

ШКАЛА ТВЕРДОСТИ – TABELA TWARDOŚCI

HRC	HB	HV	N/mm ² Mpa
<i>Твердость по Роквеллу</i>	<i>Твердость по Бринеллю</i>	<i>Твердость по Викерсу</i>	<i>Предел прочности</i>
Twardość wg Rockwell'a	Twardość wg Brinell'a	Twardość wg Vickers'a	Wytrzymałość na rozciąganie
25	253	266	854
26	254	273	873
27	265	279	897
28	272	286	914
29	274	294	944
30	287	302	970
31	295	310	995
32	302	318	1024
33	311	327	1052
34	320	336	1082
35	329	345	1111
36	337	355	1139
37	346	364	1168
38	354	373	1198
39	363	382	1227
40	373	392	1262
41	382	402	1296
42	392	412	1327
43	402	423	1362
44	413	434	1401
45	424	446	1442
46	436	459	1481
47	448	471	1524
48	460	484	1572
49	474	499	1625
50	488	513	1668
51	502	528	1733
52	518	545	1793
53	532	560	1845
54	548	578	1912
55	566	596	1979
56	585	615	2050
57	603	634	2121
58		654	
59		675	
60		698	

Соответствие шкал твердости согласно DIN50150

Tabela przeliczeniowa dla wartości twardości, zgodna z DIN 50150

ДЮЙМЫ-ММ – CALE-MM

Ø" d ₁	Ø mm	TPI UN													G (BSP) Rp	Ø mm
		UNC	UNF	UNEF	4	6	8	12	16	20	28	32	W(BSW)	BSF		
0 1/16"	1.52 1.59 1.85 2.18 2.38		80										48		28	7.72
1 2 3/32"		64 56	72 64													
3 4 5 1/8"	2.51 2.84 3.17 3.17 3.50	48 40 40 32	56 48 44 40										40		28	9.72
5/32"	3.96												32			
8 3/16"	4.16 4.76	32	36										24	32		
10 12	4.82 5.48	24 24	32 28	32												
7/32"	5.55												24	28		
1/4"	6.35	20	28	32									20	26	19	13.15
9/32"	7.14													26		
5/16"	7.93	18	24	32						20	28					
3/8"	9.52	16	24	32						20	28		16	20	19	16.66
7/16"	11.11	14	20	28					16			32	14	18		
1/2"	12.70	13	20	28					16			32	12	16	14	20.95
9/16"	14.28	12	18	24					16	20	28	32	12	16		
5/8"	15.87	11	18	24				12	16	20	28	32	11	14	14	22.91
11/16"	17.46			24				12	16	20	28	32		14		
3/4"	19.05	10	16	20				12			28	32	10	12	14	26.44
13/16"	20.64			20				12	16		28	32		12		
7/8"	22.22	9	14	20				12	16		28	32	9	11	14	30.20
15/16"	23.81			20				12	16		28	32		11		
1"	25.40	8	12	20					16		28	32	8	10	11	33.24
1 1/16"	26.99			18			8	12	16	20	28					
1 1/8"	28.57	7	12	18			8		16	20	28		7	9	11	37.89
1 3/16"	30.16			18			8	12	16	20	28					
1 1/4"	31.75	7	12	18			8		16	20	28		7	9	11	41.91
1 5/16"	33.34			18			8	12	16	20	28					
1 3/8"	34.92	6	12	18			8		16	20	28		6	8	11	44.32
1 7/16"	36.51			18		6	8	12	16	20	28					
1 1/2"	38.10	6	12	18			8		16	20	28		6	8	11	47.80
1 9/16"	39.69			18		6	8	12	16	20						
1 5/8"	41.28			18		6	8	12	16	20			5	8		
1 11/16"	42.86			18		6	8	12	16	20						
1 3/4"	44.45	5				6	8	12	16	20			5	7	11	53.74
1 13/16"	46.04					6	8	12	16	20						
1 7/8"	47.63					6	8	12	16	20			4 1/2			
1 15/16"	49.21					6	8	12	16	20						
2"	50.80	4 1/2				6	8	12	16	20			4 1/2	7	11	59.61
2 1/8"	53.97					6	8	12	16	20						
2 1/4"	57.15	4 1/2				6	8	12	16	20			4	6	11	65.71
2 3/8"	60.32					6	8	12	16	20						
2 1/2"	63.50	4				6	8	12	16	20			4	6	11	75.18
2 5/8"	66.67				4	6	8	12	16	20						
2 3/4"	69.85	4				6	8	12	16	20			3 1/2	6	11	81.53
2 7/8"	73.02				4	6	8	12	16	20						
3"	76.20	4				6	8	12	16	20			3 1/2	5	11	87.88
3 1/8"	79.37				4	6	8	12	16							
3 1/4"	82.55	4				6	8	12	16				3 1/4	5	11	93.98
3 3/8"	85.72				4	6	8	12	16							
3 1/2"	88.90	4				6	8	12	16				3 1/4	4 1/2	11	100.33
3 5/8"	92.07				4	6	8	12	16							
3 3/4"	95.25	4				6	8	12	16				3	4 1/2	11	106.68
3 7/8"	98.42				4	6	8	12	16							
4"	101.60	4				6	8	12	16				3	4 1/2	11	113.03




