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MA5070

RATIONALE

FEDERAL SUPPLY CLASS
4720

MA5070 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

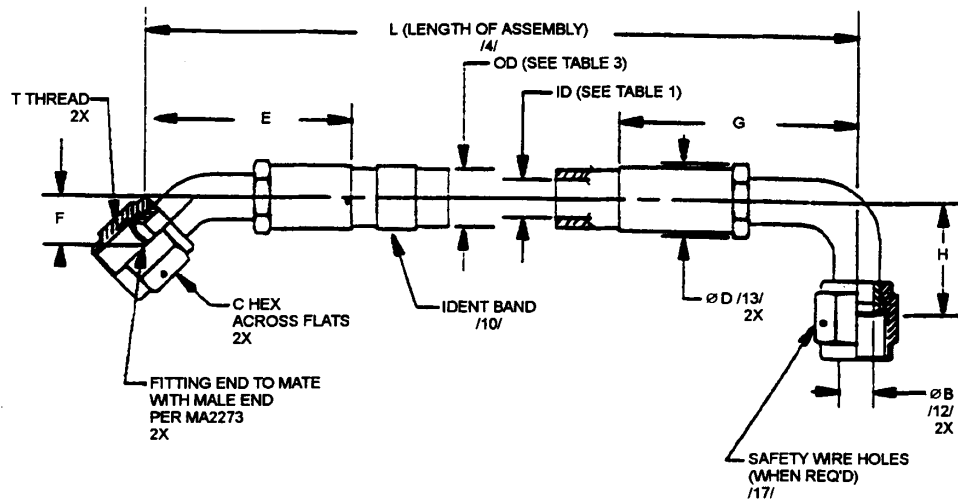


FIGURE 1 - HOSE ASSEMBLY

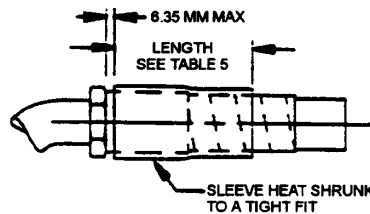


FIGURE 2 - HEAT SHRINKABLE SLEEVES REQUIRED FOR COIL AND TUBULAR ABRASION SLEEVES /6/ AND /7/

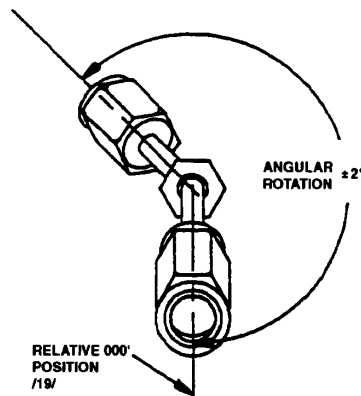
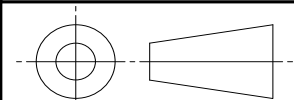


FIGURE 3 - FITTING ANGULAR ORIENTATION

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: /2/ MA4623



AEROSPACE STANDARD

HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, PARA ARAMID REINFORCED, 21,000 KPA, 135 °C, BEAM SEAL, 45° TO 90°, METRIC

MA5070
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TABLE 1 - BASIC HOSE DIMENSIONS

TABLE 1A - DIMENSIONS A - E

HOSE ASSEMBLY SIZE CODE	HOSE SIZE (REF)	THREAD T PER AS1370 (REF)	ID MIN	A MAX	B MIN /12/	C HEX (REF)	D MAX W/O SLEEVING /13/	E
MA5070-08	DN08	MJ12X1.25	4.33	27.75	3.40	14.00	13.75	46.25
MA5070-10	DN10	MJ16X1.50	7.45	33.00	6.10	17.25	17.25	53.75
MA5070-12	DN12	MJ18X1.50	9.78	36.25	8.60	22.00	20.75	56.25
MA5070-16	DN16	MJ22X1.50	12.13	40.00	10.40	25.00	24.25	66.50
MA5070-20	DN20	MJ27X1.50	15.38	45.00	13.00	28.00	32.72	77.25
MA5070-25	DN25	MJ33X1.50	21.28	53.00	19.30	34.50	41.38	90.00

TABLE 1B - DIMENSIONS F - H

HOSE ASSEMBLY SIZE CODE	F MIN	F MAX	G	H MIN	H MAX	BALL SIZE MIN THRU DIA /12/
MA5070-08	10.35	13.63	40.25	20.50	24.50	2.98
MA5070-10	11.25	14.55	47.00	23.63	34.25	5.75
MA5070-12	11.18	16.88	49.75	23.50	34.25	7.83
MA5070-16	13.50	19.15	59.25	29.00	39.75	9.78
MA5070-20	15.48	21.73	74.50	34.50	48.75	12.88
MA5070-25	16.35	32.08	80.75	37.68	67.00	18.75

TABLE 2 - LENGTH TOLERANCE

HOSE ASSEMBLY LENGTH	TOLERANCE
UNDER 457 mm	±3 mm
457 TO 914 mm EXCLUSIVE	±7 mm
915 TO 1270 mm EXCLUSIVE	±13 mm
OVER 1270 mm	±1%

TABLE 3 - HOSE AND SLEEVE OD

HOSE OR SLEEVE CODE	HOSE OR TYPE SLEEVE	TEMP LIMIT (°C)	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE DN08	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE DN10	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE DN12	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE DN16	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE DN20	HOSE OR SLEEVE ASSEMBLED OUTSIDE DIAMETER HOSE SIZE DN25
-	HOSE ONLY, NO SLEEVE	135	13.7 12.2	17.5 16.0	21.0 19.4	24.1 22.4	30.7 28.7	38.3 36.2
A	ABRASION SLEEVE TUBULAR (PTFE AS1291) /7/	135	15.3 13.2	20.4 17.0	24.2 21.9	27.4 23.4	32.9 29.9	41.8 37.7
B	ABRASION SLEEVE COIL (NYLON AS1294) /6/	135	15.4 12.9	19.2 16.8	24.1 20.5	26.2 23.4	32.8 29.8	40.4 37.3
C	TUBULAR FIRESLEEVE SIL/FG (15 min) /5/ /9/ /14/ (AS1072)	135	20.8 17.7	24.5 21.5	28.1 24.9	31.9 27.9	38.5 34.2	44.2 41.5
E	SHRINK ABRASION SLEEVE (FEP) /8/	135	14.5 12.6	18.4 16.6	22.2 20.2	25.7 23.4	32.5 29.8	40.5 37.9
F	SHRINK ABRASION SLEEVE (POLYOLEFIN AS1073-CODE B) /11/	135	15.4 13.3	19.4 17.4	22.9 20.8	26.2 23.9	32.7 30.2	40.6 37.9
H	INTEGRAL FIRESLEEVE (15 min) /9/	135	22.8 20.4	27.8 24.2	30.8 29.3	35.6 31.6	41.1 37.6	49.4 45.6
K	INTEGRAL ABRASION SLEEVE (BRAIDED POLYESTER) /11/	135	17.5 15.4	22.6 19.0	26.2 23.9	29.5 25.5	34.7 31.7	43.6 39.5
L	ABRASION SLEEVE COIL (PTFE AS1293) /8/	135	17.9 14.6	22.9 17.8	26.8 22.7	29.9 24.4	35.4 30.9	44.4 38.7



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