

BORE HOLE DIAMETERS

Metric threads

M ISO metric coarse thread

P	D1 in mm	
	min.	max.
M 1	0.25	0.729
M 1.1	0.25	0.829
M 1.2	0.25	0.929
M 1.4	0.30	1.075
M 1.6	0.35	1.221
M 1.8	0.35	1.421
M 2	0.40	1.567
M 2.2	0.45	1.713
M 2.5	0.45	2.013
M 3	0.50	2.459
M 3.5	0.60	2.850
M 4	0.70	3.242
M 4.5	0.75	3.688
M 5	0.80	4.134
M 6	1.00	4.917
M 7	1.00	5.917
M 8	1.25	6.647
M 9	1.25	7.647
M 10	1.50	8.367
M 11	1.50	9.376
M 12	1.75	10.196
M 14	2.00	11.835
M 16	2.00	13.835
M 18	2.50	15.204
M 20	2.50	17.294
M 22	2.50	19.294
M 24	3.00	20.752
M 27	3.00	23.752
M 30	3.50	26.211
M 33	3.50	29.211
M 36	4.00	31.670
M 39	4.00	34.670
M 42	4.50	37.129
M 45	4.50	40.129
M 48	5.00	42.587
M 52	5.00	46.587
M 56	5.50	50.046
M 60	5.50	54.046
M 64	6.00	57.505
M 68	6.00	61.505

MF ISO metric fine thread

P	D1 in mm	
	min.	max.
M 2	0.25	1.729
M 2.2	0.25	1.929
M 2.5	0.35	2.121
M 3	0.35	2.621
M 3.5	0.35	3.121
M 4	0.50	3.459
M 5	0.50	4.459
M 6	0.50	5.459
M 6.5	0.75	5.188
M 8	0.75	7.188
M 8	1.00	6.917
M 10	0.75	9.188
M 10	1.25	8.647
M 12	0.75	11.188
M 12	1.00	10.917
M 12	1.25	10.647
M 14	1.00	12.917
M 14	1.25	12.647
M 14	1.50	12.376
M 16	1.00	14.917
M 16	1.50	14.376
M 18	1.00	16.917
M 18	1.50	16.376
M 18	2.00	15.835
M 20	1.00	18.917
M 20	1.50	18.376
M 20	2.00	17.835
M 22	1.00	20.917
M 22	1.50	20.376
M 22	2.00	19.835
M 24	1.00	22.917
M 24	1.50	22.376
M 24	2.00	21.835
M 26	1.00	24.917
M 26	1.50	24.376
M 27	1.50	25.376
M 27	2.00	24.835
M 28	1.50	26.376

MF ISO metric fine thread

P	D1 in mm	
	min.	max.
M 28	2.00	25.835
M 30	1.50	28.376
M 30	2.00	27.835
M 30	3.00	26.752
M 32	1.50	30.376
M 32	2.00	29.835
M 33	1.50	31.376
M 33	2.00	30.835
M 33	3.00	29.752
M 36	1.50	34.376
M 36	2.00	33.835
M 38	1.50	36.376
M 39	2.00	36.835
M 39	3.00	35.752
M 40	1.50	38.376
M 40	2.00	37.835
M 42	1.50	40.376
M 42	2.00	39.835
M 42	3.00	38.752
M 45	1.50	43.376
M 45	2.00	42.835
M 45	3.00	41.752
M 48	1.50	46.376
M 48	2.00	45.835
M 48	3.00	44.752
M 50	1.50	48.376
M 50	2.00	47.835
M 50	3.00	46.752
M 52	1.50	50.376
M 52	2.00	49.835
M 52	3.00	48.752

