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REV.
B

AS5458

FEDERAL SUPPLY CLASS
4720

RATIONALE

AS5458B HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

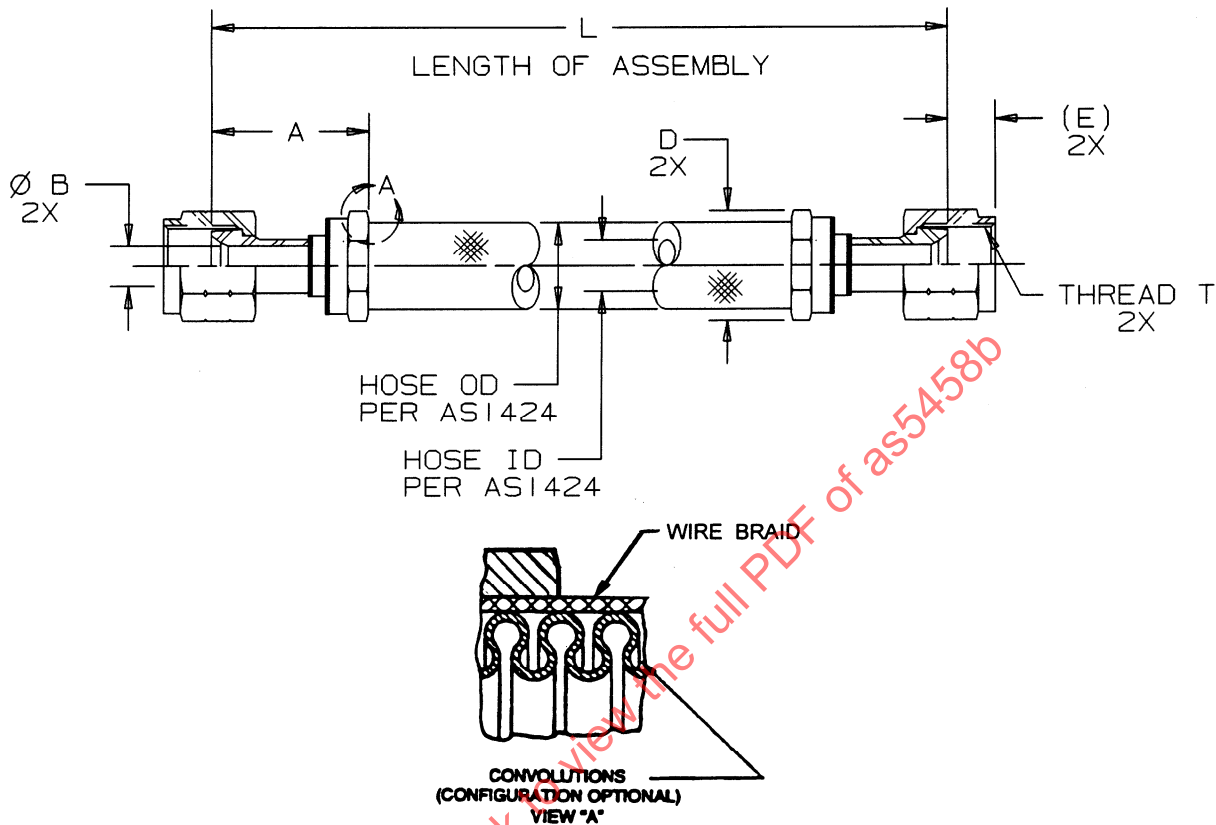


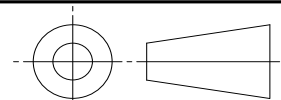
FIGURE 1 - HOSE ASSEMBLY

TABLE 1 - ASSEMBLY DIMENSIONS

HOSE ASSEMBLY SIZE CODE	HOSE SIZE (REF)	A MAX	B MIN THRU /8/	D MAX	(E) NOM	THREAD T PER AS8879 (ISO 3161) (REF)
04	.250	1.34	.141	.900	.372	.4375-20UNJF-3B
05	.312	1.40	.197	1.100	.375	.5000-20UNJF-3B
06	.375	1.48	.250	1.200	.375	.5625-18UNJF-3B
08	.500	1.58	.360	1.300	.438	.7500-16UNJF-3B
10	.625	1.71	.455	1.500	.515	.8750-14UNJF-3B
12	.750	1.83	.568	1.740	.562	1.0625-12UNJ-3B
16	1.000	2.02	.760	2.300	.620	1.3125-12UNJ-3B
20	1.250	2.17	.920	2.850	.620	1.6250-12UNJ-3B

