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MILITARY STANDARD **MS**16628 PAGE 7

DD 672·1 (COORDINATED)

NAVY-OS ARMY - AR

AIR FORCE-99 PROCUREMENT SPECIFICATION

MIL-R-21248

INTERNATIONAL

5365-0130

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(TAPERED SECTION TYPE)

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REQUIREMENTS:

1. CLASSIFICATION: RETAINING RINGS FURNISHED UNDER THIS STANDARD SHALL HE TYPE II, CLASS 2 OF THE PROCUREMENT SPECIFICATION.

2. MATERIAL:

- (a) CARRON SPRING STEEL, GRADE 1060 THRU 1095 (UNS G10600 THRU G10950) IN ACCORDANCE WITH ASIM A568 OR ASIM A682.
- (b) CORROSION RESISTANT STEEL IN ACCORDANCE WITH AMS 5520 (UNS \$15700).
- (c) BERNILIUM COPPER ALLOY NURSER 170 (UNS C17000) OR ALLOY NURSER 172 (UNS C17200) IN ACCORDANCE WITH ASTH B194.
- 3. HARONESSI

TABLE II. HARDNESS

Ø SHAFT (REF)	CARBON STEEL	Corrosion Resistant Steel	BERYLLIUM CUPPER
.188 TO .236 INCL	-	-	77.9-82.0 HRISN 1/ (39-43 HRC EQUIV)
.250 TO .551 INCL	85.5-87.9 HR15N 1/	83.5-85.9 HR15N 1/	77.9-82.0 HR15N 1/
	(50-55 HRC EQUIV)	(46-51 HRC EQUIV)	(39-43 HRC EQUIV)
.562 TO .669 INCL	68.5-73.0 HR30N 1/	64.8-69.4 HR30N 1/	58.6-62.2 ER30N 1/
	(50-55 HRC EQUIV)	(46-51 HRC EQUIV)	(39-43 HRC EQUIV)
.688 TO 1.500 INCL	52.5-58.6 HR45N 1/	50.3-56.1 BR45N 1/	41.9-46.7 HR45N 1/
	(48-53 HRC EQUIV)	(46-51 HBC EQUIV)	(39-43 HRC EQUIV)

^{1/} USE HIGHEST SCALE TO PROVIDE SECTION WIDTH EQUAL TO OR GREATER THAN 5 TIMES THE BRAILE IMPRESSION DIAMETER.

- 4. PROTECTIVE PINISE OR SURFACE TREATMENT:
 - (a) CARBON STEEL SHALL BE AS SPECIFIED (SEE TABLE III OR IV):
 - (1) CAINTUM PLATE IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 3 OR ASIM B696, TYPE II, CLASS 5.
 - (2) ZINC COAT IN ACCORDANCE WITH ASTM B633, TYPE II, CLASS Fe/Zn5, OR ASTM B695, TYPE II, CLASS 5.
 - (3) PROSPERTE CORT IN ACCORDANCE WITH DOD-P-16232, TYPE 5, CLASS 2.
 - (b) CORPOSION RESISTANT STEEL SHALL BE CLEANED, DESCALED AND PASSIVATED IN ACCORDANCE WITH QQ-P-35.
- 5. PART NUMBER: THE BASIC MS PART NUMBER IS FOLLOWED BY A DASH NUMBER TAKEN FROM TABLE III OR IV.

EXAMPLE: MS16629-1100 IS THE PART NUMBER FOR A CARBON STEEL CALMIUM PLATE, EXTERNAL, BOWED RETAINING RING FOR USE ON A 1,000 DIAMETER SHAFT.

NOTES:

- 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES.
- IN THE EVENT OF A CONFLICT RETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HERBIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
- 3. REFERENCED COVERNMENT (OR NON-COVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODIES) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HERRIN.

