

| Thread Size<br>D     |                  | M1.6 | M2   | M2.5 | M3   | (M3.5) | M4   | M5   | M6    | M8    | M10   | M12   | (M14) | M16   | (M18) | M20   |
|----------------------|------------------|------|------|------|------|--------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>P</b>             | Pitch            | 0.35 | 0.40 | 0.45 | 0.50 | 0.60   | 0.70 | 0.80 | 1.00  | 1.25  | 1.50  | 1.75  | 2.00  | 2.00  | 2.50  | 2.50  |
| <b>c</b>             | max              | 0.20 | 0.20 | 0.30 | 0.40 | 0.40   | 0.40 | 0.50 | 0.50  | 0.60  | 0.60  | 0.60  | 0.60  | 0.80  | 0.80  | 0.80  |
|                      | min              | 0.10 | 0.10 | 0.10 | 0.15 | 0.15   | 0.15 | 0.15 | 0.15  | 0.15  | 0.15  | 0.15  | 0.15  | 0.20  | 0.20  | 0.20  |
| <b>d<sub>a</sub></b> | max              | 1.84 | 2.30 | 2.90 | 3.45 | 4.00   | 4.60 | 5.75 | 6.75  | 8.75  | 10.80 | 13.00 | 15.10 | 17.30 | 19.50 | 21.60 |
|                      | min              | 1.60 | 2.00 | 2.50 | 3.00 | 3.50   | 4.00 | 5.00 | 6.00  | 8.00  | 10.00 | 12.00 | 14.00 | 16.00 | 18.00 | 20.00 |
| <b>d<sub>w</sub></b> | min              | 2.40 | 3.10 | 4.10 | 4.60 | 5.00   | 5.90 | 6.90 | 8.90  | 11.60 | 14.60 | 16.60 | 19.60 | 22.50 | 24.90 | 27.70 |
| <b>e</b>             | min              | 3.41 | 4.32 | 5.45 | 6.01 | 6.58   | 7.66 | 8.79 | 11.05 | 14.38 | 17.77 | 20.03 | 23.35 | 26.75 | 29.56 | 32.95 |
| <b>m</b>             | max              | 1.30 | 1.60 | 2.00 | 2.40 | 2.80   | 3.20 | 4.70 | 5.20  | 6.80  | 8.40  | 10.80 | 12.80 | 14.80 | 15.80 | 18.00 |
|                      | min              | 1.05 | 1.35 | 1.75 | 2.15 | 2.55   | 2.90 | 4.40 | 4.90  | 6.44  | 8.04  | 10.37 | 12.10 | 14.10 | 15.10 | 16.90 |
| <b>m<sub>1</sub></b> | min              | 0.80 | 1.10 | 1.40 | 1.70 | 2.00   | 2.30 | 3.50 | 3.90  | 5.20  | 6.40  | 8.30  | 9.70  | 11.30 | 12.10 | 13.50 |
| <b>m<sub>2</sub></b> | min              | 0.70 | 1.00 | 1.20 | 1.50 | 1.80   | 2.00 | 3.10 | 3.40  | 4.50  | 5.60  | 7.30  | 8.50  | 9.90  | 10.60 | 11.80 |
| <b>s</b>             | max=nominal size | 3.20 | 4.00 | 5.00 | 5.50 | 6.00   | 7.00 | 8.00 | 10.00 | 13.00 | 16.00 | 18.00 | 21.00 | 24.00 | 27.00 | 30.00 |
|                      | min              | 3.02 | 3.82 | 4.82 | 5.32 | 5.82   | 6.78 | 7.78 | 9.78  | 12.73 | 15.73 | 17.73 | 20.67 | 23.67 | 26.16 | 29.16 |

| Thread Size<br>D     |                  | (M22) | M24   | (M27) | M30   | (M33) | M36   | (M39) | M42   | (M45) | M48   | (M52) | M56   | (M60) | M64    |
|----------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| <b>P</b>             | Pitch            | 2.50  | 3.00  | 3.00  | 3.50  | 3.50  | 4.00  | 4.00  | 4.50  | 4.50  | 5.00  | 5.00  | 5.50  | 5.50  | 6.00   |
| <b>c</b>             | max              | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   |
|                      | min              | 0.20  | 0.20  | 0.20  | 0.20  | 0.20  | 0.20  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30   |
| <b>d<sub>a</sub></b> | max              | 23.70 | 25.90 | 29.10 | 32.40 | 35.60 | 38.90 | 42.10 | 45.40 | 48.60 | 51.80 | 56.20 | 60.50 | 64.80 | 69.10  |
|                      | min              | 22.00 | 24.00 | 27.00 | 30.00 | 33.00 | 36.00 | 39.00 | 42.00 | 45.00 | 48.00 | 52.00 | 56.00 | 60.00 | 64.00  |
| <b>d<sub>w</sub></b> | min              | 31.40 | 33.30 | 38.00 | 42.80 | 46.60 | 51.10 | 55.90 | 60.00 | 64.70 | 69.50 | 74.20 | 78.70 | 83.40 | 88.20  |
| <b>e</b>             | min              | 37.29 | 39.55 | 45.20 | 50.85 | 55.37 | 60.79 | 66.44 | 71.30 | 76.95 | 82.60 | 88.25 | 93.56 | 99.21 | 104.86 |
| <b>m</b>             | max              | 19.40 | 21.50 | 23.80 | 25.60 | 28.70 | 31.00 | 33.40 | 34.00 | 36.00 | 38.00 | 42.00 | 45.00 | 48.00 | 51.00  |
|                      | min              | 18;1  | 20.20 | 22.50 | 24.30 | 27.40 | 29.40 | 31.80 | 32.40 | 34.40 | 36.40 | 40.40 | 43.40 | 46.40 | 49.10  |
| <b>m<sub>1</sub></b> | min              | 14.50 | 16.20 | 18.00 | 19.40 | 21.90 | 23.50 | 25.40 | 25.90 | 27.50 | 29.10 | 32.30 | 34.70 | 37.10 | 39.30  |
| <b>m<sub>2</sub></b> | min              | 12.70 | 14.10 | 15.80 | 17.00 | 19.20 | 20.60 | 22.30 | 22.70 | 24.10 | 25.50 | 28.30 | 30.40 | 32.50 | 34.40  |
| <b>s</b>             | max=nominal size | 34.00 | 36.00 | 41.00 | 46.00 | 50.00 | 55.00 | 60.00 | 65.00 | 70.00 | 75.00 | 80.00 | 85.00 | 90.00 | 95.00  |
|                      | min              | 33.00 | 35.00 | 40.00 | 45.00 | 49.00 | 53.80 | 58.80 | 63.10 | 68.10 | 73.10 | 78.10 | 82.80 | 87.80 | 92.80  |