

REV.  
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AS4803

FEDERAL SUPPLY CLASS  
4720

# RATIONALE

THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

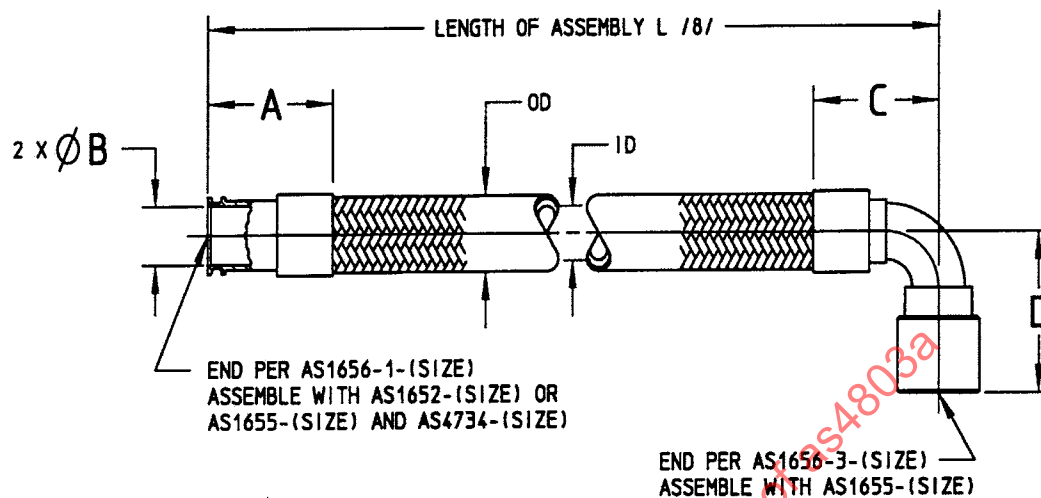


FIGURE 1 - HOSE ASSEMBLY

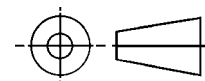
TABLE 1 - BASIC HOSE AND END FITTING DIMENSIONS

BASIC NO. AND SIZE CODE	HOSE SIZE (REF)	A MAX	B MIN	C MAX	D MIN	D MAX	ID (REF)	OD MIN	OD MAX
AS4803-08	.500	1.40	.425	1.39	1.226	1.286	.500	.65	.73
AS4803-10	.625	1.40	.550	1.57	1.357	1.417	.625	.81	.85
AS4803-12	.750	1.53	.654	2.05	1.742	1.802	.750	.94	.98
AS4803-16	1.000	1.73	.909	2.17	1.946	2.006	1.000	1.19	1.23

TABLE 2 - 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

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: AS4468 /2/

**SAE Aerospace**  
An SAE International Group

(R) **AEROSPACE STANDARD**  
HOSE ASSEMBLY, LINED SILICONE,  
125 PSI, FIXED CAVITY COUPLING, POTABLE WATER,  
STRAIGHT MALE TO 90° FEMALE

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TABLE 3 - HOSE ASSEMBLY WEIGHT INFORMATION

HOSE SIZE CODE	HOSE lb/in NOM (REF)	END FITTING	END FITTING	HOSE LENGTH	HOSE LENGTH
		lb/EA STRAIGHT NOM (REF)	lb/EA 90° NOM (REF)	CORRECTION FACTOR, in /9/ STRAIGHT	CORRECTION FACTOR, in /9/ 90°
08	.0081	.038	.071	.75	.77
10	.0111	.047	.094	.75	.95
12	.0137	.083	.153	.79	1.26
16	.0182	.118	.208	.92	1.39

## NOTES:

1. MATERIAL AND FINISH: PER AS4468, TABLE 1. ALL FITTING COMPONENTS 300 SERIES CORROSION RESISTANT STEEL, PASSIVATED.
- /2/ THIS PRODUCT SHALL BE QUALIFIED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION AS4468. USERS OF THIS STANDARD SHALL PROCURE THIS PRODUCT FROM ACCREDITED MANUFACTURER(S) OR THEIR ACCREDITED DISTRIBUTOR(S) AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST (QPL) QPL-AS4468 FOR THIS STANDARD. AS4468 IS BEING REVISED TO SPECIFY PRI-QPL TO REPLACE USER-QPL. CHANGE OVER FROM USER-QPL TO PRI-QPL SHALL BE COMPLETED WITHIN 18 MONTHS AFTER RELEASE OF THIS STANDARD.
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 FROM "GAGE POINT" TO "GAGE POINT". SEE TABLE 2 FOR LENGTH TOLERANCES.
- /9/ HOSE WEIGHT PLUS EACH END FITTING WEIGHT EQUALS HOSE ASSEMBLY WEIGHT. FOR DETERMINING HOSE WEIGHT, DEDUCT APPROPRIATE LENGTH CORRECTION FACTOR FROM EACH END OF THE ASSEMBLY LENGTH.
10. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.
11. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS  $\pm .010$ , ANGULAR DIMENSIONS  $\pm 2^\circ$ .