

# BORE HOLE DIAMETERS

## Metric threads

**M** ISO metric coarse thread  
DIN 13 tol. 6H (M 1 - 1.4) SH acc. DIN ISO 965-1

	P	D1 in mm	
		min.	max.
M 1	0.25	0.729	0.885
M 1.1	0.25	0.829	0.985
M 1.2	0.25	0.929	1.085
M 1.4	0.30	1.075	1.142
M 1.6	0.35	1.221	1.321
M 1.8	0.35	1.421	1.521
M 2	0.40	1.567	1.679
M 2.2	0.45	1.713	1.838
M 2.5	0.45	2.013	2.138
M 3	0.50	2.459	2.599
M 3.5	0.60	2.850	3.010
M 4	0.70	3.242	3.420
M 4.5	0.75	3.688	3.878
M 5	0.80	4.134	4.334
M 6	1.00	4.917	5.153
M 7	1.00	5.917	6.153
M 8	1.25	6.647	6.912
M 9	1.25	7.647	7.912
M 10	1.50	8.367	8.676
M 11	1.50	9.376	9.676
M 12	1.75	10.196	10.441
M 14	2.00	11.825	12.210
M 16	2.00	13.835	14.210
M 18	2.50	15.204	15.744
M 20	2.50	17.294	17.744
M 22	2.50	19.294	19.744
M 24	3.00	20.752	21.252
M 27	3.00	23.752	24.252
M 30	3.50	26.211	26.711
M 33	3.50	29.211	29.711
M 36	4.00	31.670	32.170
M 39	4.00	34.670	35.170
M 42	4.50	37.129	37.799
M 45	4.50	40.129	40.799
M 48	5.00	42.587	43.297
M 52	5.00	46.587	47.297
M 56	5.50	50.046	50.796
M 60	5.50	54.046	54.796
M 64	6.00	57.505	58.305
M 68	6.00	61.505	62.305

**MF** ISO metric fine thread  
DIN 13 tol. 6H (P=0.25 x SH acc. DIN ISO 965-1)

	P	D1 in mm	
		min.	max.
M 2	0.25	1.729	1.785
M 2.2	0.25	1.929	1.985
M 2.5	0.35	2.121	2.221
M 3	0.35	2.621	2.721
M 3.5	0.35	3.121	3.221
M 4	0.50	3.459	3.599
M 5	0.50	4.459	4.599
M 6	0.50	5.459	5.599
M 6.75	0.75	5.188	5.378
M 8	0.75	7.188	7.378
M 8	1.00	6.917	7.153
M 10	0.75	9.188	9.378
M 10	1.00	8.917	9.153
M 10	1.25	8.647	8.912
M 12	0.75	11.188	11.378
M 12	1.00	10.917	11.153
M 12	1.25	10.647	10.912
M 12	1.50	10.376	10.676
M 14	1.00	12.917	13.153
M 14	1.25	12.647	12.912
M 14	1.50	12.376	12.676
M 16	1.00	14.917	15.153
M 16	1.50	14.376	14.676
M 18	1.00	16.917	17.153
M 18	1.50	16.376	16.676
M 18	2.00	15.835	16.210
M 20	1.00	18.917	19.153
M 20	1.50	18.376	18.676
M 20	2.00	17.835	18.210
M 22	1.00	20.917	21.153
M 22	1.50	20.376	20.676
M 22	2.00	19.835	20.210
M 24	1.00	22.917	23.153
M 24	1.50	22.376	22.676
M 24	2.00	21.835	22.210
M 26	1.00	24.917	25.153
M 26	1.50	24.376	24.676
M 27	1.50	25.376	25.676
M 27	2.00	24.835	25.210
M 28	1.50	26.376	26.676