ПЕРЕВОДНАЯ ТАБЛИЦА – TABELA PRZELICZENIOWA


		Vc m/min															
		1	2	3	4	5	6	8	10	12	15	20	25	30	40	50	60
		min ⁻¹															
Ø d _r	1	318	637	955	1273	1592	1910	2546	3183	3820	4775	6366	7958	9549	12732	15915	19099
	2	159	318	477	637	796	955	1273	1592	1910	2387	3183	3979	4775	6366	7958	9549
3	3	106	212	318	424	531	637	849	1061	1273	1592	2122	2653	3183	4244	5305	6366
	4	80	159	239	318	398	477	637	796	955	1194	1592	1989	2387	3183	3979	4775
5	5	64	127	191	255	318	382	509	637	764	955	1273	1592	1910	2546	3183	3820
	6	53	106	159	212	265	318	424	531	637	796	1061	1326	1592	2122	2653	3183
8	8	40	80	119	159	199	239	318	398	477	597	796	995	1194	1592	1989	2387
	10	32	64	95	127	159	191	255	318	382	477	637	796	955	1273	1592	1910
12	12	27	53	80	106	133	159	212	265	318	398	531	663	796	1061	1326	1592
	14	23	45	68	91	114	136	182	227	273	341	455	568	682	909	1137	1364
16	16	20	40	60	80	99	119	159	199	239	298	398	497	597	796	995	1194
	18	18	35	53	71	88	106	141	177	212	265	354	442	531	707	884	1061
20	20	16	32	48	64	80	95	127	159	191	239	318	398	477	637	796	955
	25	13	25	38	51	64	76	102	127	153	191	255	318	382	509	637	764
30	30	11	21	32	42	53	64	85	106	127	159	212	265	318	424	531	637
	35	9	18	27	36	45	55	73	91	109	136	182	227	273	364	455	546
40	40	8	16	24	32	40	48	64	80	95	119	159	199	239	318	398	477
	45	7	14	21	28	35	42	57	71	85	106	141	177	212	283	354	424
50	50	6	13	19	25	32	38	51	64	76	95	127	159	191	255	318	382

ОТВЕРСТИЯ ПОД РЕЗЬБЫ – ŚREDNICE OTWORÓW


M DIN 13, ISO 261, *5H / 6H

Ø	P	Внутренний диаметр гайки Średnica otworu			
d _i	mm	Ø mini	Ø maxi	Ø guide line	
* 1	0.25	0.729	0.785	0.75	
* 1.1	0.25	0.829	0.885	0.85	
* 1.2	0.25	0.929	0.985	0.95	
* 1.4	0.30	1.075	1.142	1.10	
1.6	0.35	1.221	1.321	1.25	
1.7	0.35	1.321	1.421	1.35	
1.8	0.35	1.421	1.521	1.45	
2	0.40	1.567	1.679	1.60	
2.2	0.45	1.713	1.838	1.75	
2.3	0.40	1.867	1.979	1.90	
2.5	0.45	2.013	2.138	2.05	
2.6	0.45	2.113	2.238	2.15	
3	0.50	2.459	2.599	2.50	
3.5	0.60	2.850	3.010	2.90	
4	0.70	3.242	3.422	3.30	
4.5	0.75	3.688	3.878	3.75	
5	0.80	4.134	4.334	4.20	
6	1.00	4.917	5.153	5.00	
7	1.00	5.917	6.153	6.00	
8	1.25	6.647	6.912	6.80	
9	1.25	7.647	7.912	7.80	
10	1.50	8.376	8.676	8.50	
11	1.50	9.376	9.676	9.50	
12	1.75	10.106	10.441	10.20	
14	2.00	11.835	12.210	12.00	
16	2.00	13.835	14.210	14.00	
18	2.50	15.294	15.744	15.50	
20	2.50	17.294	17.744	17.50	
22	2.50	19.294	19.744	19.50	
24	3.00	20.752	21.252	21.00	
27	3.00	23.752	24.252	24.00	
30	3.50	26.211	26.771	26.50	
33	3.50	29.211	29.771	29.50	
36	4.00	31.670	32.270	32.00	
39	4.00	34.670	35.270	35.00	
42	4.50	37.129	37.799	37.50	
45	4.50	40.129	40.799	40.50	
48	5.00	42.587	43.297	43.00	
52	5.00	46.587	47.297	47.00	
56	5.50	50.046	50.796	50.50	

MF DIN 13, ISO 261, 6H

Ø	P	Внутренний диаметр гайки Średnica otworu			
d _i	mm	Ø mini	Ø maxi	Ø guide line	
2.5	0.35	2.121	2.221	2.15	
3	0.35	2.621	2.721	2.65	
3.5	0.35	3.121	3.221	3.15	
4	0.50	3.459	3.599	3.50	
4.5	0.50	3.959	4.099	4.00	
5	0.50	4.459	4.599	4.50	
5.5	0.50	4.959	5.099	5.00	
6	0.75	5.188	5.378	5.25	
7	0.75	6.188	6.378	6.25	
8	0.75	7.188	7.378	7.25	


