

RATIONALE

AS5503A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

REV.
A

SAE AS5503

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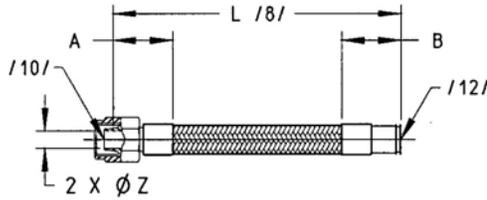


FIGURE 1 - STYLE A

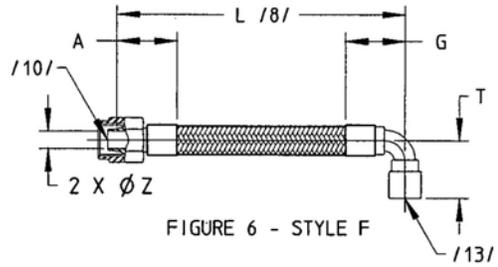


FIGURE 6 - STYLE F

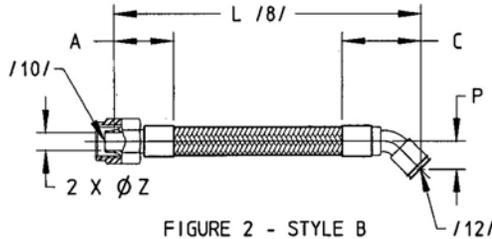


FIGURE 2 - STYLE B

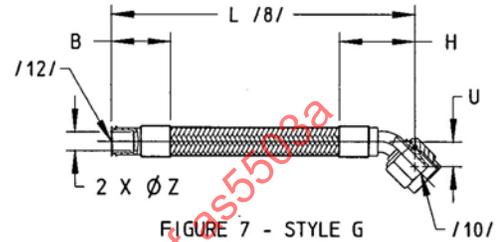


FIGURE 7 - STYLE G

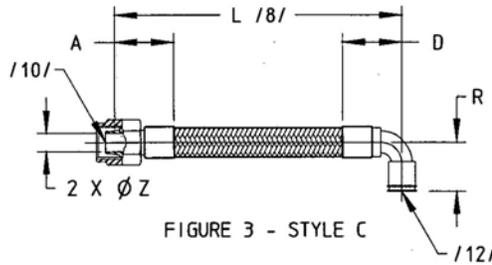


FIGURE 3 - STYLE C

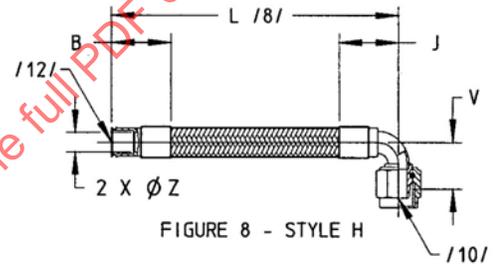


FIGURE 8 - STYLE H

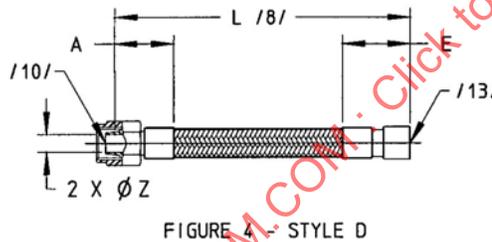


FIGURE 4 - STYLE D

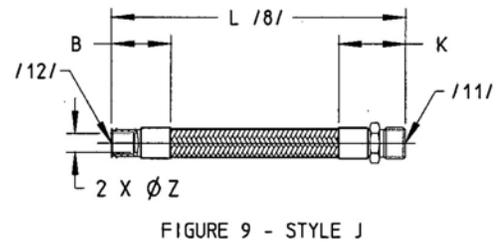


FIGURE 9 - STYLE J

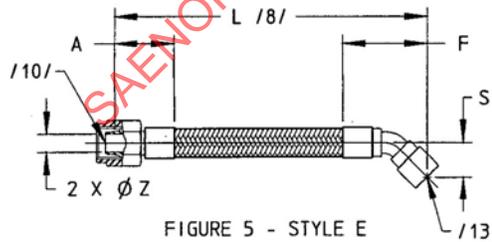


FIGURE 5 - STYLE E

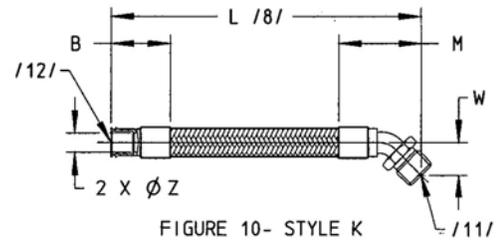
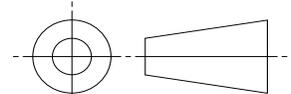


