

MS27622C
12 January 2018
SUPERSEDING
MS27622B
14 October 2009

SOCKET, HOSE COUPLING

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-83296.

Technical drawing of a hex nut. The drawing includes a side view and a top view. The side view shows the nut's profile with dimensions: A (total length), B (width of hexagonal section), C (width of central hole), D (height of hexagonal section), E (height of central hole), F (height of hexagonal section), G (height of central hole), H (height of hexagonal section), and K (width of hexagonal section). The central hole is labeled "L" RADIUS. The hexagonal section is labeled "HEX". The top view shows the hexagonal shape with dimensions J (width of hexagonal section) and B (width of hexagonal section). The drawing includes callouts for surface finish: AU (all surfaces), AL (all surfaces), and AM (all surfaces). The drawing also includes a "LOCATION OPTIONAL" label.

AMSC N/A



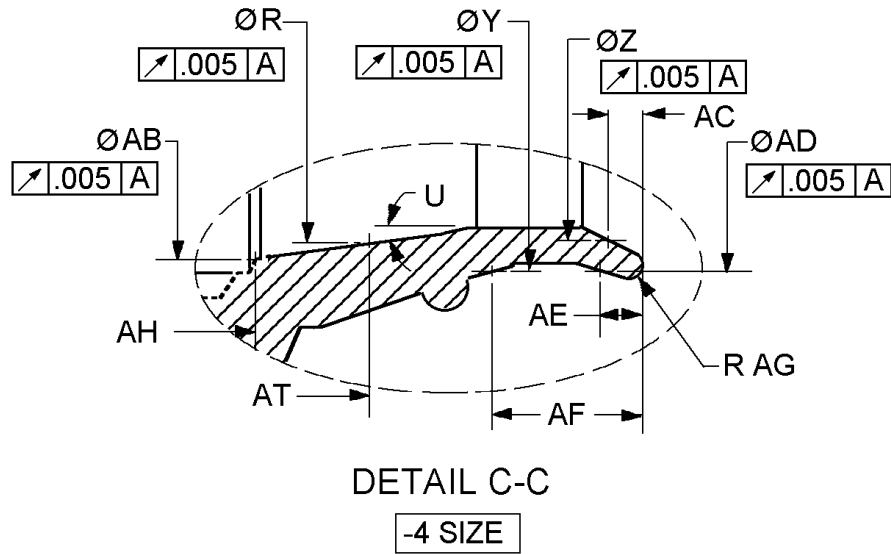
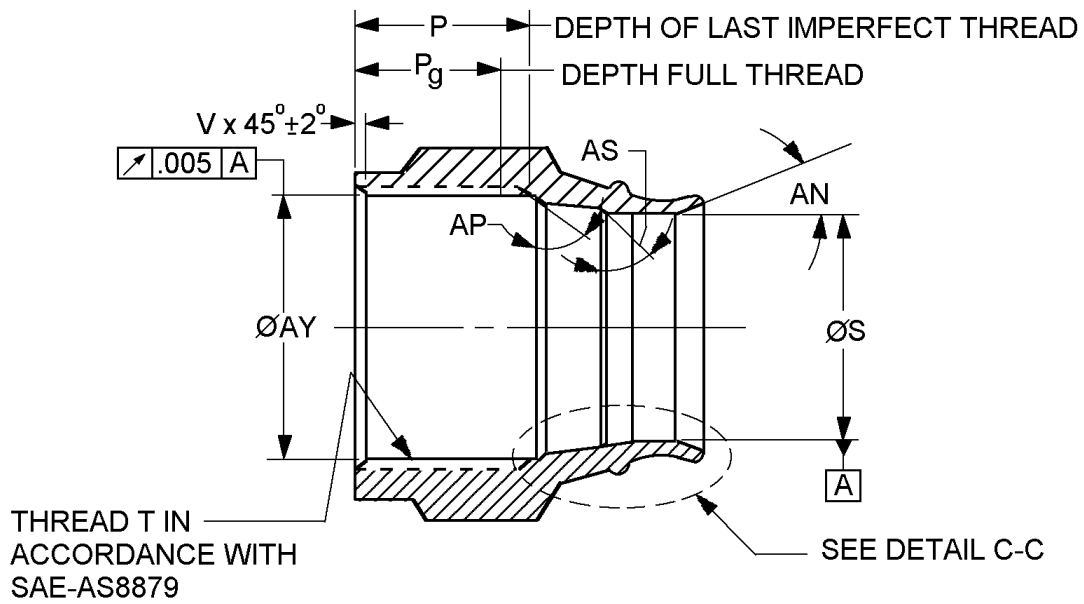


FIGURE 1. Socket dimensions and configuration - Continued.