MF DIN 13, ISO 261, 6H

Ø	P	Внутренний диаметр гайки Średnica otworu			
d _i	mm	Ø mini	Ø maxi	Ø guide line	
8	1.00	6.917	7.153	7.00	
9	0.75	8.188	8.378	8.25	
9	1.00	7.917	8.153	8.00	
10	0.75	9.188	9.378	9.25	
10	1.00	8.917	9.153	9.00	
10	1.25	8.647	8.912	8.80	
11	0.75	10.188	10.378	10.25	
11	1.00	9.917	10.153	10.00	
12	1.00	10.917	11.153	11.00	
12	1.25	10.647	10.912	10.80	
12	1.50	10.376	10.676	10.50	
14	1.00	12.917	13.153	13.00	
14	1.25	12.647	12.912	12.80	
14	1.50	12.376	12.676	12.50	
15	1.00	13.917	14.153	14.00	
15	1.50	13.376	13.676	13.50	
16	1.00	14.917	15.153	15.00	
16	1.50	14.376	14.676	14.50	
17	1.00	15.917	16.153	16.00	
17	1.50	15.376	15.676	15.50	
18	1.00	16.917	17.153	17.00	
18	1.50	16.376	16.676	16.50	
18	2.00	15.835	16.210	16.00	
20	1.00	18.917	19.153	19.00	
20	1.50	18.376	18.676	18.50	
20	2.00	17.835	18.210	18.00	
22	1.00	20.917	21.153	21.00	
22	1.50	20.376	20.676	20.50	
22	2.00	19.835	20.210	20.00	
24	1.00	22.917	23.153	23.00	
24	1.50	22.376	22.676	22.50	
24	2.00	21.835	22.210	22.00	
25	1.00	23.917	24.153	24.00	
25	1.50	23.376	23.676	23.50	
25	2.00	22.835	23.210	23.00	
27	1.50	25.376	25.676	25.50	
27	2.00	24.835	25.210	25.00	
28	1.00	26.917	27.153	27.00	
28	1.50	26.376	26.676	26.50	
28	2.00	25.835	26.210	26.00	
30	1.00	28.917	29.153	29.00	
30	1.50	28.376	28.676	28.50	
30	2.00	27.835	28.210	28.00	
32	1.50	30.376	30.676	30.50	
32	2.00	29.835	30.210	30.00	
33	1.50	31.376	31.676	31.50	
33	2.00	30.835	31.210	31.00	
35	1.50	33.376	33.676	33.50	
36	1.50	34.376	34.676	34.50	
36	2.00	33.835	34.210	34.00	
36	3.00	32.752	33.252	33.00	
39	1.50	37.376	37.676	37.50	
39	2.00	36.835	37.210	37.00	
39	3.00	35.752	36.252	36.00	
40	1.50	38.376	38.676	38.50	




ОТВЕРСТИЯ ПОД РЕЗЬБЫ – ŚREDNICE OTWORÓW


MF DIN 13, ISO 261, 6H

Ø	P	Внутренний диаметр гайки Średnica otworu		
d _i	mm	Ø mini	Ø maxi	
40	2.00	37.835	38.210	38.00
40	3.00	36.752	37.252	37.00
42	1.50	40.376	40.676	40.50
42	2.00	39.835	40.210	40.00
42	3.00	38.752	39.252	39.00
45	1.50	43.376	43.676	43.50
45	2.00	42.835	43.210	43.00
45	3.00	41.752	42.252	42.00
48	1.50	46.376	46.676	46.50
48	2.00	45.835	46.210	46.00
48	3.00	44.752	45.252	45.00
50	1.50	48.376	48.676	48.50
50	2.00	47.835	48.210	48.00
50	3.00	46.752	47.252	47.00
52	1.50	50.376	50.676	50.50
52	2.00	49.835	50.210	50.00
52	3.00	48.752	49.252	49.00
55	2.00	52.835	53.210	53.00
60	2.00	57.835	58.210	58.00


MF EN 60423:1994, 7H

Ø	P	Внутренний диаметр гайки Średnica otworu		
d _i	mm	Ø mini	Ø maxi	
8	1.00	6.917	7.217	7.00
10	1.00	8.917	9.217	9.00
12	1.50	10.376	10.751	10.50
16	1.50	14.376	14.751	14.50
20	1.50	18.376	18.751	18.50
25	1.50	23.376	23.751	23.50
32	1.50	30.376	30.751	30.50
40	1.50	38.376	38.751	38.50
63	1.50	61.376	61.751	61.50


UNC ANSI B1.1, 2B

Ø	P	P	Внутренний диаметр гайки Średnica otworu		
d _i	TPI	mm	Ø mini	Ø maxi	
1	64	0.397	1.425	1.582	1.45
2	56	0.454	1.695	1.871	1.75
3	48	0.529	1.941	2.146	2.00
4	40	0.635	2.157	2.385	2.25
5	40	0.635	2.487	2.697	2.55
6	32	0.794	2.642	2.895	2.75
8	32	0.794	3.302	3.530	3.40
10	24	1.058	3.683	3.962	3.80
12	24	1.058	4.344	4.597	4.40
1/4"	20	1.270	4.979	5.257	5.10
5/16"	18	1.411	6.401	6.731	6.50

UNC ANSI B1.1, 2B

Ø	P	P	Внутренний диаметр гайки Średnica otworu		
d _i	TPI	mm	Ø mini	Ø maxi	
3/8"	16	1.588	7.798	8.153	8.00
7/16"	14	1.814	9.144	9.550	9.30
1/2"	13	1.954	10.592	11.023	10.80
9/16"	12	2.117	11.989	12.446	12.20
5/8"	11	2.309	13.386	13.868	13.60
3/4"	10	2.540	16.307	16.840	16.60
7/8"	9	2.822	19.177	19.761	19.50
1"	8	3.175	21.971	22.606	22.30
1 1/8"	7	3.629	24.638	25.349	25.00
1 1/4"	7	3.629	27.813	28.524	28.20
1 3/8"	6	4.233	30.353	31.115	30.80
1 1/2"	6	4.233	33.528	34.290	34.00
1 3/4"	5	5.080	38.964	39.827	39.50
2"	4.5	5.644	44.679	45.593	45.30

