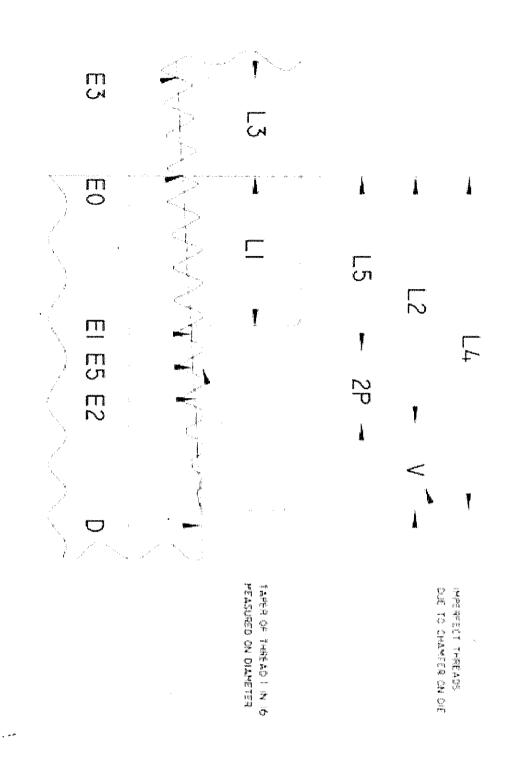


Basic Dimensions, American National Standard Taper Pipe Threads, NPT, (ANSI B2.1-1968)



For all dimensions see corresponding reference letters in table.

inch per foot. Angle of taper with centerline is 1°47'. Anglebetween sides of thread is 60 degrees. Taper of thread, on diameter, is 3/4

The crest and root are truncated a minimum of 0.033Xpitch for all pitches. The basic maximum thread hight, h, of the truncated thread is 0.8Xpitch of thread.

10.66562	1 9250	10.62094	1.2100	10.54531	0.12500	೦೦	10 750	<u></u>
8.54062	1.7125	8.50003	1.0830	8.43359	0.12500	8	8.625	00
6.54062	1.5125	8.50597	0.9580	6.44609	0.12500	0	6.625	<u> </u>
5.47862	1.4063	5.44929	0.9370	5.39073	0.12500	00	5.563	C٦
4.41562	1.3000	4.38712	0.8440	4.33438	0.12500	8	4.500	
3.91562	1.2500	3.88881	0.8210	3.83750	0.12500	8	4.000	31/2
3.41562	1.2000	3.38850	0.7660	3.34062	0.12500	ಹ	3.500	دت
2.79062	1.1375	2.76216	0.6820	2.71953	0.12500	8	2.875	21/2
2.31630	0.7565	2.29627	0.4360	$ \langle 2.26902\rangle $	0.08696	11 1/2	2.375	(2)
1.84130	0.7235	1.82234	0.4200	1.79609	0.08696	11 1/2	1.900	112
1.60130	0.7068	1.58338	0.4200	1.55713	0.08696	11 1/2	1.660	=
1.25630	0.6828	1.23863	0.4000	1.21363	0.08696	11 1/2	1.315	
1.00179	0.5457	0.98887	0.3390	0.96768	0.07143	<u>_</u>	1.050	<u>သ</u>
0.79179	0.5337	0.77843	0.3200	0.75843	0.07143	1	0.840	1:2
0.63750	0.4078	0.62701	0.2400	0.61201	0.05558	18	0.675	3/6
0.50250	0.4018	0.49163	0.2278	0.47739	0.05556	18	0.540	14
0.38000	0.2639	0.37360	0.1615	0.36351	0.03704	27	0.405	Ö
0.28750	0.2611	0.28118	0.1600	0.27118	0.03704	27	0.313	<u></u>
(E2)	(L2)	(E1)	(L1)	(Eo)	(p)	1	(D)	
* ************************************	ln.	a	=					
<b>3</b>	<4>	<3>	<2>					
	See Note	See Note	See Note	External Thread			of Pipe	Pipe Size
Diameter	Length	Diameter	Length	Pitch Diameter at Beginning of	Pitch of Thread	Threads per inch	Outside Diameter	Nominal
ead, External	Effective Thread, External	Handtight Engagement	Handtight					

