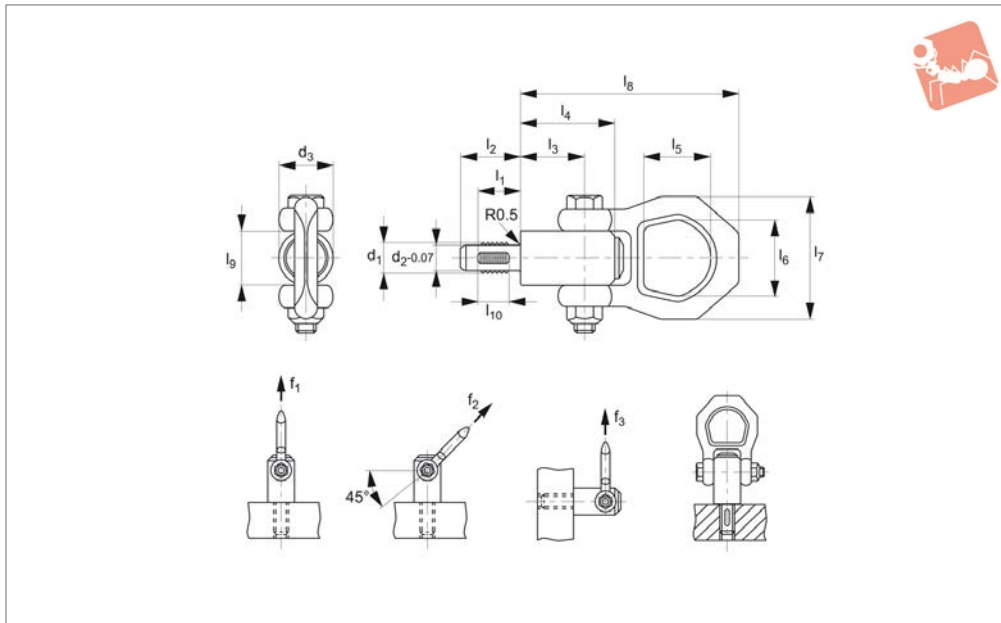




Quick Lift Pins - Threaded

metric coarse threads

Lifting Points & Shackles



63001

LIFTING POINTS & SHACKLES

Material

Steel

Pin: Heat-treated steel, tempered, manganese phosphated.
 Threaded element: Stainless steel 1.4542, (AISI 630) precipitation hardened.
 Shackle: Steel, heat-treated, tempered, manganese phosphated.
 Press button: Aluminium, orange anodised.
 Spring: Stainless Steel.

Stainless steel

Pin: Stainless steel 1.4542, (AISI 630)

precipitation hardened.

Threaded element: Stainless steel 1.4542, (AISI 630) precipitation hardened.
 Shackle: Stainless steel 1.45471.
 Press button: Aluminium, orange anodised.
 Spring: Stainless Steel.

Technical Notes

Both types are corrosion protected, stainless steel pin is resistant to corrosion and weathering, so suitable for external use.
 Included: Instruction manual and CE Declaration of Conformity.

Depress button: unlock.
 Release button: lock.

Tips

Before use: Read instruction manual, data sheets and follow standard safe lifting procedures.

Important Notes

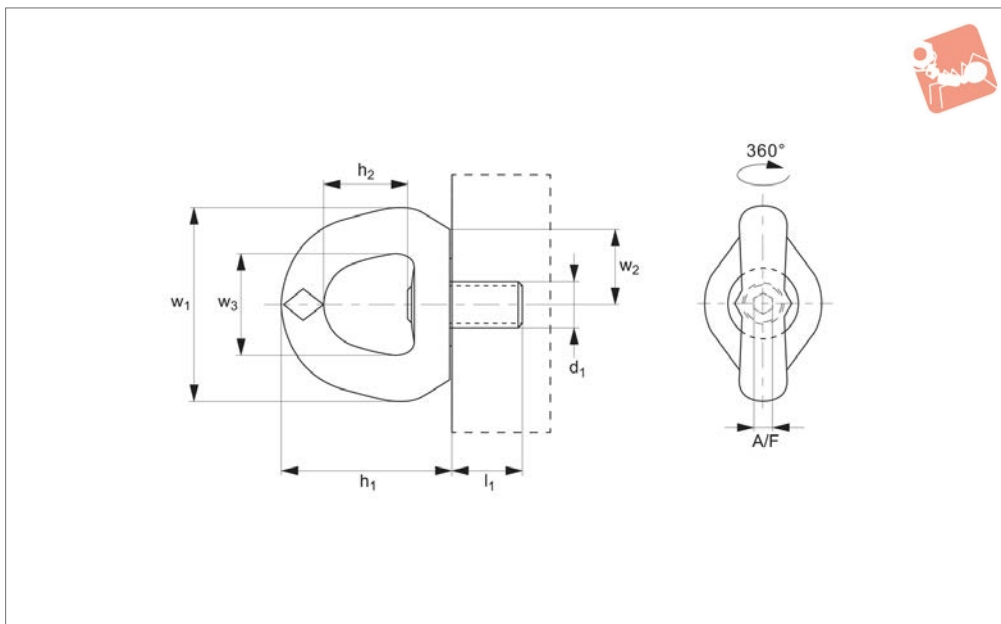
f_1^* , f_2^* , and f_3^* values calculated on 5 x safety factor.