UNJC ISO 3161:1999, 3B

Ø	P	P	Внутренний диаметр гайки Średnica otworu		
d _i	TPI	mm	Ø mini	Ø maxi	
4	40	0.635	2.228	2.393	2.30
5	40	0.635	2.558	2.723	2.60
6	32	0.794	2.733	2.939	2.80
8	32	0.794	3.393	3.599	3.45
10	24	1.058	3.795	4.064	3.90
12	24	1.058	4.455	4.704	4.55
1/4"	20	1.270	5.113	5.387	5.20
5/16"	18	1.411	6.563	6.833	6.70
3/8"	16	1.588	7.978	8.255	8.10
7/16"	14	1.814	9.347	9.639	9.40
1/2"	13	1.954	10.798	11.095	10.90
9/16"	12	2.117	12.228	12.482	12.40
5/8"	11	2.309	13.627	13.904	13.80
3/4"	10	2.540	16.576	16.881	16.70

ОТВЕРСТИЯ ПОД РЕЗЬБЫ – ŚREDNICE OTWORÓW

UNF ANSI B1.1, 2B

Ø	P	P	Внутренний диаметр гайки Średnica otworu		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
0	80	0.318	1.182	1.305	1.20
1	72	0.353	1.474	1.612	1.50
2	64	0.397	1.756	1.912	1.80
3	56	0.454	2.025	2.197	2.10
4	48	0.529	2.271	2.458	2.35
5	44	0.577	2.551	2.740	2.60
6	40	0.635	2.820	3.022	2.90
8	36	0.706	3.404	3.606	3.50
10	32	0.794	3.963	4.165	4.05
12	28	0.907	4.496	4.724	4.60
1/4"	28	0.907	5.360	5.588	5.50
5/16"	24	1.058	6.782	7.035	6.90
3/8"	24	1.058	8.382	8.636	8.50
7/16"	20	1.270	9.729	10.033	9.80
1/2"	20	1.270	11.329	11.607	11.40
9/16"	18	1.411	12.751	13.081	12.90
5/8"	18	1.411	14.351	14.681	14.50
3/4"	16	1.588	17.323	17.678	17.30
7/8"	14	1.814	20.270	20.675	20.40
1"	12	2.117	23.114	23.571	23.30
1 1/8"	12	2.117	26.289	26.746	26.50
1 1/4"	12	2.117	29.464	29.921	29.70
1 3/8"	12	2.117	32.639	33.096	32.80
1 1/2"	12	2.117	35.814	36.271	36.00

UNJF ISO 3161:1999, 3B

Ø	P	P	Внутренний диаметр гайки Średnica otworu		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
0	80	0.318	1.217	1.298	1.25
1	72	0.353	1.511	1.603	1.55
2	64	0.397	1.798	1.902	1.85
3	56	0.454	2.073	2.189	2.15
4	48	0.529	2.329	2.466	2.35
5	44	0.577	2.614	2.764	2.70
6	40	0.635	2.888	3.053	2.95
8	36	0.706	3.480	3.663	3.60
10	32	0.794	4.054	4.255	4.10
12	28	0.907	4.602	4.816	4.70
1/4"	28	0.907	5.466	5.662	5.55
5/16"	24	1.058	6.906	7.109	7.00
3/8"	24	1.058	8.494	8.679	8.60
7/16"	20	1.270	9.876	10.084	10.00
1/2"	20	1.270	11.463	11.661	11.55
9/16"	18	1.411	12.913	13.122	13.05
5/8"	18	1.411	14.501	14.702	14.60
3/4"	16	1.588	17.506	17.722	17.60
7/8"	14	1.814	20.460	20.706	20.50
1"	12	2.117	23.340	23.594	23.40

UNEF ANSI B1.1, 2B

Ø	P	P	Внутренний диаметр гайки Średnica otworu		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
12	32	0.794	4.623	4.826	4.70
1/4"	32	0.794	5.487	5.689	5.60
5/16"	32	0.794	7.087	7.264	7.20
3/8"	32	0.794	8.662	8.864	8.75
7/16"	28	0.907	10.135	10.337	10.25
1/2"	28	0.907	11.710	11.938	11.85
9/16"	24	1.058	13.132	13.385	13.20
5/8"	24	1.058	14.732	14.986	14.80
11/16"	24	1.058	16.307	16.560	16.40
3/4"	20	1.270	17.679	17.957	17.80
13/16"	20	1.270	19.254	19.558	19.40
7/8"	20	1.270	20.854	21.132	21.00
1"	20	1.270	24.029	24.307	24.10

