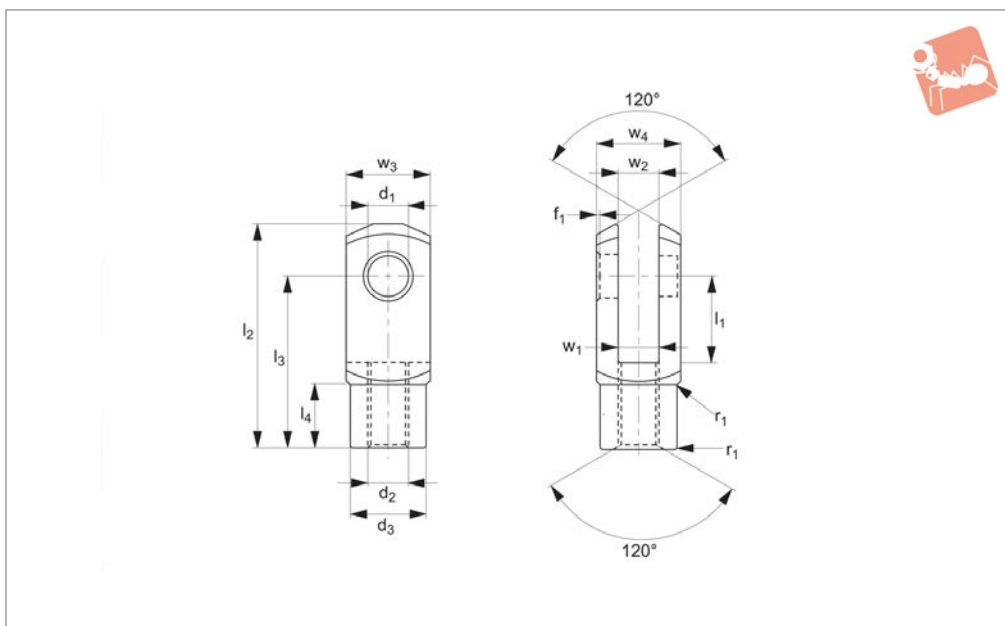




# Stainless Clevis Joints

left hand thread

## Clevis Joints



**65636**

CLEVIS JOINTS

### Material

Stainless steel (1.4305 AISI 303  
X8CrNiS18-9)

### Technical Notes

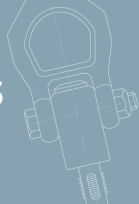
M4-M16: DIN 71 752/DIN ISO 8140.  
M20-M27: Similar to DIN 71 752 and according to CETOP standard.

### Important Notes

For sizes M4-M12,  $f_1$  and  $r_1 = 0,5$ , for sizes M14-M16,  $f_1$  and  $r_1 = 1$ , for size M20,  $f_1=1$ ,  $r_1 = 1,5$   
For M24,  $f_1$  and  $r_1 = 1,5$ , for M27,  $f_1=1,5$ ,  $r_1 = 2$ , for  $r_1$ , radius or 45° bevelling.  
Other Tolerances:-

$w_4$ : M4-M16 =  $+0,3 -0,16$   
M20-M27 =  $+0,5 - 0,2$   
 $w_2$ : Size 4x8-10x20 = B13  
Size 10x40-30x54 =  $+0,7 +0,15$   
 $l_3$ : up to size 6x12 =  $\pm 0,3$   
From size 6x24 =  $\pm 0,4$