10.4453	01	10.85000	1 6750	2.3587	0.4337	10.52969	1	0 2500
8.3336	01	8.52500	1.4625	2.1462	0.4337	8.41797	1	0.2500
6.3461	0.1	8.52500	1.2625	1.9462	0.4337	6.43047	1	0.2500
5.2907	0.1	5.46300	1.1563	1.8400	0.4337	5.37511		0.2500
4.2344	0.1	4.40000	1.0500	1.7337	0.4337	4.31875	1	0.2500
3.7375	0.1	3.90000	1.0000	1.6837	0.4337	3.82188	J	0.2500
3.2406	0.1	3.40000	0.9500	1.6337	0.4337	3.32500	See Note < 8 >	0.2500
2.6195	0.1	2.77500	0.8875	1.5712	0.4337	2.70391	See Note < 8 >	0.2500
2.1995	0.06957	2.30543	0.5826	(1.0582)	0.3017	2.25272	•	0.2609
1.7265	0.06957	1.83043	0.5496	1.0252	0.3017	1.77978		0.2609
1.4876	0.06957	1.59043	0.5329	1.0085	0.3017	1.54083	-	0.2609
1.1441	0.06957	1.24543	0.5089	0.9845	0.3017	1.19733		0.2609
0.9105	0.05714	0.99286	0.4029	0.7935	0.2478	0.95492	,	0.2143
0.7013	0.05714	0.78286	0.3909	0.7815	0.2478	0.74504	ı	0.2143
0.5676	0.04444	0.63056	0.2967	0.6006	0.1928	0.60160	1	0.1667
0.4329	0.04444	0.49556	0.2907	0.5946	0.1928	0.46697	•	0.1867
0.3339	0.02963	0.37537	0.1898	0.3924	0.1285	0.35656	1	0.1111
0.2418	0.02963	0.28287	0.1870	0.3896	0.1285	0.26424	ŧ	0 11
(Ko)	<u></u>	(E5)	(L5)	(L4)	(V)	(E3)		(L3)
<9>		•	•			•	#	•
See Note		•				***	•	<7>
	4.	<b>.</b>	epinesenina Antonina	External Thread			. <b>j</b>	See Note
Basic Minor Diameter at Small End of Pipe	Height of Thread	Diameter	Length	Overall Length	Vanish Thread	Diameter	•	Length
		External Threads	Nominal Perfect External Threads		•	ernal Thread	Wrench Makeup Length for Internal Thread	Wrench Mak

**PRECION** 

926 Thompson Ave. Link 45, Glendale, CA 91201 Phone: 1-200-896-3459 Fax; 1-866-707-9864



Basic Dimensions, American National Standard Taper Pipe Threads, NPT, (ANSI B2.1-1968)



For all dimensions see corresponding reference letters in lable

Angle between sides of thread is 60 degrees. Taper of thread, on diameter, is 3/4 inch per fool. Angle of taper with centerline is 1 "47"

The basic maximum thread highl, h, of the truncated thread is 0.8Xptch of libread. The crest and root are truncated a minimum of 0.023Xptch for all pitches

···· All dimensions are given in inches

			h Prich of Thread	Fach Diameter at Beginning of	Handtight I	Engagement	Effective Th	read, External	Wrench Mail	oup Longth for lot	erna) Thraad	. Vanish Thread		liomins: Feciet1	Eslemal Threads		Basic Minor Diameter at Small End of
Nominai	Outside	Threads on lock			Length	Diameter	Length	Diameter	Length		Diameter		Overall Length	Length	Diameter	Helaht of Thread	
ipe 3lite	Diameles of Pipe		, will by (111420	External Thread	See Note	Ses Note	See Hole		See Hale		•	720055 100120	External Thread		-	Les eller me blets ber	Pipe
					17> in.	44.7>	(4> in.	···· • · · · · · · · · · · · · · · · ·	<del>« / &gt;</del>								Sep Hote
•	(D)	(n)	(r)	(Ro)	(L1)_	(E1)	(L7)	(E2)_	(L)		(E1)	(V)	(14)	(L5)	(E3)	(N)	(Kb)
1/18	0.313	2/	0.03704	0.27116	0 1500	0.78115	0.2613	0.78750	0.1115		0.25424	0.1285	0.3491	g tayo	0.79761	0.02553	0.2416
113	D 40%	21	0.03754	0.24351	0 1015	0.0136.0	0.7039	0.34000	0 1111		0.35656	0 1285	0.3974	0.165/8	16216.0	0.02551	0.7333
1/4	0.530		0.05554	1 041135	0.2278	0.49163	0.4015	0.50750	0 1657		0.45097	0.1979	0.5946	0.2507	0.45555	0.01466	0.43(9)
3/2	06/5	18	00000	0.51201	£ 7400	0.07701	#10×0	0.63750	0 1667		0.60160	0.1679	0.6005	0.2967	0.63056	0.04446	D S S
1/2	0.840	14	0.07143	0 15843	0.000	0.71843	0.5337	019170	B 2143		U 74%34	1) Z478	07815	0.3000	0.78286	0.05/14	0.7013
3.4	1 050	14	007143	D Gelfen	0.3300	0.66857	0.454	1 00179	07141		0.55453	0.7478	01933	0.4079	0.92785	005114	0.0105
1	1315	15 1/2	0.05006	1 2136)	6.4700	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	O CALS	1 25/230	0.2609		1 19733	0.3017	0.9845	0.5689	1 74543	0.05557	1 1441
1 1/4	1660	25 1/2	0.05006	1970	0.4790	1	0.7050	3 00130	0.7409		154001	0.3017	10005	0.5329	15500	0.00057	1.6575
1.1/2	1900	93 1/2	0.00000	1 79559	0.4200	1 62234	07235	1 84130	0.7609		1 77974	0.3017	10707	05426	1 73043	150000	17255
	2.315	11 1/7	DOMAG	7 75502	0.4350	2.50551	07565	2.31630	0.503		2.25312	0.3017	16577	0.5839	2 37743	0.000001	2 1995
2 1/7	2.875		0.12100	. 271653	0.6870	2 76216	1 1375	2 70057	0.7500	See Hote . 8 >	2 10391	0.4777	15712	0.6415	7 775500	01	2.6195
3	3593	ð	0.125(0)	3 34052	0.1660	1 38450	1,7000	3 41567	0 2500	See late • fl »	3,32500	0.4597	16337	0.6/20	3.40000	0.1	17400
31/2	4.000	ð	0.17520	3 63750	08710	3 64/491	1 2500	3.91567	0.2500		3 82165	0.4337	1 0037	1,0000	350000	0.1	3 7 375
4	4.00	8	() 175(W)	4 3 14 19	0 6440	4.30717	1.3000	4 41567	0.2500		31815	0.4337	1 1337	1.05-00	4.45009	0.1	47.94
4	5.563	0	0.17500	5 30073	0.000	5 44979	14003	5.41862	0.2500		5 37511	0.4397	1 8400	1.15/53	5.45 YO	(1.1	52/6/
6	6675		012500	6 44509	0.5550	5:0721	15175	0.4353	0.2500		6.43047	0.4337	19402	1 2025	0.52.00	01	n 3401
	ne.	9	0.12530	6.412'-9	10010	8 (000)	1 7125	8.54062	0.2502		N 41297	0.4337	2 1452	1.4575	652500	0.5	6.3339
10	13750	A	017700	19 54534	12100	10.02394	1 0250	10 66562	0.7500		19 52969	0.4331	2 35.87	1 6750	10.65000	0.5	10.4453