UN ANSI B1.1, 2B

Ø	P	P	Внутренний диаметр гайки Średnica otworu		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
5/16"	20	1.270	6.554	6.858	6.70
3/8"	20	1.270	8.154	8.432	8.30
9/16"	20	1.270	12.904	13.208	13.00
5/8"	20	1.270	14.504	14.782	14.60
1 1/8"	8	3.175	25.146	25.781	25.50
1 1/4"	8	3.175	28.321	28.956	28.70
1 3/8"	8	3.175	31.496	32.131	31.80
1 1/2"	8	3.175	34.671	35.306	35.00
1 5/8"	8	3.175	37.846	38.481	38.20
1 3/4"	8	3.175	41.021	41.656	41.40
1 7/8"	8	3.175	44.196	44.831	44.50
2"	8	3.175	47.371	48.006	47.70
2 1/4"	8	3.175	53.721	54.356	54.10
2 1/2"	8	3.175	60.071	60.706	60.40




ОТВЕРСТИЯ ПОД РЕЗЬБЫ – ŚREDNICE OTWORÓW


UNS ANSI B1.1, 2B

Ø	P	P	Внутренний диаметр гайки Średnica otworu		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
10	36	0.706	4.064	4.216	4.10
10	40	0.635	4.141	4.292	4.20
10	56	0.454	4.344	4.445	4.40
1/4"	36	0.706	5.588	5.740	5.65
1/4"	40	0.635	5.665	5.816	5.70
1/4"	48	0.529	5.766	5.892	5.80
1/4"	56	0.454	5.868	5.969	5.90
5/16"	36	0.706	7.163	7.340	7.25
3/8"	36	0.706	8.763	8.940	8.80
7/16"	24	1.058	9.957	10.210	10.00
1/2"	24	1.058	11.557	11.811	11.60
1"	14	1.814	23.445	23.825	23.60


W (BSW) BS 84, (DIN 11 - 1970)

Ø	P	P	Внутренний диаметр гайки Średnica otworu		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
(3/32")	48				1.80
1/8"	40	0.635	2.362	2.591	2.50
(5/32")	32				3.10
3/16"	24	1.058	3.406	3.744	3.60
(7/32")	24				4.40
1/4"	20	1.270	4.724	5.156	5.10
5/16"	18	1.411	6.129	6.588	6.50
3/8"	16	1.588	7.493	7.988	7.90
7/16"	14	1.814	8.791	9.332	9.20
1/2"	12	2.117	9.987	10.589	10.50
5/8"	11	2.309	12.918	13.558	13.50
3/4"	10	2.540	15.799	16.484	16.25
7/8"	9	2.822	18.613	19.355	19.25
1"	8	3.175	21.336	22.149	21.90


G (BSP) DIN ISO 228

Ø	P	P	Внутренний диаметр гайки Średnica otworu		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
1/16"	28	0.907	6.561	6.843	6.75
1/8"	28	0.907	8.566	8.848	8.75
1/4"	19	1.337	11.445	11.890	11.60
3/8"	19	1.337	14.950	15.395	15.20
1/2"	14	1.814	18.631	19.172	18.90
5/8"	14	1.814	20.587	21.128	20.90
3/4"	14	1.814	24.117	24.658	24.40
7/8"	14	1.814	27.877	28.418	28.20
1"	11	2.309	30.291	30.931	30.70
1 1/8"	11	2.309	34.939	35.579	35.30
1 1/4"	11	2.309	38.952	39.592	39.30
1 3/8"	11	2.309	41.365	42.005	41.80
1 1/2"	11	2.309	44.845	45.485	45.20
1 3/4"	11	2.309	50.788	51.428	51.20
2"	11	2.309	56.656	57.296	57.00
2 1/4"	11	2.309	62.752	63.392	63.10
2 1/2"	11	2.309	72.226	72.866	72.60
3"	11	2.309	84.926	85.566	85.30

PG DIN 40430

Ø	P	P	Внутренний диаметр гайки Średnica otworu		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
7	20	1.270	11.28	11.43	11.35
9	18	1.411	13.86	14.01	13.90
11	18	1.411	17.26	17.41	17.30
13.5	18	1.411	19.06	19.21	19.10
16	18	1.411	21.16	21.31	21.20
21	16	1.588	26.78	27.03	26.80
29	16	1.588	35.48	35.73	35.50
36	16	1.588	45.48	45.73	45.50
42	16	1.588	52.48	52.73	52.50
48	16	1.588	57.78	58.03	57.80

TR ISO 2901-2904, DIN 103, 7H

Ø	P	Внутренний диаметр гайки Średnica otworu		
d _i	mm	Ø mini	Ø maxi	Ø guide line
10	2	8	8.236	8.20
12	3	9	9.315	9.25
14	3	11	11.315	11.25
16	4	12	12.375	12.25
18	4	14	14.375	14.25
20	4	16	16.375	16.25
22	5	17	17.450	17.25
24	5	19	19.450	19.25
26	5	21	21.450	21.25
28	5	23	23.450	23.25
30	6	24	24.500	24.25
32	6	26	26.500	26.25

