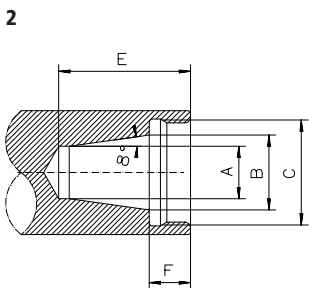
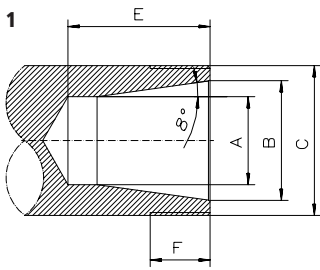


## ER COLLET CAVITY DIMENSIONS

■ DIMENSIONS FOR COLLET CAVITIES IN MACHINE SPINDLES AND MATCHING CLAMPING NUTS

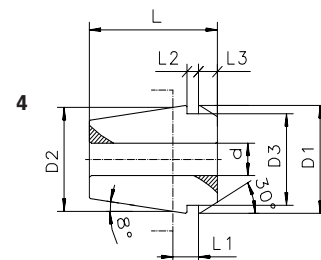
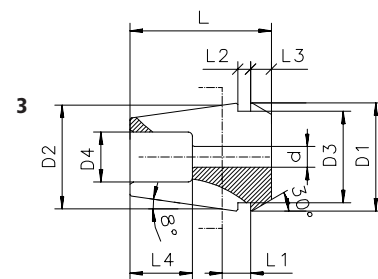
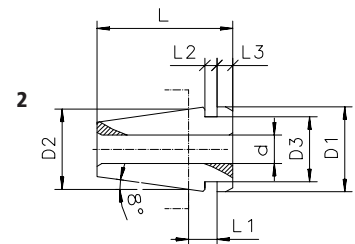
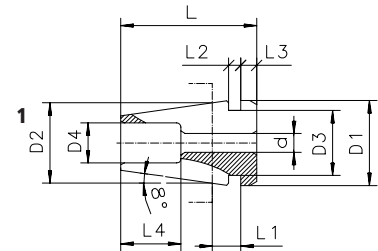


Size	Clamping Range	Hi-Q/ER	Hi-Q/ERC	Hi-Q/ERB	Hi-Q/ERBC	Hi-Q/ERM	Hi-Q/ERMC	ERMS	ER AX	ER AXC	A [mm]	B [mm]	C [mm]	E [mm]	F [mm]	Drawing
ER 11	0.5 ... 7.0	✓	✓								7.5	11	M14x0.75	17.0	10.0	1
ER 16	0.5 ... 10.0	✓	✓	✓	✓						10.5	16	M22x1.50	22.0	13.0	1
ER 20	0.5 ... 13.0	✓	✓	✓	✓						13.5	20	M25x1.50	26.5	13.5	1
ER 25	0.5 ... 16.0	✓	✓	✓	✓						18.0	25	M32x1.50	29.0	14.0	1
ER 32	1.0 ... 20.0	✓	✓	✓	✓						23.5	32	M40x1.50	34.0	16.0	1
ER 40	2.0 ... 30.0	✓	✓	✓	✓						30.5	40	M50x1.50	38.0	17.0	1
ER 50	4.0 ... 34.0	✓	✓	✓	✓						38.0	50	M64x2.00	48.0	24.0	1
ER 8	0.5 ... 5.0					✓		✓			5.2	8	M10x0.75	13.0	8.0	1
ER 11	0.5 ... 7.0					✓	✓	✓			7.5	11	M13x0.75	17.0	8.5	1
ER 16	0.5 ... 10.0					✓	✓	✓			10.5	16	M19x1.00	22.0	13.0	1
ER 20	0.5 ... 13.0					✓	✓	✓			13.5	20	M24x1.00	26.5	13.5	1
ER 25	0.5 ... 16.0					✓	✓	✓			18.0	25	M30x1.00	29.0	14.0	1
ER 11	0.5 ... 7.0								✓		7.5	11	M18x1.00	23.0	7.0	2
ER 16	0.5 ... 10.0								✓	✓	10.5	16	M24x1.00	32.0	10.0	2
ER 20	0.5 ... 13.0								✓	✓	13.5	20	M28x1.50	37.5	11.0	2
ER 25	0.5 ... 16.0								✓	✓	18.0	25	M32x1.50	41.0	12.0	2
ER 32	1.0 ... 20.0								✓	✓	23.5	32	M40x1.50	48.0	14.0	2
ER 40	2.0 ... 30.0								✓	✓	30.5	40	M50x1.50	54	16	2

