

R

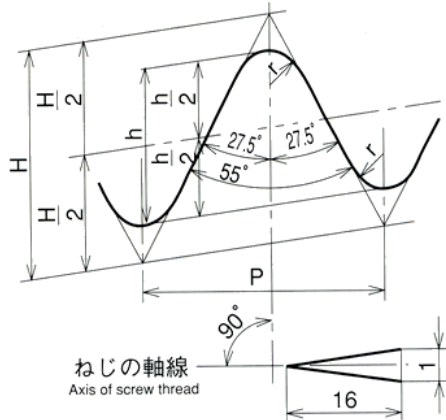
管用テーパねじ

Taper pipe threads
(JIS B 0203)

基準山形及び基準寸法

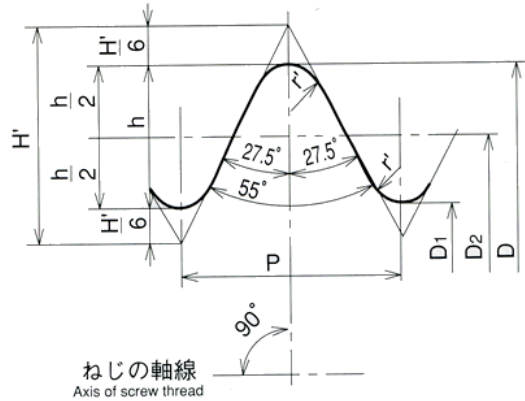
Standard thread shape and datum sizes

テーパおねじ及びテーパめねじに対して適用する基準山形
Standard thread shape that applies to taper external threads and taper internal threads



太い実線は基準山形を示す。
The thick line represents the standard thread shape.
 $P=25.4$
 n
 $H=0.960237 P$
 $h=0.640327 P$
 $r=0.137278 P$

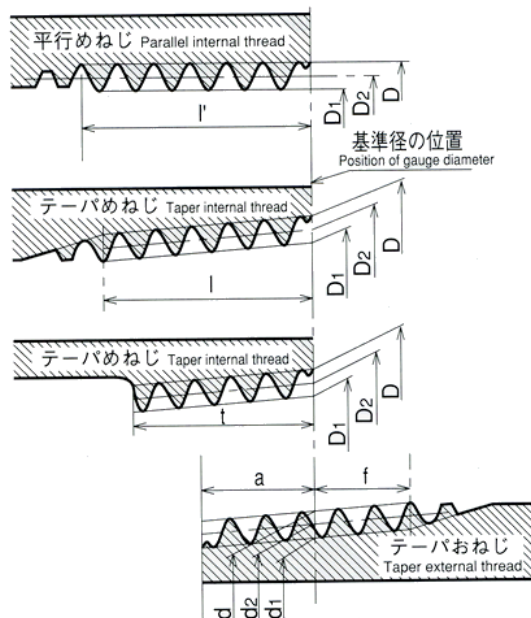
平行めねじに対して適用する基準山形
Standard thread shape that applies to parallel internal threads



太い実線は基準山形を示す。
The thick line represents the standard thread shape.
 $P=25.4$
 n
 $H'=0.960491 P$
 $h=0.640327 P$
 $r'=0.137329 P$

テーパおねじとテーパめねじ又は平行めねじとのはめあい

Fitting between taper external thread and taper internal thread or parallel internal thread





管用テーパねじ
(JIS B 0203)

(単位 Unit mm)