ДИАМЕТРЫ ПОД ПЛАШКИ – ŚREDNICE WAŁKÓW

M DIN 13, ISO 261, *6h / 6g

Ø	P	Наружный диаметр резьбы Średnica zewnętrzna		
d ₁	mm	Ø mini	Ø maxi	Ø guide line
* 1	0.25	0.933	1.000	0.97
* 1.1	0.25	1.033	1.100	1.07
* 1.2	0.25	1.133	1.200	1.17
* 1.4	0.30	1.325	1.400	1.36
1.6	0.35	1.496	1.581	1.54
1.7	0.35	1.596	1.681	1.64
1.8	0.35	1.696	1.781	1.74
2	0.40	1.886	1.981	1.93
2.2	0.45	2.080	2.180	2.13
2.3	0.40	2.186	2.300	2.23
2.5	0.45	2.380	2.480	2.43
2.6	0.45	2.480	2.600	2.53
3	0.50	2.874	2.980	2.92
3.5	0.60	3.354	3.479	3.41
4	0.70	3.838	3.978	3.91
4.5	0.75	4.338	4.478	4.41
5	0.80	4.826	4.976	4.90
6	1.00	5.794	5.974	5.88
7	1.00	6.794	6.974	6.88
8	1.25	7.760	7.972	7.87
9	1.25	8.760	8.972	8.87
10	1.50	9.732	9.968	9.85
11	1.50	10.732	10.968	10.85
12	1.75	11.701	11.966	11.83
14	2.00	13.682	13.962	13.82
16	2.00	15.682	15.962	15.82
18	2.50	17.623	17.958	17.79
20	2.50	19.623	19.958	19.79
22	2.50	21.623	21.958	21.79
24	3.00	23.577	23.952	23.76
27	3.00	26.577	26.952	26.76
30	3.50	29.522	29.947	29.73
33	3.50	32.522	32.947	32.73
36	4.00	35.465	35.940	35.70
39	4.00	38.465	38.940	38.70
42	4.50	41.437	41.937	41.69
45	4.50	44.437	44.937	44.69
48	5.00	47.399	47.929	47.66
52	5.00	51.399	51.929	51.66
56	5.50	55.365	55.925	55.65

MF DIN 13, ISO 261, 6g

Ø	P	Наружный диаметр резьбы Średnica zewnętrzna		
d ₁	mm	Ø mini	Ø maxi	Ø guide line
2.5	0.35	2.396	2.481	2.44
3	0.35	2.896	2.981	2.94
3.5	0.35	3.396	3.481	3.44
4	0.50	3.874	3.980	3.93
4.5	0.50	4.374	4.480	4.43
5	0.50	4.874	4.980	4.93
5.5	0.50	5.374	5.480	5.43
6	0.75	5.838	5.978	5.91
7	0.75	6.838	6.978	6.90
8	0.75	7.838	7.978	7.90

MF DIN 13, ISO 261, 6g

Ø	P	Наружный диаметр резьбы Średnica zewnętrzna		
d ₁	mm	Ø mini	Ø maxi	Ø guide line
8	1.00	7.794	7.974	7.88
9	0.75	8.838	8.978	8.90
9	1.00	8.794	8.974	8.88
10	0.75	9.838	9.978	9.90
10	1.00	9.794	9.974	9.88
10	1.25	9.760	9.972	9.86
11	0.75	10.838	10.978	10.91
11	1.00	10.794	10.974	10.88
12	1.00	11.794	11.974	11.88
12	1.25	11.760	11.972	11.86
12	1.50	11.732	11.968	11.85
14	1.00	13.794	13.974	13.88
14	1.25	13.760	13.972	13.86
14	1.50	13.732	13.968	13.85
15	1.00	14.794	14.974	14.88
15	1.50	14.732	14.968	14.85
16	1.00	15.794	15.974	15.88
16	1.50	15.732	15.968	15.85
17	1.00	16.794	16.974	16.88
17	1.50	16.732	16.968	16.85
18	1.00	17.794	17.974	17.88
18	1.50	17.732	17.968	17.85
18	2.00	17.682	17.962	17.82
20	1.00	19.794	19.974	19.88
20	1.50	19.732	19.968	19.85
20	2.00	19.682	19.962	19.82
22	1.00	21.794	21.974	21.88
22	1.50	21.732	21.968	21.85
22	2.00	21.682	21.962	21.82
24	1.00	23.794	23.974	23.88
24	1.50	23.732	23.968	23.85
24	2.00	23.682	23.962	23.82
25	1.00	24.794	24.974	24.88
25	1.50	24.732	24.968	24.85
25	2.00	24.682	24.962	24.82
27	1.00	26.794	26.974	26.88
27	1.50	26.732	26.968	26.85
27	2.00	26.682	26.962	26.82
28	1.00	27.794	27.974	27.88
28	1.50	27.732	27.968	27.85
28	2.00	27.682	27.962	27.82
30	1.00	29.794	29.974	29.88
30	1.50	29.732	29.968	29.85
30	2.00	29.682	29.962	29.82
30	3.00	29.577	29.952	29.76
32	1.50	31.732	31.968	31.85
32	2.00	31.682	31.962	31.82
33	1.50	32.732	32.968	32.85
33	2.00	32.682	32.962	32.82
33	3.00	32.577	32.952	32.76
35	1.50	34.732	34.968	34.85
36	1.50	35.732	35.968	35.85
36	2.00	35.682	35.962	35.82
36	3.00	35.577	35.952	35.76
39	1.50	38.732	38.968	38.85
39	2.00	38.682	38.962	38.82
39	3.00	38.577	38.952	38.76