Order No.	Type	d_1	l_1	d_2 -0.07	d_3	l_2	l_3	l_4	l_5	Weight g
63001.W0010	Steel	M10	14	8.35	21.5	20	25.7	36	27	218
63001.W0012	Steel	M12	17	10.07	21.5	24	25.7	36	27	220
63001.W0016	Steel	M16	17	13.80	21.5	24	25.7	36	27	223
63001.W1010	Stainless	M10	14	8.35	21.5	20	25.7	36	27	218
63001.W1012	Stainless	M12	17	10.07	21.5	24	25.7	36	27	220
63001.W1016	Stainless	M16	17	13.80	21.5	24	25.7	36	27	223

Order No.	l_6	l_7	l_8	l_9	l_{10}	F_1 kN	F_2 kN	F_3 kN
63001.W0010	30	49	87.5	21.5	10	3.9	1.5	1.5
63001.W0012	30	49	87.5	21.5	12	6.2	2.5	2.3
63001.W0016	30	49	87.5	21.5	12	8.4	4.5	4.2
63001.W1010	30	49	87.5	21.5	10	3.9	1.5	1.5
63001.W1012	30	49	87.5	21.5	12	6.2	2.5	2.3
63001.W1016	30	49	87.5	21.5	12	8.4	4.5	4.2



63020



Material

High tensile steel, strength class >8.
Supplied with CE certificate.

Technical Notes

Single articulation, 360°, very low overhang for improved safety, large support surface.

Longer or shorter thread lengths can be supplied but please consult our technical department for this information if required.

For use in temperatures from -20°C to +200°C. Can be used in lower or higher

temperatures but, this affects the load rating - please ask for more information.
Please refer to our technical information pages when specifying and/or using.

Tips

Allows swivelling under load.
Swivel eye bolt with „automatic“ position recovery system for best orientation to sling direction.

Important Notes

The thread diameter and depth must be

appropriate to the material into which it will be installed:

Steel (min. ST37) - 1 x thread dia.

Cast iron - 1.25 x thread dia.

Aluminium - 2 x thread dia.

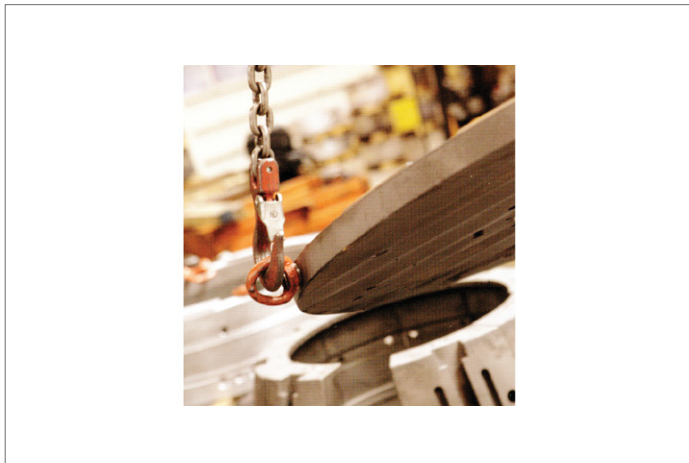
Other light metals - 2.5 x thread dia.

Tolerance of female thread to be 6H (metric).

Please refer to the safety documentation before using this part.

