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REV.
D

AS4470™

RATIONALE

FEDERAL SUPPLY CLASS
4720

END DESIGN CALLOUT REVISED TO INCLUDE "EXCEPT AS NOTED." DIA C VALUES REVISED FROM A REFERENCE DIMENSION TO A DIMENSION SHOWING LOWER LIMITS OF NAS1760 AND MAXIMUM ALLOWABLE VALUES FROM TABLE 2 OF PROCUREMENT SPECIFICATION, AS4468. NEW FLAG NOTES /14/, /15/, AND /16/ ADDED. PROCUREMENT SPECIFICATION NOTE UPDATED.

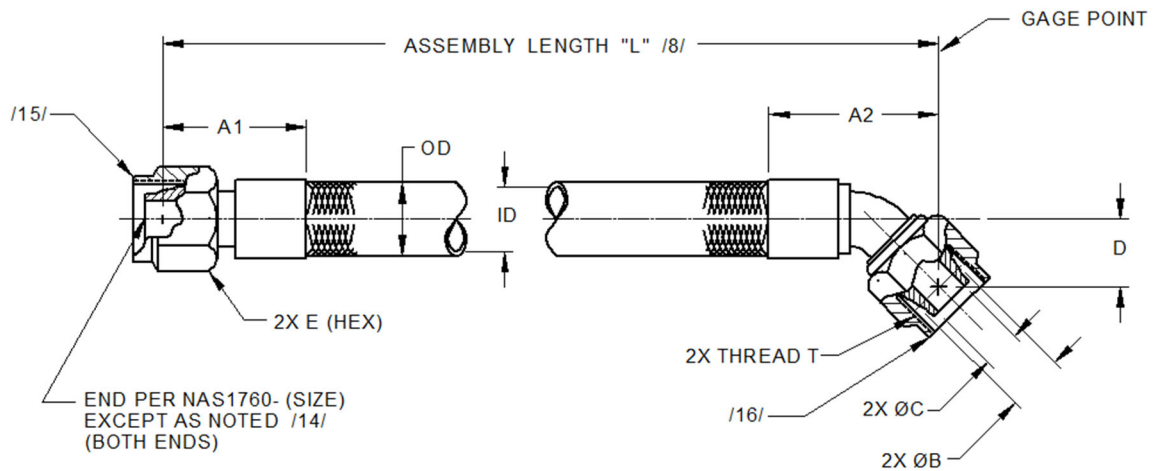


FIGURE 1 - HOSE ASSEMBLY

TABLE 1 - HOSE ASSEMBLY DIMENSIONS

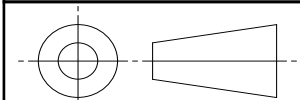
BASIC NO. AND SIZE CODE	HOSE SIZE REF	THREAD T PER AS8879 CLASS 3B REF	E HEX ACROSS FLATS REF	ID REF	OD MIN	OD MAX
AS4470-04	.250	.4375-20 UNJF	.559	.250	.37	.48
AS4470-06	.375	.5625-18 UNJF	.685	.375	.53	.59
AS4470-08	.500	.7500-16 UNJF	.872	.500	.65	.73
AS4470-10	.625	.8750-14 UNJF	.997	.625	.81	.85
AS4470-12	.750	1.0625-12 UNJ	1.246	.750	.94	.98
AS4470-16	1.000	1.3125-12 UNJ	1.497	1.000	1.19	1.23

TABLE 2 - END FITTING DIMENSIONS

BASIC NO. AND SIZE CODE	A1 MAX	A2 MAX	B GAGE REF	C	D MIN	D MAX
AS4470-04	1.18	1.44	.2930	.174-.194	.34	.44
AS4470-06	1.27	1.56	.4120	.291-.319	.42	.57
AS4470-08	1.28	1.64	.5600	.409-.440	.49	.61
AS4470-10	1.38	1.83	.6730	.495-.567	.59	.71
AS4470-12	1.53	2.19	.8100	.646-.676	.61	.77
AS4470-16	1.57	2.42	1.0620	.898-.927	.74	.85

For more information on this standard, visit
<https://www.sae.org/standards/content/AS4470D/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: AS4468 /2/



AEROSPACE STANDARD

HOSE ASSEMBLY, LINED SILICONE,
125 PSI, FLARELESS, POTABLE WATER,
STRAIGHT TO 45°

AS4470™
SHEET 1 OF 3

REV.
D

Documents
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TABLE 3 - LENGTH TOLERANCE

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

TABLE 4 - HOSE ASSEMBLY WEIGHT INFORMATION

HOSE SIZE CODE	HOSE LB/IN NOM REF	END FITTING LB/EA STRAIGHT NOM REF	END FITTING LB/EA 45° NOM REF	HOSE LENGTH CORRECTION FACTOR, INCHES /9/ STRAIGHT	HOSE LENGTH CORRECTION FACTOR, INCHES /9/ 45°
04	.0038	.048	.049	.55	.81
06	.0064	.074	.075	.64	.93
08	.0081	.112	.120	.65	1.01
10	.0111	.151	.167	.75	1.20
12	.0137	.267	.281	.74	1.41
16	.0182	.358	.399	.78	1.63

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 IN THIS STANDARD. PRODUCT MANUFACTURED AND ASSEMBLED TO THIS STANDARD SHALL MEET THE REQUIREMENTS SPECIFIED HEREIN AND THE PROCUREMENT SPECIFICATION. ORIGINAL COMPONENT MANUFACTURERS (OCM) AND VALUE-ADDED DISTRIBUTORS (VAD) SHALL BE LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST (QPL) PRI-QPL-AS4468 FOR THIS STANDARD REFER TO www.eAuditNet.com FOR CURRENT QPL ONLINE.
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 ON CENTERLINE." SEE TABLE 3 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 ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS $\pm .010$, ANGULAR DIMENSIONS $\pm 2^\circ$.

	AEROSPACE STANDARD	AS4470™	REV.
	HOSE ASSEMBLY, LINED SILICONE, 125 PSI, FLARELESS, POTABLE WATER, STRAIGHT TO 45°	SHEET 2 OF 3	Documents

