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MA2091

FEDERAL SUPPLY CLASS
4720

RATIONALE

MA2091 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

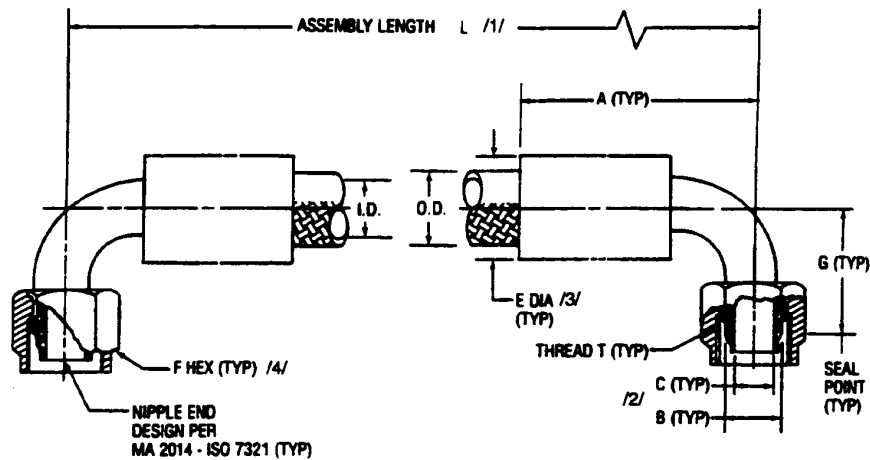


FIGURE 1

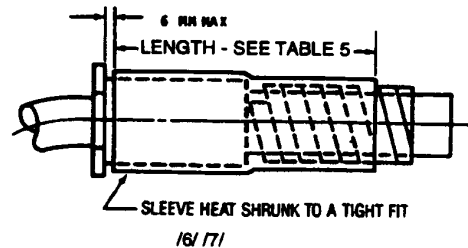


FIGURE 2

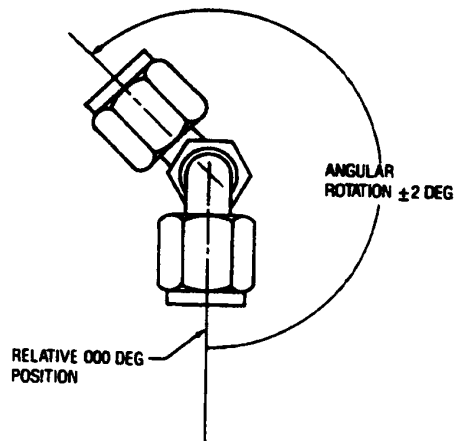
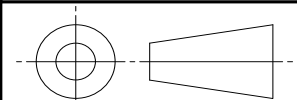


FIGURE 3

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/MA2091>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: MA2007



AEROSPACE STANDARD

HOSE ASSEMBLY, TETRAFLUOROETHYLENE,
21,000 KPA, FLARELESS, 90° TO 90°,
METRIC

MA2091
SHEET 1 OF 4

Documents

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TABLE 1
DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

HOSE ASSEMBLY NO. AND SIZE CODE	SIZE DN	THREAD T PER AS1370	I.D. MIN	A MAX	B SEAL DIA BASIC	C /2/ DRILL DIA MIN	E /3/ DIA MAX WITHOUT SLEEVING	F HEX REF	G		BALL SIZE MIN THRU DIA /2/		
									MIN	MAX	MS19059 DASH NO.	INCH	DIA MM
MA2091 E	06	MJ12x1.25	5.4	44	7.50	3.4	18	14	18	22	4807	.109	2.8
MA2091 G	10	MJ16x1.5	7.5	51	11.50	6.1	20	19	22	28	4812	.188	4.8
MA2091 H	12	MJ18x1.5	9.9	60	13.50	8.6	25	22	25	33	4816	.313	7.9
MA2091 J	16	MJ22x1.5	12.3	71	17.50	10.4	28	27	30	38	4818	.375	9.5
MA2091 K	20	MJ27x1.5	15.3	83	21.50	12.9	35	32	32	45	4821	.469	10.4
MA2091 M	25	MJ33x1.5	21.6	102	26.60	19.3	42	41	42	53	4829	.719	18.3

TABLE 2

SLEEVE CODE	SLEEVE MATERIAL	TEMP. LIMIT °C	HOSE OR SLEEVE OUTSIDE DIAMETER /5/ HOSE SIZE						
			TOLE-RANCE	06	10	12	16	20	25
-	(-) INDICATES HOSE ONLY. NO SLEEVE (AS1624)	204	MAX MIN	10.0 9.1	12.4 11.6	15.6 14.9	18.5 17.6	25.1 24.1	32.3 31.2
A	ABRASION SLEEVE TUBULAR (TFE-AS1291-CODE B) /6/	204	MAX MIN	12.7 11.2	15.2 13.7	18.5 17.0	21.3 19.8	28.2 26.7	35.6 34.0
B	ABRASION SLEEVE COIL (NYLON AS1294) /7/	135	MAX MIN	11.4 10.0	14.0 12.4	17.7 16.1	20.6 19.1	27.4 25.9	34.5 33.0
C	FIRESLEEVE (AS1072 SIL-FG) (15 min) /8/ /9/ /13/	204	MAX MIN	15.9 12.7	19.1 15.9	22.2 19.1	25.4 20.6	31.8 28.6	38.1 34.9
E	ABRASION SLEEVE SHRINK-ON (FEP) /11/	177	MAX MIN	10.8 9.5	13.7 12.2	16.9 15.6	20.1 18.5	27.2 25.7	34.3 32.8
F	ABRASION SLEEVE SHRINK-ON (POLYOLEFIN AS1073 - CODE B) /11/	135	MAX MIN	11.4 10.2	14.2 12.8	17.7 16.4	20.6 19.1	27.4 25.9	34.5 33.0
G	FIRESLEEVE (AS1072 SIL-FG) (5 min) /8/ /9/ /12/	204	MAX MIN	15.9 12.7	19.1 15.9	22.2 19.1	25.4 22.2	31.8 28.6	38.1 34.9
H	FIRESLEEVE INTEGRAL SILICONE (15 min) (AS1722) /13/	204	MAX MIN	16.8 15.2	18.9 17.4	22.7 21.2	25.5 24.0	31.0 29.5	38.9 37.0
J	FIRESLEEVE INTEGRAL SILICONE (5 min) /12/	204	MAX MIN	16.8 15.2	18.9 17.4	22.7 21.2	25.5 24.0	31.0 29.5	38.5 37.0
K	INTEGRAL ABRASION SLEEVE (BRAIDED) POLYESTER /10/	149	MAX MIN	12.4 11.2	14.5 13.6	17.7 16.5	20.3 19.3	27.2 26.2	34.3 33.3
L	ABRASION SLEEVE COIL (PTFE-AS1293) /7/	204	MAX MIN	12.7 11.2	15.2 13.7	18.5 17.0	21.9 20.4	28.2 26.7	35.6 34.0

TABLE 3

HOSE ASSEMBLY LENGTH	AVAILABLE INCREMENTS	TOLERANCE
UNDER 500 mm	5 mm	± 3 mm
500 - 1000 mm	10 mm	± 7 mm
1001 - 1500 mm	20 mm	±13 mm
OVER 1500 mm	30 mm	±1% OF LENGTH