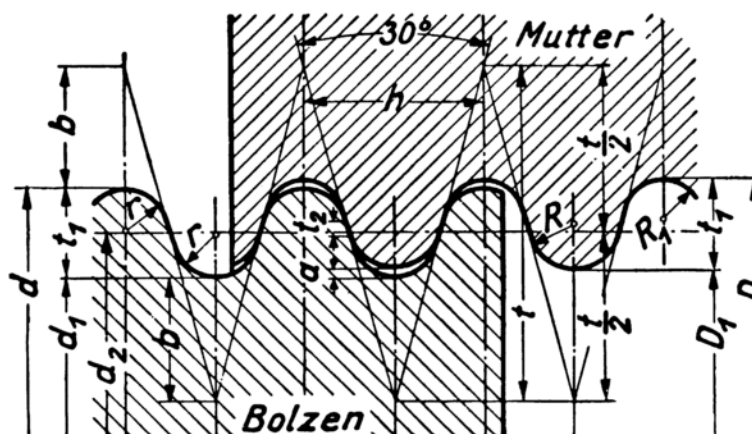


## Rundgewinde

DIN  
405

Maße in mm



$$h = \frac{25,40095}{z}$$

$$t = 1,86603 h$$

$$t_1 = 0,5 h$$

$$t_2 = 0,08350 h$$

$$a = 0,05 h$$

$$b = 0,68301 h$$

$$r = 0,23851 h$$

$$R = 0,25597 h$$

$$R_1 = 0,22105 h$$

Bezeichnung eines Rundgewindes von Gewindedurchmesser  $d = 40$  mm und Steigung 6 Gang auf 1 Zoll  $= 1/6''$ :Rd 40  $\times 1/6''$ 

| Gewinde-<br>durchmesser<br>d | Gangzahl<br>auf 1 Zoll<br>z | Steigung<br>h | Gewinde-<br>tiefe<br>t <sub>1</sub> | Tragtiefe<br>t <sub>2</sub> | Rundungen   |                            |       |
|------------------------------|-----------------------------|---------------|-------------------------------------|-----------------------------|-------------|----------------------------|-------|
|                              |                             |               |                                     |                             | Bolzen<br>r | Mutter<br>R R <sub>1</sub> |       |
| 8 bis 12                     | 10                          | 2,540         | 1,270                               | 0,212                       | 0,606       | 0,650                      | 0,561 |
| 14 bis 38                    | 8                           | 3,175         | 1,588                               | 0,265                       | 0,757       | 0,813                      | 0,702 |
| 40 bis 100                   | 6                           | 4,233         | 2,117                               | 0,353                       | 1,010       | 1,084                      | 0,936 |
| 105 bis 200                  | 4                           | 6,350         | 3,175                               | 0,530                       | 1,515       | 1,625                      | 1,404 |