FIGURE 10 - STYLE K

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: AS4468 /2/

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

HOSE ASSEMBLY, LINED SILICONE,
125 PSI, FLARELESS TO FIXED CAVITY,
POTABLE WATER

SAE AS5503
SHEET 1 OF 5

REV. A

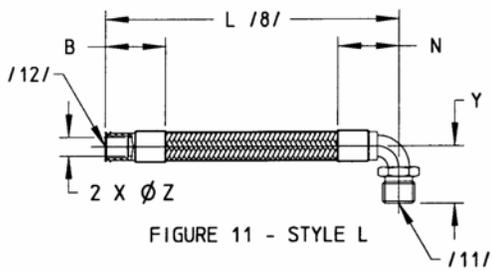


FIGURE 11 - STYLE L

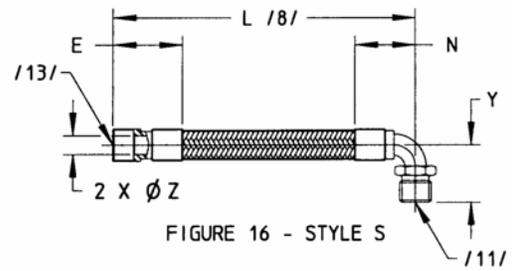


FIGURE 16 - STYLE S

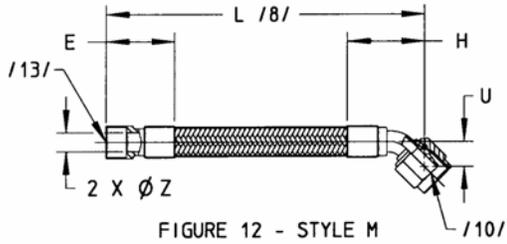


FIGURE 12 - STYLE M

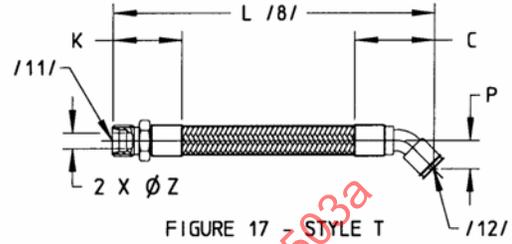


FIGURE 17 - STYLE T

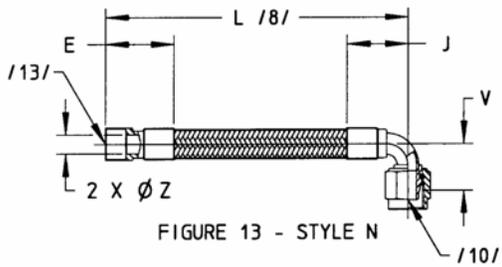


FIGURE 13 - STYLE N

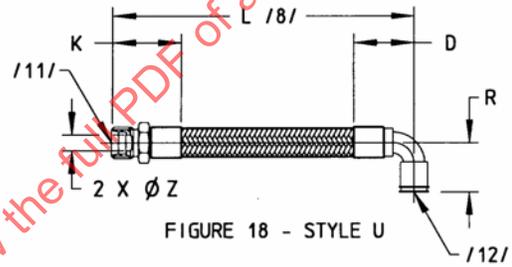


FIGURE 18 - STYLE U

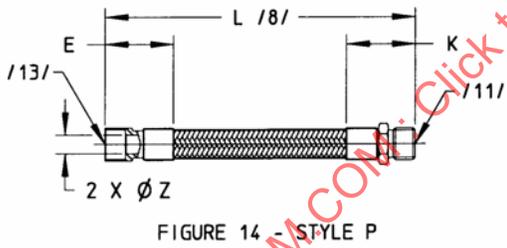


FIGURE 14 - STYLE P

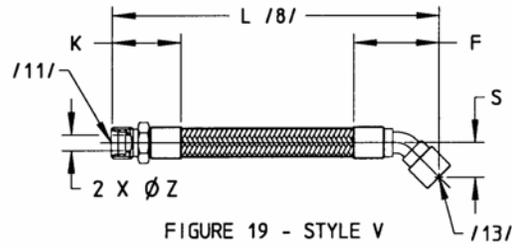


FIGURE 19 - STYLE V

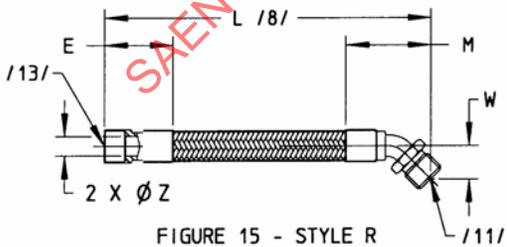


FIGURE 15 - STYLE R

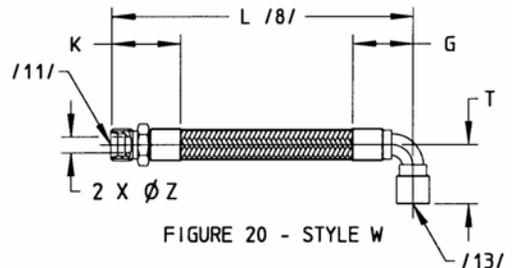


FIGURE 20 - STYLE W

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TABLE 1A - FITTING DIMENSIONS A-N

| LETTER SIZE CODE | HOSE SIZE REF | A | B | C | D | E | F | G | H | J | K | M | N |
|------------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | MAX |
