.15 | .313<br>.375                          |
| ¥¥  | .750  | 1.0625-12UNJ-38<br>1.3125-12UNJ-38 | 4.810          | 3.940     | .8100<br>1.0620                 | 1.25       | .16 | .23        | .705<br>.840   | .580<br>.715 | 1.400         | 1.275         | 1.38        | .469<br>.719                          |
| z   | 1.250 | 1.5625-12UNJ-3B                    | 6.770          | 5.310     | 6.770 5.310 1.3160 1.81 .03 .04 | 1.81       | .03 | 9.         | .875           | . 750        | 1.825         | 1.825 1.700   | 2.32        | .875                                  |
|   |       |                                    | 4              | ×         |                                 |            |     |            |                |              |               |               |             |                                       |

TABLE 2 - HOSE OR SLEŠVE OUTSIDE DIAMETERS /10/

| (-) INDICATES HOSE ONLY 275   |            |                            | TEMP.  |             | ટે `       | £\             |             |             |             |             |
|---|------------|----------------------------|--------|-------------|------------|----------------|-------------|-------------|-------------|-------------|
| SLEEVE MATERIAL From the control of | SLEEVE     |                            | LIMIT  |             | HOSE SIZE  | CHOSE SIZE     | HOSE SIZE   | HOSE SIZE   | <b>—</b>    | HOSE SIZE   |
| (-) INDICATES HOSE ONLY 275 NO SLEEVE (SEE AS4623) FIRESLEEVE (AS1072 SIL-FG) 275 (5 min) /11 /12 /13/ ABRASION SLEEVE SHRINK-ON 275 (POLYOLEFIN AS1073-CODE B)   | CODE       | SLEEVE MATERIAL            | ት<br>የ |             | .375       | .500           | . 625       | . 750       |             | 1.250       |
| (-) INDICATES HOSE ONLY 275 NO SLEEVE (SEE AS4623) FIRESLEEVE (AS1072 SIL-FG) 275 (5 min) /11/ /12/ /13/ ABRASION SLEEVE SHRINK-ON 275 (POLYOLEFIN AS1073-CODE B)   |            |                            |        |             |            | O <sub>K</sub> |             |             |             |             |
| NO SLEEVE (SEE AS4623) FIRESLEEVE (AS1072 SIL-FG) 275 (5 min) /11/ /12/ /13/ ABRASION SLEEVE SHRINK-ON 275 (POLYOLEFIN AS1073-CODE B)   | ,          | (-) INDICATES HOSE ONLY    | 275    | ;           | i          | (<br>          | 1           | :           | 1           | ;           |
| FIRESLEEVE (AS1072 SIL-FG) 275 (5 min) /11/ /12/ /13/ ABRASION SLEEVE SHRINK-ON 275 (POLYOLEFIN AS1073-CODE B) /20/   |            | NO SLEEVE (SEE AS4623)     |        |             |            | <b>)</b> ,     | ٤           |             |             |             |
| (5 min) /11/ /12/ /13/ ABRASION SLEEVE SHRINK-ON 275 (POLYOLEFIN AS1073-CODE B) /20/  | ⋖          | FIRESLEEVE (AS1072 SIL-FG) | 275    | .930/.730   | 1.070/.880 | 1.205/1.015    | 15370/1.130 | 1.590/1.380 | 1.847/1.677 | 2.130/1.950 |
| ABRASION SLEEVE SHRINK-ON 275 .<br>(POLYOLEFIN ASI073-CODE B)<br>/20/   |            | (5 min) /11/ /12/ /13/     |        |             |            |                | SIS         |             |             |             |
|   | <b>6</b> 0 | ABRASION SLEEVE SHRINK-ON  | 275    | . 596/. 524 | .760/.680  | .905/ .825     | 1.030/<940  | 1.302/1.198 | 1.599/1.495 | 1.884/1.776 |
| /50/  |            | (POLYOLEFIN AS1073-CODE B) |        |             |            |                | 3           |             |             |             |
|   |            | /20/                       |        |             |            |                | 8           |             |             |             |