ДИАМЕТРЫ ПОД ПЛАШКИ – ŚREDNICE WAŁKÓW

MF DIN 13, ISO 261, 6g

Ø	P	Наружный диаметр резьбы Średnica zewnętrzna		
d _i	mm	Ø mini	Ø maxi	Ø guide line
40	1.50	39.732	39.968	39.85
40	2.00	39.682	39.962	39.82
40	3.00	39.577	39.952	39.76
42	1.50	41.732	41.968	41.85
42	2.00	41.682	41.962	41.82
42	3.00	41.577	41.952	41.76
45	1.50	44.732	44.968	44.85
45	2.00	44.682	44.962	44.82
45	3.00	44.577	44.952	44.76
48	1.50	47.732	47.968	47.85
48	2.00	47.682	47.962	47.82
48	3.00	47.577	47.952	47.76
50	1.50	49.732	49.968	49.85
50	2.00	49.682	49.962	49.82
50	3.00	49.577	49.952	49.76
52	1.50	51.732	51.968	51.85
52	2.00	51.682	51.962	51.82
52	3.00	51.577	51.952	51.76
52	4.00	51.465	51.940	51.70

UNC ANSI B1.1, 2A

Ø	P	Наружный диаметр резьбы Średnica zewnętrzna		
d _i	mm	Ø mini	Ø maxi	Ø guide line
1	64	0.397	1.743	1.79
2	56	0.454	2.066	2.12
3	48	0.529	2.383	2.44
4	40	0.635	2.695	2.76
5	40	0.635	3.026	3.09
6	32	0.794	3.333	3.41
8	32	0.794	3.991	4.07
10	24	1.058	4.618	4.71
12	24	1.058	5.279	5.37
1/4"	20	1.270	6.117	6.22
5/16"	18	1.411	7.687	7.80
3/8"	16	1.588	9.254	9.37
7/16"	14	1.814	10.816	10.95
1/2"	13	1.954	12.386	12.52
9/16"	12	2.117	13.958	14.10
5/8"	11	2.309	15.528	15.68
3/4"	10	2.540	18.677	18.84
7/8"	9	2.822	21.824	22.00
1"	8	3.175	24.969	25.16
1 1/8"	7	3.629	28.103	28.31
1 1/4"	7	3.629	31.278	31.49
1 3/8"	6	4.233	34.402	34.63
1 1/2"	6	4.233	37.577	37.81
1 3/4"	5	5.080	43.860	44.12
2"	4.5	5.644	50.168	50.45
2 1/4"	4.5	5.644	56.518	56.80
2 1/2"	4	6.350	62.817	63.12
2 3/4"	4	6.350	69.165	69.47
3"	4	6.350	75.515	75.82
3 1/4"	4	6.350	81.862	82.16
3 1/2"	4	6.350	88.212	88.51

UNC ANSI B1.1, 2A

Ø	P	P	Наружный диаметр резьбы Średnica zewnętrzna		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
3 3/4"	4	6.350	94.560	95.163	94.86
4"	4	6.350	100.910	101.513	101.21

UNF ANSI B1.1, 2A

Ø	P	P	Наружный диаметр резьбы Średnica zewnętrzna		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
0	80	0.318	1.431	1.511	1.47
1	72	0.353	1.751	1.838	1.79
2	64	0.397	2.073	2.169	2.12
3	56	0.454	2.393	2.496	2.44
4	48	0.529	2.713	2.827	2.77
5	44	0.577	3.036	3.157	3.10
6	40	0.635	3.356	3.484	3.42
8	36	0.706	4.006	4.145	4.08
10	32	0.794	4.651	4.803	4.73
12	28	0.907	5.296	5.461	5.38
1/4"	28	0.907	6.160	6.324	6.24
5/16"	24	1.058	7.727	7.909	7.82
3/8"	24	1.058	9.315	9.497	9.41
7/16"	20	1.270	10.874	11.079	10.98
1/2"	20	1.270	12.462	12.666	12.56
9/16"	18	1.411	14.031	14.251	14.14
5/8"	18	1.411	15.619	15.839	15.73
3/4"	16	1.588	18.774	19.011	18.89
7/8"	14	1.814	21.923	22.184	22.05
1"	12	2.117	25.065	25.354	25.21
1 1/8"	12	2.117	28.240	28.529	28.38
1 1/4"	12	2.117	31.415	31.704	31.56
1 3/8"	12	2.117	34.588	34.876	34.73
1 1/2"	12	2.117	37.763	38.051	37.91

UNEF ANSI B1.1, 2A

Ø	P	P	Наружный диаметр резьбы Średnica zewnętrzna		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
12	32	0.794	5.312	5.463	5.39
1/4"	32	0.794	6.173	6.324	6.25
5/16"	32	0.794	7.760	7.912	7.84
3/8"	32	0.794	9.348	9.499	9.42
7/16"	28	0.907	10.920	11.084	11.00
1/2"	28	0.907	12.507	12.672	12.59
9/16"	24	1.058	14.075	14.257	14.17
5/8"	24	1.058	15.662	15.844	15.75
11/16"	24	1.058	17.250	17.432	17.34
3/4"	20	1.270	18.812	19.016	18.91
13/16"	20	1.270	20.339	20.604	20.50
7/8"	20	1.270	21.987	22.191	22.09
15/16"	20	1.270	23.572	23.776	23.67
1"	20	1.270	25.159	25.364	25.26
1 1/8"	18	1.411	28.319	28.539	28.43
1 1/4"	18	1.411	31.491	31.711	31.60
1 1/2"	18	1.411	37.841	38.061	37.95

