

BORE HOLE DIAMETERS

Metric threads

M ISO metric coarse thread

DIN 13 tol. 6H (M 1 - 1.6 - SH acc. DIN ISO 965-1)

P	D1 in mm		
	min.	max.	
M 1	0.25	0.729	0.785 0.75
M 1.1	0.25	0.829	0.885 0.85
M 1.2	0.25	0.929	0.985 0.95
M 1.4	0.30	1.075	1.142 1.10
M 1.6	0.35	1.221	1.321 1.25
M 1.8	0.35	1.421	1.521 1.45
M 2	0.40	1.567	1.679 1.60
M 2.2	0.45	1.713	1.838 1.75
M 2.5	0.45	2.013	2.138 2.05
M 3	0.50	2.459	2.599 2.50
M 3.5	0.60	2.850	3.010 2.90
M 4	0.70	3.242	3.422 3.30
M 4.5	0.75	3.688	3.878 3.70
M 5	0.80	4.134	4.334 4.20
M 6	1.00	4.917	5.153 5.00
M 7	1.00	5.917	6.153 6.00
M 8	1.25	6.647	6.912 6.80
M 9	1.25	7.647	7.912 7.80
M 10	1.50	8.367	8.676 8.50
M 11	1.50	9.376	9.676 9.50
M 12	1.75	10.106	10.441 10.20
M 14	2.00	11.835	12.210 12.00
M 16	2.00	13.835	14.210 14.00
M 18	2.50	15.204	15.744 15.50
M 20	2.50	17.204	17.744 17.50
M 22	2.50	19.204	19.744 19.50
M 24	3.00	20.752	21.252 21.00
M 27	3.00	23.752	24.252 24.00
M 30	3.50	26.211	26.711 26.50
M 33	3.50	29.211	29.711 29.50
M 36	4.00	31.670	32.270 32.00
M 39	4.00	34.670	35.270 35.00
M 42	4.50	37.129	37.729 37.50
M 45	4.50	40.129	40.729 40.50
M 48	5.00	42.587	43.287 43.00
M 52	5.00	46.587	47.287 47.00
M 56	5.50	50.046	50.796 50.50
M 60	5.50	54.046	54.796 54.50
M 64	6.00	57.505	58.305 58.00
M 68	6.00	61.505	62.305 62.00

MF ISO metric fine thread

DIN 13 tol. 6H (P 0.25 - SH acc. DIN ISO 965-1)

P	D1 in mm		
	min.	max.	
M 2	0.25	1.729	1.774 1.75
M 2.2	0.25	1.929	1.974 1.95
M 2.5	0.35	2.121	2.221 2.15
M 3	0.35	2.621	2.684 2.65
M 3.5	0.35	3.121	3.184 3.15
M 4	0.50	3.459	3.599 3.50
M 5	0.50	4.459	4.599 4.50
M 6	0.50	5.459	5.599 5.50
M 6	0.75	5.188	5.378 5.20
M 8	0.75	7.188	7.378 7.20
M 8	1.00	6.917	7.153 7.00
M 10	0.75	9.188	9.378 9.20
M 10	1.00	8.917	9.153 9.00
M 10	1.25	8.647	8.912 8.80
M 12	0.75	11.188	11.378 11.20
M 12	1.00	10.917	11.153 11.00
M 12	1.25	10.647	10.912 10.80
M 12	1.50	10.376	10.676 10.50
M 14	1.25	12.917	13.153 13.00
M 14	1.25	12.647	12.912 12.80
M 14	1.50	12.376	12.676 12.50
M 16	1.00	14.917	15.153 15.00
M 16	1.50	14.376	14.676 14.50
M 18	1.00	16.917	17.153 17.00
M 18	1.50	16.376	16.676 16.50
M 18	2.00	15.835	16.210 16.00
M 20	1.00	18.917	19.153 19.00
M 20	1.50	18.376	18.676 18.50
M 20	2.00	17.835	18.210 18.00
M 22	1.00	20.917	21.153 21.00
M 22	1.50	20.376	20.676 20.50
M 22	2.00	19.835	20.210 20.00
M 24	1.00	22.917	23.153 23.00
M 24	1.50	22.376	22.676 22.50
M 24	2.00	21.835	22.210 22.00
M 26	1.00	24.917	25.153 25.00
M 26	1.50	24.376	24.676 24.50
M 27	1.50	25.376	25.676 25.50
M 27	2.00	24.835	25.210 25.00
M 28	1.50	26.376	26.676 26.50

MF ISO metric fine thread

DIN 13 tol. 6H (P 0.25 - SH acc. DIN ISO 965-1)