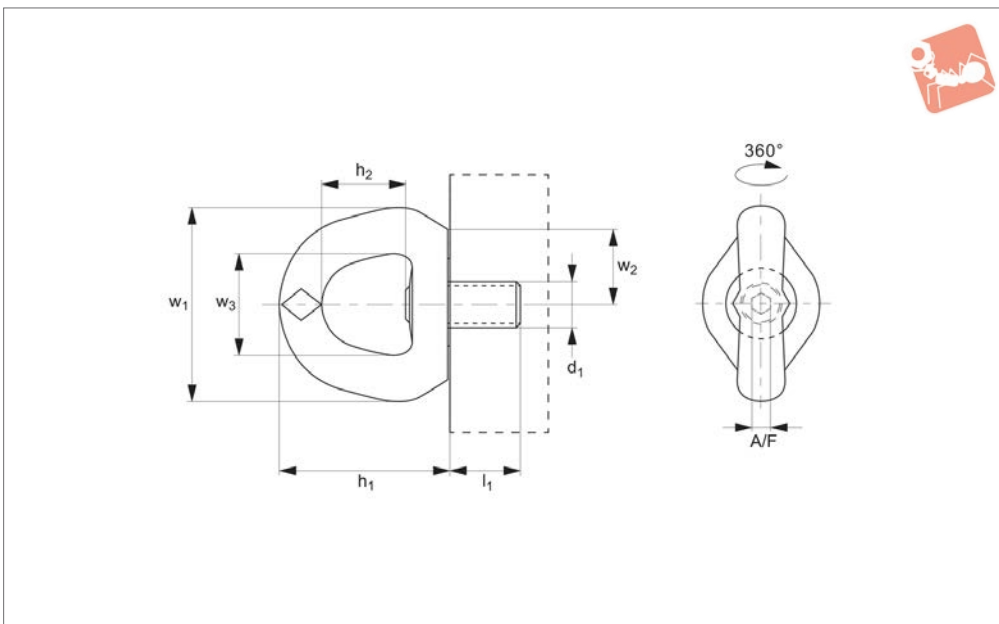
Supplied with certificate and operating instructions.

Order No.	Load tonnes (t) max.	d ₁ tol. 6G	l ₁	h ₁	h ₂	w ₁	w ₂	w ₃	A/F	Safety factor	Torque to Nm	Weight kg
63020.W0008	0.5	M 8x 1,25	14	57	30	60	20	34	6	4	6	0.24
63020.W0010	0.7	M10x1,50	17	57	30	60	20	34	6	4	10	0.24
63020.W0012	0.9	M12x1,75	21	57	30	60	20	34	6	4	15	0.24
63020.W0016	1.8	M16x2,00	27	80	38	88	35	45	8	4	50	0.80
63020.W0020	2.7	M20x2,50	30	80	38	88	35	45	8	4	100	0.80
63020.W0024	4.2	M24x3,00	36	106	58	115	50	70	14	4	160	2.60
63020.W0030	6.3	M30x3,50	45	106	58	115	50	70	14	4	250	2.70
63020.W0036	11.0	M36x4,00	54	155	83	168	70	94	14	4	320	7.00
63020.W0042	15.0	M42x4,50	63	155	83	168	70	94	14	4	400	7.00
63020.W0048	16.0	M48x5,00	68	155	80	168	70	94	19	4	600	7.00





63022



Material

Stainless steel 316L.
Supplied with CE certificate.

Technical Notes

Single articulation, 360°, very low overhang for improved safety, large support surface.
Longer or shorter thread lengths can be supplied but please consult our technical department for this information if required.
For use in temperatures from -20°C to +200°C. Can be used in lower or higher

temperatures but, this affects the load rating - please ask for more information.
Please refer to our technical information pages when specifying and/or using.

Tips

Allows swivelling under load.
Swivel eye bolt with „automatic“ position recovery system for best orientation to sling direction.