He is seeds so of the care of site. And

Also length of thin ring gage and length from gaging notch to small end of plug age.

Also pitch diameter at gaging notch (handlight plane).

Role 4.4.>

Note 4 5 >

The Length LS from the 4-nd of the pipe determines the plane beyond which the thread form is imperiest at the case. The exect one threads are perfect at the roof. At this plane the cone formed by the cases of the thread interacts the cylinder forming the acternal surface of the pipe. LS+2-72 n

Role 4 \$ > Oliven as information for use in selecting tap drills.

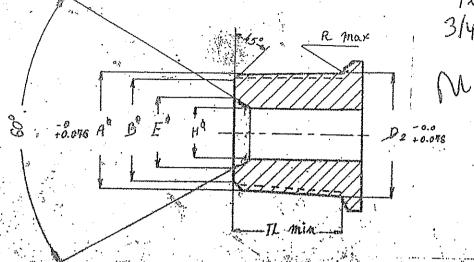
Three threads for Z-inch size and smaller; two threads for larger sizes.

Military Specification MIL-P-7105 gives the wrench makeup as three libreads for 3 in, and smaller. The SI dimensions are then as follows: Size  $\frac{2}{3}$  1/2 in,  $\frac{2}{3}$ .6809 and size  $\frac{3}{3}$  in,  $\frac{3}{3}$ .51/15, increase in diameter per thread is equil to  $\frac{3}{3}$ .05/15

The above data sheet can be used for information purpose sety. He responsibility and to accept of the systems emissions by whetever expression to \$20 Shampson Ave. Use 41. Glandale, CAS1201 — \$2000 Flaction, for: ARRights Reserved.

MPT

1.4 -0.540-0.42. 318-0.675-0.567 1/2-0.840-0.70 3/4-1.050-0.916



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1 7 6 6	1/16-27	5,05	5,84 205	7,645	9,65	0,76	8.001	
	1/0-27	483 23	8 15 05	9,982	9,65	. 0.46	10,338	7//
	1/4 - 18	7.11	N.67.28.8	13,284	14.22.	1,62	15,858	8#4
	3/8 /18	10 41 66 19	15,97 :3,5	<b>16</b> 77 25	14:22	102	17.297	
	1/2-14	44.82	17.27 -05	20,828	19,05	203	2/1580	15,87
	74-14	18.29 15.5	22,61 -8,5	26; 139	19,05	2,03	26.921	20:nF
	1-41/2	23,88 19,81	28,45 - 700	52,741	23,88	229	35,706°	26.72
· ·	11/4-11/4	31,73 25,65	37.08 16.76	1,478	24,64	2,29:	47,769	
	11/2-11/2	37,34	13.18 -0.46	17.540	25 /	2,29	4856K	10 to
en.	2 - 11%	19,20 44,2	55,12,000	59.563	201/61	2,23 2,23		
			12.32.465					