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS5458B>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: /2/ AS1424



AEROSPACE STANDARD

(R) HOSE ASSEMBLY, METAL - MEDIUM PRESSURE,
FLARED, WELDED,
STRAIGHT TO STRAIGHT

AS5458
SHEET 1 OF 4

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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 ROOM TEMPERATURE PHYSICAL CHARACTERISTIC (REF) /5/

HOSE SIZE CODE	OPERATING PRESSURE PSI NOM	PROOF PRESSURE PSI MIN	BURST PRESSURE PSI MIN
04	2000	3000	8000
05	1800	2700	7200
06	1600	2400	6400
08	1400	2100	5600
10	1200	1800	4800
12	1050	1575	4200
16	800	1200	3200
20	550	825	2200

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

HOSE SIZE	STRAIGHT FITTING
04	.127
05	.177
06	.225
08	.324
10	.410
12	.511
16	.684
20	.828

TABLE 5 - WEIGHTS (MAX)

HOSE SIZE	HOSE LB/IN	STANDARD FITTING (LB) STRAIGHT
04	.016	.05
05	.018	.07
06	.020	.08
08	.028	.13
10	.038	.18
12	.042	.29
16	.058	.44
20	.072	.62

**AEROSPACE STANDARD**

(R) HOSE ASSEMBLY, METAL – MEDIUM PRESSURE,
FLARED, WELDED,
STRAIGHT TO STRAIGHT

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NOTES:

/1/ MATERIALS:

- CLASS "A":
 INNER TUBE - CORROSION RESISTANT STEEL TYPE 321
 BRAID - CORROSION RESISTANT STEEL TYPE 321
 BRAID RETAINERS - CORROSION RESISTANT STEEL TYPE 321 OR 347
 FITTING COMPONENTS - NICKEL ALLOY TYPE 625 OR 718
- CLASS "B":
 INNER TUBE - NICKEL ALLOY TYPE 625
 BRAID - CORROSION RESISTANT STEEL TYPE 321
 BRAID RETAINERS - CORROSION RESISTANT STEEL TYPE 321 OR 347
 FITTING COMPONENTS - NICKEL ALLOY TYPE 625 OR 718
- CLASS "N":
 INNER TUBE - NICKEL ALLOY TYPE 625
 BRAID - CORROSION RESISTANT STEEL TYPE 321
 BRAID RETAINERS - CORROSION RESISTANT STEEL TYPE 321 OR 347
 FITTING COMPONENTS - CORROSION RESISTANT STEEL TYPE 321 OR 347
- CLASS "S":
 INNER TUBE - CORROSION RESISTANT STEEL TYPE 321
 BRAID - CORROSION RESISTANT STEEL TYPE 321
 BRAID RETAINERS - CORROSION RESISTANT STEEL TYPE 321 OR 347
 FITTING COMPONENTS - CORROSION RESISTANT STEEL TYPE 321 OR 347

- /2/ PROCUREMENT SPECIFICATION: AS1424 EXCEPT AS SPECIFIED IN THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED AND ASSEMBLED BY AN ACCREDITED MANUFACTURER LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST (QPL) PRI-QPL-AS1424 FOR THIS STANDARD. SEE www.eauditnet.com FOR CURRENT QPL ONLINE.
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 800 °F MAX FOR CLASS "A" AND "S" AND 800 °F WITH EXCURSIONS TO 1200 °F FOR CLASS "B" AND "N". 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.
- /7/ 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, IN FRACTION OF AN INCH IN EIGHTHS. SEE TABLE 2 FOR ASSEMBLY LENGTH TOLERANCE.
- /8/ A TRUE CIRCULAR CROSS SECTION IS NOT REQUIRED THROUGH THE FITTING ID. HOWEVER, THE APPLICABLE, OR LARGER, BALL DIAMETER LISTED IN TABLE 4 MUST BE CAPABLE OF PASSING THROUGH THE ASSEMBLY.
9. DIMENSIONS AND TOLERANCING: ASME Y14.5M-1994.
10. THIS PART STANDARD TAKES PRECEDENCE IN CASE OF CONFLICT.

	AEROSPACE STANDARD	AS5458 SHEET 3 OF 4	REV. B
	(R) HOSE ASSEMBLY, METAL – MEDIUM PRESSURE, FLARED, WELDED, STRAIGHT TO STRAIGHT		