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REV.
B

MA2106

FEDERAL SUPPLY CLASS
4720

RATIONALE

MA2106B HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

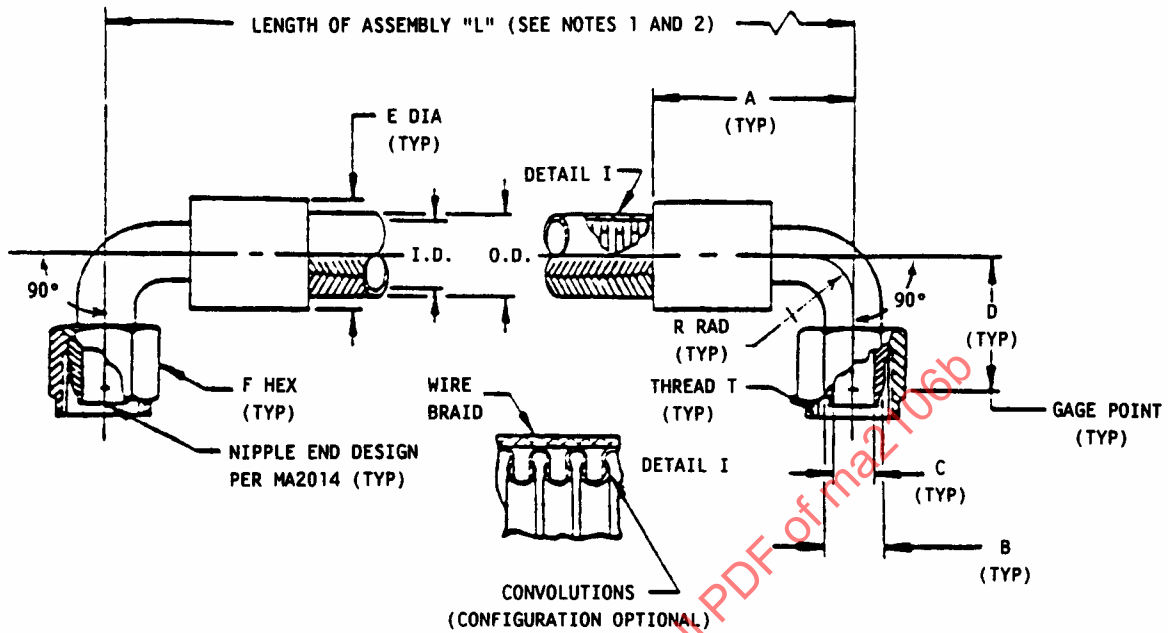


FIGURE 1

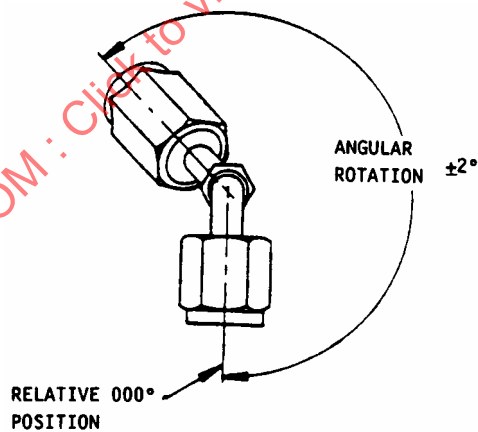
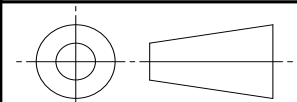


FIGURE 2

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/MA2106B>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D (SEE NOTE 7)

PROCUREMENT SPECIFICATION: MA2100



AEROSPACE STANDARD

HOSE ASSEMBLY, METAL, MEDIUM PRESSURE,
FLARELESS, WELDED, 90° TO 90°
FITTING ENDS, METRIC

MA2106
SHEET 1 OF 3

REV.
B

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ISSUED 1991-05 REVISED 2004-11 REAFFIRMED 2015-04