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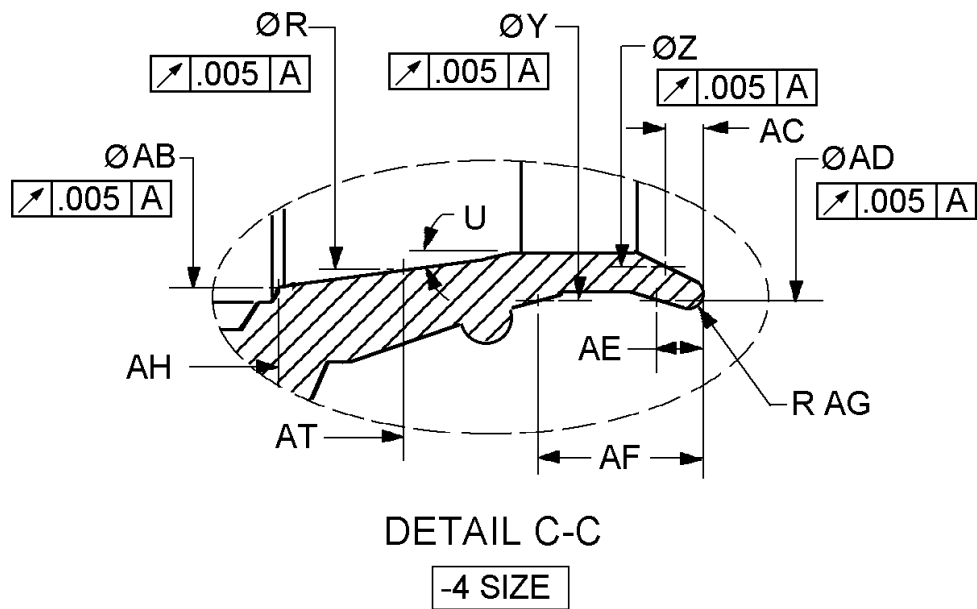
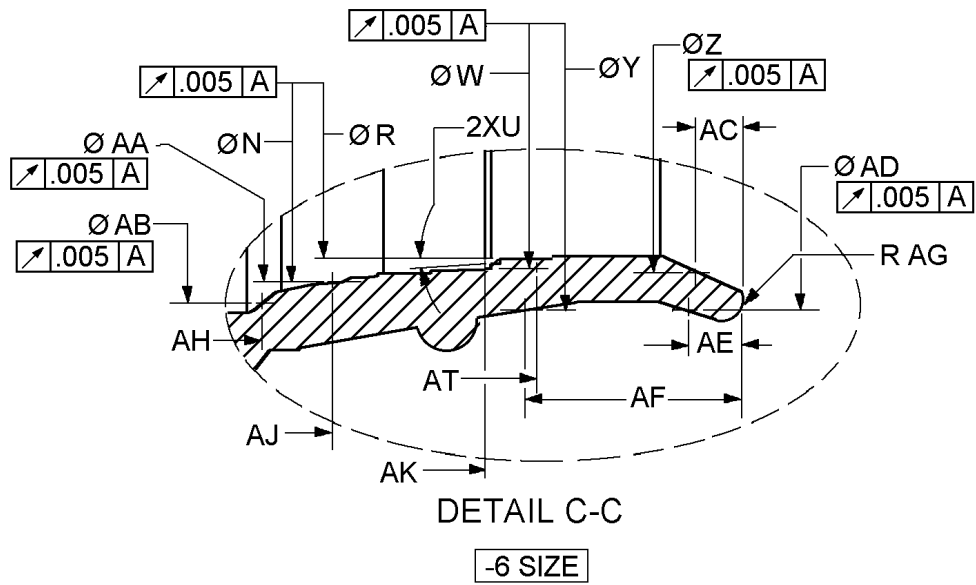
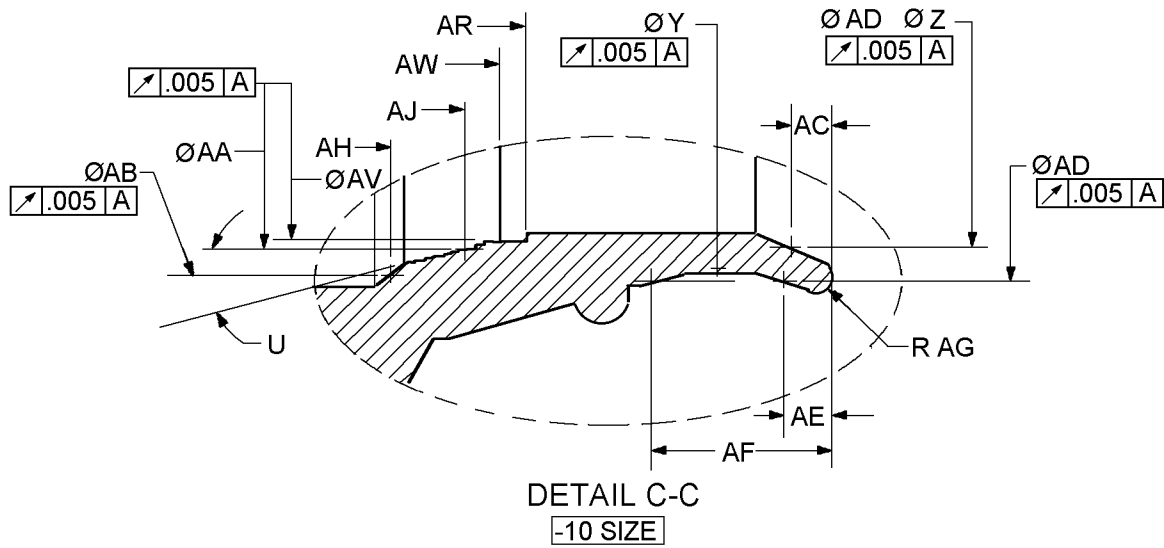


