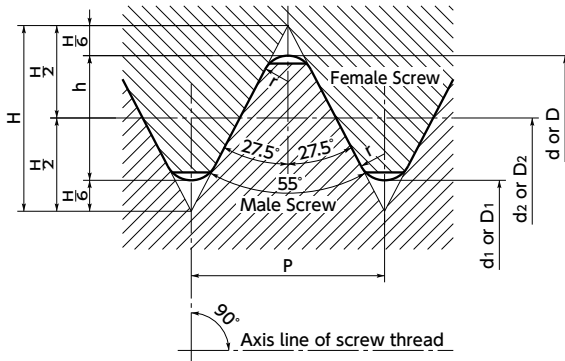


# Parallel Pipe Threads

Excerpts from JIS B 0202:1999

## Basic profile: formula and basic dimensions of parallel pipe threads



$$p = \frac{25.4}{n}$$

$$H = 0.960491 P$$

$$h = 0.640327 P$$

$$r = 0.137329 P$$

$$d_2 = d - h \quad D_2 = d_2$$

$$d_1 = d - 2h \quad D_1 = d_1$$

Unit: mm

Nominal Diameter of Thread	Number of screw threads (per 25.4mm) n	Pitch P (Reference)	Height of screw thread h	Top of thread and root radius r	Male Screw		
					Outside diameter d	Effective diameter d <sub>2</sub>	Root diameter d <sub>1</sub>
					Female Screw		
					Root diameter D	Effective diameter D <sub>2</sub>	Inside diameter D <sub>1</sub>
G 1/16	28	0.9071	0.581	0.12	7.723	7.142	6.561
G 1/8	28	0.9071	0.581	0.12	9.728	9.147	8.566
G 1/4	19	1.3368	0.856	0.18	13.157	12.301	11.445
G 3/8	19	1.3368	0.856	0.18	16.662	15.806	14.950
G 1/2	14	1.8143	1.162	0.25	20.955	19.793	18.631
G 5/8	14	1.8143	1.162	0.25	22.911	21.749	20.587
G 3/4	14	1.8143	1.162	0.25	26.441	25.279	24.117
G 7/8	14	1.8143	1.162	0.25	30.201	29.039	27.877
G 1	11	2.3091	1.479	0.32	33.249	31.770	30.291
G 1 1/8	11	2.3091	1.479	0.32	37.897	36.418	34.939
G 1 1/4	11	2.3091	1.479	0.32	41.910	40.431	38.952
G 1 1/2	11	2.3091	1.479	0.32	47.803	46.324	44.845
G 1 3/4	11	2.3091	1.479	0.32	53.746	52.267	50.788
G 2	11	2.3091	1.479	0.32	59.614	58.135	56.656
G 2 1/4	11	2.3091	1.479	0.32	65.710	64.231	62.752
G 2 1/2	11	2.3091	1.479	0.32	75.184	73.705	72.226
G 2 3/4	11	2.3091	1.479	0.32	81.534	80.055	78.576
G 3	11	2.3091	1.479	0.32	87.884	86.405	84.926
G 3 1/2	11	2.3091	1.479	0.32	100.330	98.851	97.372
G 4	11	2.3091	1.479	0.32	113.030	111.551	110.072
G 4 1/2	11	2.3091	1.479	0.32	125.730	124.251	122.772
G 5	11	2.3091	1.479	0.32	138.430	136.951	135.472
G 5 1/2	11	2.3091	1.479	0.32	151.130	149.651	148.172
G 6	11	2.3091	1.479	0.32	163.830	162.351	160.872