

This military standard has been approved by the Department of Defense and is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering design applications and for repetitive use shall be made from this document.

Reviewers
Army - GL
Navy - YD
Air Force - 11, 69
ISA-15

Users
MC, MO, CE

P A Air Force - 11		TITLE		MILITARY STANDARD										
Other Cust Air Force - 11 Army-MC Navy-YD		CASTERS, RIGID AND SWIVEL, PRECISION, HEAVY DUTY		MS27149										
PROCUREMENT SPECIFICATION		SUPERSEDES		SHEET 2										
WD-C-4751		MS24375												
MS PART NO. (a)	A WHEEL DIA. "MIN."	B STYLE CASTER	C TYPE WHEEL	D TIRE TIRE	E RATED LOAD LBS. (MIN)	F CASTER WEIGHT MAX. LBS.	G TREAD WIDTH AT BASE OF TIRE ± 1/16	H OVERALL HEIGHT ± 1/4	I D (c) SWIVEL CLEARANCE MAX. MIN.	J 2 DIA. OF BOLE HOLE SPACING ±.004	K BOLT HOLE SPACING ±.010	L TOP PLATE WIDTH MAX.	M TOP PLATE LENGTH MAX.	N TOP PLATE THICKNESS AT BOLT HOLE MAX.
MS27149-SSRC	8	RIGID	SINGLE	CURED ON	560	30	2-1/2	10-1/2	8-1/2	6-1/2	4.875	7	8-1/2	3/4
MS27149-SSRV		DEMOUNTABLE												
MS27149-SSNC		NONOFFSET SWIVEL												
MS27149-SSRV		OFFSET SWIVEL												
MS27149-SSRV	8	RIGID	DUAL	CURED ON	795	45	2-1/2	10-1/2	8-1/2	6-1/2	4.875	7	8-1/2	3/4
MS27149-SSRV		DEMOUNTABLE												
MS27149-SSNC		NONOFFSET SWIVEL												
MS27149-SSRV		OFFSET SWIVEL												
MS27149-SSRC	10	RIGID	SINGLE	CURED ON	890	35	3	12-3/4	9-3/4	6-1/2	4.875	7	8-1/2	3/4
MS27149-SSRV		DEMOUNTABLE												
MS27149-SSNC		NONOFFSET SWIVEL												
MS27149-SSRV		OFFSET SWIVEL												
MS27149-SSRC	10	RIGID	DUAL	CURED ON	1120	50	3	12-3/4	9-3/4	6-1/2	4.875	7	8-1/2	3/4
MS27149-SSRV		DEMOUNTABLE												
MS27149-SSNC		NONOFFSET SWIVEL												
MS27149-SSRV		OFFSET SWIVEL												

FED SUP CLASS
5340

APPROVED 14 Sep 61 REVISED 3 For change see sheets 1, 2, AND 3

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Reviewers
Army - GL
Navy - YD
Air Force - 11, 69
DPA-25

Users
WC, MO, CE

P A Air Force - 11		TITLE		MILITARY STANDARD											
Other Cust Air Force - 11 Army - WC Navy - YD		CASTERS, RIGID AND SWIVEL, PRECISION, HEAVY DUTY		MS27149											
PROCUREMENT SPECIFICATION MIL-C-4751		SUPERSEDES MS24375		SHEET 3											
MS PART NO. (a)	A WHEEL DIA. "NOM."	B STYLE CASTER	B TYPE WHEEL	B TYPE TIME	RATED LOAD LBS. (MIN)	CASTER WEIGHT LBS.	THREAD WIDTH (b) AT BASE OF TIRE OF TIRE ± 1/16 ± 1/4	C OVERALL HEIGHT ± 1/4	D (c) SWIVEL CLEARANCE MIN.	DIA. OF BOLT HOLES ± .004	BOLT HOLE SPACING ± .010	BOLT HOLE SPACING ± .010	TOP PLATE WIDTH MAX.	TOP PLATE LENGTH MAX.	TOP PLATE THICKNESS AT BOLT HOLE MAX.
MS27149-12SRC	12	RIGID	SINGLE	CURED ON	990	90	3	11-3/4	11-1/2	.656	4.875	6.750	7	8-1/2	3/4
MS27149-12SRV		DEMOUNTABLE													
MS27149-12SRC		NONOFFSET SWIVEL													
MS27149-12SRV		OFFSET SWIVEL													
MS27149-12SRC		RIGID													
MS27149-12SRV		DEMOUNTABLE													
MS27149-12SRC	16	RIGID	DUAL	CURED ON	1280	70	4	19-1/2	15	.656	7.000	9	11	3/4	
MS27149-12SRV		DEMOUNTABLE													
MS27149-12SRC		NONOFFSET SWIVEL													
MS27149-12SRV		OFFSET SWIVEL													
MS27149-12SRC		RIGID													
MS27149-12SRV		DEMOUNTABLE													
MS27149-16SRC	16	RIGID	SINGLE	CURED ON	1660	70	4	19-1/2	15	.656	7.000	9	11	3/4	
MS27149-16SRV		DEMOUNTABLE													
MS27149-16SRC		NONOFFSET SWIVEL													
MS27149-16SRV		OFFSET SWIVEL													
MS27149-16SRC		RIGID													
MS27149-16SRV		DEMOUNTABLE													
MS27149-16SRC	16	RIGID	DUAL	CURED ON	2440	120	4	19-1/2	15	.656	7.000	9	11	3/4	
MS27149-16SRV		DEMOUNTABLE													
MS27149-16SRC		NONOFFSET SWIVEL													
MS27149-16SRV		OFFSET SWIVEL													
MS27149-16SRC		RIGID													
MS27149-16SRV		DEMOUNTABLE													

(3) NOTE - Deleted