| Bolzen                            |                                             |                                              | Flanken-<br>durch-<br>messer<br>d <sub>2</sub> | Mutter                            |                                             |
|-----------------------------------|---------------------------------------------|----------------------------------------------|------------------------------------------------|-----------------------------------|---------------------------------------------|
| Gewinde-<br>durch-<br>messer<br>d | Kern-<br>durch-<br>messer<br>d <sub>1</sub> | Kern-<br>quer-<br>schnitt<br>cm <sup>2</sup> |                                                | Gewinde-<br>durch-<br>messer<br>D | Kern-<br>durch-<br>messer<br>D <sub>1</sub> |
| 8                                 | 5,460                                       | 0,234                                        | 6,730                                          | 8,254                             | 5,714                                       |
| 9                                 | 6,460                                       | 0,328                                        | 7,730                                          | 9,254                             | 6,714                                       |
| 10                                | 7,460                                       | 0,437                                        | 8,730                                          | 10,254                            | 7,714                                       |
| 11                                | 8,460                                       | 0,562                                        | 9,730                                          | 11,254                            | 8,714                                       |
| 12                                | 9,460                                       | 0,703                                        | 10,730                                         | 12,254                            | 9,714                                       |
| 14                                | 10,825                                      | 0,920                                        | 12,412                                         | 14,318                            | 11,142                                      |
| 16                                | 12,825                                      | 1,292                                        | 14,412                                         | 16,318                            | 13,142                                      |
| 18                                | 14,825                                      | 1,726                                        | 16,412                                         | 18,318                            | 15,142                                      |
| 20                                | 16,825                                      | 2,223                                        | 18,412                                         | 20,318                            | 17,142                                      |
| 22                                | 18,825                                      | 2,783                                        | 20,412                                         | 22,318                            | 19,142                                      |
| 24                                | 20,825                                      | 3,406                                        | 22,412                                         | 24,318                            | 21,142                                      |
| 26                                | 22,825                                      | 4,092                                        | 24,412                                         | 26,318                            | 23,142                                      |
| 28                                | 24,825                                      | 4,840                                        | 26,412                                         | 28,318                            | 25,142                                      |
| 30                                | 26,825                                      | 5,652                                        | 28,412                                         | 30,318                            | 27,142                                      |
| 32                                | 28,825                                      | 6,526                                        | 30,412                                         | 32,318                            | 29,142                                      |
| (34)                              | 30,825                                      | 7,463                                        | 32,412                                         | 34,318                            | 31,142                                      |
| 36                                | 32,825                                      | 8,463                                        | 34,412                                         | 36,318                            | 33,142                                      |
| (38)                              | 34,825                                      | 9,525                                        | 36,412                                         | 38,318                            | 35,142                                      |
| 40                                | 35,767                                      | 10,05                                        | 37,883                                         | 40,423                            | 36,190                                      |
| (42)                              | 37,767                                      | 11,20                                        | 39,883                                         | 42,423                            | 38,190                                      |
| 44                                | 39,767                                      | 12,42                                        | 41,883                                         | 44,423                            | 40,190                                      |
| (46)                              | 41,767                                      | 13,70                                        | 43,883                                         | 46,423                            | 42,190                                      |
| 48                                | 43,767                                      | 15,05                                        | 45,883                                         | 48,423                            | 44,190                                      |
| (50)                              | 45,767                                      | 16,45                                        | 47,883                                         | 50,423                            | 46,190                                      |
| 52                                | 47,767                                      | 17,92                                        | 49,883                                         | 52,423                            | 48,190                                      |
| 55                                | 50,767                                      | 20,24                                        | 52,883                                         | 55,423                            | 51,190                                      |
| (58)                              | 53,767                                      | 22,71                                        | 55,883                                         | 58,423                            | 54,190                                      |
| 60                                | 55,767                                      | 24,43                                        | 57,883                                         | 60,423                            | 56,190                                      |
| (62)                              | 57,767                                      | 26,21                                        | 59,883                                         | 62,423                            | 58,190                                      |
| 65                                | 60,767                                      | 29,00                                        | 62,883                                         | 65,423                            | 61,190                                      |
| (68)                              | 63,767                                      | 31,94                                        | 65,883                                         | 68,423                            | 64,190                                      |
| 70                                | 65,767                                      | 33,97                                        | 67,883                                         | 70,423                            | 66,190                                      |

