

AS5462

FEDERAL SUPPLY CLASS
4720

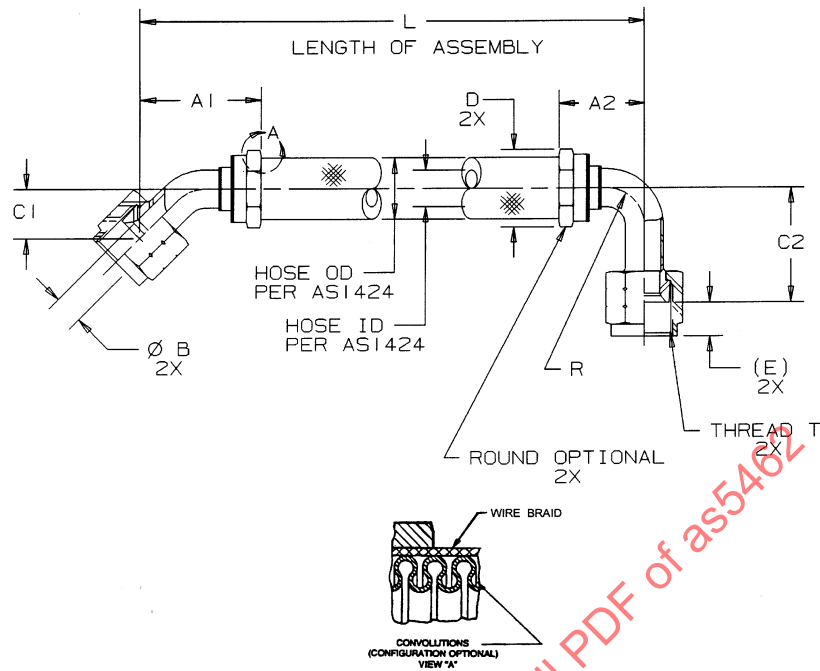


FIGURE 1 - HOSE ASSEMBLY

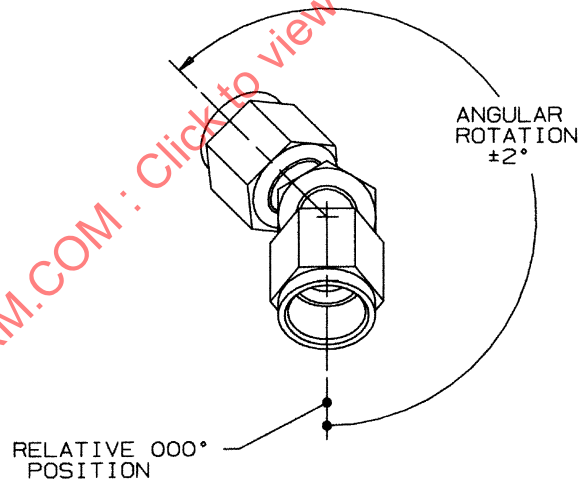
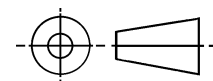


FIGURE 2 - FITTING ANGULAR ORIENTATION /11/

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: /2/ AS1424

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

HOSE ASSEMBLY, METAL - MEDIUM PRESSURE,
FLARED, WELDED, 45° TO 90°

AS5462
SHEET 1 OF 4

ISSUED 2001-03

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AS5462

TABLE 1 - ASSEMBLY DIMENSIONS

HOSE ASSEMBLY SIZE CODE	HOSE SIZE (REF)	A ₁ MAX	A ₂ MAX	B MIN THRU /6/	C ₁ MIN	C ₁ MAX	C ₂ MIN	C ₂ MAX	D MAX	(E) NOM	R (REF)	THREAD T PER AS8879 (ISO 3161) (REF)
E	.250	1.34	1.13	.141	.32	.38	.61	.67	.900	.372	.250	.4375-20UNJF-3B
F	.312	1.41	1.18	.197	.39	.45	.74	.80	1.100	.375	.312	.5000-20UNJF-3B
G	.375	1.50	1.24	.250	.44	.50	.86	.92	1.200	.375	.375	.5625-18UNJF-3B
H	.500	1.71	1.42	.360	.54	.60	1.08	1.14	1.300	.438	.500	.7500-16UNJF-3B
J	.625	1.93	1.64	.455	.61	.67	1.25	1.32	1.500	.515	.625	.8750-14UNJF-3B
K	.750	2.25	1.92	.568	.65	.72	1.37	1.43	1.740	.562	.750	1.0625-12UNJ-3B
M	1.000	2.84	2.62	.760	.76	.82	1.68	1.74	2.300	.620	1.000	1.3125-12UNJ-3B
N	1.250	3.16	2.95	.920	.90	.96	2.02	2.08	2.850	.620	1.250	1.6250-12UNJ-3B