**MF** ISO metric fine thread  
DIN 13 tol. 6H (P=0.25 x SH acc. DIN ISO 965-1)

	P	D1 in mm	
		min.	max.
M 28	2.00	25.835	26.210
M 30	1.50	28.376	28.676
M 30	2.00	27.835	28.210
M 30	3.00	26.752	27.252
M 32	1.50	30.376	30.676
M 32	2.00	29.835	30.210
M 33	1.50	31.376	31.676
M 33	2.00	30.835	31.210
M 33	3.00	29.752	30.252
M 36	1.50	34.376	34.676
M 36	2.00	33.835	34.210
M 36	3.00	32.752	33.252
M 38	1.50	36.376	36.676
M 39	2.00	36.835	37.210
M 39	3.00	35.752	36.252
M 40	1.50	38.376	38.676
M 40	2.00	37.835	38.210
M 42	1.50	40.376	40.676
M 42	2.00	39.835	40.210
M 42	3.00	38.752	39.252
M 45	1.50	43.376	43.676
M 45	2.00	42.835	43.210
M 45	3.00	41.752	42.252
M 48	1.50	46.376	46.676
M 48	2.00	45.835	46.210
M 48	3.00	44.752	45.252
M 50	1.50	48.376	48.676
M 50	2.00	47.835	48.210
M 50	3.00	46.752	47.252
M 52	1.50	50.376	50.676
M 52	2.00	49.835	50.210
M 52	3.00	48.752	49.252

## Helical coil threads for inserts

**EG M** ISO metric coarse thread EG  
DIN 8140

	P	D1 in mm	
		min.	max.
EG M 2	0.40	2.087	2.177
EG M 2.5	0.45	2.597	2.697
EG M 3	0.50	3.108	3.220
EG M 3.5	0.60	3.630	3.755
EG M 4	0.70	4.152	4.292
EG M 5	0.80	5.174	5.344
EG M 6	1.00	6.217	6.407
EG M 7	1.00	7.217	7.407
EG M 8	1.25	8.217	8.483
EG M 9	1.25	9.217	9.583
EG M 10	1.50	10.324	10.560
EG M 11	1.50	11.324	11.560
EG M 12	1.75	12.379	12.644
EG M 14	2.00	14.433	14.733
EG M 16	2.50	16.433	16.733
EG M 18	2.50	18.541	18.986
EG M 20	2.50	20.541	20.896

**EG UNC** Unified coarse thread EG  
ASME B18.20.1 and BS 3409

	P	D1 in mm	
		min.	max.
EG UNC No1	64	1.941	2.090
EG UNC No2	56	2.297	2.441
EG UNC No3	48	2.631	2.804
EG UNC No4	40	2.985	3.180
EG UNC No5	40	3.315	3.487
EG UNC No6	32	3.678	3.879
EG UNC No8	32	4.338	4.524
EG UNC No10	24	5.055	5.283
EG UNC No12	24	5.715	5.944
EG UNC 1/4"	20	6.624	6.868
EG UNC 5/16"	18	8.242	8.489
EG UNC 3/8"	16	9.868	10.127
EG UNC 1/2"	14	11.506	11.783
EG UNC 5/8"	13	13.122	13.393
EG UNC 3/4"	12	14.747	15.032
EG UNC 7/8"	11	16.375	16.726
EG UNC 1"	10	18.999	19.509
EG UNC 1 1/8"	9	22.835	23.162
EG UNC 1 1/2"	8	26.688	26.489

**EG MF** ISO metric fine thread EG  
DIN 8140

	P	D1 in mm	
		min.	max.
EG M 8	1.00	8.217	8.407
EG M 10	1.00	10.217	10.407
EG M 10	1.25	10.217	10.483
EG M 12	1.00	12.217	12.407
EG M 12	1.25	12.217	12.483
EG M 12	1.50	12.234	12.560
EG M 14	1.25	14.271	14.483
EG M 14	1.50	14.324	14.560
EG M 16	1.50	16.324	16.560
EG M 18	1.50	18.324	18.560
EG M 20	1.50	20.324	20.560
EG M 22	1.50	22.324	22.560
EG M 24	1.50	24.324	24.560