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|                          |           |                       |              |   |               |               | AS4628        |               | REV.<br>B |
|--------------------------|-----------|-----------------------|--------------|---|---------------|---------------|---------------|---------------|-----------|
|                          | TABL      | E 3 - HOSE /          | ASSEMBLY LI  | TABLE 3 - HOSE ASSEMBLY LENGTH TOLERANCES | NCES          |               |               |               |           |
| Ó                        | HOSE      | ASSEMBLY LENGTH       | ENGTH        | TOLERANCE                                 | —<br> <br>    |               |               |               |           |
| 3                        | IJNDFF    | B 18 in               |              | + 125 in                                  |               |               |               |               |           |
| K                        | 18 TO     | 36 in EXCLUSIVE       | SIVE         | ±.250 in                                  |               |               |               |               |           |
| 4                        | 36 to 5(  | 36 to 50 in EXCLUSIVE | IVE          | ±.500 in                                  |               |               |               |               |           |
| SP.                      | 50 in A   | 50 in AND OVER        |              | ±1%                                       |               |               |               |               |           |
| W.                       | Č         |                       |              |   | ļ             |               |               |               |           |
|                          | A CA      | BLE 4                 | IMUM HOSE A  | - MAXIMUM HOSE AND FITTING WEIGHTS        | HTS           |               |               |               |           |
|                          | · · · · · | HOSE                  | HOSE         | HOSE                                      | HOSE          | HOSE          | HOSE          | HOSE          |           |
| PART OR SLEEVE           | UNITS     | SIZE<br>.250          | S1ZE<br>.375 | S1ZE<br>. 500                             | SIZE<br>. 625 | S12E<br>. 750 | SIZE<br>1.000 | SIZE<br>1.250 |           |
| (SEE AS4623)             | LB/IN     | 70,                   | i            | !   | 1             | 1             | 1             | :             |           |
| E (AS1072 SIL-FG)<br>14/ | LB/IN     | 1                     | en i         | 1   | ;             | ;             | ;             | ;             |           |
| SLEEVE (AS1073<br>20/    | LB/IN     | .0018                 | .00tB        | . 0032                                    | . 0032        | . 0049        | . 0082        | . 0082        |           |
| E CLAMP                  | LB/EA     | . 020                 | 020          | Q.021                                     | .021          | . 025         | . 025         | . 032         |           |
| ND (45°)                 | LB/EA     | 990.                  | .110         | O.  | .275          | . 535         | .944          | TBD /9/       |           |
| (°06) ON                 | LB/EA     | .077                  | .121         | .176                                      | .297          | . 560         | .947          | TBD /9/       |           |
|                          |           |                       |              |   | 280           |               |               |               |           |

HOSE ONLY (SEE AS4623)

HOSE PART OR SLEEVE

HOSE OR SLEEVE CODE

FIRESLEEVE (AS1072 SIL-FG) (5 min) /14/

ABRASION SLEEVE (AS1073 - CODE B) /20/

FIRESLEEVE CLAMP

FITTING END (45°) /15/

FITTING END (90°) /15/

NONE

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## NOTES:

- 1. MATERIALS:
  - HOSE AND FITTINGS PER AS4623.
  - THE COLLARS MAY BE STAINLESS STEEL /15/. b.
  - SLEEVES SEE APPLICABLE STANDARDS, TABLE 2.
- THIS HOSE ASSEMBLY STANDARD SHALL BE QUALIFIED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION AS4623. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.

CHANGE-OVER FROM USER-QPL TO PRI-QPL SHALL BE PERFORMED IN ACCORDANCE WITH AS4623B, AND COMPLETED WITHIN 6 MONTHS FROM THE DATE OF ISSUE OF PRI-QPL-AS4623. USERS OF THIS STANDARD SHALL PROCURE THE PRODUCT FROM ACCREDITED MANUFACTURERS, OR THEIR ACCREDITED DISTRIBUTORS, AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST OF PRI-QPL-AS4623 FOR THIS STANDARD.