TABLE 2 - ASSEMBLY LENGTH TOLERANCE

HOSE ASSEMBLY LENGTH	LENGTH TOLERANCE
UNDER 10 in	±.062 in
10 TO 36 in EXCLUSIVE	±.125 in
36 TO 50 in EXCLUSIVE	±.250 in
50 in AND OVER	±1%

TABLE 3 - HOSE ASSEMBLY PHYSICAL CHARACTERISTIC

HOSE SIZE CODE	70 °F /5/ OPERATING PRESSURE PSI MAX	70 °F /5/ PROOF PRESSURE PSI MIN	70 °F /5/ BURST PRESSURE PSI MIN
E	2000	3000	8000
F	1800	2700	7200
G	1600	2400	6400
H	1400	2100	5600
J	1200	1800	4800
K	1050	1575	4200
M	800	1200	3200
N	550	825	2200

TABLE 4 - SPHERICAL BALL SIZE
FOR DETERMINING MINIMUM
HOSE ASSEMBLY ID /8/

HOSE SIZE	ELBOW FITTING
E	.120
F	.167
G	.212
H	.306
J	.387
K	.483
M	.646
N	.782

TABLE 5 - WEIGHTS (NOM)

HOSE SIZE	HOSE LB/IN	STANDARD FITTING (LB) 45° ELBOW	STANDARD FITTING (LB) 90° ELBOW
E	.016	.05	.05
F	.018	.07	.08
G	.020	.08	.09
H	.028	.13	.14
J	.038	.20	.22
K	.042	.33	.33
M	.058	.55	.61
N	.072	.83	.84

NOTES:

/1/ MATERIALS:

- a. CLASS "N": INNERTUBE - NICKEL ALLOY TYPE 625
ALL OTHER COMPONENTS - 321 CORROSION RESISTANT STEEL
- b. CLASS "S": ALL COMPONENTS - 321 CORROSION RESISTANT STEEL

/2/ THIS HOSE ASSEMBLY SHALL BE QUALIFIED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION AS1424. SEE NOTE /15/. 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 AS1424 AND COMPLETED WITHIN SIX MONTHS FROM THE DATE OF ISSUE OF PRI QPL-AS1424. 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-AS1424 FOR THIS STANDARD.

3. CONSTRUCTION AND PERFORMANCE PER AS1424. FITTINGS SHALL BE PERMANENTLY ATTACHED TO THE HOSE.
4. THESE ASSEMBLIES ARE INTENDED FOR USE IN LOW AND MEDIUM PRESSURE PNEUMATIC SYSTEMS UP TO 850 °F WITH SHORT EXCURSIONS TO 1200 °F. MAXIMUM RATED OPERATING PRESSURE IS DEPENDENT ON AMBIENT OPERATING TEMPERATURE AND CAN BE DETERMINED FROM AS1424.
- /5/ SEE AS1424 FOR PRESSURES AT ELEVATED TEMPERATURE.
6. MARKING SHALL BE PER AS1424 ON A STAINLESS STEEL BAND NOT OVER 1.0 in WIDE OR ON THE END FITTINGS. THE CHARACTERS SHALL BE A MINIMUM OF .060 HIGH. THE BAND SHALL BE SO DESIGNED AS TO REMAIN TIGHT ON THE HOSE TO PREVENT RELATIVE MOTION AND CHAFING. IT SHALL BE OF SUFFICIENT STRENGTH TO PREVENT REMOVAL BY HAND.