GENERAL INFORMATION INDEX





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PUBLICATIONS FOR DRAFTING AND COMPONENT STANDARDS

- Metric Dimensioning and Tolerances ANSI Y14.5 1988
- Drafting Practices ANSI Y14.5M-1982 (Reaffirmed 1988)
- Metric Limits and Fits ANSI B4.2 1978
- Units and Metric/U.S. Customary Conversion NAAMS, Pages GEN-4, 5, 6 and 7
- DIN 74 Form K SCR.: C' BORE
- Dowels ISO-8735 1987
- Preferred Numbers ISO 497 1973 R'10 Series
- Letter and Geometric Symbol References ANSI Y10, Y32 Series
- Single Rod Cylinders ISO 6431, ISO 3320 1992
- Cylinder Rod Envelope and Mounting Specifications VDMA 24 562 1992
- Cylinder Rod Thread Specifications DIN ISO 4395 1985

CONTACTS FOR STANDARDS



Copies of referenced standards are available from the following sources:

ANSI

American National Standards Instuite 11 West 42nd Street New York, NY 10036

Phone: (212) 642-4900 FAX: (212) 302-1286

ISO

Global Engineering Documents 7730 Carondelet Avenue Suite 407 St. Louis, MO 63105

Phone: 1-800-854-7179 FAX: (314) 726-6418

DIN

DIN Kamekester. 8 D-50672 Koln, Germany Attn.: Mr Claus Schiefer

Phone: 011-49-221-571-3406 FAX: 001-49-221-571-3414

VDMA

VDMA P.O. Box 710864 D-60498 Frankfurt, Germany Attn.: Mr Brodmann

Phone: 011-49-69-660-3252 FAX: 001-49-69-660-3816

METRIC EQUIVALENT CHART (1 OF 2)

GLOBAL STANDARD COMPONENTS

Assembly

04/16/96



METRIC EQUIVALENT CHART (2 OF 2)

INDEAL STANDARD COMPONENTS

Assembly

04/16/96

METRIC/U.S. CUSTOMARY UNIT EQUIVALENTS							
Multiply:	by:	to get: Multiply	by:	to get:			
ACCELERAT	ION (Standard or	avity = 9.807 m/s^2			10		
feet/sec ² inches/sec ² sec ²	X 0.3048 X 0.0254	=metres/sec ² (m/s ²) =metres/sec ² (m/s ²)	X 3.281 X 39.37	= feet/sec ² = inches/	20		
		acond - joule - newton-metre)					
foot-pounds	X 1.3558	= joules (J)	X 0.7376	= foot-	4		
calories (heat)	X 4.187	= joules (J)	X 0.2388	= calories	 ຫ		
Btu (int'l)	X 1055	= joules (J)	X 0.000948	= Btu (int'l)			
hours	x 3000	= jouies (J)	X 0.0002778	= watt-	60 —		
kilowatt-hours hours	X 3.600	= megajoules (MJ)	X 0.2778	= kilowatt-	2		
PRESSURE	OR STRESS	(newton/sg metre = pascal)					
inches Hg(60°F)	X 3.377	= kilopascals (kPa)	X 0.2961	= inches Hg	ö —		
pounds/sq in	X 6.895	= kilopascals (kPa)	X 0.145	= pounds/			
pounds/sq in	X .06895	= Bars	X 14.504	= pounds/			
inches H ₂ O(60°F)	X 0.2488	= kilopascals (kPa)	X 4.0193	= inches	neti		
bars	X 100	= kilopascals (kPa)	X 0.01	= bars	res 11		
pounds/sq ft sa ft	X 47.88	= pascals (Pa)	X 0.02088	= pounds/			
kgf/cm ²	X 98.07	= kilopascals (kPa)	X 0.010197	= kgf/cm ²	120		
POWER					13		
horsepower	X 0.746	= kilowatts (kW)	X 1.34	= horse-			
ft-lbf/min	X 0.0226	= watts (W)	X 44.25	= ft-lbf/min	40		
TORQUE					150		
pound-inches inches	X 0.11298	= newton-metres (Nm)	X 8.851	= pound-			
pound-feet feet	X 1.3558	= newton-metres (Nm)	X 0.7376	= pound-	ŏ 1		
kgf-cm	X 0.09807	= newton-metres (Nm)	X 10.197	= kgf-cm	70		
кді-ті	X 9.807	= newton-metres (NM)	X 0.10197	= кgг-т	180		
) 19		
					ö		
					200		

