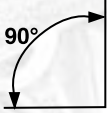
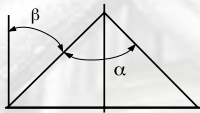
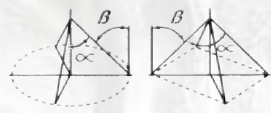



Working load limit table for stainless steel sling chains.

BF: breaking force

| Chain Ø |  |  | |  | |  |
|---------|---|---|---------------------------------|--|---------------------------------|---|
| | 1 leg sling | 2 leg sling | | 3 or 4 leg sling | | Endless sling |
| | 90° | 0° < β ≤ 45° 0° < α ≤ 90° | 45° < β ≤ 60° 90° < α ≤ 120° | 0° < β ≤ 45° 0° < α ≤ 90° | 45° < β ≤ 60° 90° < α ≤ 120° | |
| | | Safety Factor 1.4 | Safety Factor 1.0 | Safety Factor 2.1 | Safety Factor 1.5 | Safety Factor 1.6 |
| 6 | 0.70 | 1.00 | 0.70 | 1.47 | 1.05 | 1.12 |
| 8 | 1.20 | 1.70 | 1.20 | 2.50 | 1.80 | 1.92 |
| 10 | 1.60 | 2.25 | 1.60 | 3.36 | 2.40 | 2.56 |
| 13 | 2.70 | 3.80 | 2.70 | 5.70 | 4.05 | 4.32 |

Stainless steels:

Most steels, except precious steels such as platinum and gold, tend to corrode when contacting the atmosphere, water or other natural or industrial environments.

Stainless steel:

Stainless steels are a possible solution to corrosion problems.

Contrary to the steels used in grade 8 and 10 lifting components, the stainless steel used in our range of components do not react to heat treatment in the same way. The mechanical properties of the stainless steel cannot be modified by heat treatment.

This steel has to be hyperquenched, which makes it more corrosion resistant.

Acid cleaning and polishing further improve the anti corrosive properties.

Resistance to corrosion:

The stainless steel used in our range has an excellent resistance to corrosion in following environments :

- natural (waters, city and landscape atmospheres)
- industry, even in presence of moderated concentrations of chlorides and acidics.
- food industries, involving acids (sulfur, phosphorus and organic) and chloride chemical environments.

We can supply on request a table showing the suitability of our products when used in different chemical solutions.

The welded master links are designed for 1 or 2 leg slings (code MSI) and for 3 or 4 leg slings (code MTSI).

The master link assemblies (code MTSI) have a flat in order to make assembly with omega links (code COI) easier.

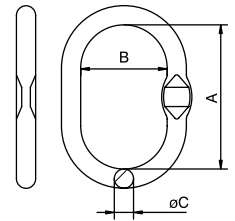


MSI

S/s Welded master link

316 L/1.4404

| Code | Chain Ø | | | Dimensions in mm | | | WLL | BF | Weight |
|---------|---------|--------|-----|------------------|-----|----|------|------|--------|
| | 1 leg | 2 legs | | A | B | C | t | t | Kg |
| | | 45° | 60° | | | | | | |
| MS 13 I | 6 | - | 6 | 110 | 60 | 13 | 0.75 | 3.0 | 0.34 |
| MS 16 I | 8 | 6 | 8 | 110 | 60 | 16 | 1.25 | 5.0 | 0.53 |
| MS 18 I | 10 | 8 | 10 | 135 | 75 | 18 | 2.00 | 8.0 | 0.82 |
| MS 22 I | 13 | 10 | 13 | 160 | 90 | 22 | 3.20 | 12.8 | 1.50 |
| MS 26 I | 16 | 13 | 16 | 180 | 100 | 26 | 5.00 | 20.0 | 2.31 |

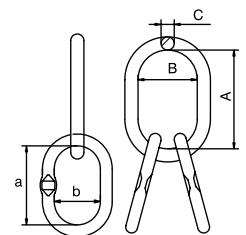


MTSI

S/s Master link assembly

316 L/1.4404

| Code | Chain Ø | Dimensions in mm | | | | | | WLL | BF | Weight |
|----------|---------|------------------|-----|----|-----|----|----|------|------|--------|
| | | 3/4 legs | A | B | C | a | b | Dia | t | t |
| MTS 18 I | 6 | 135 | 75 | 18 | 54 | 25 | 13 | 1.60 | 6.4 | 1.16 |
| MTS 22 I | 8 | 160 | 90 | 22 | 70 | 34 | 16 | 2.65 | 10.6 | 2.22 |
| MTS 26 I | 10 | 180 | 100 | 26 | 85 | 40 | 18 | 4.25 | 17.0 | 3.37 |
| MTS 32 I | 13 | 200 | 110 | 32 | 115 | 50 | 22 | 6.70 | 26.8 | 6.07 |