ДИАМЕТРЫ ПОД ПЛАШКИ – ŚREDNICE WAŁKÓW

UN ANSI B1.1, 2A

Ø	P	P	Наружный диаметр резьбы Średnica zewnętrzna		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
5/16"	20	1.270	7.702	7.907	7.80
3/8"	20	1.270	9.289	9.494	9.39
9/16"	20	1.270	14.049	14.254	14.15
5/8"	20	1.270	15.637	15.841	15.74
1 1/8"	8	3.175	28.141	28.521	28.33
1 1/4"	8	3.175	31.316	31.696	31.51
1 3/8"	8	3.175	34.489	34.869	34.68
1 1/2"	8	3.175	37.664	38.044	37.85
1 5/8"	8	3.175	40.839	41.219	41.03
1 3/4"	8	3.175	44.011	44.391	44.20
1 7/8"	8	3.175	47.186	47.566	47.38
2"	8	3.175	50.361	50.741	50.55
2 1/4"	8	3.175	56.709	57.089	56.90
2 1/2"	8	3.175	63.059	63.439	63.25
2 3/4"	8	3.175	69.406	69.786	69.60
3"	8	3.175	75.753	76.133	75.94

UNS ANSI B1.1, 2A

Ø	P	P	Наружный диаметр резьбы Średnica zewnętrzna		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
10	36	0.706	4.664	4.803	4.73
10	40	0.635	4.674	4.803	4.74
10	56	0.454	4.705	4.808	4.76
1/4"	36	0.706	6.188	6.327	6.26
1/4"	40	0.635	6.198	6.327	6.26
1/4"	48	0.529	6.216	6.329	6.27
1/4"	56	0.454	6.226	6.329	6.28
5/16"	36	0.706	7.775	7.914	7.84
3/8"	36	0.706	9.360	9.499	9.43
7/16"	24	1.058	10.902	11.084	10.99
1/2"	24	1.058	12.487	12.669	12.58
1"	14	1.814	25.096	25.356	25.23

G (BSP) DIN ISO 228

Ø	P	P	Наружный диаметр резьбы Średnica zewnętrzna		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
1/16"	28	0.907	7.509	7.723	7.62
1/8"	28	0.907	9.514	9.728	9.62
1/4"	19	1.337	12.907	13.157	13.03
3/8"	19	1.337	16.412	16.662	16.54
1/2"	14	1.814	20.671	20.955	20.81
5/8"	14	1.814	22.627	22.911	22.77
3/4"	14	1.814	26.157	26.441	26.30
7/8"	14	1.814	29.917	30.201	30.06
1"	11	2.309	32.889	33.249	33.07
1 1/8"	11	2.309	37.537	37.897	37.72
1 1/4"	11	2.309	41.550	40.910	41.73
1 3/8"	11	2.309	43.963	44.323	44.14
1 1/2"	11	2.309	47.443	47.803	47.62
1 3/4"	11	2.309	53.386	53.746	53.57
2"	11	2.309	59.254	59.614	59.43
2 1/4"	11	2.309	65.276	65.710	65.49
2 1/2"	11	2.309	74.750	75.184	74.97
2 3/4"	11	2.309	81.100	81.534	81.32
3"	11	2.309	87.450	87.884	87.67
3 1/2"	11	2.309	99.896	100.330	100.11

W (BSW) BS 84

Ø	P	P	Наружный диаметр резьбы Średnica zewnętrzna		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
1/4"	20	1.270	6.165	6.319	6.24
5/16"	18	1.411	7.737	7.904	7.82
3/8"	16	1.588	9.312	9.489	9.40
7/16"	14	1.814	10.884	11.074	10.98
1/2"	12	2.117	12.456	12.662	12.56
5/8"	11	2.309	15.613	15.832	15.72
3/4"	10	2.540	18.771	19.004	18.89
7/8"	9	2.822	21.979	22.225	22.10
1"	8	3.175	25.138	25.400	25.27
1 1/8"	7	3.629	28.296	28.575	28.44
1 1/4"	7	3.629	31.465	31.750	31.61
1 1/2"	6	4.233	37.793	38.100	37.95
1 3/4"	5	5.080	44.117	44.450	44.28
2"	4.5	5.644	50.449	50.800	50.62
2 1/4"	4	6.350	56.779	57.150	56.96
2 1/2"	4	6.350	63.119	63.500	63.31

PG DIN 40430

Ø	P	P	Наружный диаметр резьбы Średnica zewnętrzna		
d _i	TPI	mm	Ø mini	Ø maxi	Ø guide line
7	20	1.270	12.3	12.5	12.40
9	18	1.411	15.0	15.2	15.10
11	18	1.411	18.4	18.6	18.50
13.5	18	1.411	20.2	20.4	20.30
16	18	1.411	22.3	22.5	22.40
21	16	1.588	28.0	28.3	28.15
29	16	1.588	36.7	37.0	36.85
36	16	1.588	46.7	47.0	46.85
42	16	1.588	53.7	54.0	53.85
48	16	1.588	59.0	59.3	59.15

TR ISO 2901-2904, DIN 103, 7e

Ø	P	Наружный диаметр резьбы Średnica zewnętrzna		
d _i	mm	Ø mini	Ø maxi	Ø guide line
10	2	9.820	10.000	9.91
12	3	11.764	12.000	11.88
14	3	13.764	14.000	13.88
16	4	15.700	16.000	15.85
18	4	17.700	18.000	17.85
20	4	19.700	20.000	19.85
22	5	21.665	22.000	21.83
24	5	23.665	24.000	23.83
26	5	25.665	26.000	25.83
28	5	27.665	28.000	27.83
30	6	29.625	30.000	29.81
32	6	31.625	32.000	31.81

