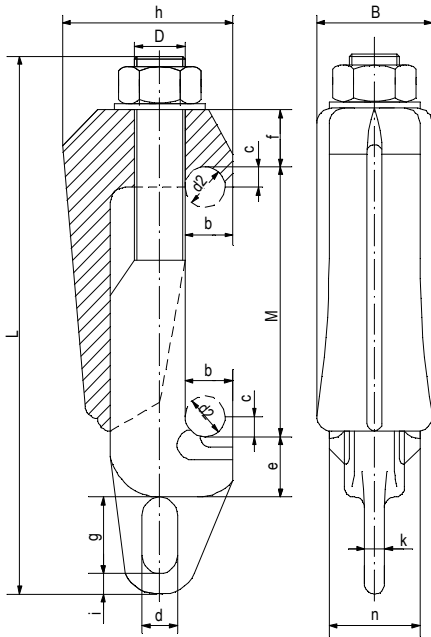



**Execution:**

drop forged, without cracks and wrinkles, acc. DIN EN 10243-1, ready processed

**Thread:**

according to DIN ISO 13-1, tolerance 6g, also possible in UN or UNC

**Allowable stresses:**

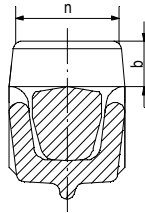
see page 119 and 120

**Certification:**

according AD 2000-Merkblatt A5, Anl. 2, W 7/1, W 7/2, W 10

**Certificate:**

according to DIN EN 10204-3.1, DIN EN 10204-3.2 and ASME-Code possible



| Material*          | Equipment                    |
|--------------------|------------------------------|
| 1.4571             | with plain washer            |
| 1.7225 (M12 - M30) | spherical-** or plain washer |
| Gr. B8M, class 1   | with plain washer            |
| Gr. B7             | spherical-** or plain washer |

| Type          | Clamping length | Length | Width | Dimensions |     |   |    |    |    |    |    |   |    |    | Wight  |
|---------------|-----------------|--------|-------|------------|-----|---|----|----|----|----|----|---|----|----|--------|
| D             | M               | L      | B     | d2         | b   | c | d  | e  | f  | g  | h  | i | k  | n  | kg/St. |
| M10-K         | 19 - 30         | 83     | 25    | 8          | 9,5 | 3 | 6  | 11 | 11 | 15 | 27 | 5 | 6  | 20 | 0,2    |
| M10-L         | 28 - 39         | 92     |       |            |     |   |    |    |    |    |    |   |    |    | 0,2    |
| M12-L         | 36 - 64         | 133    | 34    | 10         | 12  | 4 | 8  | 15 | 17 | 16 | 38 | 6 | 8  | 30 | 0,5    |
| M12-L2        | 63 - 91         | 160    |       |            |     |   |    |    |    |    |    |   |    |    | 0,6    |
|               |                 |        |       |            |     |   |    |    |    |    |    |   |    |    |        |
| M16-K         | 50 - 70         | 165    | 40    | 14         | 18  | 5 | 12 | 20 | 20 | 25 | 58 | 8 | 8  | 32 | 1,1    |
| M16-L         | 65 - 95         | 190    |       |            |     |   |    |    |    |    |    |   |    |    | 1,2    |
| M16-L2        | 90 - 120        | 215    |       |            |     |   |    |    |    |    |    |   |    |    | 1,3    |
| M16-LS        | 110 - 140       | 235    |       |            |     |   |    |    |    |    |    |   |    |    | 1,4    |
|               |                 |        |       |            |     |   |    |    |    |    |    |   |    |    |        |
| M20-K         | 60 - 85         | 195    | 48    | 16         | 19  | 5 | 14 | 25 | 25 | 30 | 73 | 8 | 8  | 42 | 2,0    |
| M20-L         | 75 - 100        | 210    |       |            |     |   |    |    |    |    |    |   |    |    | 2,0    |
| M20-L2        | 100 - 140       | 250    |       |            |     |   |    |    |    |    |    |   |    |    | 2,2    |
|               |                 |        |       |            |     |   |    |    |    |    |    |   |    |    |        |
| M24-K         | 75 - 105        | 230    | 52    | 20         | 23  | 5 | 14 | 30 | 30 | 30 | 78 | 9 | 10 | 46 | 2,7    |
| M24-L         | 100 - 140       | 265    |       |            |     |   |    |    |    |    |    |   |    |    | 3,0    |
| M24-L2        | 130 - 170       | 295    |       |            |     |   |    |    |    |    |    |   |    |    | 3,2    |
| M24-LS        | 170 - 210       | 335    |       |            |     |   |    |    |    |    |    |   |    |    | 3,4    |
| M24-LT***     | 210 - 250       | 375    |       |            |     |   |    |    |    |    |    |   |    |    | 3,7    |
| M24-LU***     | 255 - 295       | 420    |       |            |     |   |    |    |    |    |    |   |    |    | 4,3    |
| M24-LX        | 305 - 345       | 470    |       |            |     |   |    |    |    |    |    |   |    |    | 4,8    |
|               |                 |        |       |            |     |   |    |    |    |    |    |   |    |    |        |
| M27-K         | 97 - 122        | 291    | 63    | 24         | 27  | 6 | 14 | 48 | 40 | 40 | 85 | 9 | 10 | 55 | 4,8    |
| M27-L         | 127 - 157       | 327    |       |            |     |   |    |    |    |    |    |   |    |    | 5,0    |
| M27-L2        | 162 - 207       | 375    |       |            |     |   |    |    |    |    |    |   |    |    | 5,5    |
| M27-L3        | 217 - 267       | 435    |       |            |     |   |    |    |    |    |    |   |    |    | 6,2    |
| M27-L4***     | 272 - 312       | 480    |       |            |     |   |    |    |    |    |    |   |    |    | 6,7    |
| M27-L5***     | 327 - 367       | 535    |       |            |     |   |    |    |    |    |    |   |    |    | 7,4    |
| M27-LS        | 352 - 397       | 566    |       |            |     |   |    |    |    |    |    |   |    |    | 7,7    |
| M27-LT***     | 402 - 442       | 610    |       |            |     |   |    |    |    |    |    |   |    |    | 8,6    |
| M27-LX        | 452 - 492       | 660    |       |            |     |   |    |    |    |    |    |   |    |    | 9,5    |
| M30 on demand |                 |        |       |            |     |   |    |    |    |    |    |   |    |    |        |

\*other materials available on request | \*\*Spherical washer starting at M16 | \*\*\* special production

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Sheet 111 special

**Wulst-clamp-bolts similar to DIN 28152 - installed state**

Zolltarif-Nr. / customs tariff number: 73181595