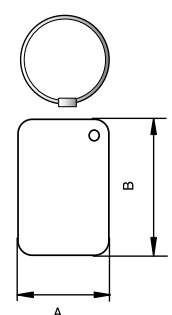
TAGI

S/s identification tag

316/1.4401

These stainless steel tags have the advantage that they can be fixed on most types of machinery & slings. We can pre-stamp them according to your needs and norms, to identify chain and wire rope slings.

| Code | Dimensions in mm | | | Weight |
|------|------------------|----|-----|--------|
| | A | B | C* | Kg |
| TAGI | 50 | 80 | 300 | 0.08 |



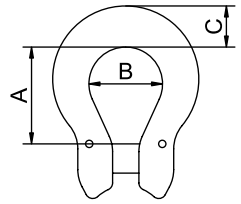
*Length of wire rope out of tag.



COI S/s Omega link

316 L/1.4404

It is an easy and safe connection between the chain and the components.



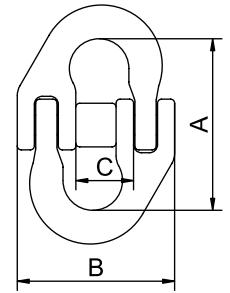
| Code | WLL | Chain Ø | Dimensions in mm | | | BF | Weight |
|----------|------|---------|------------------|----|----|------|--------|
| | | | t | mm | A | | |
| CO 6 I | 0.70 | 6 | 25 | 20 | 9 | 2.8 | 0.07 |
| CO 7/8 I | 1.20 | 7/8 | 34 | 23 | 16 | 4.8 | 0.16 |
| CO 10 I | 1.60 | 10 | 41 | 31 | 17 | 6.4 | 0.28 |
| CO 13 I | 2.70 | 13 | 54 | 40 | 21 | 10.8 | 0.63 |



MJ1 S/s Chain Connector

316 L/1.4404

These connectors provide fast, easy assembly without the need for special tools or skills.
Designed for attaching hooks, master links and other end fittings to stainless steel chains.



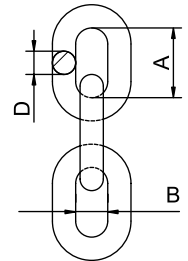
| Code | WLL | Chain Ø | Dimensions in mm | | | BF | Weight |
|----------|------|---------|------------------|----|----|------|--------|
| | | | t | mm | A | | |
| MJ 6 I | 0.70 | 6 | 45 | 41 | 16 | 2.8 | 0.12 |
| MJ 7/8 I | 1.20 | 7/8 | 55 | 52 | 20 | 4.8 | 0.16 |
| MJ 10 I | 1.60 | 10 | 73 | 70 | 25 | 6.4 | 0.33 |
| MJ 13 I | 2.70 | 13 | 92 | 85 | 29 | 10.8 | 0.70 |



CI S/s Lifting Chain

316/1.4401

Excel chain features: - Available in polished finish.
- Delivered in standard lengths or in cut lengths on request.



| Code | WLL | Dimensions in mm | | | Links/m | BF | Weight |
|--------|------|------------------|----|------|---------|------|--------|
| | | t | D | A | | | |
| C 6 I | 0.70 | 6 | 18 | 7.8 | 53.4 | 2.8 | 0.78 |
| C 8 I | 1.20 | 8 | 24 | 10.4 | 41.0 | 4.8 | 1.40 |
| C 10 I | 1.60 | 10 | 30 | 13.0 | 32.7 | 6.4 | 2.20 |
| C 13 I | 2.70 | 13 | 39 | 17.0 | 25.0 | 10.8 | 3.80 |

Thanks to its unique design, the single hook has incomparable qualities. Its forged latch is fitted with a s/s spring and a pin, which corresponds to the current norms.