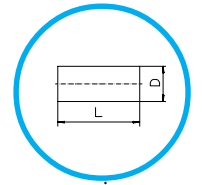
# ER-COLLETS

■ COLLETS TYPE ER PER DIN STD 6499-B

Size	d [mm]	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	Drawing
ER 8	0.5 ... 2.5	8.5	8.0	6.5	4.0	13.6	2.98	1.2	1.5	6.0	1
ER 8	3.0 ... 5.0	8.5	8.0	6.5	–	13.6	2.98	1.2	1.5	–	2
ER 11	0.5 ... 2.5	11.5	11.0	9.5	5.0	18.0	3.80	2.0	2.5	9.0	3
ER 11	3.0 ... 7.0	11.5	11.0	9.5	–	18.0	3.80	2.0	2.5	–	4
ER 16	0.5 ... 4.5	17.0	16.0	13.8	7.5	27.5	6.26	2.7	4.0	10.0	3
ER 16	5.0 ... 10.0	17.0	16.0	13.8	–	27.5	6.26	2.7	4.0	–	4
ER 20	0.5 ... 6.5	21.0	20.0	17.4	9.0	31.5	6.36	2.8	4.8	13.0	3
ER 20	7.0 ... 13.0	21.0	20.0	17.4	–	31.5	6.36	2.8	4.8	–	4
ER 25	0.5 ... 7.5	26.0	25.0	22.0	12.0	34.0	6.66	3.1	5.0	15.0	3
ER 25	8.0 ... 16.0	26.0	25.0	22.0	–	34.0	6.66	3.1	5.0	–	4
ER 32	1.0 ... 3.5	33.0	32.0	29.2	15.0	40.0	7.16	3.6	5.5	20.0	3
ER 32	4.0 ... 7.5	33.0	32.0	29.2	15.0	40.0	7.16	3.6	5.5	15.0	3
ER 32	8.0 ... 20.0	33.0	32.0	29.2	–	40.0	7.16	3.6	5.5	–	4
ER 40	2.0 ... 3.5	41.0	40	36.2	20.0	46.0	7.66	4.1	7.0	21.0	3
ER 40	4.0 ... 8.5	41.0	40	36.2	20.0	46.0	7.66	4.1	7.0	18.0	3
ER 40	9.0 ... 30.0	41.0	40	36.2	–	46.0	7.66	4.1	7.0	–	4
ER 50	4.0 ... 10.0	52.0	50	46.0	20.0	60.0	12.60	5.5	8.5	32.0	3
ER 50	12.0 ... 34.0	52.0	50	46.0	–	60.0	12.60	5.5	8.5	–	4

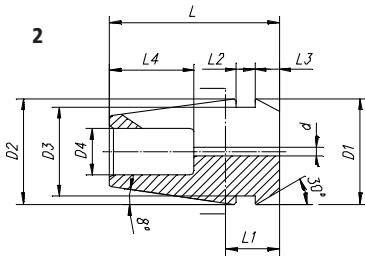
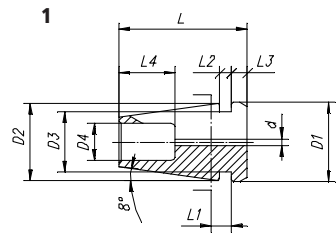


All ER collets per DIN STD 6499-B have a clamping range!