Helical coil threads for inserts

EG M ISO metric coarse thread EG

P	D1 in mm	
	min.	max.
EG M 2	0.40	2.087
EG M 2.5	0.45	2.597
EG M 3	0.50	3.108
EG M 3.5	0.60	3.630
EG M 4	0.70	4.152
EG M 5	0.80	5.174
EG M 6	1.00	6.217
EG M 7	1.00	7.217
EG M 8	1.25	8.217
EG M 9	1.25	9.217
EG M 10	1.50	10.324
EG M 11	1.50	11.324
EG M 12	1.75	12.379
EG M 14	2.00	14.433
EG M 16	2.00	16.433
EG M 18	2.50	18.541
EG M 20	2.50	20.541

EG UNC Unified coarse thread EG

P	D1 in mm	
	min.	max.
EG UNC No1	64	1.941
EG UNC No2	56	2.297
EG UNC No3	48	2.631
EG UNC No4	40	2.985
EG UNC No5	40	3.315
EG UNC No6	32	3.678
EG UNC No8	32	4.338
EG UNC No10	24	5.055
EG UNC No12	24	5.715
EG UNC 1/4"	20	6.624
EG UNC 1/8"	18	8.242
EG UNC 3/8"	16	9.868
EG UNC 1/2"	13	13.122
EG UNC 3/4"	12	17.477
EG UNC 5/8"	11	16.375
EG UNC 3/4"	10	19.599
EG UNC 7/8"	9	22.835
EG UNC 1"	8	26.088

EG MF ISO metric fine thread EG

P	D1 in mm	
	min.	max.
EG M 8	1.00	8.217
EG M 10	1.00	10.217
EG M 10	1.25	10.217
EG M 12	1.00	12.217
EG M 12	1.25	12.217
EG M 12	1.50	12.234
EG M 14	1.25	14.271
EG M 14	1.50	14.324
EG M 16	1.50	16.324
EG M 18	1.50	18.324
EG M 20	1.50	20.324
EG M 22	1.50	22.324
EG M 24	1.50	24.324

EG UNF Unified fine thread EG

P	D1 in mm	
	min.	max.
EG UNF No2	64	2.271
EG UNF No3	56	2.614
EG UNF No4	48	2.962
EG UNF No6	40	3.645
EG UNF No8	36	4.321
EG UNF No10	32	4.999
EG UNF 1/4"	28	6.546
EG UNF 1/8"	24	8.166
EG UNF 3/8"	24	9.754
EG UNF 1/2"	20	12.974
EG UNF 5/8"	18	16.592
EG UNF 3/4"	16	19.393
EG UNF 7/8"	14	22.619
EG UNF 1"	12	25.860

Pipe threads

G British standard pipe thread

P	D1 in mm	
	min.	max.
G 1/8"	28	8.566
G 1/4"	17	11.445
G 3/8"	14	14.950
G 1/2"	14	18.631
G 5/8"	14	20.587
G 3/4"	14	24.117
G 7/8"	14	27.877
G 1"	11	30.291
G 1 1/8"	11	34.939
G 1 1/4"	11	38.952
G 1 1/2"	11	44.845
G 1 3/4"	11	50.788
G 2"	11	56.656
G 2 1/4"	11	62.752
G 2 1/2"	11	72.226
G 2 3/4"	11	78.576
G 3"	11	84.926
G 3 1/2"	11	97.372
G 4"	11	110.072

BSW British standard Whitworth thread

P	D1 in mm	
	min.	max.
BSW 1/8"	40	2.360
BSW 3/16"	24	3.406
BSW 1/4"	20	4.724
BSW 5/16"	18	6.121
BSW 3/8"	16	7.493
BSW 7/16"	14	8.791
BSW 1/2"	12	9.987
BSW 5/8"	11	12.918
BSW 3/4"	10	15.831
BSW 7/8"	9	18.613
BSW 1"	8	21.336
BSW 1 1/8"	7	23.927
BSW 1 1/4"	7	27.102
BSW 1 3/8"	6	29.558
BSW 1 1/2"	6	32.680
BSW 1 5/8"	5	34.884
BSW 1 3/4"	5	37.943
BSW 1 7/8"	4.5	40.468
BSW 2"	4.5	43.571
BSW 2 1/4"	4	49.017
BSW 2 1/2"	4	55.367
BSW 2 3/4"	3.5	60.554
BSW 3"	3.5	66.904