| Bolzen                            |                                             |                                              | Flanken-<br>durch-<br>messer<br>d <sub>2</sub> | Mutter                            |                                             |
|-----------------------------------|---------------------------------------------|----------------------------------------------|------------------------------------------------|-----------------------------------|---------------------------------------------|
| Gewinde-<br>durch-<br>messer<br>d | Kern-<br>durch-<br>messer<br>d <sub>1</sub> | Kern-<br>quer-<br>schnitt<br>cm <sup>2</sup> |                                                | Gewinde-<br>durch-<br>messer<br>D | Kern-<br>durch-<br>messer<br>D <sub>1</sub> |
| (72)                              | 67,767                                      | 36,07                                        | 69,883                                         | 72,423                            | 68,190                                      |
| 75                                | 70,767                                      | 39,33                                        | 72,883                                         | 75,423                            | 71,190                                      |
| (78)                              | 73,767                                      | 42,74                                        | 75,883                                         | 78,423                            | 74,190                                      |
| 80                                | 75,767                                      | 45,09                                        | 77,883                                         | 80,423                            | 76,190                                      |
| (82)                              | 77,767                                      | 47,50                                        | 79,883                                         | 82,423                            | 78,190                                      |
| 85                                | 80,767                                      | 51,23                                        | 82,883                                         | 85,423                            | 81,190                                      |
| (88)                              | 83,767                                      | 55,11                                        | 85,883                                         | 88,423                            | 84,190                                      |
| 90                                | 85,767                                      | 57,77                                        | 87,883                                         | 90,423                            | 86,190                                      |
| (92)                              | 87,767                                      | 60,50                                        | 89,883                                         | 92,423                            | 88,190                                      |
| 95                                | 90,767                                      | 64,71                                        | 92,883                                         | 95,423                            | 91,190                                      |
| (98)                              | 93,767                                      | 69,05                                        | 95,883                                         | 98,423                            | 94,190                                      |
| 100                               | 95,767                                      | 72,03                                        | 97,883                                         | 100,423                           | 96,190                                      |
| (105)                             | 98,650                                      | 78,43                                        | 101,825                                        | 105,635                           | 99,285                                      |
| 110                               | 103,650                                     | 84,38                                        | 106,825                                        | 110,635                           | 104,285                                     |
| (115)                             | 108,650                                     | 92,72                                        | 111,825                                        | 115,635                           | 109,285                                     |
| 120                               | 113,650                                     | 101,45                                       | 116,825                                        | 120,635                           | 114,285                                     |
| (125)                             | 118,650                                     | 110,57                                       | 121,825                                        | 125,635                           | 119,285                                     |
| 130                               | 123,650                                     | 120,08                                       | 126,825                                        | 130,635                           | 124,285                                     |
| (135)                             | 128,650                                     | 129,99                                       | 131,825                                        | 135,635                           | 129,285                                     |
| 140                               | 133,650                                     | 140,29                                       | 136,825                                        | 140,635                           | 134,285                                     |
| (145)                             | 138,650                                     | 150,98                                       | 141,825                                        | 145,635                           | 139,285                                     |
| 150                               | 143,650                                     | 162,07                                       | 146,825                                        | 150,635                           | 144,285                                     |
| (155)                             | 148,650                                     | 173,55                                       | 151,825                                        | 155,635                           | 149,285                                     |
| 160                               | 153,650                                     | 185,42                                       | 156,825                                        | 160,635                           | 154,285                                     |
| (165)                             | 158,650                                     | 197,68                                       | 161,825                                        | 165,635                           | 159,285                                     |
| 170                               | 163,650                                     | 210,34                                       | 166,825                                        | 170,635                           | 164,285                                     |
| (175)                             | 168,650                                     | 223,39                                       | 171,825                                        | 175,635                           | 169,285                                     |
| 180                               | 173,650                                     | 236,83                                       | 176,825                                        | 180,635                           | 174,285                                     |
| (185)                             | 178,650                                     | 250,67                                       | 181,825                                        | 185,635                           | 179,285                                     |
| 190                               | 183,650                                     | 264,89                                       | 186,825                                        | 190,635                           | 184,285                                     |
| (195)                             | 188,650                                     | 279,51                                       | 191,825                                        | 195,635                           | 189,285                                     |
| 200                               | 193,650                                     | 294,53                                       | 196,825                                        | 200,635                           | 194,285                                     |

Eingeklammerte Gewinde möglichst vermeiden.

Die Werte der Zahlentafel sind die theoretischen Abmessungen des Gewindes. Die entsprechenden Schneidwerkzeuge sind den Erfahrungen gemäß stärker oder schwächer zu wählen.

Die Werte der Zahlentafel sind für 20°C (siehe DIN 102) errechnet. Für die Errechnung ist 1" = 25,40095 mm zugrunde gelegt.