## ER-MB

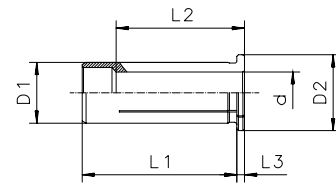
### ER-MB MICROBORE COLLETS



Size	d [mm]	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	Drawing
ER 8-MB	0.2 ... 0.9	8.5	8.0	6.5	4.0	13.5	1.2	1.2	1.5	6.0	1
ER 11-MB	0.2 ... 0.9	11.5	11.0	9.5	5.0	18.0	2.0	2.0	2.5	9.0	2

**The collets type ER-MB per DIN 6499 are only available in the above mentioned types. They have no multiple clamping capacity. Only the nominal diameter h7 can be clamped!**

HS

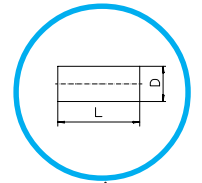


■ HS REDUCTION SLEEVES

Type	d [mm]	d ["]	D1 [mm]	D2 [mm]	L1 [mm]	L2 [mm]	L3 [mm]
<i>HS 12</i>							
HS 12 / Ø 3.00	3.000		12	16	40	29	4.0
HS 12 / Ø 1/8"	3.175	1/8"	12	16	40	29	4.0
HS 12 / Ø 4.00	4.000		12	16	40	29	4.0
HS 12 / Ø 3/16"	4.763	3/16"	12	16	40	29	4.0
HS 12 / Ø 5.00	5.000		12	16	40	29	4.0
HS 12 / Ø 6.00	6.000		12	16	40	36	4.0
HS 12 / Ø 1/4"	6.350	1/4"	12	16	40	36	4.0
HS 12 / Ø 7.00	7.000		12	16	40	37	4.0
HS 12 / Ø 5/16"	7.938	5/16"	12	16	40	37	4.0
HS 12 / Ø 8.00	8.000		12	16	40	37	4.0
HS 12 / Ø 9.00	9.000		12	16	40	37	4.0
HS 12 / Ø 3/8"	9.525	3/8"	12	16	40	40	4.0
HS 12 / Ø 10.00	10.000		12	16	40	40	4.0
<i>HS 20</i>							
HS 20 / Ø 3.00	3.000		20	25	50	28	4.0
HS 20 / Ø 1/8"	3.175	1/8"	20	25	50	28	4.0
HS 20 / Ø 4.00	4.000		20	25	50	28	4.0
HS 20 / Ø 3/16"	4.763	3/16"	20	25	50	28	4.0
HS 20 / Ø 5.00	5.000		20	25	50	28	4.0
HS 20 / Ø 6.00	6.000		20	25	50	36	4.0
HS 20 / Ø 1/4"	6.350	1/4"	20	25	50	36	4.0
HS 20 / Ø 7.00	7.000		20	25	50	38	4.0
HS 20 / Ø 5/16"	7.938	5/16"	20	25	50	37	4.0
HS 20 / Ø 8.00	8.000		20	25	50	37	4.0
HS 20 / Ø 9.00	9.000		20	25	50	38	4.0
HS 20 / Ø 3/8"	9.525	3/8"	20	25	50	38	4.0
HS 20 / Ø 10.00	10.000		20	25	50	40	4.0
HS 20 / Ø 11.00	11.000		20	25	50	40	4.0
HS 20 / Ø 12.00	12.000		20	25	50	45	4.0
HS 20 / Ø 1/2"	12.700	1/2"	20	25	50	45	4.0
HS 20 / Ø 13.00	13.000		20	25	50	45	4.0
HS 20 / Ø 14.00	14.000		20	25	50	45	4.0
HS 20 / Ø 15.00	15.000		20	25	50	45	4.0
HS 20 / Ø 5/8"	15.875	5/8"	20	25	50	48	4.0
HS 20 / Ø 16.00	16.000		20	25	50	48	4.0

