



65674

CLEVIS JOINTS

Material

Mild steel (zinc-plated).

pins require a loose fit, and as a result the metric versions can also be for inch sizes.

H14 (under this diameter recommended tolerance is H13).

Technical Notes

To DIN 94 (equivalent to ISO 1234). Cotter

Recommended hole tolerance for d_1 1,6 is

| Order No. | d_1 nom. | d_1 min. | d_1 max. | d_2 max. | l_1 | l_2 max. | l_3 ≈ |
|-------------|---------------|---------------|---------------|---------------|-------|---------------|------------|
| 65674.W0010 | 1 | 0.8 | 0.9 | 1.8 | 10 | 1.6 | 3 |
| 65674.W0016 | 1.6 | 1.3 | 1.4 | 2.8 | 18 | 2.5 | 3.2 |
| 65674.W0020 | 2 | 1.7 | 1.8 | 3.6 | 18 | 2.5 | 4.0 |
| 65674.W0032 | 3.2 | 2.7 | 2.9 | 5.8 | 22 | 3.2 | 6.4 |
| 65674.W0040 | 4 | 3.5 | 3.7 | 7.4 | 28 | 4.0 | 8.0 |
| 65674.W0050 | 5 | 4.4 | 4.6 | 9.2 | 50 | 4.0 | 10.0 |
| 65674.W0060 | 6 | 5.7 | 5.9 | 11.8 | 71 | 4.0 | 12.6 |
| 65674.W0080 | 8 | 7.3 | 7.5 | 15 | 112 | 4.0 | 16.0 |
| 65674.W0100 | 10 | 9.3 | 9.5 | 19 | 112 | 6.3 | 20.0 |



Parts overview

CLEVIS JOINTS

Clevis Joints

Stocked to DIN 71752 in steel and stainless steel. Plain clevis joints available in right and left hand threads zinc plated steel and stainless steel. Steel sizes from M4 up to M48. Stainless sizes from M4 up to M27.



Clevis Mating Pieces

These are designed to fit in between our clevis joints to create a linkage where an angular offset is required. Available in zinc plated steel and stainless steel. Sizes M4 up to M20.



Clevis Pins and Clips

Various styles of pins and clips to suit clevis joints in zinc plated steel and stainless steel. Sizes available to suit all sizes of clevis joints that we offer.



Clevis Retention Clips

These are the most popular type of clip used with our clevis joints. They create a neat compact assembly, only available in zinc plated steel. Size available for clevis joints from 4mm up to 20mm.



Male Clevis Joints

Stocked in zinc plated steel and stainless steel, right and left hand threads. Sizes M6 up to M20.





Clevis with retention clip
65630 and 65684



Clevis with clevis pin, washer and cotter pin
65660 and 65674



Zinc plated steel

Clevis with clevis pin 65664
Safety fastener 65680

Clevis with clevis pin and circlips 65666
and 65678



Clevis with clevis pin, washer and cotter pin
65661 and 65675



Stainless steel

Clevis with 65652 mating piece and 65684 clevis retention clip



Clevis with 65880 rod end and 65684 clevis retention clip



Assembly options

Tensile tests, statistically to failure (break)

Clevis joints axially loaded.

Leaded low carbon steel (AISI 12L14, 1.0718).

Clevises M6 - M42

Material

| Clevis size | F min (kN) | F max (kN) | F average value (kN) | Avg. force when clevis starts to deform (kN) |
|-------------|------------|------------|----------------------|--|
| 6 x 24 M 6 | 16,0 | 19,5 | 17,6 | 15,3 |
| 8 x 32 M 8 | 33,2 | 35,6 | 34,6 | 29,3 |
| 10 x 40 M10 | 42,0 | 52,0 | 47,5 | 41,3 |
| 12 x 48 M12 | 53,0 | 68,5 | 61,1 | 50,2 |
| 14 x 56 M14 | 60,5 | 64,5 | 63,0 | 48,8 |
| 16 x 64 M16 | 133,5 | 146,0 | 140,2 | 115 |
| 20 x 40 M20 | 194,5 | 234,0 | 213,5 | 176 |
| 25 x 50 M25 | 311,0 | 336,0 | 328,0 | 260 |
| 30 x 60 M30 | 428,0 | 450,0 | 440,6 | 343 |
| 36 x 72 M36 | 566,0 | 573,0 | 569,5 | 300 |
| 35 x 72 M36 | 561,2 | 567,9 | 564,6 | 370 |
| 42 x 84 M42 | 904,6 | 904,6 | 904,6 | 420 |

Important note: values in this table are indicative only and should only be used as a rough guide. The Company cannot foresee the intended applications of their products and we accept no liability for any actions taken by third parties. Customers are advised to use their own safety factors and/or perform their own testing on the clevis joint to ensure it meets requirements for their application.