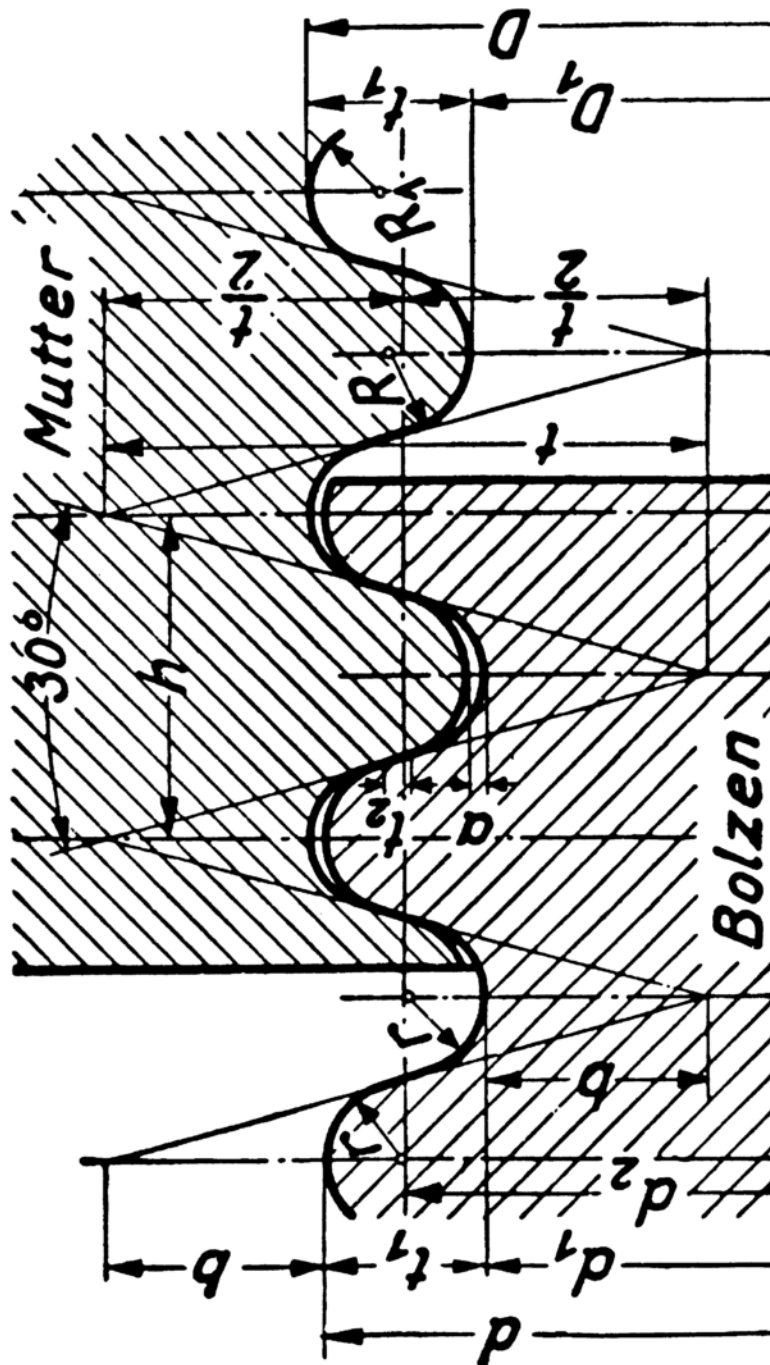
Ausschuß Gewinde im Deutschen Normenausschuß



Documents

Document Sharing Hub

Maße in mm



|       |     |                      |
|-------|-----|----------------------|
| $h$   | $=$ | $\frac{25,40095}{z}$ |
| $t$   | $=$ | $1,86603 h$          |
| $t_1$ | $=$ | $0,5 h$              |
| $t_2$ | $=$ | $0,08350 h$          |
| $a$   | $=$ | $0,05 h$             |
| $b$   | $=$ | $0,68301 h$          |
| $r$   | $=$ | $0,23851 h$          |
| $R$   | $=$ | $0,25597 h$          |
| $R_1$ | $=$ | $0,22105 h$          |

Bezeichnung eines Rundgewindes von Gewindedurchmesser  $d \approx 40$  mm und Steigung 6 Gang auf 1 Zoll  $= 1/6''$ :

Rd 40 x 1/6''