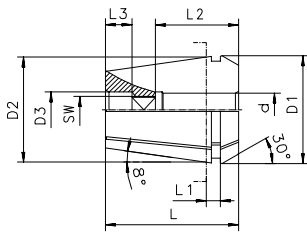
Type	d [mm]	d ["]	D1 [mm]	D2 [mm]	L1 [mm]	L2 [mm]	L3 [mm]
<i>HS 25</i>							
HS 25 / Ø 3.00	3.000		25	30	56	29	4.0
HS 25 / Ø 1/8"	3.175	1/8"	25	30	56	29	4.0
HS 25 / Ø 4.00	4.000		25	30	56	29	4.0
HS 25 / Ø 3/16"	4.763	3/16"	25	30	56	29	4.0
HS 25 / Ø 5.00	5.000		25	30	56	29	4.0
HS 25 / Ø 6.00	6.000		25	30	56	37	4.0
HS 25 / Ø 1/4"	6.350	1/4"	25	30	56	37	4.0
HS 25 / Ø 7.00	7.000		25	30	56	37	4.0
HS 25 / Ø 5/16"	7.938	5/16"	25	30	56	37	4.0
HS 25 / Ø 8.00	8.000		25	30	56	37	4.0
HS 25 / Ø 9.00	9.000		25	30	56	38	4.0
HS 25 / Ø 3/8"	9.525	3/8"	25	30	56	38	4.0
HS 25 / Ø 10.00	10.000		25	30	56	40	4.0
HS 25 / Ø 12.00	12.000		25	30	56	46	4.0
HS 25 / Ø 1/2"	12.700	1/2"	25	30	56	46	4.0
HS 25 / Ø 14.00	14.000		25	30	56	47	4.0
HS 25 / Ø 5/8"	15.875	5/8"	25	30	56	48	4.0
HS 25 / Ø 16.00	16.000		25	30	56	48	4.0
HS 25 / Ø 18.00	18.000		25	30	56	48	4.0
HS 25 / Ø 3/4"	19.050	3/4"	25	30	56	48	4.0
HS 25 / Ø 20.00	20.000		25	30	56	50	4.0
<i>HS 32</i>							
HS 32 / Ø 6.00	6.000		32	36	60	36	4.0
HS 32 / Ø 1/4"	6.350	1/4"	32	36	60	36	4.0
HS 32 / Ø 7.00	7.000		32	36	60	37	4.0
HS 32 / Ø 5/16"	7.938	5/16"	32	36	60	36	4.0
HS 32 / Ø 8.00	8.000		32	36	60	36	4.0
HS 32 / Ø 9.00	9.000		32	36	60	37	4.0
HS 32 / Ø 3/8"	9.525	3/8"	32	36	60	37	4.0
HS 32 / Ø 10.00	10.000		32	36	60	40	4.0
HS 32 / Ø 11.00	11.000		32	36	60	40	4.0
HS 32 / Ø 12.00	12.000		32	36	60	45	4.0
HS 32 / Ø 1/2"	12.700	1/2"	32	36	60	45	4.0
HS 32 / Ø 13.00	13.000		32	36	60	45	4.0
HS 32 / Ø 14.00	14.000		32	36	60	46	4.0
HS 32 / Ø 15.00	15.000		32	36	60	46	4.0
HS 32 / Ø 5/8"	15.875	5/8"	32	36	60	46	4.0
HS 32 / Ø 16.00	16.000		32	36	60	48	4.0
HS 32 / Ø 17.00	17.000		32	36	60	48	4.0
HS 32 / Ø 18.00	18.000		32	36	60	49	4.0
HS 32 / Ø 19.00	19.000		32	36	60	49	4.0
HS 32 / Ø 3/4"	19.050	3/4"	32	36	60	50	4.0
HS 32 / Ø 20.00	20.000		32	36	60	50	4.0
HS 32 / Ø 22.00	22.000		32	36	60	50	4.0
HS 32 / Ø 25.00	25.000		32	36	60	56	4.0
HS 32 / Ø 1"	25.400	1"	32	36	60	56	4.0

The above mentioned dimensions reflect the newest DIN 69882-7 recommendation. There may be differences in the actual dimensions of HS reductions sleeves of previous production runs. Differences are in the length L1 of HS12 of 44 mm instead of the 40 mm and L1 of HS20 of 51 mm instead of 50 mm as mentioned in above tables. Other possible differences are the head thickness L3 of HS12 of 2.0 mm, HS20 of 2.5 mm and HS32 of 3.0 mm instead of the 4.0 mm.