Important Notes

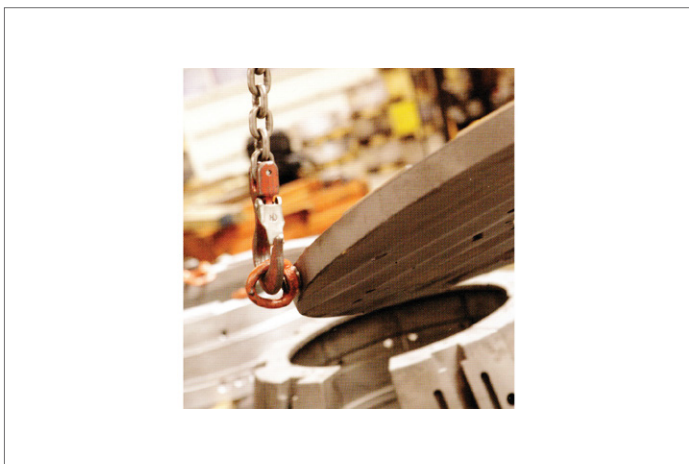
The thread diameter and depth must be

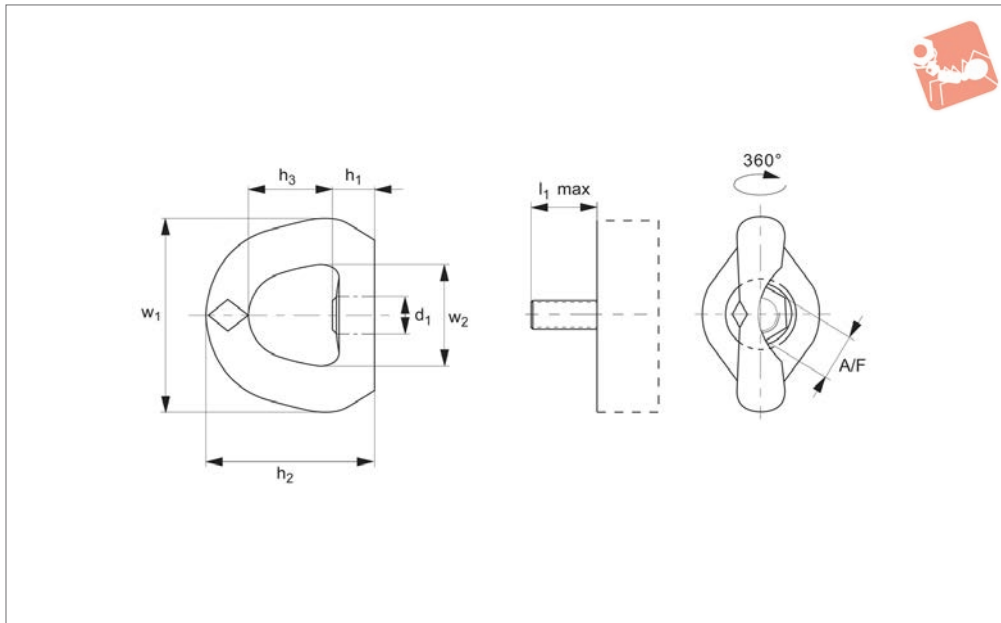
appropriate to the material into which it will be installed:

- Steel (min. ST37) - 1 x thread dia.
 - Cast iron - 1.25 x thread dia.
 - Aluminium - 2 x thread dia.
 - Other light metals - 2.5 x thread dia.
- Tolerance of female thread to be 6H (metric).

Please refer to the safety documentation before using this part.
Supplied with certificate and operating instructions.

Order No.	Load tonnes (t) max.	d ₁ tol. 6G	l ₁	h ₁	h ₂	w ₁	w ₂	w ₃	A/F	Safety factor	Torque to Nm	Weight kg
63022.W0012	0.55	M12x1,75	21	80	38	90	20	45	8	4	15	0.80
63022.W0016	1.20	M16x2,00	27	80	38	90	35	45	8	4	50	0.82





63024

Material

High tensile steel, strength class >8.
Supplied with CE certificate.

Technical Notes

Single articulation, very low overhang for improved safety, large support surface.
For use in temperatures from -20°C to +200°C. Can be used in lower or higher temperatures, but this affects the load rating - please ask

for more information.

Please refer to our technical information pages when specifying and/or using.

Tips

Allows swivelling under load.
Swivel eye bolt with „automatic“ position recovery system for best orientation to sling direction.
Permits the hook to move parallel to the supporting face of the ring when being

pulled at 90° angle.

Important Notes

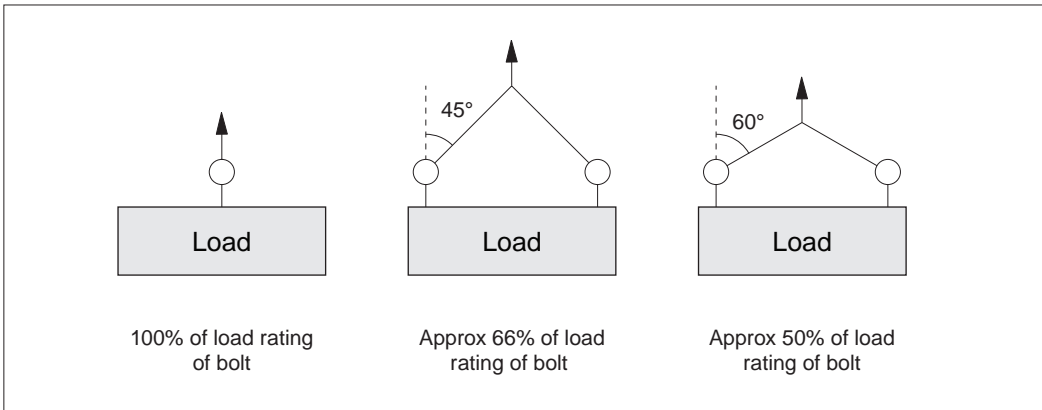
Tolerance of male thread to be 6g (metric).
Please refer to the safety documentation before using this part.
Supplied with certificate and operating instructions.

