

INCH-POUND

MS27149C  
 31 October 2007  
 SUPERSEDING  
 MS27149B  
 4 February 1999

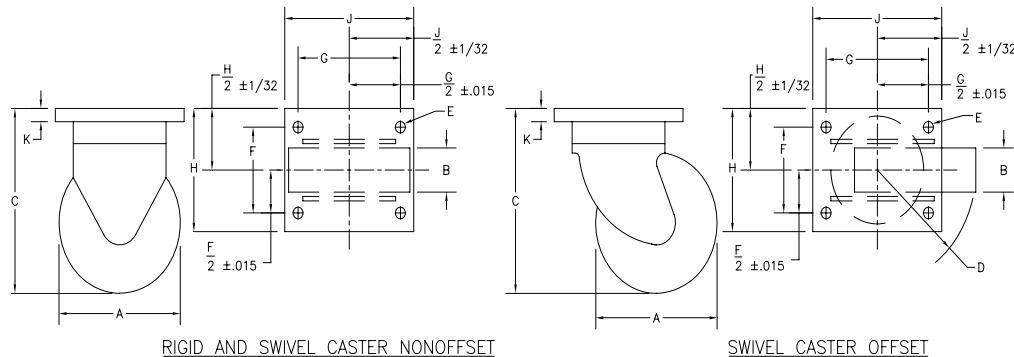
## MILITARY SPECIFICATION SHEET

## CASTERS, RIGID AND SWIVEL, PRECISION, HEAVY DUTY

Inactive for new design after 4 February 1999

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and NASM 4751.



## DIMENSIONS:

FOLLOWING NOTES APPLY TO MS PART NUMBER TABLE (SEE SHEET 2& 3).

- (a) DASH NUMBERS -8, -10, -12, & -16 DESIGNATE THE WHEEL SIZE AS DESIGNATED BY COLUMN "A".  
 THE FIRST DASH LETTERS DESIGNATE TYPE OF WHEEL AS FOLLOWS:

S – SINGLE  
 D – DUAL

THE SECOND DASH LETTERS DESIGNATE THE STYLE OF CASTER AS FOLLOWS:

R – RIGID  
 N – SWIVEL NONOFFSET  
 W – SWIVEL OFFSET

THE THIRD DASH LETTERS SHALL DESIGNATE THE TYPE TIRE AS FOLLOWS:

C – CURED OR VULCANIZED ON TIRE  
 V – VULCANIZED DEMOUNTABLE TIRE

ADDITIONAL DASH LETTERS SHALL BE ADDED TO CASTERS, WHEN REQUIRED TO DESIGNATE THE FOLLOWING:

P – STEERING PROVISIONS  
 B – BRAKES INSTALLED

- (b) THE "B" TREAD WIDTH IS THE WIDTH OF EACH WHEEL ON THE CASTER, WHETHER THE CASTER IS OF SINGLE OR DUAL CONSTRUCTION.

- (c) APPLIES TO OFFSET SWIVEL CASTERS ONLY.

EXAMPLE OF PART NUMBER: MS27149-10SNVP: SIZE 10, SINGLE WHEEL NONOFFSET SWIVEL, VULCANIZED DEMOUNTABLE TIRE, STEERING PROVISIONS.

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 INVITATION FOR BID.