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TABLE I	II. DASH	NUMBERS	FOR	M316628

Øs Shaft	CARBON STEEL 1/ CADMIUM PLATE	CARBON STEEL 1/ ZINC COAT	CARBON STEEL 1/ PROSPHATE COAT	STELL CORROSION RESISTANT	COPPER DERVILLIUM 1/	BERYLLIUM COPPER CADMIUM PLATE
(REF)	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
.188					-5018	-5018-1
.197				1	-5019	<i>-</i> 5019-1
.219	1				-5021	-5021-1
.236					~5023	-5023-1
.250	-1025	-2025	-3025	-4 025	-5025	-5025-1
.276	-1027	-2027	-3027	-4027	-5027	-5027-1
.281	-1028	-2028	-3028	-4028	-5028	-5028-l
,312	-1031	-2031	-3031	-4031	-5031	-5031-1
,344	-1034	-2034	-3034	-4034	-5034	-5034-1
.354	-1035	-2035	-3035	-4035	-5035	-5035-1
.375	-1037	-2037	-3037	-4037	-5037	-5037-1
.394	-1039	-2039	-3039	-4039	-5039	-5039-1
. 406	-1040	-2040	-3040	~4040	-5040	-5040-1
.438	-1043	-2043	-3043	-4043	-5043	-5043-1
.469	-1046	-2046	-3046	-4046	-5046	-5046-1
.500	-1050	-2050	-3050	-4050	-5050	-5050-1
.551	-1 05 5	-2055	-3055	-4055	-5055	-5055-1
. 562	-1056	-2056	-3056	-4056	-5056	-5056-1
.594	-1059	-2059	-3059	-4059	-5059	-5059-1
.625	-1062		-3062	-4062	. -50 62	-5062-1
.669	-1066	-2066	-3066	-4066	-5066	-5066-1
.672	-1067	-2067	-3067	-4067	-5067	-5067-1
.688 .	-1068	-2068	-3068	-4068	-5068	-5068-1
.750	-1075	-2075	-3075	-4075	-5 075	-5075-1
.781	-1078	-2078		-4078	-5078	-5078-1
.812	-1081	-2081	-3081	-4081	-5081	-5081-1
.875	-1087	-2087	-3087	-4087	-5087	-5087-1
.938	-1093	-2093	-3093	-4093	-5093	-5093-1
.984	-1098	-2098	-3098	-4098	~5098	-5098-1
1.000	-1100	-2100	-3100	-4100	-5100	-5100-1
1.023	-1102	-2102	-3102	-4102	-5102	-5102-1
1.062	~1106	-2106	-3106	-4106	-5106	-5106-1
1,125	-1112	-2112	-3112	-411,2	-5112	-5112-1
1.188	-1118	-2118	-3118	-4118	-5118	-5118-1
1.250	-1125	-2125	-31.25	-4125	-5125	-5125-1
1,312	-1131	-2131	-3131	-4131	-5131	-5131-1
1.375	-1137	-2137	-3137	-41.37	-5137	-5137-1
1.438	-1143	-2143	-3143	-4143	-5143	-5143-1
1,500	-1150	-2150	-3150	-4150	-5150	-5150-1

1/ substitute corresion resistant steel when used in focd processing machinery, or in fuel or lubrication systems, or when used at temperatures over $450^{\rm op}$ (233°C).

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TABLE IV. SUBSTITUTION TABLE (CROSS REFERENCE OF PART NUMBERS)