Order No.	Load tonnes (t) max.	d ₁ 6H	h ₁ & l _{max.}	h ₂	h ₃	w ₁	w ₂	A/F	Safety factor	Torque to Nm	Weight kg
63024.W0008	0.5	M 8x 1,25	22	80	38	88	45	21	4	6	0.8
63024.W0010	0.7	M10x1,50	22	80	38	88	45	21	4	10	0.8
63024.W0012	0.9	M12x1,75	22	80	38	88	45	21	4	15	0.8
63024.W0016	1.8	M16x2,00	22	80	38	88	45	21	4	50	0.8
63024.W0020	2.7	M20x2,50	35	106	55	115	70	36	4	100	2.5
63024.W0024	4.2	M24x3,00	48	155	77	168	94	40	4	160	6.3
63024.W0030	6.3	M30x3,50	48	155	77	168	94	40	4	250	6.3
63024.W0036	11.0	M36x4,00	48	155	77	168	94	40	4	320	6.3





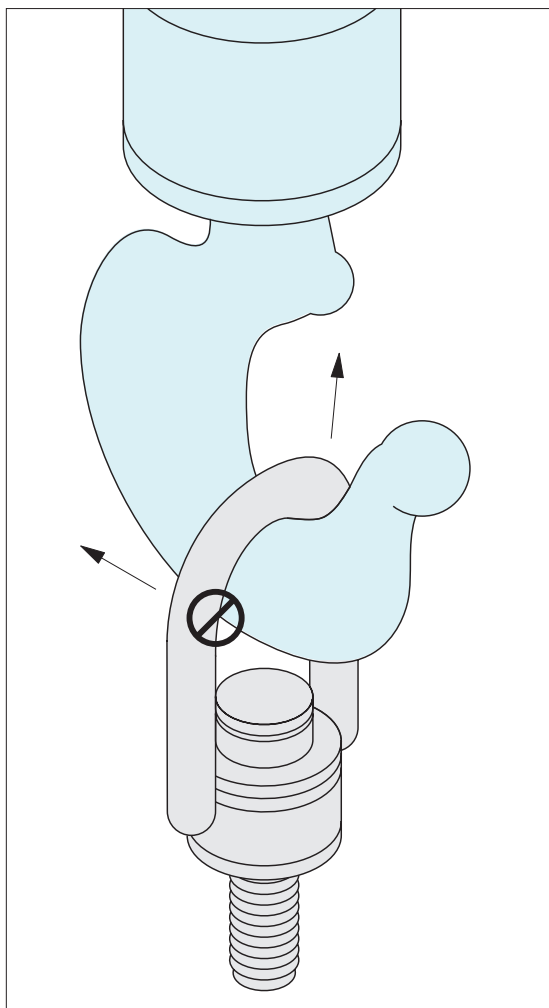
General product information



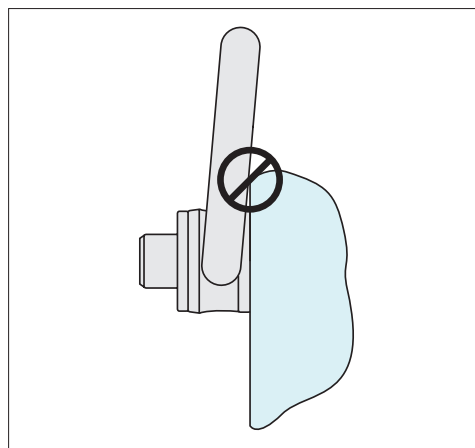
Lifting angles

For full information on lifting arrangements see technical pages

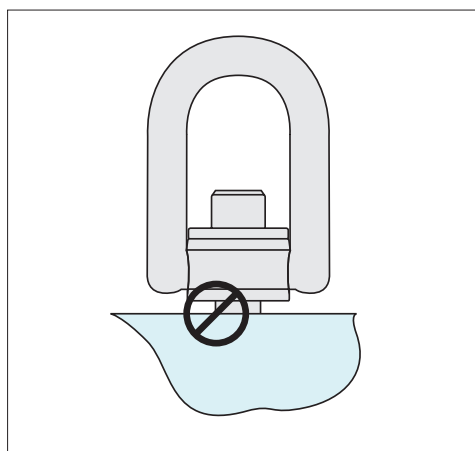
Installation information



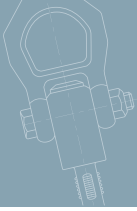
Never use an oversized hook or other lifting device which will pry or tend to open the "U" shaped bar on centre pull hoists rings.



After installation, check the hoist ring to be sure it swivels and pivots freely in all directions. The side of the ring must not contact anything.



Always ensure full thread engagement when installing hoist rings.



Instructional Overview

Operating instructions

Note: The full thread must be engaged. Longer thread lengths can be supplied on request or a bolt and washer/nut combination can be used.

- Ensure all lifting bolts are CE marked.
- Ensure they are handled by qualified personnel.
- Refer to the operating instructions particularly with regards to product selection, any possibility of the load swivelling, the effect of lifting angles on the load capacity (see relevant tables), etc.
- Never allow any personnel underneath a suspended load.
- Always heed the load rating of the lifting bolt.
- Always perform a visual inspection of the lifting rings prior to use. Checking for any damage to thread and/or swivelling system. Check for wear or corrosion, signs of stress or bending.
- Ensure a yearly full service inspection is performed.
