

【Consultation】



I've received a request to quote parts with internal threads that have a "5V1" size thread, but I am not sure what the "5V1" is.

Do you have any taps that can produce a "5V1" size thread?

【Answer】

The "5V1" thread is a Tire Valve Threads for Automobiles and are specified in the appendix of JIS standard of "JIS D 4207.

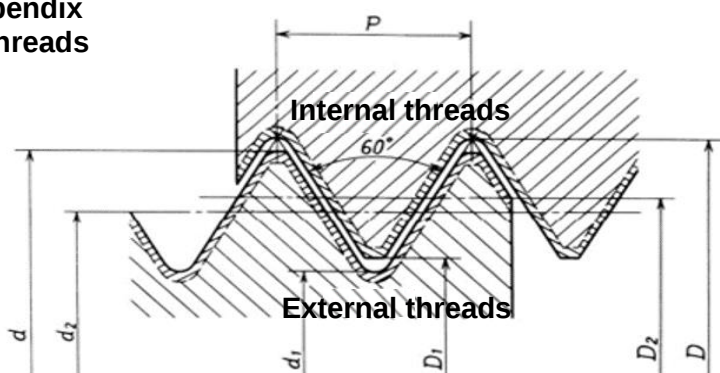
We do have Hand Taps for Tire Valve Threads for Automobiles, "HT TV P3 5V1 Chamfer:1.5P", so please contact a distributor for confirmation.

For more details, please refer to the standard table below.



【Standard table】

JIS D 4207 Appendix
Tire Valve Threads



P : Pitch
 D : Major Diameter
 D_2 : Pitch Diameter
 D_1 : Minor Diameter
 d : Major Diameter
 d_2 : Pitch Diameter
 d_1 : Minor Diameter

Internal threads

External threads

Unit: mm

Nominal size	Dia. x Pitch	External threads							Internal threads						
		Major Dia. d			Pitch Dia. d2			Minor Dia. d1	Minor Dia. D	Pitch Dia. d2			Minor Dia. d1		
		Max.	Min.	Tol.	Max.	Min.	Tol.	Max.	Min.	Max.	Min.	Tol.	Max.	Min.	Tol.
5V1	5.2X0.705	5.232	5.029	0.203	4.775	4.674	0.101	4.496	5.334	5.004	4.869	0.135	4.801	4.597	0.204
8V1	7.7X0.794	7.747	7.544	0.203	7.239	7.080	0.159	6.909	7.798	7.468	7.284	0.184	7.239	7.036	0.203

Basic size of Tire Valve Threads for Automobiles

Unit: mm

Nominal Size	Major Dia.	Pitch Dia.	Minor Dia.	Pitch
5V1	5.334	4.869	4.597	0.705
8V1	7.798	7.284	7.036	0.794
8V2	7.938	7.250	6.782	1.058
9V1	9.525	9.010	8.661	0.794
10V1	9.800	9.380	8.750	1.000
10V2	10.414	9.815	9.350	0.907
11V1	11.113	10.287	9.729	1.270
12V1	12.319	11.669	11.176	0.977
13V1	12.700	11.875	11.328	1.270
13V2	12.700	12.185	11.837	0.794
15V1	15.137	14.380	13.750	1.000
16V1	15.875	15.263	14.869	0.941
17V1	17.137	16.380	15.750	1.000
17V2	17.463	16.775	16.307	1.058
17V3	17.463	16.432	15.748	1.588
19V1	19.050	18.019	17.323	1.588
20V1	20.642	19.885	19.250	1.000

Bored hole size for Hand Taps for Tire Valve Threads for Automobiles, HT TV

Unit: mm

Nominal Size	Minor Dia. (D ₁)		Hole Dia.
	Max.	Min.	
5V1	4.801	4.597	4.75
8V1	7.239	7.036	7.19
8V2	7.035	6.782	6.97
9V1	8.865	8.661	8.81
10V1	8.900	8.750	8.86
10V2	9.550	9.350	9.50
11V1	10.033	9.729	9.96
12V1	11.379	11.176	11.33
13V1	11.608	11.328	11.54
13V2	12.039	11.837	11.99
15V1	13.950	13.750	13.90
16V1	15.088	14.859	15.03
17V1	15.950	15.750	15.90
17V2	16.560	16.307	16.50
17V3	16.103	15.748	16.01
19V1	17.678	17.323	17.59
20V1	19.450	19.250	19.40