| H | .500 | 1.28 | 1.40 | 1.73 | 1.39 | 1.60 | 1.81 | 1.39 | 1.64 | 1.39 | 1.52 | 1.82 | 1.39 |
| J | .625 | 1.38 | 1.40 | 1.88 | 1.57 | 1.60 | 1.93 | 1.57 | 1.83 | 1.57 | 1.66 | 2.02 | 1.57 |
| K | .750 | 1.53 | 1.53 | 2.39 | 2.05 | 1.84 | 2.45 | 2.05 | 2.19 | 2.05 | 1.87 | 2.54 | 2.05 |
| M | 1.000 | 1.57 | 1.73 | 2.48 | 2.17 | 1.92 | 2.60 | 2.17 | 2.42 | 2.17 | 1.89 | 2.63 | 2.17 |

TABLE 1B - FITTING DIMENSIONS P-Y

| LETTER SIZE CODE | HOSE SIZE REF | P | R | S | T | U | V | W | Y | Z THRU (REF) |
|------------------------|---------------------|-----------|-------------|------------|-------------|-----------|-------------|------------|-------------|--------------------|
| | | H | .500 | .57 - .66 | 1.09 - 1.20 | .66 - .74 | 1.22 - 1.30 | .49 - .61 | .98 - 1.11 | .67 - .74 |
| J | .625 | .61 - .70 | 1.24 - 1.34 | .69 - .76 | 1.35 - 1.43 | .59 - .71 | 1.21 - 1.33 | .78 - .85 | 1.49 - 1.56 | .555 |
| K | .750 | .75 - .85 | 1.54 - 1.68 | .87 - .94 | 1.74 - 1.82 | .61 - .77 | 1.37 - 1.57 | .96 - 1.03 | 1.86 - 1.93 | .660 |
| M | 1.000 | .80 - .92 | 1.71 - 1.85 | .96 - 1.04 | 1.94 - 2.02 | .74 - .85 | 1.62 - 1.76 | .99 - 1.06 | 1.99 - 2.06 | .915 |

