

User Activities:

Review Activities:
DLA - IS

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FED. SUP CLASS 5355														
TABLE I. Knob sizes and setscrew requirement.														
SIZE	Dimensions												Setscrew (2 - Req'd)	
	A	B	C	E	F	G	H	J	K	L	M	N	1/8" Shaft	1/4" Shaft
A	1.00	.50	.44	.38	.06	.07	.19	.094	.444	.465	.424	12	MS51021-102	--
N	1.50	.75	.75	.62	.09	.10	.35	.125	.656	.687	.625	16	MS51021-102	MS51021-132
TABLE II. MS dash numbers.														
MS21383-0 1 A N A B														
SERIES	SHAFT DIA	SIZE	STYLE DIAL	COLOR-KNOB/DIAL	INDICIA									
0 - Plastic, illuminated	1 - .125 Round	N ^{1/} A	N - Degree ^{1/} A - Numeric B - Plain	N - Gray/Black ^{1/} A - Gray/Gray B - Gray/Clear C - Black/Black D - Black/Clear M - Metal, natural/clear	N - White ^{1/} B - Black									
1 - Plastic, non-illuminated	2 - .125 "D" Flat	See table I												
	3 - .250 Round													
2 - Aluminum	4 - .250 "D" Flat													
^{1/} When all four of the "N" options (SIZE, STYLE DIAL, COLOR-KNOB/DIAL and INDICIA) are selected, omit all "N" codes from MS dash number.														
(F) Entire standard revised														
P.A. 11 Other Cust		TITLE KNOB-RADIAL INDICATOR, ILLUMINATED AND NON-ILLUMINATED												
PROCUREMENT SPECIFICATION MIL-R-25045		SUPERSEDES												
		MILITARY STANDARD MS21383(USAF)												
		SHEET 1 OF 2												

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TABLE III. Angular location of dial graduations.

Numeric	Degrees	Angular location	Numeric	Degrees	Angular location
9	90	0°	4	48	154°
	88	7° 20'		46	161° 20'
	86	14° 40'		44	168° 40'
	84	22°		42	176°
	82	29° 20'		40	183° 20'
8	80	36° 40'	3	38	190° 40'
7	78	44°		36	198°
	76	51° 20'		34	205° 20'
	74	58° 40'		32	212° 40'
	72	66°		30	220°
70	73° 20'	2	28	227° 20'	
6	68		80° 40'	26	234° 40'
	66		88°	24	242°
	64		95° 20'	22	249° 20'
	62		102° 40'	20	256° 40'
	60	110°	1	18	264°
5	58	117° 20'		16	271° 20'
	56	124° 40'		14	278° 40'
	54	132°		12	286°
	52	139° 20'		10	293° 20'
50	146° 40'	0	8	300° 40'	
			6	308°	
			4	315° 20'	
			2	322° 40'	
			0	330°	

METRIC EQUIVALENTS

INCHES	MM	INCHES	MM
.001	.03	.38	9.65
.002	.05	.424	10.77
.005	.13	.44	11.18
.005	.13	.444	11.28
.06	1.52	.465	11.81
.07	1.80	.500	12.70
.09	2.29	.62	15.75
.094	2.41	.625	15.88
.10	2.54	.656	16.66
.108	2.74	.687	17.45
.125	3.18	.75	19.05
.19	4.83	1.00	25.40
.223	5.66	1.50	38.10
.253	6.43		
.31	7.87		

NOTES:

- Dimensions.** In inches.
- Tolerances.** Unless otherwise specified, tolerances are $\pm .010$ (.25 mm) for three place decimals, $\pm .02$ (.51 mm) for two place decimals, and $\pm 0^\circ 30'$ on angles.
- Weight.** .45 ounces maximum.
- Material.** Insert: Brass in accordance with QQ-B-626.
Knob: Thermoplastic or Aluminum alloy.
Dial: Acrylic plastic in accordance with MIL-F-5425 Finish A, or Thermoplastic material.
- Finish.** Insert: Nickel plate in accordance with QQ-N-290, grade G, class 2.
Knob and Dial: Bottom surface of illuminated knobs shall have no coating and shall be polished.
- Color.** Unless otherwise specified, colors shall be in accordance with FED-STD-595.
Knob and Dial: Gray lusterless, color number 36231.
Black lusterless, color number 37038.
Metal, natural anodize in accordance with MIL-A-8625.
Indicia: White lusterless, color number 37875.
Reflection may be reduced to 50% minimum.
Markings shall meet a daylight contrast of 9 minimum.
Black lusterless, color number 37038 for anodized knobs.
- For design feature purposes, this standard takes precedence over procurement documents referenced herein.
- Referenced documents shall be of the issue in effect on date of invitations for bids, or request for proposal, except that referenced adopted industry documents shall give the date of the issue adopted.
- Metric equivalents (to the nearest .01 mm) are given for information only and are based on 1 inch = 25.4 mm.

P.A.	11	TITLE	MILITARY STANDARD
Other Cust		KNOB-RADIAL INDICATOR, ILLUMINATED AND NON-ILLUMINATED	MS21383(USAF)
PROCUREMENT SPECIFICATION	SUPERSEDES	SHEET	2 OF 2
MIL-K-25049			

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