REV.

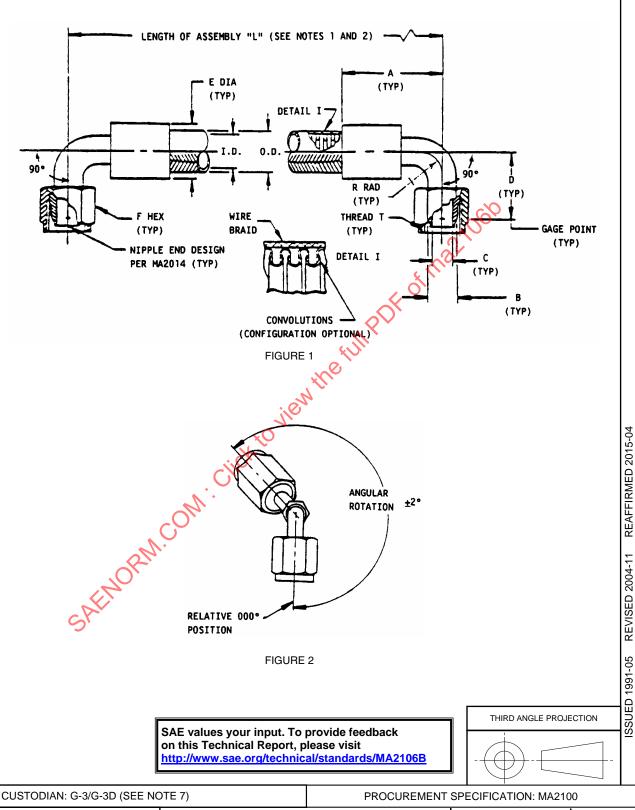
**MA2106** 

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**RATIONALE** 

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



# AEROSPACE STANDARD

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

**MA2106** SHEET 1 OF 3 REV. В

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### TABLE 1

HOSE	HOSE	THREAD T		В	C DIA			E DIA	F	R
				_		_	D		•	
ASSEMBLY	ASSEMBLY	PER	Α	GAGE	MIN	D	_	MAX	HEX	RAD
PART	SIZE	MA1370	MAX	DIA	THRU	MIN	MAX	ENVELOPE	(REF)	(REF)
NUMBER	(DN) <sup>1</sup>	4H 5H	MM	BASIC	MM	MM	MM	MM	MM	MM
MA2106E	06	MJ12X1.25	37.9	7.5	3.35	21.1	27.4	22.9	14	6.4
MA2106G	80	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

				21 °C (70			
HOSE	HOSE	HOSE	21 °C (70 °F)	°F)`	21 °C (70 °F)	BALL	CORRECTION
SIZE	ID	OD	OPERATING	PROOF	BURST	DIA MM	FACTOR MM
(DN)	MIN	MAX	PRESSURE	PRESSURE	PRESSURE	(SEE	(SEE
NOM	MM	MM	MAX KPA	MIN KPA	MIN KPA	NOTE 5)	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
					, X		
32	30.0	44.0	3 800	5 700	15 200	22	0

### TABLE 3

HOSE ASSEMBLY	AVAILABLE LENGTH	
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:

- 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.
- 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.
- 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.
- 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.
- 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.
- DO NOT USE UNASSIGNED SIZE CODES.



# **AEROSPACE STANDARD**

FITTING ENDS, METRIC