TABLE 2A - FITTING DEDUCT LENGTHS AND NOMINAL WEIGHTS FIGURES 1-8 (REF) /9/

| LETTER SIZE CODE | STYLE A | | STYLE B | | STYLE C | | STYLE D | | STYLE E | | STYLE F | | STYLE G | | STYLE H | |
|------------------------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|
| | DED | FTG |
| | LG | WT |
| H | 1.35 | .150 | 1.76 | .166 | 1.42 | .170 | 1.61 | .167 | 1.84 | .178 | 1.42 | .183 | 1.71 | .158 | 1.47 | .163 |
| J | 1.45 | .198 | 1.97 | .223 | 1.70 | .231 | 1.71 | .218 | 2.05 | .237 | 1.70 | .245 | 1.90 | .214 | 1.65 | .223 |
| K | 1.49 | .350 | 2.32 | .388 | 2.00 | .401 | 1.78 | .377 | 2.41 | .406 | 2.00 | .420 | 2.16 | .364 | 2.01 | .378 |
| M | 1.58 | .476 | 2.48 | .528 | 2.17 | .549 | 1.90 | .504 | 2.59 | .546 | 2.17 | .566 | 2.43 | .517 | 2.19 | .537 |

TABLE 2B - FITTING DEDUCT LENGTHS AND NOMINAL WEIGHTS FIGURES 9-16 (REF) /9/

| LETTER SIZE CODE | STYLE J | | STYLE K | | STYLE L | | STYLE M | | STYLE N | | STYLE P | | STYLE R | | STYLE S | |
|------------------------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|
| | DED | FTG |
| | LG | WT |
| H | 1.60 | .113 | 1.89 | .124 | 1.47 | .129 | 1.97 | .175 | 1.73 | .180 | 1.86 | .130 | 2.15 | .141 | 1.73 | .146 |
| J | 1.69 | .149 | 2.09 | .173 | 1.65 | .181 | 2.16 | .234 | 1.91 | .243 | 1.95 | .169 | 2.35 | .193 | 1.91 | .201 |
| K | 1.84 | .260 | 2.50 | .289 | 2.01 | .303 | 2.45 | .391 | 2.30 | .405 | 2.13 | .287 | 2.79 | .316 | 2.30 | .330 |
| M | 1.93 | .359 | 2.64 | .389 | 2.19 | .409 | 2.75 | .545 | 2.51 | .565 | 2.25 | .387 | 2.96 | .417 | 2.51 | .437 |

TABLE 2C - FITTING DEDUCT LENGTHS AND NOMINAL WEIGHTS FIGURES 17-20 (REF) /9/

| LETTER SIZE CODE | STYLE T | | STYLE U | | STYLE V | | STYLE W | |
|------------------------|------------|------|------------|------|------------|------|------------|------|
| | DED | FTG | DED | FTG | DED | FTG | DED | FTG |
| | LG | WT | LG | WT | LG | WT | LG | WT |
| H | 2.01 | .129 | 1.67 | .133 | 2.09 | .141 | 1.67 | .146 |
| J | 2.21 | .174 | 1.94 | .182 | 2.29 | .188 | 1.94 | .196 |
| K | 2.67 | .298 | 2.35 | .311 | 2.76 | .316 | 2.35 | .330 |
| M | 2.83 | .411 | 2.52 | .432 | 2.94 | .429 | 2.52 | .449 |