- Always ensure the full bottom face of the lifting bolts is in contact with a smooth, square surface.
- Ensure bolt is tightened to the correct torque.
- Ensure full and unrestricted movement of the lifting ring in all directions.
- Before each lift ensure the correct orientation of the shackle in the lift direction.
- Avoid using our standard steel lifting rings in corrosive environments eg. sandy, chemical, acid, moisture etc. In this case consider using our stainless steel lifting rings.
- Note the thread length requirements:
 - 1 x thread diameter for steel (ST37 min.).
 - 1.25 x thread diameter for cast iron.
 - 2 x thread diameter for aluminium.
 - 2.5 x thread diameter for other light metals.
 - If fixing into low resistance material it is better to allow for a bigger diameter thread to compensate for the lower material resistance.

Temperature extremes

-40°C to -20°C	Load rating reduces by 20%.
+200°C to +300°C	Load rating reduces by 10%.
+300°C to +400°C	Load rating reduces by 25%.

Rugged environments



Certificate of Conformity

For harsh environments we recommend the use of our stainless steel lifting rings.



63200 - Threads M8 – M30
Loads 0,3 tons – 3 tons.

63210 - Threads M30 – M45
Loads 3,5 tons – 6 tons.



Benefits of Swivel Lifting Rings Over Lifting Rings

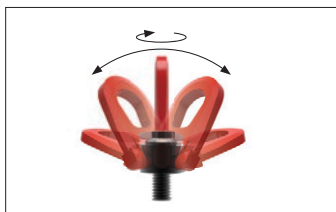


Materials Handling

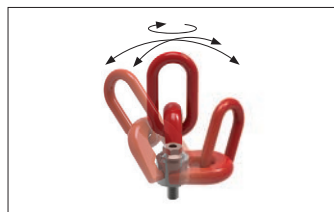
LIFTING POINTS & SHACKLES



Single swivel - threads M8 – M48
loads 0,3 tons – 15 tons



Double swivel - threads M4 – M100
loads 0,05 tons – 50 tons



Triple swivel - threads M8 – M56
loads 0,3 tons – 22 tons

Swivel lifting rings

Our swivel lifting rings fully comply with the EC directive 2006/42/EC. They are CE marked and are supplied with a Certificate of Conformity. There is a 100% check on anti-cracking, a proof load test of 2.5 x load limit and a safety factor of 5 on most parts. Each ring is individually marked to ensure full product traceability.

The Swivel Lifting Rings come in three main forms – depending on the number of axis required to swivel. The most popular type is the double swivel rings.