P	D1 in mm		
	min.	max.	
M 28	2.00	25.835	26.210 26.00
M 30	1.50	28.376	28.676 28.50
M 30	2.00	27.835	28.210 28.00
M 30	3.00	26.752	27.252 27.00
M 32	1.50	30.376	30.676 30.50
M 32	2.00	29.835	30.210 30.00
M 32	3.00	26.752	27.252 27.00
M 33	1.50	31.376	31.676 31.50
M 33	2.00	30.835	31.210 31.00
M 33	3.00	29.752	30.252 30.00
M 36	1.50	34.376	34.676 34.50
M 36	2.00	33.835	34.210 34.00
M 36	3.00	32.752	33.252 33.00
M 38	1.50	36.376	36.676 36.50
M 39	2.00	36.835	37.210 37.00
M 39	3.00	35.752	36.252 36.00
M 40	1.50	38.376	38.676 38.50
M 40	2.00	37.835	38.210 38.00
M 42	1.50	40.376	40.676 40.50
M 42	2.00	39.835	40.210 40.00
M 42	3.00	38.752	39.252 39.00
M 45	1.50	43.376	43.676 43.50
M 45	2.00	42.835	43.210 43.00
M 45	3.00	41.752	42.252 42.00
M 48	1.50	46.376	46.676 46.50
M 48	2.00	45.835	46.210 46.00
M 48	3.00	44.752	45.252 45.00
M 50	1.50	48.376	48.676 48.50
M 50	2.00	47.835	48.210 48.00
M 50	3.00	46.752	47.252 47.00
M 52	1.50	50.376	50.676 50.50
M 52	2.00	49.835	50.210 50.00
M 52	3.00	48.752	49.252 49.00

American unified threads

UNC Unified coarse thread

ASME B1.1

P	D1 in mm		
	min.	max.	
UNC No1	64	1.425	1.582 1.55
UNC No2	56	1.694	1.872 1.85
UNC No3	48	1.941	2.146 2.10
UNC No4	40	2.156	2.385 2.35
UNC No5	40	2.487	2.697 2.65
UNC No6	32	2.642	2.896 2.85
UNC No8	32	3.302	3.531 3.50
UNC No10	24	3.683	3.962 3.90
UNC No12	24	4.343	4.597 4.50
UNC 1/4"	20	4.978	5.258 5.20
UNC 5/16"	18	6.401	6.731 6.680 6.60
UNC 3/8"	16	7.798	8.153 8.082 8.00
UNC 7/16"	14	9.144	9.550 9.441 9.40
UNC 1/2"	13	10.592	11.024 10.881 10.80
UNC 9/16"	12	11.989	12.446 12.301 12.20
UNC 5/8"	11	13.586	13.888 13.693 13.50
UNC 3/4"	10	16.307	16.840 16.604 16.50
UNC 7/8"	9	19.177	19.761 19.520 19.50
UNC 1"	8	21.971	22.606 22.344 22.25
UNC 1 1/8"	7	24.638	25.349 25.082 25.00
UNC 1 1/4"	7	27.813	28.524 28.258 28.00
UNC 1 3/8"	6	30.353	31.115 30.851 30.75
UNC 1 1/2"	6	33.528	34.290 34.026 34.00
UNC 1 3/4"	5	38.964	39.827 39.560 39.50
UNC 2"	4.5	44.679	45.593 45.367 45.00
UNC 2 1/4"	4.5	51.029	51.943 51.717 51.50
UNC 2 1/2"	4	56.617	57.582 57.389 57.20
UNC 2 3/4"	4	62.967	63.932 63.739 63.50
UNC 3"	4	69.317	70.282 70.089 69.90