13813	14. <u>5053111</u>	UTION TABLE (CRO	OS REFERENÇA CE	LVIC UNAPPERED
Ø8	INACTIVE	SUBSTITUTE	Substitute	Substitute
SHAFT		CARBON	CARRON	CARBON . ,
(REF)	CARBON	STEEL 1/	CARBON STEEL 1/	STEEL 1/
,,	STEEL	CADMIUM	ZILC	PROSPHATE
1		PLATE	COAT	COAT
<u> </u>	FS16628	MS16628	NS16628	MS16628
.250	-25	-1025	-2025	-3025
.276	-27	-1027	-2027	-3027
.281	-28	-1028	-2028	-3028
.31.2	-31	-1031	-2031	-3031
.344	_/ -34	-1034	-2034	-3034
.354	-35	~1035	-2035	-3035
.375	-37	-1037	-2037	-3037
.394	-39	-1039	-2039	-3039
.406	-40	-1040	-2040	-3040
.438	-43	-1043	-2043	~3043
.469	-4 6	-1046	-2046	-3046
.500	-50	-1050	-2050	-3050
.551	-55	-1055	-2055	-3055
,562	-56	-1056	-2056	-3056
.594	-59	-1059	-2059	-3059
.625	62	-1062	-2062	-3062
.669	-66	-1066	-2066	-3066
.672	-67	-1067	-2067	-3067
.688	−68	-1068	-2068	-3068
.750	-75	-1075	-2075	-3075
.781	-78	-1078	-2078	-3078
812.	81	~1081	-2081	-3081
.875	-87	~1087	-2087	-3087
.938	-93	-1093	-2093	-3093
.984	-98	-1098	-2098	-3098
1.000	-100	-1100	-2100	-3100
1,023	-102	-1102	-2102	-3102
1.062	-106	-1106	-2106	-3106
1,125	-112	~1112	-2112	-3112
1.188	-116	-1118	-2118	-3178
1,250	-125	-1125	-2125	-3125
1.312	-131	-1131	-2131	-3131
1.375	-137	-1137	-2137	-3137
1,438	-143	-1143	-2143	-3143
1.500	-150	-1150	-2150	-3150
L				

1/ Substitute corrosion resistant steel when used in food processing machinery, or in fuel or lubrication systems, or when used at temperatures over 450°F (233°C).

MILITARY STANDARD NAVY-OS Other Cast ARMY- AR AIR FORCE-99 RING, RETAINING, EXTERNAL, BOWED (TAPERED SECTION TYPE) INTEREST MS16628 PROCUREMENT SPECIFICATION PAGE MIL-R-2|248

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RECOMMENDED DESIGN LIMITATIONS AND USAGE

(a) INTENDED USE - TO PROVIDE SHOULDERS FOR POSITIONING AND RETAINING MACHINE COMPONENTS ON SHAPTS. TRINGS ARE BENT LIRE A BOW OUT OF PLANE. FREE ENDS AND OPPOSITE EDGE ABUT MACHINE PART, MID-SECTION
OF RING ABUTS OUTER GROVE WALL. RING WILL TAKE UP END PLAY RESILLENTLY. THE RING WILL COUNTERACT
CONSIDERABLE CENTRIFUGAL FORCES. THE USE OF THE FOLLOWING FORWALLS ARE BASED ON THE FACT THAT THE RING MATERIAL WILL NOT FAIL IN COMPRESSION.

LIMITATION ON USE - THE FOLLOWING FORMULAS ARE NOT TO BE USED FOR BRITTLE MATERIALS SUCH AS CAST IRON. ETC.

warning - rings should not be over expanced during installation since this will lead to ring pailure. IF THE RING HAS PLAY BETWEEN THE GROOVE DIAMETER AND THE INSIDE RING DIAMETER THIS INDICATES THAT THE ring has been over expanded, (providing groove diameter has been machined to recommended dimensions).

FOR APPROXIMATE SAFETY RPM LIMITS SEE TABLE V.

TABLE V. APPROXIMATE SAFETY RPM LIMITS

Ø SHAFT (INCHES)		.250	.500	1	1.500
CARBON STEEL AND CORROSION RESISTANT STEEL	RPM LIMIT	80,000	40,000	20,000	15,000
BERYLLIUM COPPER	RPM LIMIT	50,000	25,000	13,000	11,000

(b) ALLOWABLE THRUST LOAD CAPACITY OF THE RING (ABUTTING COMPONENTS TO HAVE SEARP CORNERS) =

р <u>– *ЙS*ТХ</u>

P = NILOMBLE THRIST LOAD (POUNDS)
S = SHAFT DIAMETER (INCHES)
T = RING THICKNESS (INCHES)

ULTIMATE SHEAR STRENGTH OF THE RING MATERIAL (PSI)

P = FACTOR OF SAFETY

A SAPTEY FACTOR, F=4, IS RECOMMENDED SINCE THE RING UNDER LOAD IS SUBJECTED NOT ONLY TO PURE SHEAR STRESSES, BUT ALSO TO BENDING STRESSES.