## ER-GB

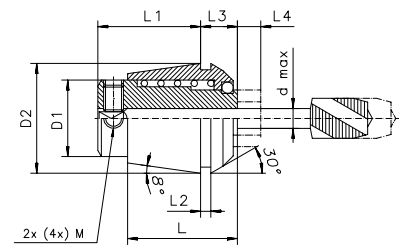
### ER-GB TAPPING COLLETS PER DIN STD 6499



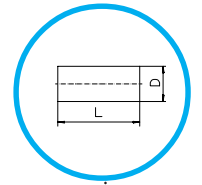
d [mm]	SW [mm]	L2 [mm]	D3 [mm]	ER 11- GB	ER 16- GB	ER 20- GB	ER 25- GB	ER 32- GB	ER 40- GB
				L [mm]	L1 [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]
2.8	2.1	12	-	-	-	-	-	-	-
3.5	2.7	14	-	-	-	-	-	-	-
4.0	3.0	14	-	-	-	-	-	-	-
4.0	3.15/3.2	18	4.5	-	5.5	9.5	12	18	-
4.5	3.4	ER 11=14 ER 16-32=18	ER 11=- ER 16-32=5.0	-	5.5	9.5	12	18	-
5.0	4.0	18	5.5	-	5.5	9.5	12	18	-
5.5	4.3	18	6.0	-	5.5	9.5	12	18	-
5.5	4.5	18	6.0	-	5.5	9.5	12	18	-
6.0	4.5	18	6.5	-	4.5	8.5	11	18	23
6.0	4.9	ER 11=14 ER 16-40=18	ER 11=- ER 16-40=6.5	-	4.5	8.5	11	17	23
6.2	5.0	18	6.7	-	4.5	8.5	11	17	23
6.3	5.0	18	6.8	-	4.5	8.5	11	17	23
7.0	5.5	18	7.5	-	3.5	7.5	10	16	22
7.1	5.6	18	7.6	-	3.5	7.5	10	16	22
8.0	6.2/6.3	22	8.6	-	-	2.5	5	11	17
8.5	6.5	22	9.0	-	-	2.5	5	11	17
9.0	7.0/7.1	22	9.6	-	-	2.5	4	10	16
10.0	8.0	25	10.5	-	-	-	-	7	13
10.5	8.0	25	11.0	-	-	-	-	7	13
11.0	9.0	25	11.5	-	-	-	-	6	12
11.2	9.0	25	11.7	-	-	-	-	6	12
12.0	9.0	25	12.5	-	-	-	-	6	12
12.5	10.0	25	13.0	-	-	-	-	5	11
14.0	11.0/11.2	25	14.7	-	-	-	-	4	10
15.0	12.0	25	15.5	-	-	-	-	4	10
16.0	12.0	25	16.5	-	-	-	-	3	9
17.0	13.0	25	17.5	-	-	-	-	3	9
18.0	14.5	25	18.5	-	-	-	-	3	8
20.0	16.0	28	20.5	-	-	-	-	3	4
22.0	18.0	28	22.5	-	-	-	-	-	4

*ET1*

■ *PCM ET1 TAPPING COLLETS PER DIN STD 6499*

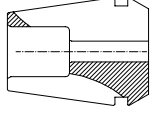
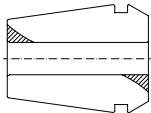


Type	Range	d [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	M [mm]
ET1-12	M 0.5 ... M 4	3.55	7	11.5	18	16.5	2.5	5	5.5	2 x M 2.5
ET1-16	M 0.7 ... M 6	6.30	11	17.0	22	20.0	2.8	7	7.0	2 x M 4 4 x M 4
ET1-20	M 1 ... M 8 (M 10)	7.10	14	21.0	24	23.0	2.8	8	7	2 x M 4 4 x M 4 4 x M 5
ET1-25	M 1 ... M 10 (M 12)	10.00	19	26.0	26	24.0	3.0	10	8.0	2 x M 5 4 x M 5 4 x M 6
ET1-32	M 4 ... M 12 (M 16)	12.50	23	33.0	33	32.0	3.0	11	10.0	2 x M 5 4 x M 5 4 x M 6 4 x M 8
ET1-40	M 6 ... M 16 (M 20)	17.00	28	41.0	42	42.0	3.0	12	13.0	4 x M 6 4 x M 6