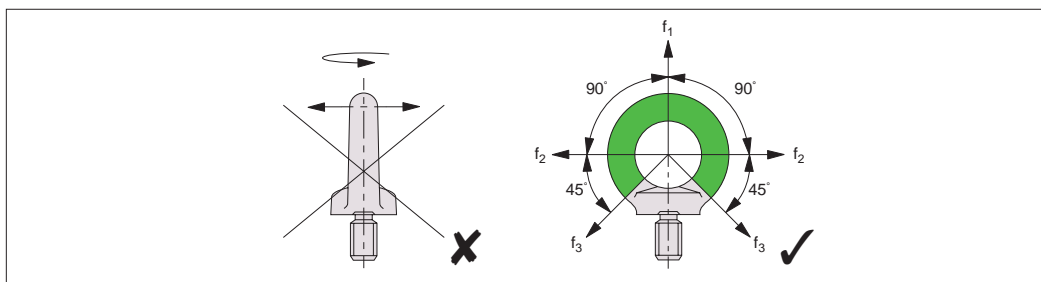
Pros

- ✓ Individual CE certification
- ✓ CE marked
- ✓ 100% physical check
- ✓ Proof load test of 2.5 x load limit
- ✓ Safety factor 5x stated load
- ✓ 100% traceability with individual marking
- ✓ Complies with 2006/42/CE
- ✓ Axial load
- ✓ Max. load bearing 90°
- ✓ Max. lateral load 90°
- ✓ Swivel loads
- ✓ Forces across lifting ring plane (double and triple swivel type)

Cons

High tensile lifting rings

The High-tensile lifting bolts are similar to the standard lifting bolts but are rated at higher loads and can lift loads at up to 90° from the thread. They are not meant for loads that might swivel.



Pros

- ✓ CE marked
- ✓ Axial load
- ✓ Max. load bearing 90°
- ✓ Max. lateral load 90°

Cons

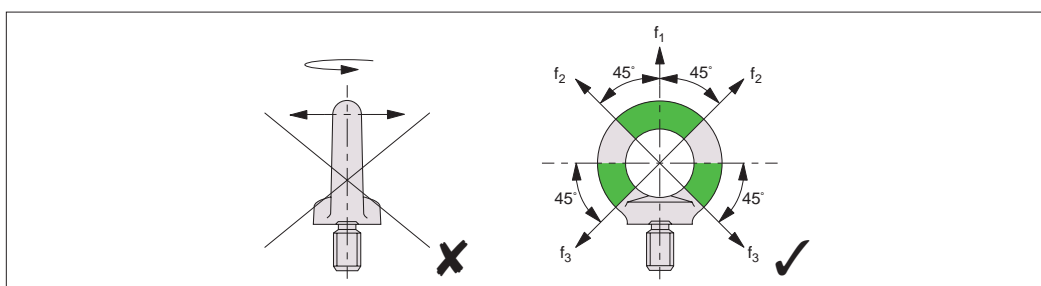
- ✗ Individual CE certification
- ✗ Shear tension
- ✗ Swivel loads
- ✗ Forces across lifting ring plane

Important Note:
Forces must act in the direction of the lifting ring plane.

Standard lifting rings DIN580 and DIN582

These are CE marked and are available with male or female threads in either steel or stainless steel (A4 AISI 316). They are meant only for axial loads, or load bearing or lateral loads at a maximum of 45° from the thread. They are not for use under shear tension or loads (across the thread), nor for loads likely to swivel.

Applied forces must act in the direction of the eye bolt plane, do not apply forces across the eye bolt plane.



Pros

- ✓ CE marked
- ✓ Axial load
- ✓ Max. load bearing 45°
- ✓ Max. lateral load 45°

Cons

- ✗ Individual CE certification
- ✗ Shear tension
- ✗ Swivel loads
- ✗ Forces across lifting ring plane

Important Note: Forces must act in the direction of the lifting ring plane.



63020 Male

Lifting configuration	↑		↑		↑		↑	
	P	P	P	P	α max. = 60°	α max. = 60°	α max. = 60°	α max. = 60°
No. of rings	1	2	1	2	2	2	4	4
Lifting angle	0°	0°	90°	90°	45°	60°	45°	60°
Thread	Maximum load rating for given lifting configuration							
M8 tons	0,30	0,60	0,30	0,60	0,40	0,30	0,60	0,30
M10 tons	0,60	1,20	0,60	1,20	0,80	0,60	1,30	0,60
M12 tons	1,00	2,00	1,00	2,00	1,40	1,00	2,10	1,00
M16 tons	1,60	3,20	1,60	3,20	2,20	1,60	3,40	1,60
M20 tons	2,50	5,00	2,50	5,00	3,50	2,50	5,30	2,50
M24 tons	4,00	8,00	4,00	8,00	5,60	4,00	8,40	4,00
M30 tons	6,30	12,60	6,30	12,60	8,80	6,30	13,20	6,30
M36 tons	10,00	20,00	10,00	20,00	14,00	10,00	21,00	10,00
M42 tons	12,50	25,00	12,50	25,00	17,50	12,50	26,30	12,50
M48 tons	15,00	30,00	15,00	30,00	21,00	15,00	31,50	15,00