| Order No.   | Size  | Thread hand | Thread type | $d_1$<br>tol. H9 | $l_1$<br>$\pm 0,5$ | $d_2$    | $d_3$ | $l_2$<br>$\pm 0,5$ | $l_3$ | $l_4$ | $w_1$<br>tol. B13 | $w_2$ | $w_3$<br>tol. h11 | $w_4$ | Weight<br>g |
|-------------|-------|-------------|-------------|------------------|--------------------|----------|-------|--------------------|-------|-------|-------------------|-------|-------------------|-------|-------------|
| 65636.W0040 | 4x8   | Left        | Coarse      | 4                | 8                  | M4       | 8     | 21                 | 16    | 6.0   | 4                 | 4     | 8                 | 8     | 5           |
| 65636.W0041 | 4x16  | Left        | Coarse      | 4                | 16                 | M4       | 8     | 29                 | 24    | 6.0   | 4                 | 4     | 8                 | 8     | 7           |
| 65636.W0051 | 5x10  | Left        | Coarse      | 5                | 10                 | M5       | 9     | 26                 | 20    | 7.5   | 5                 | 5     | 10                | 10    | 9           |
| 65636.W0052 | 5x20  | Left        | Coarse      | 5                | 20                 | M5       | 9     | 36                 | 30    | 7.5   | 5                 | 5     | 10                | 10    | 13          |
| 65636.W0061 | 6x12  | Left        | Coarse      | 6                | 12                 | M6       | 10    | 31                 | 24    | 9.0   | 6                 | 6     | 12                | 12    | 15          |
| 65636.W0062 | 6x24  | Left        | Coarse      | 6                | 24                 | M6       | 10    | 43                 | 36    | 9.0   | 6                 | 6     | 12                | 12    | 21          |
| 65636.W0081 | 8x16  | Left        | Coarse      | 8                | 16                 | M8       | 14    | 42                 | 32    | 12.0  | 8                 | 8     | 16                | 16    | 37          |
| 65636.W0082 | 8x16  | Left        | Fine        | 8                | 16                 | M8x1     | 14    | 42                 | 32    | 12.0  | 8                 | 8     | 16                | 16    | 37          |
| 65636.W0083 | 8x32  | Left        | Coarse      | 8                | 32                 | M8       | 14    | 58                 | 48    | 12.0  | 8                 | 8     | 16                | 16    | 54          |
| 65636.W0102 | 10x20 | Left        | Coarse      | 10               | 20                 | M10      | 18    | 52                 | 40    | 15.0  | 10                | 10    | 20                | 20    | 74          |
| 65636.W0103 | 10x20 | Left        | Fine        | 10               | 20                 | M10x1,25 | 18    | 52                 | 40    | 15.0  | 10                | 10    | 20                | 20    | 74          |
| 65636.W0104 | 10x40 | Left        | Coarse      | 10               | 40                 | M10      | 18    | 72                 | 60    | 15.0  | 10                | 10    | 20                | 20    | 116         |
| 65636.W0105 | 10x40 | Left        | Fine        | 10               | 40                 | M10x1,25 | 18    | 72                 | 60    | 15.0  | 10                | 10    | 20                | 20    | 116         |
| 65636.W0122 | 12x24 | Left        | Coarse      | 12               | 24                 | M12      | 20    | 62                 | 48    | 18.0  | 12                | 12    | 24                | 24    | 121         |
| 65636.W0123 | 12x24 | Left        | Fine        | 12               | 24                 | M12x1,25 | 20    | 62                 | 48    | 18.0  | 12                | 12    | 24                | 24    | 121         |
| 65636.W0124 | 12x48 | Left        | Coarse      | 12               | 48                 | M12      | 20    | 86                 | 72    | 18.0  | 12                | 12    | 24                | 24    | 175         |
| 65636.W0125 | 12x48 | Left        | Fine        | 12               | 48                 | M12x1,25 | 20    | 86                 | 72    | 18.0  | 12                | 12    | 24                | 24    | 175         |
| 65636.W0142 | 14x28 | Left        | Coarse      | 14               | 28                 | M14      | 24    | 72                 | 56    | 22.5  | 14                | 14    | 27                | 27    | 178         |
| 65636.W0143 | 14x28 | Left        | Fine        | 14               | 28                 | M14x1,5  | 24    | 72                 | 56    | 22.5  | 14                | 14    | 27                | 27    | 178         |
| 65636.W0145 | 14x56 | Left        | Coarse      | 14               | 56                 | M14      | 24    | 101                | 85    | 22.5  | 14                | 14    | 27                | 27    | 258         |
| 65636.W0146 | 14x56 | Left        | Fine        | 14               | 56                 | M14x1,5  | 24    | 101                | 85    | 22.5  | 14                | 4     | 27                | 27    | 258         |
| 65636.W0163 | 16x32 | Left        | Coarse      | 16               | 32                 | M16      | 26    | 83                 | 64    | 24.0  | 16                | 16    | 32                | 32    | 282         |
| 65636.W0164 | 16x32 | Left        | Fine        | 16               | 32                 | M16x1,5  | 26    | 83                 | 64    | 24.0  | 16                | 16    | 32                | 32    | 282         |
| 65636.W0166 | 16x64 | Left        | Coarse      | 16               | 64                 | M16      | 26    | 115                | 96    | 24.0  | 16                | 16    | 32                | 32    | 411         |
| 65636.W0167 | 16x64 | Left        | Fine        | 16               | 64                 | M16x1,5  | 26    | 115                | 96    | 24.0  | 16                | 16    | 32                | 32    | 411         |
| 65636.W0204 | 20x40 | Left        | Coarse      | 20               | 40                 | M20      | 34    | 105                | 80    | 30.0  | 20                | 20    | 40                | 40    | 550         |
| 65636.W0205 | 20x40 | Left        | Fine        | 20               | 40                 | M20x1,5  | 34    | 105                | 80    | 30.0  | 20                | 20    | 40                | 40    | 550         |
| 65636.W0255 | 25x50 | Left        | Coarse      | 25               | 50                 | M24      | 42    | 132                | 100   | 36.0  | 25                | 25    | 50                | 50    | 1100        |
| 65636.W0256 | 25x50 | Left        | Fine        | 25               | 50                 | M24x2    | 42    | 132                | 100   | 36.0  | 25                | 25    | 50                | 50    | 1100        |
| 65636.W0305 | 30x54 | Left        | Fine        | 30               | 54                 | M27x2    | 48    | 148                | 110   | 40.0  | 30                | 30    | 55                | 55    | 1440        |



### Parts overview

#### 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 Joints

## set-up options



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.

## Clevises M6 - M42

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

## 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.