- 3. CONSTRUCTION AND PERFORMANCE PER AS4623. FITTINGS SHALL BE PERMANENTLY ATTACHED TO HOSE.
- OPERATING CHARACTERISTICS PER AS4623.
- MARKING: MARKING SHALL BE PER AS4623 ON A STAINLESS STEEL BAND NOT OVER 1.0 in WIDE OR ON THE COLLAR. THE CHARACTERS SHALL BE A MINIMUM OF .06 in HIGH. THE BAND SHALL BE SO DESIGNED AS TO REMAIN TIGHT ON THE HOSE TO PREVENT RELATIVE MOVEMENT AND RESULTANT CHAFING. IT SHALL BE OF SUFFICIENT STRENGTH TO PREVENT REMOVAL BY HAND. HOSE ASSEMBLY DATE AND "PT" SYMBOL SHALL BE PERMANENTLY MARKED ON THE BAND OR ON AN END FITTING OR A FIRESLEEVE CLAMP. MARKING BAND SHALL BE COVERED WITH TRANSPARENT POLYOLEFIN SHRINK SLEEVE PER AS 1073 CODE A.
- /6/ HOSE LENGTH: LENGTH "L" IS A THREE DIGIT NUMBER OF WHICH THE FIRST TWO DIGITS DESCRIBE THE HOSE ASSEMBLY LENGTH IN WHOLE INCHES, AND THE THIRD DIGIT, THE FRACTION OF AN INCH IN EIGHTHS. LENGTH "L" IS MEASURED FROM "GAGE DIAMETER" TO "GAGE DIAMETER". FOR LENGTH TOLERANCES, SEE TABLE 3. TO CONVERT "GAGE DIAMETER" TO "GAGE DIAMETER" TO "END TO END" MEASUREMENT, ADD D₁ TO LENGTH "L".
- HOSE ASSEMBLY INSIDE DIAMETER SHALL BE VERIFIED BY PASSING THE DESIGNATED, OR LARGER, SPHERICAL BALL PER TABLE 1 THROUGH THE HOSE ASSEMBLY.
- DISTANCE ACROSS CORNERS OF COUPLING NUT MAY EXCEED THIS DIMENSION.
- FITTING ENDS SIZE -4 THRU -16 MUST COMPLY WITH NAS1760; FITTINGS FOR HOSE SIZE -20 AND LARGER TO COMPLY WITH AS4703. FITTINGS SHALL MATE WITH AS33514 OR AS4375. FOR SIZES THRU -16 AND WITH AS4658 OR AS4659 IN SIZES -20 AND LARGER. -20 AND LARGER NUTS SHALL CONFORM TO AS4660 OR AS4702. STANDARD COUPLING NUTS SHALL BE IN ACCORDANCE WITH OR EQUIVALENT TO AS1790 OR AS1792.
- /10/ CLAMP DIAMETERS: DIAMETERS ARE LISTED FOR CLAMP SELECTION. TUBULAR SLEEVES MAY NOT BE A PERFECT ROUND AND SHALL BE MEASURED WITH A DIAMETER TAPE RULE (OFTEN REFERRED TO AS A PI-TAPE).
- SLEEVE DIAMETERS: THE TABLE 2 SLEEVE DIAMETERS FOR AS1072 SLEEVES APPLY WHEN THE SLEEVE IS COMPRESSED, OR CLAMPED TO CONTACT THE HOSE, IN THIS CASE, A WRINKLE MAY OCCUR OVER APPROXIMATELY 10% OF THE SLEEVE CIRCUMFERENCE.
- FIRESLEEVE: THE CUT ENDS OF THE FIRESLEEVE SHALL BE COATED WITH RTV SILICONE RUBBER PRIOR TO INSTALLATION TO PREVENT WICKING OF FLUIDS. THE FIRESLEEVE ENDS SHALL BE SECURED TO THE HOSE ASSEMBLY END FITTINGS WITH CORROSION RESISTANT STEEL BANDS. AFTER INSTALLATION, CRACKS OR VOIDS IN THE FIRESLEEVE. WHICH EXPOSE THE FIBERGLASS. SHALL BE COATED WITH RTV SILICONE RUBBER.
- /13/ IDENTIFICATION MARKING: ADD "AS1055 TYPE IIb CLASS A-S/P" TO IDENTIFICATION MARKING TO SHOW LEVEL OF COMPLIANCE, "FIRE RESISTANT 275 °F (5 min), WITH AS1055."
- WHEN FIRESLEEVES ARE REQUIRED, WEIGHT LIMITS SHALL BE DEFINED BY THE PROCURING AUTHORITY. /14/
- TITANIUM PARTS MAY BE REPLACED WITH STAINLESS STEEL IF MAXIMUM WEIGHT FOR FITTING IS NOT EXCEEDED.
- DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.
- 17. SAFETY WIRE HOLES LOCATION AND DIAMETER PER AS1043 CODED AS FOLLOWS:
  - U = TWO HOLES 180° APART
  - W = THREE HOLES 120° APART



## AEROSPACE STANDARD