**EG UNF** Unified fine thread EG  
ASME B18.20.1 and BS 3409

	P	D1 in mm	
		min.	max.
EG UNF No2	64	2.271	2.405
EG UNF No3	56	2.614	2.758
EG UNF No4	48	2.962	3.122
EG UNF No6	40	3.645	3.818
EG UNF No8	36	4.321	4.498
EG UNF No10	32	4.999	5.184
EG UNF 1/4"	28	6.546	6.721
EG UNF 5/16"	24	8.166	8.352
EG UNF 3/8"	24	9.754	9.931
EG UNF 1/2"	20	12.974	13.172
EG UNF 5/8"	18	14.592	14.798
EG UNF 3/4"	16	16.180	16.386
EG UNF 7/8"	14	22.619	22.845
EG UNF 1"	12	25.860	26.114

## Pipe threads

**G** British standard pipe thread  
DIN EN ISO 228

	P	D1 in mm	
		min.	max.
G 1/8"	28	8.566	8.948
G 1/4"	19	11.445	11.890
G 3/8"	19	14.950	15.395
G 1/2"	14	18.631	19.172
G 5/8"	14	20.587	21.128
G 3/4"	14	24.117	24.658
G 7/8"	14	27.877	28.418
G 1"	11	30.291	30.931
G 1 1/8"	11	34.939	35.579
G 1 1/4"	11	38.952	39.592
G 1 1/2"	11	44.845	45.485
G 1 3/4"	11	50.788	51.428
G 2"	11	56.656	57.296
G 2 1/4"	11	62.752	63.392
G 2 1/2"	11	72.226	72.866
G 2 3/4"	11	78.576	79.216
G 3"	11	84.926	85.566
G 3 1/2"	11	97.372	98.012
G 4"	11	110.072	110.712

**BSW** British standard Whitworth thread  
BS 84

	P	D1 in mm	
		min.	max.
BSW 1/8"	40	2.360	2.590
BSW 3/16"	24	3.406	3.740
BSW 1/4"	20	4.724	5.156
BSW 5/16"	18	6.121	6.589
BSW 3/8"	16	7.493	7.988
BSW 7/16"	14	8.791	9.332
BSW 1/2"	12	9.987	10.589
BSW 5/8"	11	12.918	13.559
BSW 3/4"	10	15.831	16.538
BSW 7/8"	9	18.613	19.355
BSW 1"	8	21.336	22.149
BSW 1 1/8"	7	23.927	24.831
BSW 1 1/4"	7	27.102	28.006
BSW 1 3/8"	6	29.558	30.555
BSW 1 1/2"	6	32.680	33.703
BSW 1 5/8"	5	34.844	35.921
BSW 1 3/4"	4.5	40.468	41.648
BSW 2"	4.5	45.571	46.877
BSW 2 1/4"	4	49.027	50.465
BSW 2 1/2"	4	55.367	56.815
BSW 2 3/4"	3.5	60.554	62.382
BSW 3"	3.5	66.904	68.532

**Rp** British standard pipe thread  
DIN EN ISO 228-1

	P	D1 in mm	
		min.	max.
Rp 1/8"	28	8.495	8.637
Rp 1/4"	19	11.341	11.549
Rp 3/8"	19	14.846	15.054
Rp 1/2"	14	18.489	18.773
Rp 3/4"	14	23.975	24.259
Rp 1"	11	30.111	30.471
Rp 1 1/4"	11	38.772	39.132
Rp 1 1/2"	11	44.665	45.025
Rp 2"	11	56.476	56.836

**BSF** British standard Whitworth fine thread  
BS 84

	P	D1 in mm	
		min.	max.
BSF 3/16"	32	3.745	4.006
BSF 7/32"	28	4.394	4.677
BSF 1/4"	26	5.099	5.396
BSF 5/16"	22	6.459	6.817
BSF 3/8"	20	7.900	8.331
BSF 7/16"	18	9.306	9.766
BSF 1/2"	16	10.667	11.162
BSF 5/8"	14	13.553	14.093
BSF 3/4"	12	16.340	16.941
BSF 7/8"	11	19.269	19.909
BSF 1"	10	22.148	22.834
BSF 1 1/8"	9	24.962	25.704
BSF 1 1/4"	9	28.137	28.879
BSF 1 3/8"	8	30.860	31.673
BSF 1 1/2"	8	34.035	34.848
BSF 1 5/8"	8	37.211	