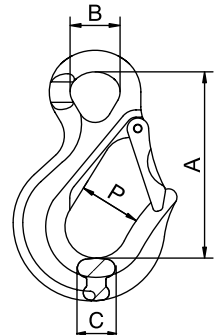


CSOI
S/s Eye sling hook

316 L/1.4404

The over dimensioned eye enables easy assembly on wire rope slings (with thimbles).
The flat on the eye makes assembly with an omega link (code COI) easier.

| Code | WLL | Chain Ø | Dimensions in mm | | | | BF | Weight |
|-----------|------|---------|------------------|----|----|----|------|--------|
| | t | | mm | A | B | P | C | t |
| CSO 5/6 I | 0.70 | 5/6 | 86 | 24 | 28 | 15 | 2.8 | 0.25 |
| CSO 7/8 I | 1.20 | 7/8 | 102 | 26 | 29 | 19 | 4.8 | 0.53 |
| CSO 10 I | 1.60 | 10 | 121 | 35 | 31 | 22 | 6.4 | 0.90 |
| CSO 13 I | 2.70 | 13 | 154 | 41 | 40 | 31 | 10.8 | 1.75 |

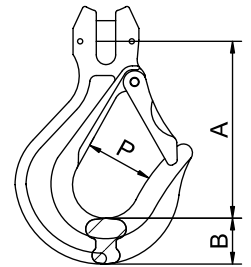


CSCI
S/s Clevis sling hook

316 L/1.4404

The clevis type enables a direct connection to the stainless steel chain (code CI).

| Code | WLL | Chain Ø | Dimensions in mm | | | BF | Weight |
|-----------|------|---------|------------------|----|----|------|--------|
| | t | | mm | A | B | P | t |
| CSC 5/6 I | 0.70 | 5/6 | 73 | 16 | 28 | 2.8 | 0.26 |
| CSC 7/8 I | 1.20 | 7/8 | 95 | 20 | 29 | 4.8 | 0.49 |
| CSC 10 I | 1.60 | 10 | 110 | 24 | 31 | 6.4 | 0.94 |
| CSC 13 I | 2.70 | 13 | 138 | 32 | 40 | 10.8 | 1.80 |

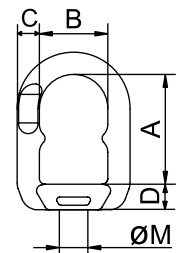


ELI
S/s Eye nut

316 L/1.4404

These eye nuts have a flat section that is designed to accommodate omega links (code COI).
They have ISO metric threads as standard, however other thread types can be supplied on request.

| Code | Type | WLL | Ø ISO | Dimensions in mm | | | | BF | Weight |
|---------|------|------|-------|------------------|----|----|----|------|--------|
| | | t | | M | A | B | C | D | t |
| EL 12 I | 7/8 | 0.60 | 12 | 48 | 32 | 12 | 17 | 3.0 | 0.25 |
| EL 14 I | 7/8 | 0.80 | 14 | 48 | 32 | 12 | 17 | 4.0 | |
| EL 16 I | 10 | 1.00 | 16 | 60 | 37 | 14 | 18 | 5.0 | 0.40 |
| EL 18 I | 10 | 1.50 | 18 | 60 | 37 | 14 | 18 | 7.5 | |
| EL 20 I | 10 | 2.00 | 20 | 60 | 37 | 14 | 18 | 10.0 | 0.67 |
| EL 22 I | 13 | 2.50 | 22 | 75 | 48 | 16 | 23 | 12.5 | |
| EL 24 I | 13 | 3.00 | 24 | 75 | 48 | 16 | 23 | 15.0 | |
| EL 27 I | 13 | 3.50 | 27 | 75 | 48 | 16 | 23 | 17.5 | |



Supply of an EL with a pivoting shank on request.
Safety factor 5.

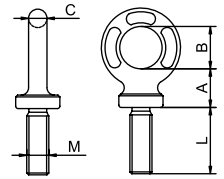


ALI S/s Eye bolt

316 L/1.4404

These lifting eyes can be used only in their axis (angle must be less than 30°), never in oblique.
The shank length must be adapted to suit the material the eye nut is to be used with.

This length makes the use of a nut possible.