TABLE 1

HOSE ASSEMBLY PART NUMBER	HOSE ASSEMBLY SIZE (DN) ¹	THREAD T PER MA1370 4H 5H	A MAX MM	B GAGE DIA BASIC	C DIA MIN THRU MM	D MIN MM	D MAX MM	E DIA MAX ENVELOPE MM	F HEX (REF) MM	R RAD (REF) MM
MA2106E	06	MJ12X1.25	37.9	7.5	3.35	21.1	27.4	22.9	14	6.4
MA2106G	08	MJ14X1.5	43.1	9.5	6.50	24.8	31.2	30.5	17	9.5
MA2106H	12	MJ18X1.5	51.7	13.5	8.76	31.2	39.1	33.0	22	12.7
MA2106J	16	MJ22X1.5	60.5	17.5	10.92	39.6	47.5	38.1	27	15.9
MA2106K	20	MJ27X1.5	69.4	21.5	14.4	42.4	52.1	44.2	32	19.9
MA2106M	25	MJ33X1.5	79.0	26.5	19.3	46.7	56.4	58.4	41	25.4
MA2106N	32	MJ42X2	92.6	33.7	23.4	53.9	65.8	72.4	46	31.8

¹ DN = NOMINAL TUBE OUTSIDE DIAMETER

TABLE 2

HOSE SIZE (DN) NOM	HOSE ID MIN MM	HOSE OD MAX MM	21 °C (70 °F) OPERATING PRESSURE MAX KPA	21 °C (70 °F) PROOF PRESSURE MIN KPA	21 °C (70 °F) BURST PRESSURE MIN KPA	BALL DIA MM (SEE NOTE 5)	CORRECTION FACTOR MM (SEE NOTE 2)
06	5.5	11.0	13 750	20 650	55 150	3	0
08	7.0	13.5	12 000	18 000	48 000	6	0
12	11.0	20.5	9 600	14 500	38 600	8	0
16	14.0	24.0	8 300	13 400	33 000	10	0
20	17.5	29.0	7 200	10 700	29 000	14	0
25	23.0	36.0	5 500	8 300	22 000	18	0
32	30.0	44.0	3 800	5 700	15 200	22	0

TABLE 3

HOSE ASSEMBLY LENGTH	AVAILABLE LENGTH INCREMENT	LENGTH TOLERANCE
UNDER 457 MM	(NOT LESS THAN) 3 MM	±3 MM
457 TO 914 MM	(NOT LESS THAN) 7 MM	±7 MM
914 TO 1270 MM	(NOT LESS THAN) 13 MM	±13 MM
OVER 1270 MM	(NOT LESS THAN) 26 MM	±1%

NOTES:

1. LENGTH "L" IS MEASURED FROM GAGE POINT TO GAGE POINT. SEE TABLE 3 FOR AVAILABLE LENGTH INCREMENTS. IN THE EXAMPLE OF PART NUMBER BELOW, LENGTH "L" IS DEFINED BY A FOUR DIGIT DASH NUMBER DESCRIBING THE HOSE ASSEMBLY LENGTH IN MILLIMETERS.
2. TO CONVERT "GAGE POINT TO GAGE POINT" TO "END TO END" MEASUREMENT, ADD TO "L" THE APPROPRIATE TABLE 2 CORRECTION FACTOR FOR EACH END FITTING.
3. THE HOSE ASSEMBLIES ARE INTENDED FOR USE IN LOW AND MEDIUM PRESSURE PNEUMATIC SYSTEMS UP TO 425 °C WITH SHORT DURATION EXCURSIONS TO 650 °C. MAXIMUM RATED OPERATING PRESSURE IS DEPENDENT ON AMBIENT OPERATING TEMPERATURE AND CAN BE DETERMINED FROM MA2100, TABLE 2.
4. DIMENSIONS ARE IN MILLIMETERS. DIMENSIONING AND TOLERANCING ARE PER ANSI Y14.5M AND UNIT SYMBOLS ARE PER ANSI Y10.19, SAE J916, AND ANSI Z210.1.
5. A TRUE CIRCULAR CROSS SECTION IS NOT REQUIRED THROUGH THE END FITTING. HOWEVER, A BALL OF THE SIZE DIAMETER LISTED IN TABLE 2 SHALL PASS THROUGH THE END FITTING AFTER THE END FITTING IS ATTACHED TO THE HOSE ASSEMBLY.
6. DO NOT USE UNASSIGNED SIZE CODES.

	AEROSPACE STANDARD	MA2106 SHEET 2 OF 3	REV. B
	HOSE ASSEMBLY, METAL, MEDIUM PRESSURE, FLARELESS, WELDED, 90° TO 90° FITTING ENDS, METRIC		