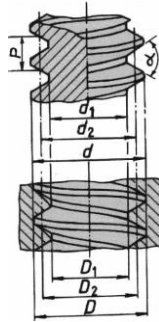


NPSM & NPSL - AMERICAN PIPE THREADS 60°

EXTERNAL THREAD

d = Major diameter

d₂ = Pitch diameterd₁ = Minor diameter**INTERNAL THREAD**

D = Major diameter

D₂ = Pitch diameterD₁ = minor diameterP = Pitch in Thread
Per Inch T.P.i. α = Flank angle
60°

mm to ins. mm/25.4

NPSM (Ref. ANSI/ASME B1.20.1 Table 6)

Nominal Pipe dimension	External pipe diameter mm	P T.P.I.	External thread Class 2A		Internal thread Class 2B	
			Pitch diameter d ₂		Pitch diameter D ₂	
			max	min	min	max
1/8	10,29	27	9,461	9,370	9,489	9,609
1/4	13,72	18	12,454	12,342	12,487	12,634
3/8	17,14	18	15,890	15,776	15,926	16,076
1/2	21,34	14	19,733	19,604	19,771	19,942
3/4	26,67	14	25,077	24,943	25,118	25,293
1	33,40	11,5	31,417	31,270	31,460	31,653
1 1/4	42,16	11,5	40,173	40,020	40,218	40,416
1 1/2	48,26	11,5	46,241	46,086	46,286	46,487
2	60,325	11,5	59,278	58,120	58,326	58,532
2 1/2	73,02	8	70,104	69,916	70,160	70,401
3	88,90	8	86,004	85,816	86,068	86,319
3 1/2	101,60	8	98,717	98,522	98,776	99,030
4	114,30	8	111,374	111,178	111,432	111,686
5	141,30	8	138,351	138,151	138,412	138,679
6	168,27	8	165,191	164,986	165,252	165,519

NPSL (Ref. ANSI/ASME B1.20.1 Table 7)

Nominal Pipe dimension	External pipe diameter mm	P T.P.I.	External thread Class 2A		Internal thread Class 2B	
			Pitch diameter d ₂		Pitch diameter D ₂	
			max	min	min	max
1/8	10,29	27	9,754	9,665	9,812	9,901
1/4	13,72	18	12,797	12,664	12,885	13,017
3/8	17,14	18	16,279	16,147	16,368	16,500
1/2	21,34	14	20,226	20,056	20,340	20,510
3/4	26,67	14	25,570	25,400	25,684	25,855
1	33,40	11,5	32,014	31,808	32,151	32,357
1 1/4	42,16	11,5	40,770	40,564	40,909	41,115
1 1/2	48,26	11,5	46,840	46,634	46,977	47,183
2	60,325	11,5	58,877	58,671	59,014	59,220
2 1/2	73,02	8	70,952	70,655	71,150	71,448
3	88,90	8	86,863	86,566	87,061	87,358
3 1/2	101,60	8	98,571	99,273	99,769	100,066
4	114,30	8	112,227	111,930	112,425	112,723
5	141,30	8	139,204	138,908	139,405	139,702
6	168,27	8	166,045	165,748	166,243	166,540
8	219,07	8	216,695	216,398	216,893	217,190
10	273,05	8	270,566	270,269	270,764	271,061
12	323,85	8	321,287	320,990	321,485	321,782