| Code | WLL | Ø ISO | Unmachined | Dimensions in mm | | | | BF | Weight |
|---------|------|-------|------------|------------------|----|----|----|------|--------|
| | | | | t | mm | Ø | A | | |
| AL 8 I | 0.20 | 8 | 12 | 16 | 20 | 24 | 7 | 1.0 | 0.05 |
| AL 10 I | 0.40 | 10 | 14 | 19 | 22 | 30 | 8 | 2.0 | 0.07 |
| AL 12 I | 0.60 | 12 | 16 | 23 | 27 | 36 | 10 | 3.0 | 0.13 |
| AL 14 I | 0.80 | 14 | 18 | 28 | 30 | 40 | 14 | 4.0 | 0.24 |
| AL 16 I | 1.00 | 16 | 22 | 30 | 35 | 55 | 14 | 5.0 | 0.36 |
| AL 18 I | 1.50 | 18 | 26 | 34 | 40 | 59 | 16 | 7.5 | 0.38 |
| AL 20 I | 2.00 | 20 | 26 | 34 | 40 | 59 | 16 | 10.0 | 0.55 |
| AL 22 I | 2.50 | 22 | 30 | 42 | 55 | 64 | 20 | 12.5 | 0.73 |
| AL 24 I | 3.00 | 24 | 30 | 42 | 55 | 64 | 20 | 15.0 | 1.08 |

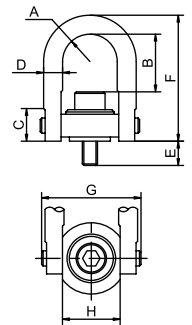
Safety factor 5.



AAI* S/s Hoist ring

304/1.4301

These metric hoist rings can rotate 360° and pivot 180° to absorb any movement from unbalanced loads. Easy to fit, by simply screwing the ring onto the part to be lifted. Use instructions are supplied with each delivery.



| Code | WLL | Thread | Dimensions in mm | | | | | | | | BF | Weight |
|----------|-------|----------|------------------|-----|-----|----|-----|-----|-----|-----|-------|--------|
| | | | t | mm | A | B | C | D | E | F | | |
| AA0.2 I | 0.20 | M8x1.25 | 11 | 32 | 18 | 10 | 13 | 68 | 47 | 25 | 1.0 | 0.17 |
| AA0.25 I | 0.25 | M10x1.50 | 11 | 30 | 18 | 10 | 18 | 68 | 47 | 25 | 1.2 | 0.17 |
| AA0.5 I | 0.52 | M12x1.75 | 22 | 60 | 30 | 19 | 19 | 121 | 89 | 51 | 2.6 | 1.08 |
| AA0.5 LI | 0.52 | M12x1.75 | 22 | 110 | 30 | 19 | 19 | 171 | 89 | 51 | 2.6 | 1.08 |
| AA0.9 I | 0.95 | M16x2.00 | 22 | 56 | 30 | 19 | 29 | 121 | 89 | 51 | 4.7 | 1.12 |
| AA0.9 LI | 0.95 | M16x2.00 | 22 | 106 | 30 | 19 | 29 | 171 | 89 | 51 | 4.7 | 1.12 |
| AA1 I | 1.07 | M20x2.50 | 22 | 52 | 30 | 19 | 34 | 121 | 89 | 51 | 5.3 | 1.19 |
| AA1 LI | 1.07 | M20x2.50 | 22 | 102 | 30 | 19 | 34 | 171 | 89 | 51 | 5.3 | 1.19 |
| AA1.5 I | 1.50 | M20x2.50 | 36 | 78 | 43 | 25 | 32 | 166 | 131 | 76 | 7.5 | 3.03 |
| AA1.5 LI | 1.50 | M20x2.50 | 36 | 118 | 43 | 25 | 32 | 206 | 131 | 76 | 7.5 | 3.03 |
| AA2.1 I | 2.10 | M24x3.00 | 36 | 74 | 43 | 25 | 37 | 166 | 131 | 76 | 10.5 | 3.10 |
| AA2.1 LI | 2.10 | M24x3.00 | 36 | 114 | 43 | 25 | 37 | 206 | 131 | 76 | 10.5 | 3.10 |
| AA3.5 I | 3.50 | M30x3.50 | 45 | 106 | 54 | 32 | 42 | 222 | 165 | 95 | 17.5 | 6.30 |
| AA5.5 LI | 5.50 | M36x4.00 | 57 | 166 | 71 | 44 | 64 | 317 | 217 | 124 | 27.5 | 15.50 |
| AA6.25 I | 6.25 | M42x4.50 | 57 | 160 | 71 | 44 | 82 | 317 | 217 | 124 | 31.2 | 16.00 |
| AA6.75 I | 6.75 | M48x5.00 | 57 | 154 | 71 | 44 | 82 | 317 | 217 | 124 | 33.7 | 16.80 |
| AA11.1 I | 11.15 | M64x6.00 | 76 | 204 | 103 | 57 | 101 | 428 | 296 | 165 | 55.7 | 39.00 |
| AA15.7 I | 15.75 | M72x6.00 | 95 | 220 | 133 | 70 | 132 | 495 | 359 | 206 | 78.7 | 74.00 |
| AA22.3 I | 22.30 | M90x6.00 | 102 | 235 | 153 | 83 | 177 | 561 | 404 | 218 | 111.5 | 118.00 |

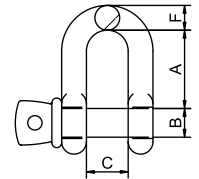
* on request.
Safety factor 5.