(c) ALLOWABLE LOAD CAPACITY OF GROOVE WALL =

P = ALLOWABLE COMPRESSION LOAD (POUNDS)

P = T/SdY MHERE: S = SHAFT DIAMETER (INCHES)

- d = GROOVE DEPTH (INCHES)
- Y YIELD STRENGTH IN COMPRESSION OF THE GROOVE MATERIAL (PSI)
- P = FACTOR OF SAPETY

TO INSURE A SAFE WORKING LOAD, A SAFETY FACTOR, F=2, IS RECOMMENDED.

WHERE:

· (d) minimum distance between cuter groovs wall and erd of shaft = x = minimum distance between cuter groovs wall and end of

SHAFT (INCHES) d = GROOVE DEPTH (INCHES)

(e) LOCATION OF GROOVE =

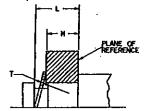
2 - 30

Lyax = Main + Thin + Take-up (as listed)

MIN = MAX + TMAX + .005 3/

TAKE-UP > \$\Delta L + \$\Delta M + \$\Delta T +.005\$

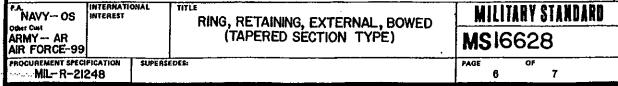
where: $^{\triangle}L = ^{L}PAX - ^{L}MIN$ $^{\triangle}M = ^{M}PAX - ^{M}MIN$ $^{\triangle}T = ^{T}PAX - ^{T}MIN$



X = 120,000 PSI UNITIMATE SHEAR STRENGTH FOR RINGS UP TO AND INCLUDING .672 INCH SHAFT DIAMETER OF CARBON STEEL OR CORROSION RESISTANT STEEL.

X = 150,000 PSI ULTDATE SHEAR STRENGTH FOR RINGS .688 INCH AND OVER SHAFT DIAMETER OF CARBON STEEL OR CORROSION RESISTRANT STEEL.

x = 110,000 PSI ULTIMATE SHEAR STRENGTH FOR RINGS OF ALL SHAFT DIAMETERS AND OF BERYLLIUM COPPER. IT IS ADVISABLE FOR SAFER RING ASSEMBLY TO CALCULATE "MIN WITH ADDITIONAL .005" IN CROEN THAT THE RING IS NOT FLATTERED OUT COMPLETELY IN ADVERSE TOLERANCE CASES. 3/



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(f) VIBRATION =

A RETAINING RING WILL BE SECURE ACAINST VIBRATION IF ITS SHEAR PATIGUE STREATH BYOALS OR EXCLEDS THE FORCE CREATED BY THE MASS OF THE PART BEING REPEATEDLY ACCELERATED ACAINST THE RING.

(1) SHEAR STRENGTH OF RING (CRITICAL) (ABUTTING COMPONENTS TO HAVE SHARP CORNERS) = X = ULTIMATE SHEAR STRENGTH OF RING MATERIAL (PS1) 3'

xr 1.1 s ≥ M a

T = RING THICKNESS (INCHES) S = SHAFT DIAMETER (INCHES)

MHERE: OR FOR HAPPIONIC HOPION

S = SEAFT DIAMETER (INCHES)

W = NEIGHT OF ABUITING PARTS (FOUNDS)

Q = ACCELERATION DUE TO GRAVITY (INCHES)

W = ANGELAR SPEED (RAD/SSC)

a = ACCELERATION (INCHES)

a = 5 w 2

Xr 1.1 6 2 M 6W

(2) COMPRESSIVE STRENGTH OF GROOVE MATERIAL (CRITICAL) * Y = YIELD STRENGTH IN COMPRESSION OF THE GROOVE MATERIAL (PS1) 1.65783 $\stackrel{>}{=} \frac{M}{6} \frac{N}{6}$ WHERE: d = GROOVE DEPTH (INCHES)