(注 Note) ねじの 呼び Nominal diameter of thread	ねじ山 Thread				基準径 Gauge diameter			基準径の位置 Position of gauge diameter			平行 めねじ の D, D2 及び D1の 許容差	有効ねじ部の長さ (最小) Effective thread length (minimum)				配管用炭 素鋼鋼管 の寸法 (参考) Dimensions of carbon steel pipe for piping (reference)				
	ねじ 山数 Number of threads (25.4 mmに つき per 25.4 mm) n	ピッチ Pitch (reference) P	山の 高さ Height of thread h	丸み Roundness r 又は r'	おねじ Male thread			おねじ Male thread		めねじ Female thread		基準径 の位置 から大 径側に 向かって From the gauge diameter to the large diameter side	めねじ Female thread		不完全ねじ部 がある場合 When imperfect thread portion exists テーパ めねじ Taper internal thread			不完全ねじ部 がない場合 When no imperfect thread exists 平行めねじ Parallel female thread	外径	厚さ
					外径 Major diameter d	有効径 Pitch diameter d2	谷の径 Core diameter d1	管端から From the pipe end	管端部 Pipe end	基準の 長さ Datum size a			軸線方 向の 許容差 Tolerance in the direction of axial line $\pm b$	軸線方 向の 許容差 Tolerance in the direction of axial line $\pm c$						
	めねじ Female thread			谷の径 Core diameter D	有効径 Pitch diameter D2	内径 Minor diameter D1	Parallel female thread D, D2 and D1 tolerance \pm	From the gauge diameter to the small diameter side	From the pipe diameter, pipe or pipe joint end From the gauge diameter, pipe or pipe joint end	From the gauge diameter to the large diameter side		From the gauge diameter to the small diameter side	From the pipe diameter, pipe or pipe joint end	From the gauge diameter, pipe or pipe joint end	Parallel female thread			Thickness		
R 1/16	28	0.9071	0.581	0.12	7.723	7.142	6.561	3.97	0.91	1.13	0.071	2.5	6.2	7.4	4.4	-	-			
R 1/8	28	0.9071	0.581	0.12	9.728	9.147	8.566	3.97	0.91	1.13	0.071	2.5	6.2	7.4	4.4	10.5	2.0			
R 1/4	19	1.3368	0.856	0.18	13.157	12.301	11.445	6.01	1.34	1.67	0.104	3.7	9.4	11.0	6.7	13.8	2.3			
R 3/8	19	1.3368	0.856	0.18	16.662	15.806	14.950	6.35	1.34	1.67	0.104	3.7	9.7	11.4	7.0	17.3	2.3			
R 1/2	14	1.8143	1.162	0.25	20.955	19.793	18.631	8.16	1.81	2.27	0.142	5.0	12.7	15.0	9.1	21.7	2.8			
R 3/4	14	1.8143	1.162	0.25	26.441	25.279	24.117	9.53	1.81	2.27	0.142	5.0	14.1	16.3	10.2	27.2	2.8			
R 1	11	2.3091	1.479	0.32	33.249	31.770	30.291	10.39	2.31	2.89	0.181	6.4	16.2	19.1	11.6	34.0	3.2			
R 1 1/4	11	2.3091	1.479	0.32	41.910	40.431	38.952	12.70	2.31	2.89	0.181	6.4	18.5	21.4	13.4	42.7	3.5			
R 1 1/2	11	2.3091	1.479	0.32	47.803	46.324	44.845	12.70	2.31	2.89	0.181	6.4	18.5	21.4	13.4	48.6	3.5			
R 2	11	2.3091	1.479	0.32	59.614	58.135	56.656	15.88	2.31	2.89	0.181	7.5	22.8	25.7	16.9	60.5	3.8			
R 2 1/2	11	2.3091	1.479	0.32	75.184	73.705	72.226	17.46	3.46	3.46	0.216	9.2	26.7	30.1	18.6	76.3	4.2			
R 3	11	2.3091	1.479	0.32	87.884	86.405	84.926	20.64	3.46	3.46	0.216	9.2	29.8	33.3	21.1	89.1	4.2			
R 4	11	2.3091	1.479	0.32	113.030	111.551	110.072	25.40	3.46	3.46	0.216	10.4	35.8	39.3	25.9	114.3	4.5			
R 5	11	2.3091	1.479	0.32	138.430	136.951	135.472	28.58	3.46	3.46	0.216	11.5	40.1	43.5	29.3	139.8	4.5			
R 6	11	2.3091	1.479	0.32	163.830	162.351	160.872	28.58	3.46	3.46	0.216	11.5	40.1	43.5	29.3	165.2	5.0			

(注意 Notes)

この呼びは、テーパおねじに対するもので、テーパめねじ及び平行めねじの場合は、Rの記号をRc又はRpとする。

This nominal diameter is for taper external threads. For taper internal threads and parallel female threads, Rc or Rp is used in stead of the symbol R. (Refer to 4.)

備考

- 1) 管用ねじを表す記号(R, Rc及びRp)は、必要に応じて省略してもよい。
- 2) ねじ山は中心軸線に直角とし、ピッチは中心軸線にそって測る。
- 3) 有効ねじ部の長さとは、完全なねじ山が切られたねじ部の長さで、最後の数山だけは、その頂に管又は管継手の面が残っていてもよい。また、管又は管継手の末端に面取りがしてあっても、この部分を有効ねじ部の長さを含める。
- 4) a, f又はtがこの表の数値によりがたい場合は、別に定める部品の規格による。

Remarks

- 1) The symbols (R, Rc and Rp) representing pipe threads may be omitted as required.
- 2) The thread is rectangular to the center axial line and the pitch is measured along the center axial line.
- 3) The effective thread length means the thread portion length in which perfect threads are cut. On only final several threads, there may remain a pipe or pipe joint face on the crest. Even if the pipe or pipe joint end is chamfered, this portion is included in the effective thread portion length.
- 4) When a, f or t cannot be based on the numeric values in this table, apply the standard for parts that is separately specified.