

| Thread Size<br>d |                  | M12   | M16   | M20   | M22   | M24   | M27   | M30   | M36   |
|------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>P</b>         | Pitch            | 1.75  | 2     | 2.5   | 2.5   | 3     | 3     | 3.5   | 4     |
| <b>ds</b>        | Nominal Size     | 12    | 16    | 20    | 22    | 24    | 27    | 30    | 36    |
|                  | max              | 12.7  | 16.7  | 20.84 | 22.84 | 24.84 | 27.84 | 30.84 | 37    |
|                  | min              | 11.3  | 15.3  | 19.16 | 21.16 | 23.16 | 26.16 | 29.16 | 35    |
| <b>e</b>         | min              | 23.91 | 29.56 | 35.03 | 39.55 | 45.2  | 50.85 | 55.37 | 66.44 |
| <b>k</b>         | Nominal Size     | 8     | 10    | 13    | 14    | 15    | 17    | 19    | 23    |
|                  | max              | 8.45  | 10.75 | 13.9  | 14.9  | 15.9  | 17.9  | 20.05 | 24.05 |
|                  | min              | 7.55  | 9.25  | 12.1  | 13.1  | 14.1  | 16.1  | 17.95 | 21.95 |
| <b>r</b>         | min              | 1.2   | 1.2   | 1.5   | 1.5   | 1.5   | 2     | 2     | 2     |
| <b>s</b>         | max=nominal size | 22    | 27    | 32    | 36    | 41    | 46    | 50    | 60    |
|                  | min              | 21.16 | 26.16 | 31    | 35    | 40    | 45    | 49    | 58.8  |