FIGURE 1. Socket dimensions and configuration - Continued.

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PIN	A ±.010 (0.25) inch (mm)	B ±.005 (0.13) inch (mm)	C ±.005 (0.13) inch (mm)	D ±.005 (0.13) inch (mm)	E ±.005 (0.13) inch (mm)	F ±.005 (0.13) inch (mm)	G ±.005 (0.13) inch (mm)
MS27622-4C	1.025 (26.04)	.485 (12.32)	.155 (3.94)	.825 (20.96)	.750 (19.05)	.580 (14.73)	.750 (19.05)
MS27622-6C	1.017 (25.83)	.420 (10.67)	.140 (3.56)	.962 (24.43)	.870 (22.10)	.690 (17.53)	.870 (22.10)
MS27622-8C	1.230 (31.24)	.565 (14.35)	.265 (6.73)	1.100 (27.94)	.995 (25.27)	.870 (22.10)	.995 (25.27)
MS27622-10C	1.271 (32.28)	.530 (13.46)	.155 (3.94)	1.375 (34.93)	1.243 (31.57)	1.032 (26.21)	1.243 (31.57)

PIN	H ±.005 (0.13) inch (mm)	J inch (mm)	K ±.005 (0.13) inch (mm)	L ±.005 (0.13) inch (mm)	M ±.005 (0.13) inch (mm)	N ±.005 (0.13) inch (mm)	P max inch (mm)
MS27622-4C	.750 (19.05)	.750 (19.05)	.386 (9.80)	.030 (0.76)	-	-	.395 (10.03)
MS27622-6C	.870 (22.10)	.875 (22.23)	.402 (10.21)		-	.635 (16.13)	
MS27622-8C	.995 (25.27)	1.000 (25.40)	.436 (11.07)	.050 (1.27)	.436 (11.07)	-	.400 (10.16)
MS27622-10C	1.243 (31.57)	1.250 (31.75)	.446 (11.33)		-	-	

FIGURE 1. Socket dimensions and configuration - Continued.

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PIN	P _g min. inch (mm)	R basic inch (mm)	S +.005 -.000 (+0.13) inch (mm)	Thread T	Pitch diameter inch (mm)
MS27622-4C	.310 (7.87)	.5068 (12.873)	.485 (12.32)	.625-18UNJF-3B	.5934/.5889 (15.0723/14.958)
MS27622-6C	.295 (7.49)	.6030 (15.316)	.585 (14.86)	.750-16UNJF-3B	.7143/.7094 (18.143/18.019)
MS27622-8C	.335 (8.51)	.7868 (19.985)	.755 (19.18)	.875-24UNJS-3B	.8519/.8479 (21.638/21.537)
MS27622-10C	.295 (7.49)	-	.894 (22.71)	1.063-20UNJ-3B	1.0344/1.0300 (26.274/26.162)

PIN	U		V ±.015 inch (mm)	W basic inch (mm)	Y ±.005 (0.13) inch (mm)	Z basic inch (mm)	AA basic inch (mm)	AB basic inch (mm)
MS27622-4C	4°	±.25°	.031 (.79)	-	.632 (16.05)	.5388 (13.686)	-	.5488 (13.939)
MS27622-6C	6°			.6232 (15.829)	.723 (18.36)	.6362 (16.159)	.6448 (16.378)	.6718 (17.064)
MS27622-8C	7°	±.5°	.030 (0.76)	-	.892 (22.66)	.7983 (20.277)	-	-
MS27622-10C			.037 (0.94)	-	1.081 (27.46)	.9762 (24.795)	.9547 (24.249)	.9870 (25.070)

