

## Application of Parallel Pipe / Tapered Pipe Thread

### Parallel Pipe: G(PF), Rp(PS)

Nominal Thread Symbol (Previous Symbol)	TPI (TPI)	Internal (G,Rp)		Same Root's Radius
		Insert	Bore Dia.	
G <sup>1/16</sup> (-)	28	HPTR 06005-55-010	6.56	0.12
G <sup>1/8</sup> (PF <sup>1/8</sup> )			8.57	
G <sup>1/4</sup> (PF <sup>1/4</sup> )	19	HPTR 08007-55-010	11.45	0.18
G <sup>3/8</sup> (PF <sup>3/8</sup> )			14.95	

### Tapered Pipe: R, Rc(PT) (BSPT)

Nominal Thread Symbol (Previous Symbol)	TPI (TPI)	Internal (G,Rp)		Same Root's Radius
		Insert	Bore Dia.	
R <sup>1/16</sup> , Rc <sup>1/16</sup> (-)	28	HPTR 06005-55-010	-	0.12
R <sup>1/8</sup> , Rc <sup>1/8</sup> (PT <sup>1/8</sup> )			-	
R <sup>1/4</sup> , Rc <sup>1/4</sup> (PT <sup>1/4</sup> )	19	HPTR 08007-55-010	-	0.18
R <sup>3/8</sup> , Rc <sup>3/8</sup> (PT <sup>3/8</sup> )			-	

When using "HPT type" for Parallel Pipe / Tapered Pipe threading, thread's corners become sharp edged due to its partial profile, and the shape will not be the same as the standard shape for Parallel Pipe / Tapered Pipe.

### Depth of Cut & Number of Passes (Parallel Pipe/G(PF), Tapered Pipe/BSPT (PT) (Rc))

TPI	Total ap (mm)	No. of Passes	1 Pass	2 Pass	3 Pass	4 Pass	5 Pass	6 Pass	7 Pass	8 Pass	9 Pass	10 Pass	11 Pass	12 Pass	13 Pass	14 Pass	15 Pass	16 Pass	17 Pass	18 Pass
28	0.61	12	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03						
19	0.95	18	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.03

## Application of ANSI Tapered Pipe Thread (NPT)

Nominal Thread	TPI	Internal Thread		
		Toolholder	Insert	
			Partial Profile	Full Profile
1/16 NPT 1/8 NPT	27	No Tools Available		
1/4 NPT 3/8 NPT	18	PSH Sleeve (See J26)	HPTR06005-60-005 HPTR07507-60-005	-
1/2 NPT 3/4 NPT	14	PSH Sleeve (See J26)	HPTR07507-60-005	-
1/2 NPT 3/4 NPT	14	SINR2016S-16 cannot pass through the processing diameter.		
		SINR2016S-16	-	16IR14NPT

Application of NPTF Thread  
NPTF is the thread for sealing pipes without using any sealing material.  
Thread symbol is similar to NPT but the Tolerance is different from that of NPT and the above Inserts are not available for NPTF.

### Depth of Cut & Number of Passes (American National Tapered Pipe)

TPI	Total ap (mm)	No. of Passes	1 Pass	2 Pass	3 Pass	4 Pass	5 Pass	6 Pass	7 Pass	8 Pass	9 Pass	10 Pass	11 Pass	12 Pass	13 Pass	14 Pass	15 Pass	16 Pass	17 Pass	18 Pass	19 Pass
18	1.23	16	0.18	0.14	0.12	0.12	0.10	0.09	0.08	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02			
14	1.56	19	0.18	0.16	0.14	0.14	0.12	0.10	0.09	0.09	0.08	0.07	0.07	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.02