MDVI
S/s Screw type dee shackle

316/1.4401

These forged shackles guarantee high quality and performance.



| Code | WLL | Dimensions in mm | | | | | BF | Weight |
|-----------|------|------------------|-----|----|----|------|------|--------|
| | | t | A | F | B | C | | |
| MDV 0.4 I | 0.40 | 32 | 8 | 8 | 16 | 2.0 | 0.07 | |
| MDV 0.6 I | 0.60 | 38 | 9.5 | 10 | 20 | 3.0 | 0.11 | |
| MDV 0.9 I | 0.90 | 50 | 12 | 12 | 25 | 4.5 | 0.25 | |
| MDV 1.5 I | 1.50 | 52 | 13 | 16 | 24 | 7.5 | 0.40 | |
| MDV 2.5 I | 2.50 | 65 | 16 | 20 | 28 | 12.5 | 0.60 | |
| MDV 3 I | 3.00 | 72 | 19 | 22 | 30 | 15.0 | 0.90 | |
| MDV 4 I | 4.00 | 78 | 19 | 25 | 32 | 20.0 | 1.10 | |
| MDV 6 I | 6.00 | 94 | 25 | 30 | 40 | 30.0 | 2.40 | |

Safety factor 5.

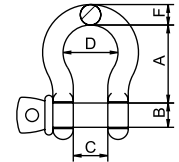
Proof load 2:1



MLVI
S/s Screw type dee shackle

316/1.4401

Screw type anchor shackles feature an open throat design that permits free line movement without undue wear. The wide bow allows ample clearance for thimbles and turnbuckles. These forged shackles guarantee high quality and performance.



| Code | WLL | Dimensions in mm | | | | | | BF | Weight |
|-----------|------|------------------|-----|----|----|----|------|------|--------|
| | | t | A | F | B | C | D | | |
| MLV 0.4 I | 0.40 | 30 | 8 | 8 | 16 | 23 | 2.0 | 0.07 | |
| MLV 0.6 I | 0.60 | 36 | 9.5 | 10 | 20 | 27 | 3.0 | 0.11 | |
| MLV 0.9 I | 0.90 | 47 | 12 | 12 | 25 | 37 | 4.5 | 0.25 | |
| MLV 1.5 I | 1.50 | 47 | 13 | 16 | 25 | 33 | 7.5 | 0.37 | |
| MLV 2.5 I | 2.50 | 60 | 16 | 20 | 28 | 42 | 12.5 | 0.65 | |
| MLV 3 I | 3.00 | 67 | 19 | 22 | 30 | 51 | 15.0 | 1.00 | |
| MLV 4 I | 4.00 | 84 | 22 | 25 | 36 | 57 | 20.0 | 1.70 | |
| MLV 6 I | 6.00 | 95 | 25 | 30 | 40 | 66 | 30.0 | 2.50 | |

Safety factor 5.

Proof load 2:1

Larger sizes upon request

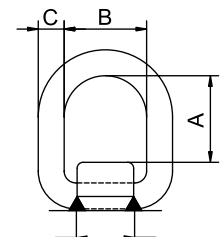
MLBI – MDBI - The bolt type anchor and dee shackles are available only from M12 to M30 on request. The dimensions are similar to the MLVI and MDVI shackles.



PASI
S/s Weld-on transport ring

316 Ti/1.4571

Welding must only be carried out by a qualified welder, in accordance with DIN EN 287-1. The surfaces to be welded must be clean, without oil, grease or paint... Welding instructions are supplied with each delivery.



| Code | WLL | Dimensions in mm | | | | BF | Weight |
|------------|------|------------------|----|----|------|------|--------|
| | | t | A | B | C | | |
| PAS 0.75 I | 0.75 | 42 | 40 | 13 | 3.0 | 0.40 | |
| PAS 1.25 I | 1.25 | 49 | 45 | 18 | 5.0 | 0.60 | |
| PAS 3.20 I | 3.20 | 57 | 55 | 22 | 12.8 | 1.20 | |
| PAS 5 I | 5.00 | 67 | 70 | 26 | 20.0 | 2.40 | |