Rp British standard pipe thread

P	D1 in mm	
	min.	max.
Rp 1/8"	28	8.495
Rp 1/4"	17	11.341
Rp 3/8"	14	14.846
Rp 1/2"	14	18.489
Rp 3/4"	14	23.975
Rp 1"	11	30.111
Rp 1 1/4"	11	38.772
Rp 1 1/2"	11	44.665
Rp 2"	11	56.476

BSF British standard Whitworth fine thread

P	D1 in mm	
	min.	max.
BSF 3/16"	32	3.745
BSF 7/32"	28	4.394
BSF 1/4"	26	5.099
BSF 5/16"	22	6.459
BSF 3/8"	20	7.900
BSF 7/16"	18	9.306
BSF 1/2"	16	10.667
BSF 5/8"	16	12.255
BSF 3/4"	12	16.340
BSF 7/8"	11	19.269
BSF 1"	10	22.148
BSF 1 1/8"	9	24.962
BSF 1 1/4"	9	28.137
BSF 1 3/8"	8	30.860
BSF 1 1/2"	8	34.035
BSF 1 5/8"	8	37.211

Rc Whitworth pipe thread tapered

P	D3 in mm		D4 in mm	GT	BT
	min.	max.			
Rc 1/8"	28	8.30	8.55	8.80	10.20
Rc 1/4"	19	11.10	11.40	11.80	15.70
Rc 3/8"	19	14.50	14.95	15.80	21.50
Rc 1/2"	14	18.00	18.60	19.70	26.00
Rc 3/4"	14	23.50	24.10	24.90	28.80
Rc 1"	11	29.75	30.25	31.20	33.00
Rc 1 1/4"	11	38.25	38.90	39.50	40.00
Rc 1 1/2"	11	44.00	44.80	45.00	46.00
Rc 2"	11	55.56	56.62	57.30	58.00

American pipe threads tapered

NPT American standard taper pipe thread

P	D3 in mm		D4 in mm	GT	BT
	min.	max.			
NPT 1/16"	27	6.15	6.39	9.70	12.10
NPT 1/8"	27	8.40	8.74	9.70	12.10
NPT 1/4"	18	11.10	11.36	14.30	17.50
NPT 3/8"	18	14.30	14.84	16.60	17.70
NPT 1/2"	14	17.90	18.32	19.00	23.00
NPT 3/4"	14	23.20	23.67	19.50	23.00
NPT 1"	11.5	29.00	29.69	23.40	27.40
NPT 1 1/4"	11.5	37.70	38.45	23.90	28.00
NPT 1 1/2"	11.5	44.00	44.52	23.90	28.40
NPT 2"	11.5	56.00	56.56	24.30	28.40

NPTF American standard taper pipe thread

P	D3 in mm		D4 in mm	GT	BT
	min.	max.			
NPTF 1/16"	27	6.10	6.41	9.70	12.10
NPTF 1/8"	27	8.40	8.76	9.70	12.10
NPTF 1/4"	18	11.00	11.40	14.30	17.50
NPTF 3/8"	18	14.30	14.84	16.60	17.70
NPTF 1/2"	14	17.60	18.33	19.00	23.00
NPTF 3/4"	14	23.00	23.68	19.50	23.00
NPTF 1"	11.5	29.00	29.73	23.40	27.40
NPTF 1 1/4"	11.5	37.50	38.48	23.90	28.00
NPTF 1 1/2"	11.5	43.50	44.55	23.90	28.40
NPTF 2"	11.5	56.00	56.59	24.30	28.40

American standard straight pipe threads

NPSM American standard straight pipe thread

P	D1 in mm	
	min.	max.