UNF Unified fine thread

ASME B1.1

P	D1 in mm		
	min.	max.	
UNF No0	80	1.181	1.306 1.306 1.25
UNF No1	72	1.473	1.613 1.613 1.55
UNF No2	64	1.755	1.913 1.913 1.85
UNF No3	56	2.024	2.197 2.197 2.15
UNF No4	48	2.271	2.459 2.459 2.40
UNF No5	44	2.550	2.741 2.741 2.70
UNF No6	40	2.819	3.023 3.012 2.95
UNF No8	36	3.404	3.607 3.597 3.50
UNF No10	32	3.962	4.166 4.168 4.10
UNF No12	28	4.496	4.724 4.717 4.60
UNF 1/4"	28	5.359	5.588 5.563 5.50
UNF 5/16"	24	6.782	7.036 6.995 6.90
UNF 3/8"	24	8.382	8.636 8.565 8.50
UNF 7/16"	20	9.728	10.033 9.947 9.90
UNF 9/16"	20	11.328	11.608 11.524 11.50
UNF 5/8"	18	12.751	13.081 12.969 12.90
UNF 3/4"	18	14.351	14.681 14.554 14.50
UNF 7/8"	16	17.323	17.678 17.546 17.50
UNF 1"	14	20.269	20.676 20.493 20.40
UNF 1 1/8"	12	23.114	23.571 23.363 23.25
UNF 1 1/8"	12	26.289	26.746 26.538 26.50
UNF 1 1/4"	12	29.464	29.921 29.713 29.50
UNF 1 3/8"	12	32.639	33.096 32.888 32.75
UNF 1 1/2"	12	35.814	36.269 36.063 36.00

UN Unified thread

ASME B1.1

P	D1 in mm		
	min.	max.	
UN 1/8"	8	25.146	25.781 25.519 25.40
UN 1/4"	8	28.321	28.956 28.694 28.50
UN 1/8"	8	31.496	32.131 31.869 31.80
UN 1/2"	8	34.671	35.306 35.044 35.00
UN 1/8"	8	37.846	38.481 38.219 38.10
UN 1/3/4"	8	41.021	41.656 41.394 41.30
UN 1/3/4"	12	42.164	42.821 42.413 42.30
UN 1/7/8"	8	44.196	44.831 44.569 44.50
UN 2"	8	47.371	48.006 47.744 47.70
UN 2"	12	48.514	48.971 48.763 48.70

UNEF Unified extra fine thread

ASME B1.1

P	D1 in mm		
	min.	max.	
UNEF No12	32	4.623	4.826 4.813 4.70
UNEF 1/4"	32	5.486	5.690 5.662 5.55
UNEF 5/16"	32	7.087	7.264 7.231 7.10
UNEF 1"	12	23.114	23.571 23.363 23.25
UNEF 1 1/8"	12	26.289	26.746 26.538 26.50
UNEF 1 1/4"	12	29.464	29.921 29.713 29.50
UNEF 1 3/8"	12	32.639	33.096 32.888 32.75
UNEF 1 1/2"	12	35.814	36.269 36.063 36.00

Helical coil threads for inserts

EG M ISO metric coarse thread

DIN 8140

P	D1 in mm		
	min.	max.	
EG M 2	0.40	2.087	2.177 2.10
EG M 2.5	0.45	2.597	2.697 2.65
EG M 3	0.50	3.108	3.220 3.15
EG M 3.5	0.60	3.630	3.755 3.70
EG M 4	0.70	4.152	4.292 4.20
EG M 5	0.80	5.174	5.344 5.25
EG M 6	1.00	6.217	6.407 6.30
EG M 7	1.00	7.217	7.407 7.30
EG M 8	1.25	8.217	8.483 8.40
EG M 9	1.25	9.217	9.483 9.40
EG M 10	1.50	10.324	10.560 10.50
EG M 11	1.50	11.324	11.560 11.50
EG M 12	1.75	12.379	12.643 12.50
EG M 14	2.00	14.433	14.733 14.50
EG M 16	2.00	16.433	16.733 16.50
EG M 18	2.50	18.541	18.986 18.80
EG M 20	2.50	20.541	20.896 20.80

EG UNC Unified coarse thread

ASME B18.20.1 and BS 3409

	P	D1 in mm	
		min.	max.
EG UNC No1	64	1.941	2.090 2.00
EG UNC No2	56	2.283	2.441 2.35
EG UNC No3	48	2.631	2.804 2.70
EG UNC No4	40	2.985	3.180 3.10
EG UNC No5	40	3.315	3.487 3.40
EG UNC No6	32	3.678	3.879 3.80
EG UNC No8	32	4.338	4.524 4.40
EG UNC No10	24	5.055	5.283 5.20
EG UNC No12	24	5.715	5.944 5.80
EG UNC 1/4"	20	6.624	6.868 6.70
EG UNC 5/16"	18	8.242	8.483 8.40
EG UNC 3/8"	16	9.860	10.127 10.00
EG UNC 1/2"	14	13.506	13.783 13.70
EG UNC 3/4"	13	13.122	13.393 13.30
EG UNC 9/16"	12	14.747	15.032 15.00
EG UNC 5/8"	11	16.375	16.679 16.50
EG UNC 3/4"	10	19.599	19.903 19.80
EG UNC 7/8"	9	22.835	23.162 23.10
EG UNC 1"	8	26.068	26.469 26.25