## COLLET CLASSIFICATION

### ■ CLASSIFICATION OF COLLETS

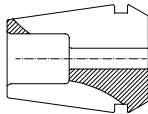
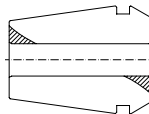
	Collets with Counter Bore [mm]	Collets without Counter Bore [mm]
<b>Collet Types</b>		
ER 8	Ø 1.0 ... 2.5	Ø 3.0 ... 5.0
ER 11	Ø 1.0 ... 2.5	Ø 3.0 ... 7.0
ER 16	Ø 1.0 ... 4.5	Ø 5.0 ... 10.0
ER 20	Ø 1.0 ... 6.5	Ø 7.0 ... 13.0
ER 25	Ø 1.0 ... 7.5	Ø 8.0 ... 16.0
ER 32	Ø 2.0 ... 7.5	Ø 8.0 ... 20.0
ER 40	Ø 3.0 ... 8.5	Ø 9.0 ... 26.0
ER 50	Ø 4.0 ... 10.0	Ø 12.0 ... 34.0
ER-GB 11-40	all Ø	–
ER-MB 8-11	all Ø	–

**Please note that the smaller the bore (i.d.) the lower the tightening torque necessary to hold the tool securely!**

The collets are divided into two categories, long bore and short bore. Please select the appropriate symbol based on collet type (e.g. ER16) and clamping diameter from the table above. Then read the appropriate tightening torque from the table on page 13- 8 under this symbol and the respective clamping nut type.

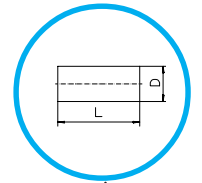
# CLAMPING NUTS TIGHTENING TORQUE

■ **MAXIMUM TIGHTENING TORQUE**

Clamping Nut Types	Collets with Counter Bore	Collets Without Counter Bore
		
Hi-Q/ER und Hi-Q/ERC 11	18 Nm	30 Nm
Hi-Q/ER und Hi-Q/ERC 16	50 Nm	70 Nm
Hi-Q/ER und Hi-Q/ERC 20	40 Nm	100 Nm
Hi-Q/ER und Hi-Q/ERC 25	130 Nm	130 Nm
Hi-Q/ER und Hi-Q/ERC 32	170 Nm	170 Nm
Hi-Q/ER und Hi-Q/ERC 40	220 Nm	220 Nm
Hi-Q/ER 50	300 Nm	300 Nm
Hi-Q/ERB und Hi-Q/ERBC 16	50 Nm	70 Nm
Hi-Q/ERB und Hi-Q/ERBC 20	30 Nm	100 Nm
Hi-Q/ERB und Hi-Q/ERBC 25	90 Nm	130 Nm
Hi-Q/ERB und Hi-Q/ERBC 32	130 Nm	170 Nm
Hi-Q/ERB und Hi-Q/ERBC 40	220 Nm	220 Nm
Hi-Q/ERB 50	300 Nm	300 Nm
Hi-Q/ERM 8	6 Nm	6 Nm
Hi-Q/ERM und Hi-Q/ERMC 11	15 Nm	20 Nm
Hi-Q/ERM und Hi-Q/ERMC 16	30 Nm	30 Nm
Hi-Q/ERM und Hi-Q/ERMC 20	35 Nm	35 Nm
Hi-Q/ERM und Hi-Q/ERMC 25	40 Nm	40 Nm

The tightening torques in this table have been derived from test data collected in our labs on REGO-FIX® ER tooling systems. Caution: Higher tightening torques may permanently deform the collet cavity of the toolholder. We recommend to use a tightening torque of 80% of the maximum tightening torque given in this table.