PIN	AC ±.010 (0.25) inch (mm)	AD ±.005 (0.13) inch (mm)	AE basic inch (mm)	AF basic inch (mm)	AG ±.005 (0.13) inch (mm)	AH ±.005 (0.13) inch (mm)	AJ ±.005 (0.13) inch (mm)
MS27622-4C	.070 (1.78)	.632 (16.05)	.0721 (1.831)	.3308 (8.402)	.015 (0.38)	.410 (10.41)	-
MS27622-6C	.074 (1.88)	.723 (18.36)	.0861 (2.187)	.3013 (7.653)		.435 (11.05)	.490 (12.45)
MS27622-8C	.071 (1.80)	.898 (22.81)	.0794 (2.017)	.3220 (8.179)		-	-
MS27622-10C	.056 (1.42)	1.081 (27.46)	.0424 (1.077)	.3387 (8.603)		.461 (11.71)	.524 (13.31)

FIGURE 1. Socket dimensions and configuration - Continued.

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PIN	AK ±.005 (0.13) inch (mm)	AL ±2°	AM ±2°	AN ±2°	AP		AR .005 (0.13) inch (mm)	AS ±.5°
MS27622-4C	-	20°	17°	20°	30°	±.5°	-	-
MS27622-6C	.642 (16.31)		16°		45°		45°	-
MS27622-8C	-		10°		60°		-	-
MS27622-10C	-	30°	15°	40°	45°	±2°	-	.694 (17.63)

PIN	AT ±.005 (0.13 mm) inch(mm)	AU ±5°	AV +.005 -.000 (+0.13) inch (mm)	AW ±.005 (0.13) inch (mm)	AY (inch (mm))	
MS27622-4C	.555 (14.10)	15°	-	-	.565 (14.35)	+.008 -.000 (+0.20, -0.00)
MS27622-6C	.689 (17.50)		-	-	.682 (17.32)	+.009 -.000 (+0.23, -0.00)
MS27622-8C	.580 (14.73)		-	-	.830 (21.08)	+.007 -.000 (+0.18, -0.00)
MS27622-10C	-		.914 (23.22)	.578 (14.68)	1.008 (25.60)	+.008 -.000 (+0.20, -0.00)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances shall be ±.005 inch (0.13 mm).
4. Radius or break all corners to .005 +.005/-.000 inch (0.13 +.013/-.000 mm), unless otherwise specified.
5. Surface roughness, as specified in ASME B46.1, shall not exceed 125 µin Ra.
6. All burrs and slivers shall be removed.
7. Dimensioning and tolerancing are in accordance with ASME Y14.5M.

FIGURE 1. Socket dimensions and configuration - Continued.

REQUIREMENTS:

Dimensions and configurations: The design, construction, and physical dimensions shall be in accordance with MIL-DTL-83296 and figure 1, in case of conflict between this specification sheet and MIL-DTL-83296, this specification sheet shall govern.

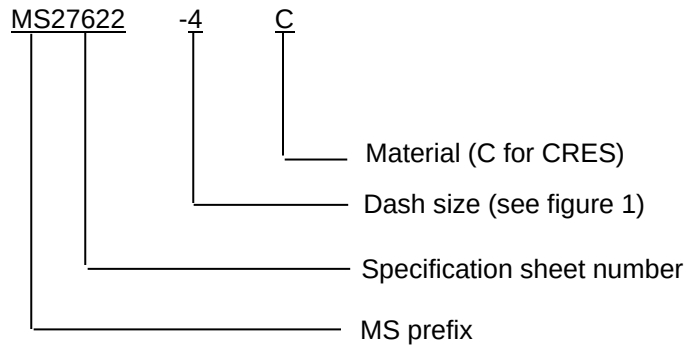
This part is a component of MS27616 through MS27618 and MS27629 through MS27631. The item is only procured as an integral part of an adapter assembly.

Material: Material shall be corrosion resistant steel, class 304, condition B, in accordance with ASTM A276 or ASTM A473. Sizes -4, -6, and -8 shall have a minimum yield of 70,000 psi (483 MPa) and size -10 shall have a minimum yield of 60,000 psi (414 MPa).

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Finish: Finish shall be passivated as specified in MIL-DTL-83296.

PIN example:



PIN example: MS27622-4C indicates a socket 1/4 inch, CRES.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Referenced documents. In addition to MIL-DTL-83296, this document references the following:

MS27616	ASME B46.1
MS27617	ASME Y14.5M
MS27618	ASTM A276
MS27629	ASTM A473
MS27630	SAE-AS8879
MS27631	

CONCLUDING MATERIAL

Custodians:
Army - AV
Navy - AS
Air Force - 99
DLA - CC

Preparing activity:
DLA - CC

(Project 4730-2018-007)

Review activities:
Navy - MC, SA
Air Force - 71

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 <https://assist.dla.mil>.