MS PART NO. (a)	A WHEEL DIA "NOM"	STYLE CASTER	TYPE WHEEL	TYPE TIRE	RATED LOAD LBS (MIN)	CASTER WEIGHT MAX LBS	B (b) TREAD WIDTH AT BASE OF TIRE ± 1/16	C OVERALL HEIGHT ± 1/4	D (c) SWIVEL CLEARANCE		E DIA OF BOLT HOLE ± .004	F BOLT HOLE SPACING ± .010	G BOLT HOLE SPACING ± .010	H TOP PLATE WIDTH MAX	J TOP PLATE LENGTH MAX	K TOP PLATE THICKNESS AT BOLT HOLE MAX
									MAX	MIN						
MS27149-8SRC	8	RIGID	SINGLE	CURED ON	560	30	2-1/2	10-1/2	8-1/2	6-1/2	.656	4.875	6.750	7	8-1/2	3/4
MS27149-8SRV				DEMOUNTABLE												
MS27149-8SNC		NONOFFSET SWIVEL		CURED ON												
MS27149-8SNV				DEMOUNTABLE												
MS27149-8SWC		OFFSET SWIVEL		CURED ON												
MS27149-8SWV				DEMOUNTABLE												
MS27149-8DRC		RIGID	DUAL	CURED ON	755	45										
MS27149-8DRV				DEMOUNTABLE												
MS27149-8DNC		NONOFFSET SWIVEL		CURED ON												
MS27149-8DNV				DEMOUNTABLE												
MS27149-8DWC		OFFSET SWIVEL		CURED ON												
MS27149-8DWV				DEMOUNTABLE												
MS27149-10SRC	10	RIGID	SINGLE	CURED ON	830	35	3	12-3/4	9-3/4	7	.656	4.875	6.750	7	8-1/2	3/4
MS27149-10SRV				DEMOUNTABLE												
MS27149-10SNC		NONOFFSET SWIVEL		CURED ON												
MS27149-10SNV				DEMOUNTABLE												
MS27149-10SWC		OFFSET SWIVEL		CURED ON												
MS27149-10SWV				DEMOUNTABLE												
MS27149-10DRC		RIGID	DUAL	CURED ON	1120	50										
MS27149-10DRV				DEMOUNTABLE												
MS27149-10DNC		NONOFFSET SWIVEL		CURED ON												
MS27149-10DNV				DEMOUNTABLE												
MS27149-10DWC		OFFSET SWIVEL		CURED ON												
MS27149-10DWV				DEMOUNTABLE												

MS27149C

3

MS PART NO. (a)	A WHEEL DIA "NOM"	STYLE CASTER	TYPE WHEEL	TYPE TIRE	RATED LOAD LBS (MIN)	CASTER WEIGHT MAX LBS	B (b) TREAD WIDTH AT BASE OF TIRE ± 1/16	C OVERALL HEIGHT ± 1/4	D (c) SWIVEL CLEARANCE		E DIA OF BOLT HOLE ± .004	F BOLT HOLE SPACING ± .010	G BOLT HOLE SPACING ± .010	H TOP PLATE WIDTH MAX	J TOP PLATE LENGTH MAX	K TOP PLATE THICKNESS AT BOLT HOLE MAX
									MAX	MIN						
MS27149-12SRC	12	RIGID	SINGLE	CURED ON	950	50	3	14-3/4	11-1/2	9	.656	4.875	6.750	7	8-1/2	3/4
MS27149-12SRV				DEMOUNTABLE												
MS27149-12SNC		NONOFFSET SWIVEL		CURED ON												
MS27149-12SNV				DEMOUNTABLE												
MS27149-12SWC		OFFSET SWIVEL		CURED ON												
MS27149-12SWV				DEMOUNTABLE												
MS27149-12DRC		RIGID	DUAL	CURED ON	1280	70										
MS27149-12DRV				DEMOUNTABLE												
MS27149-12DNC		NONOFFSET SWIVEL		CURED ON												
MS27149-12DNV				DEMOUNTABLE												
MS27149-12DWC		OFFSET SWIVEL		CURED ON												
MS27149-12DWV				DEMOUNTABLE												
MS27149-16SRC	16	RIGID	SINGLE	CURED ON	1660	70	4	19-1/2	15	12	.656	7.000	9.750	9	11	3/4
MS27149-16SRV				DEMOUNTABLE												
MS27149-16SNC		NONOFFSET SWIVEL		CURED ON												
MS27149-16SNV				DEMOUNTABLE												
MS27149-16SWC		OFFSET SWIVEL		CURED ON												
MS27149-16SWV				DEMOUNTABLE												
MS27149-16DRC		RIGID	DUAL	CURED ON	2440	120										
MS27149-16DRV				DEMOUNTABLE												
MS27149-16DNC		NONOFFSET SWIVEL		CURED ON												
MS27149-16DNV				DEMOUNTABLE												
MS27149-16DWC		OFFSET SWIVEL		CURED ON												
MS27149-16DWV				DEMOUNTABLE												

MS27149C

## MS27149C

Custodians:

Army – AR

Navy – YD

Air Force – 99

Preparing activity:

DLA – IS

(Project 5340-2740-000)

Review activities:

Army – CE, GL

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil/>