SELECTED RULES FOR COMMUNICATING IN THE SI METRIC SYSTEM

GLOBAL STANDARD COMPONENTS

Assembly

04/16/96

		Examples:		
APPL	ICATION OF PREFIXES	CORRECT	INCORRECT	
1.	Approved prefixes (instead of powers of ten) should be used to indicate orders of magnitude.	12.3 km	12.3x10 ³ m	
2.	Prefixes must be combined with units and not used alone	kilogram	kilo	
3.	Avoid using multiple prefixes.	pF	$\mu\mu$ F	
4.	Avoid mixing prefixes within a text of drawing.	1000 mm 10mm	100 cm 10mm	
5.	Choose prefixes representing steps of 1000.	mN,N,kN		
6.	Choose prefixes giving numerical values of 0.1 through 1000.	3.94 mm	0.003 94 m	
UNC	TUATION			
1.	The decimal sign is the dot on the line.	25.26	25,26 or 25 26	
2.	Periods should not be used after symbols for SI units except at the end of a sentence.	ms	m.s or ms.	
3.	Separate symbols from numerical values by a space	21 m	21m	
1.	LING AND CAPITALIZATION Names of SI units and prefixes are not capitalized except at the beginning of a sentence. (Exceptions: See items 2 and 3 below.)	metre kilo	Metre Kilo	
2.	Symbols for SI units derived from proper names have the first letter capitalized; symbols for other units are lower case (Except L for litre).	Pa, J cd	pa, j Cd	
3.	Symbols for prefixes are not capitalized except for T, G and M.	m (for milli) M (for mega)		
4.	Symbols for units and prefixes are always written in singular form.	10 metres=10 m	10 metres=10 ms	
5.	Place the symbol for a prefix immediately before the unit which it modifies.	km	k m	
6.	Avoid hand-drawn Greek letters (Ω , $\mu,$ etc.); Spell out words where possible.	microsecond for μs ohm for Ω	i	
тне	R USAGE CONVENTIONS			
1.	Express metric figures with one digit on either side of the decimal point.			
	 a. For whole numbers, where a decimal is used it should be followed by a zero. 	25.0 kg or 25 kg	25. kg	
	 When the value is less than unity, the decimal should be preceded by a zero. 	0.25 kg	.25 kg	
2.	Numbers having four or more digits should be placed in groups of three separated by a space; do not use commas (some countries use a comma for the decimal point). For four digits, the space is optional	11 532	11,532	
3	Avoid mixing customary units and SL units	ka/m ³	ka/ft ³	
4.	When expressing compound units in symbolic form, use nothing between the units or a raised dot to indicate the product. Do not use an "x".	mkg/m•kg	m x kg	

SURFACE ROUGHNESS CONVERSION





COMPONENT IDENTIFICATION, PAGE FORMATTING, LOGSHEET



COMPONENT IDENTIFICATION

Each part to be marked with the manufacturers identification and NAAMS code where possible.

PAGE FORMATTING

In the previous published version of these standards, odd numbered (right hand) pages were offset to the right and even numbered (left hand) pages offset to the left to allow for binding. The pages are now centered. This format allows the pages to be punched in the left margin for insertion into a ring binder. Changes since the original publication are indicated by capital letters placed in boxes in the right hand margins. The latest revision date is indicated in the title block of each page.

LOGSHEET

The logsheet allows the user to determine the latest change to any standard by referring to the date in the last column. Individual pages are accessed by clicking onto the page number in the first column. The change level (A, B, etc.) and a brief description of each change are listed in their respective columns for each page.

SAFETY COLOR PAINT SPECIFICATIONS

The following safety paint colors are in accordance with SAE\USCAR-9 paint specifications, and are the recommended colors for NAAMS components where safety paint is specified.

<u>Color</u>	Munsell Number
Safety Black	N 0.75
Safety Blue	2.5PB 3/10
Safety Green	7.5G 4/8
Safety Orange	3.75YR 6/14
Safety Purple	10P 5/10
Safety Red	7.5R 4/14
Safety White	N 9.5
Safety Yellow	3.75Y 8.5/12

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