TABLE 3 - HOSE DATA

| LETTER SIZE CODE | HOSE SIZE REF | ID (REF) | OD MAX | NOM WT/IN (REF) | MIN BEND RAD |
|------------------------|---------------------|-------------|-----------|-----------------------|--------------------|
| H | .500 | .500 | .700 | .0081 | 1.00 |
| J | .625 | .625 | .850 | .0111 | 1.25 |
| K | .750 | .750 | .980 | .0137 | 1.50 |
| M | 1.000 | 1.000 | 1.230 | .0182 | 2.00 |

TABLE 4 - HOSE ASSEMBLY LENGTH TOLERANCE

| HOSE ASSEMBLY LENGTH | PREFERRED INCREMENTS | TOLERANCE |
|------------------------|-----------------------|--------------|
| UNDER 18 IN | (NOT LESS THAN) .125 | +.125/- .125 |
| 18 TO 36 IN EXCLUSIVE | (NOT LESS THAN) .250 | +.250/- .250 |
| 36 TO 100 IN EXCLUSIVE | (NOT LESS THAN) .500 | +.375/- .375 |
| 100 IN AND OVER | (NOT LESS THAN) 1.000 | +5%/- .500 |

NOTES:

1. MATERIAL AND FINISH: PER AS4468, TABLE 1. ALL FITTING COMPONENTS 300 SERIES CORROSION RESISTANT STEEL, PASSIVATED.
- /2/ PROCUREMENT SPECIFICATION: AS4468 EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED AND ASSEMBLED BY AN ACCREDITED MANUFACTURER OR ASSEMBLED BY AN ACCREDITED DISTRIBUTOR LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST (QPL) PRI QPL AS4468 FOR THIS STANDARD. SEE www.eauditnet.com FOR CURRENT QPL ON LINE.
3. INTENDED USE: THESE HOSE ASSEMBLIES ARE INTENDED FOR USE IN POTABLE WATER SYSTEM INSTALLATIONS WHERE A HIGH DEGREE OF FLEXIBILITY IS REQUIRED.
4. IDENTIFICATION: PER AS4468.
5. OPERATING CHARACTERISTICS:
 - a. OPERATING TEMPERATURE: -65 TO +160 °F (-54 TO +71 °C).
 - b. OPERATING PRESSURE: 125 PSI MAX
6. FUNCTIONAL TEST AND CLEANING: PER AS4468.
7. CONSTRUCTION: PER AS4468.
- /8/ LENGTH "L" IS A FOUR-DIGIT NUMBER OF WHICH THE FIRST THREE DIGITS DESCRIBE THE HOSE ASSEMBLY LENGTH IN WHOLE INCHES, AND THE FOURTH DIGIT THE FRACTION OF AN INCH IN EIGHTHS. LENGTH "L" IS MEASURED TO "GAGE POINT" ON ASSEMBLIES WITH FLARELESS SWIVEL END FITTINGS. SEE TABLE 4 FOR LENGTH TOLERANCES.
- /9/ HOSE WEIGHT PLUS FITTING WEIGHT EQUALS HOSE ASSEMBLY WEIGHT. FOR DETERMINING HOSE WEIGHT, DEDUCT APPROPRIATE LENGTH CORRECTION FACTOR FROM EACH END OF THE ASSEMBLY LENGTH. SEE TABLE 2 FOR DEDUCT LENGTHS AND FITTING WEIGHTS.
- /10/ FITTING END IN ACCORDANCE WITH NAS1760-(SIZE) EXCEPT AS NOTED.
- /11/ FITTING END IN ACCORDANCE WITH AS4375-(SIZE) EXCEPT AS NOTED.

| | | | |
|---|--|-----------------------------------|-------------------------|
|  An SAE International Group | AEROSPACE STANDARD | SAE AS5503 SHEET 4 OF 5 | REV. A |
| | HOSE ASSEMBLY, LINED SILICONE, 125 PSI, FLARELESS TO FIXED CAVITY, POTABLE WATER | | |