## DIMENSIONS OF TAPS

### SHANK DIAMETER OF TAPS

Thread		ISO 529		ISO 2283		DIN 371		DIN 357 DIN 376		DIN 352		JIS B 4430 1998		ASME B 94.9 1999	
[mm]	[inch]	[Ø]	[□]	[Ø]	[□]	[Ø]	[□]	[Ø]	[□]	[Ø]	[□]	[Ø]	[□]	[Ø]	[□]
M 1.0		2.50	2.00	–	–	2.50	2.10	–	–	2.50	2.10	3.00	2.50	–	–
M 1.1		2.50	2.00	–	–	2.50	2.10	–	–	2.50	2.10	3.00	2.50	–	–
M 1.2		2.50	2.00	–	–	2.50	2.10	–	–	2.50	2.10	3.00	2.50	–	–
M 1.4	1/16	2.50	2.00	–	–	2.50	2.10	–	–	2.50	2.10	3.00	2.50	–	–
M 1.6		2.50	2.00	–	–	2.50	2.10	–	–	2.50	2.10	3.00	2.50	0.141	0.110
M 1.7		–	–	–	–	2.50	2.10	–	–	2.50	2.10	3.00	2.50	–	–
M 1.8		2.50	2.00	–	–	2.50	2.10	–	–	2.50	2.10	3.00	2.50	0.141	0.110
M 2.0		2.50	2.00	–	–	2.80	2.10	–	–	2.80	2.10	3.00	2.50	0.141	0.110
M 2.2		2.80	2.24	–	–	2.80	2.10	–	–	2.80	2.10	3.00	2.50	0.141	0.110
M 2.3	3/32	–	–	–	–	2.80	2.10	–	–	2.80	2.10	3.00	2.50	–	–
M 2.5		2.80	2.24	–	–	2.80	2.10	–	–	2.80	2.10	3.00	2.50	0.141	0.110
M 2.6		–	–	–	–	2.80	2.10	–	–	2.80	2.10	3.00	2.50	–	–
M 3.0	1/8	3.15	2.50	2.24	1.80	3.50	2.70	2.20	–	3.50	2.70	4.00	3.20	0.141	0.110
M 3.5		3.55	2.80	2.50	2.00	4.00	3.00	2.50	2.10	4.00	3.00	4.00	3.20	0.141	0.110
M 4.0	5/32	4.00	3.15	3.15	2.50	4.50	3.40	2.80	2.10	4.50	3.40	5.00	4.00	0.168	0.131
M 4.5	3/16	4.50	3.55	3.55	2.80	6.00	4.90	3.50	2.70	6.00	4.90	5.00	4.00	0.194	0.152
M 5.0		5.00	4.00	4.00	3.15	6.00	4.90	3.50	2.70	6.00	4.90	5.50	4.50	0.194	0.152
M 6.0	1/4	6.30	5.00	4.50	3.55	6.00	4.90	4.50	3.40	6.00	4.90	6.00	4.50	0.255	0.191
M 7.0	5/16	7.10	5.60	5.60	4.50	7.00	5.50	5.50	4.30	6.00	4.90	6.20	5.00	0.318	0.238
M 8.0		8.00	6.30	6.30	5.00	8.00	6.20	6.00	4.90	6.00	4.90	6.20	5.00	0.318	0.238
M 9.0	3/8	9.00	7.10	7.10	5.60	9.00	7.00	7.00	5.50	7.00	5.50	7.00	5.50	–	–
M 10.0		10.00	8.00	8.00	6.30	10.00	8.00	7.00	5.50	7.00	5.50	7.00	5.50	0.381	0.286
M 11.0		8.00	6.30	8.00	6.30	–	–	8.00	6.20	8.00	6.20	8.00	6.00	–	–
M 12.0	1/2	9.00	7.10	9.00	7.10	–	–	9.00	7.00	9.00	7.00	8.50	6.50	0.367	0.275
M 14.0	9/16	11.20	9.00	11.20	9.00	–	–	11.00	9.00	11.00	9.00	10.50	8.00	0.429	0.322
M 16.0	5/8	12.50	10.00	12.50	10.00	–	–	12.00	9.00	12.00	9.00	12.50	10.00	0.480	0.360
M 18.0	11/16	14.00	11.20	14.00	11.20	–	–	14.00	11.00	14.00	11.00	14.00	11.00	0.542	0.406
M 20.0	13/16	14.00	11.20	14.00	11.20	–	–	16.00	12.00	16.00	12.00	15.00	12.00	0.652	0.489
M 22.0	7/8	16.00	12.50	16.00	12.50	–	–	18.00	14.50	18.00	14.50	17.00	13.00	0.697	0.523
M 24.0	15/16	18.00	14.00	18.00	14.00	–	–	18.00	14.50	18.00	14.50	19.00	15.00	0.760	0.570
M 27.0	11/16	20.00	16.00	–	–	–	–	20.00	16.00	20.00	16.00	20.00	15.00	0.896	0.672
M 30.0	13/16	20.00	16.00	–	–	–	–	22.00	18.00	22.00	18.00	23.00	17.00	1.021	0.766