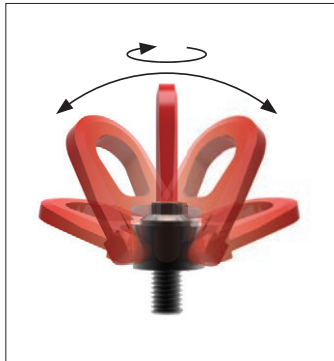
Important Note: Table shows the maximum load rating for a given lifting configuration (NOT maximum load rating per individual lifting ring).



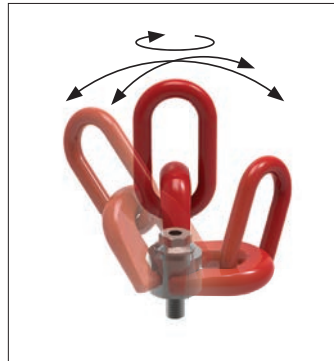
Swivel lifting rings



Single swivel - threads M8 – M48
loads 0,3 tons – 15 tons



Double swivel - threads M4 – M100
loads 0,05 tons – 50 tons



Triple swivel - threads M8 – M56
loads 0,3 tons – 22 tons

Our swivel lifting rings fully comply with the EC directive 2006/42/EC. They are CE marked and are supplied with a Certificate of Conformity. There is a 100% check on anti-cracking, a proof load test of 2.5 x load limit and a safety factor of 5 on most parts. Each ring is individually marked to ensure full product traceability. The Swivel Lifting Rings come in three main forms – depending on the number of axis required to swivel. The most popular type is the double swivel rings.

LIFTING POINTS & SHACKLES



Steel

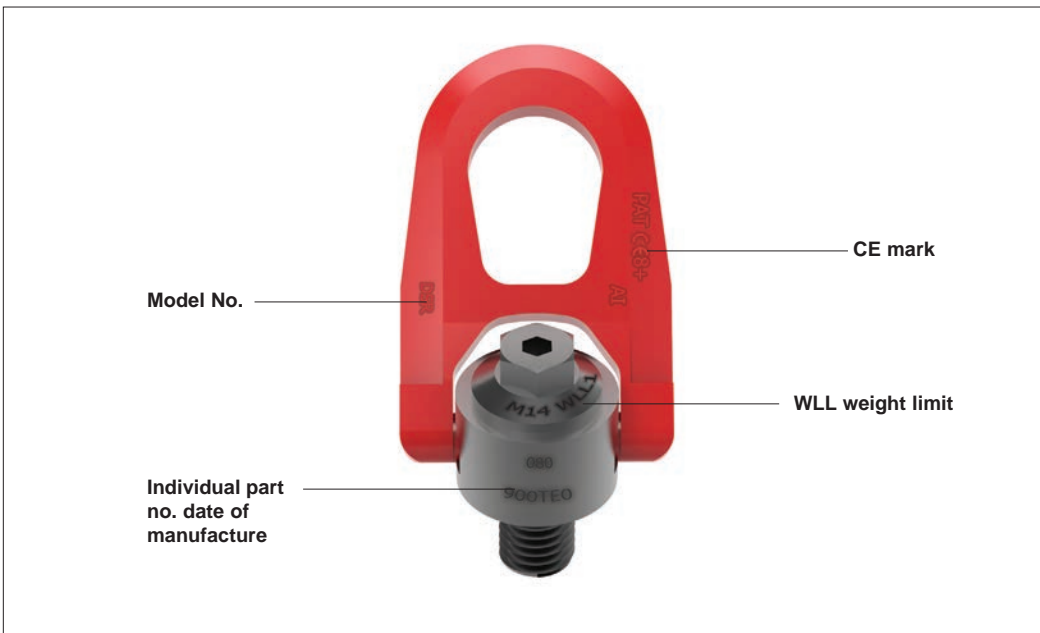


Stainless (316L)

Steel and stainless steel (316) versions

Compliant with 2006/42/EC, and with individual date of manufacture and batch number.

Product marking



A swivel lifting rings that complies with 2006/42/CE

ov-W63020-AP4002-T-W63750-A-T-swivel-lifting-rings-lifting-bolts-introduction-mh- Updated -28-10-2022