

FEDERAL SUPPLY CLASS
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**REV.
A**

AS1624

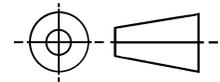
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THIRD ANGLE PROJECTION



ISSUED 1981-09 REAFFIRMED 2000-11 CANCELLED 2003-03

CUSTODIAN: SAE G-3

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AEROSPACE STANDARD

HOSE, POLYTETRAFLUOROETHYLENE (TFE),
LIGHTWEIGHT 3,000 PSI, HIGH TEMPERATURE,
HYDRAULIC AND PNEUMATIC

AS1624
SHEET 1 OF 4

**REV.
A**

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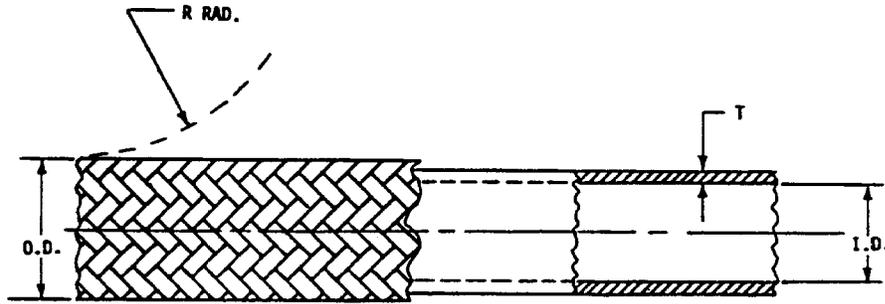


TABLE I A - DIMENSIONS AND WEIGHT

HOSE SIZE (REF)	I.D. INSIDE DIA. BRAIDED - INCH		O.D. OUTSIDE DIA. BRAIDED - INCH		T WALL THICKNESS, UNBRAIDED - INCH		HOSE WEIGHT LBS/IN. MAX.
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
04	.217	.232	.360	.390	.035	.046	.009
06	.298	.318	.455	.490	.035	.046	.015
08	.391	.411	.585	.615	.040	.051	.020
10	.485	.505	.690	.730	.045	.056	.027
12	.607	.632	.950	.990	.045	.056	.055
16	.852	.882	1.230	1.270	.045	.056	.085

TABLE I B - DIMENSIONS AND WEIGHT (SI)

HOSE SIZE (REF)	I.D. INSIDE DIA. BRAIDED - MM		O.D. OUTSIDE DIA. BRAIDED - MM		T WALL THICKNESS, UNBRAIDED - MM		HOSE WEIGHT Kg/M MAX.
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
04	5.3P	5.80	9.14	9.91	.89	1.17	.161
06	7.57	8.06	11.56	12.45	.89	1.17	.268
08	9.93	10.44	14.86	15.62	1.02	1.30	.357
10	12.32	12.83	17.53	18.54	1.14	1.42	.482
12	15.29	16.05	24.13	25.15	1.14	1.42	.821
16	21.64	22.40	31.24	32.26	1.14	1.42	1.518

TABLE II A - PERFORMANCE REQUIREMENTS (REF)

HOSE SIZE (REF)	OPERATING PRESSURE MAX. PSI	PROOF PRESSURE MIN. PSI	BURST PRESS - MIN.		R MIN. INSIDE BEND RAD. IN.
			ROOM TEMP. PSI	400°F (204°C) PSI	
04	3,000	6,000	16,000	12,000	1.50
06	3,000	6,000	14,000	10,500	2.50
08	3,000	6,000	14,000	10,500	2.88
10	3,000	6,000	12,000	9,000	3.25
12	3,000	6,000	12,000	9,000	4.00
16	3,000	6,000	12,000	9,000	5.00

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TABLE II B - PERFORMANCE REQUIREMENTS (SI) (REF)

HOSE SIZE (REF)	OPERATING PRESSURE MAX. KPa	PROOF PRESSURE MIN. KPa	BURST PRESS - MIN.		R MIN. INSIDE BEND RAD. MM
			ROOM TEMP KPa	204°C (400°F) KPa	
04	20 684	41 369	110 316	82 737	38.1
06	20 684	41 369	96 527	72 395	63.5
08	20 684	41 369	96 527	72 395	73.2
10	20 684	41 369	82 737	62 053	82.6
12	20 684	41 369	82 737	62 053	101.6
16	20 684	41 369	82 737	62 053	127.0

TABLE III - BRAID CONSTRUCTION

SIZE	TYPE OF REINFORCEMENT
04	SINGLE FULL COVERAGE HIGH DENSITY BRAID
06	
08	
10	/2/
12	
16	

TABLE IV - PERCENT OF SHIPMENT IN LENGTH RANGES SHOWN /1/

HOSE SIZE (REF)	3 TO 14 FT., INCLUSIVE	OVER 14 FEET
04 TO 08, INCL.	35	65
10 TO 16, INCL.	45	55

NOTES:

- /1/ UNLESS OTHERWISE SPECIFIED, HOSE SHALL BE FURNISHED IN LENGTHS AS INDICATED IN TABLE IV AND NOT MORE THAN 5 PERCENT OF SHIPMENT SHALL BE OF THREE FEET (914 MM) LENGTHS.
- /2/ TWO FULL COVERAGE HIGH DENSITY BRAIDS OR ONE FULL COVERAGE HIGH DENSITY BRAID AND ONE FULL COVERAGE INNER OR OUTER STANDARD DENSITY BRAID.
3. PERFORMANCE AND CONSTRUCTION: THE HOSE WHEN ASSEMBLED WITH END FITTINGS SHALL MEET THE PERFORMANCE REQUIREMENTS OF AS 1339 AND HOSE CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE PARTS OF AS 1339.
4. TESTING: TEFLON INNER TUBE SHALL BE TESTED IN ACCORDANCE WITH PARAGRAPH 3.5.1 OF AS 1339 AND EACH LENGTH OF BRAIDED HOSE SHALL BE PROOF PRESSURE TESTED IN ACCORDANCE WITH PARAGRAPH 3.5.2.1 OF AS 1339.
5. MARKING: THE HOSE SHALL BE MARKED FOR IDENTIFICATION IN ACCORDANCE WITH MIL-STD-130. METAL OR Pliable PLASTIC BANDS SHALL BE PLACED AT EACH END OF THE HOSE AND AT TEN FOOT INTERVALS AND SHALL CONTAIN THE FOLLOWING INFORMATION.
 - a. MANUFACTURER'S NAME OR TRADEMARK.
 - b. COMPLETE HOSE PART NUMBER.
 - c. OPERATING PRESSURE "3000 PSI" OR "20 684 KPa", AS APPLICABLE.
 - d. OPERATING TEMPERATURE "400 °F" OR "204 °C", AS APPLICABLE.
 - e. DATE OF MANUFACTURE.
 - f. HOSE MANUFACTURER'S FEDERAL CODE NUMBER (HANDBOOK H4-1).