1.657dS = H 6"

OTHER SYMBOLS AS SHOWN IN (1)

IMPACT CAPACITY OF RING OR GROWE WALL = $I_R = \frac{PT}{2}$ FOR THE RING (INCH POUNDS) (ABUTTING COMPONENTS TO HAVE SHARP CORNERS) =

 $I_G = Pd - FOR$ THE GROOVE (INCH POUNDS)

 $\begin{array}{ll} P &= ALLCHARLS & THREST LOAD OF RING OR GROOVE (PCUNDS)\\ T &= RING & THICKNESS (INCHES)\\ L_G &= IMPACT CAPACITY OF GROOVE NALL (INCH POURBS)\\ \end{array}$

d = GROOVE DEPTH (INCHES)

IR = IMPACT CAPACITY OF RING (INCH POUNDS)

LOAD CAPACITY WITH THE RETAINED PART RADIUSED OR CHAMPERED.
WHEN THE RADIUS OR CHAMPER OF THE RETAINED PART DOES NOT EXCEED THE MAXIMUM RADIUS ALLOWED FOR THE BOTTOM
OF THE RING GROOME, THE LESSER LOAD CAPACITY COMPUTED FROM THE FORMULA ON PAGE 6 WILL APPLI. THE
CORNER RADII AND CHAMPERS LISTED ON PAGES 1 AND 2 NERE CHOSEN AS LARGE AS POSSIBLE FOR THE RING SIZES
INVOLVED AND ARE RELATED TO THE MAXIMUM TRUST LOADS LISTED IN TABLE VI. IF THE CORNER RADII OR CHAMPERS
ARE SMALLER THAN THOSE LISTED, THEN THE THRUST LOADS INCIPASE PROPORTIONALLY IN ACCORDANCE WITH THE FOLLOWING FORMULAS.

> P1 - P CH CH1

THEN THEY SHOULD BE USED.

P¹ = NEW ALLOWABLE THRIST LOAD P = LISTED ALLOWABLE THRIST LOAD CH¹ = NEW (SWALLER) CHARFER

NHERE:

OR

CH = LISTED CRAFFER

R¹ = NEW (SPRILLER) CORNER RADIUS

R = LISTED CORNER RADIUS $P^1 = PR$

LIMIT LOADS LISTED IN TABLE VI ARE BASED ON RINGS OF BERYLLIUM COPPER (MORKING STRESS 180,000 PSI) FOR ALL SIZES AND ON RINGS OF CARBON STREEL OR CORROSION RESISTANT STREEL (MORKING STRESS 250,000 PSI) FOR SIZES .250 AND LANGER. IF THE ALLCKARIA GROOVE CAPACITY LOADS AS CALCULATED BY USING THE FORMULA ON FACE 6 ARE LESS,

TABLE VI. LIMIT LOADS

NOM RING		ALLOWABLE TERUST LOAD FOR RIC PARTS BAVING MAXIMUM CORNER I	
PROM	OT	Carbon Steel or Corrosion Resistant Steel	HERYLLIUM COPPER
.188 .250 .500 .688 1.062	.236 .469 .672 1.023 1.500	470 LB 910 LB 1340 LB 1950 LB	105 LB 340 LB 650 LB 950 LB 1400 LB

3/ X = 120,000 PSI ULTIFATE SHEAR STRENGH FOR RINGS UP TO AND INCLUDING .672 INCH SHAFT DIAMETER OF CARBON STEEL, OR CORROGION RESISTANT STEEL.

X = 150,000 PSI ULTIFATE SHEAR STRENGH FOR RINGS .688 INCH AND OVER SHAFT DIAMETER OF CARBON STEEL OR CORROGION

resistant steel. X = 110,000 psi ultipate shear strength for rings of all shaft diameters and of Beryllium Copper.

P.A. INTERNATIONAL NAVY—OS OTHER COST	RING, RETAINING, EXTERNAL, BOWED	MILITARY STANDARD		
ARMY — AR AIR FORCE—99	(TAPERED SECTION TYPE)	MS 16628		
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