



SFA | Amboßweg 1a | 59519 Möhnesee

Operating instructions Sling Swivel Quality Category 8

(Version of July 2021)

CE Declaration of Conformity

Machinery directive 2006/42/EC Appendix IIA

It is hereby confirmed that all the materials subject to this declaration comply with all applicable provisions of Directive 2006/42/EC.

Sling swivels must be inspected for the following aspects prior to being used and one time per year.

- The sling swivels must not show any defects due to wear and tear, corrosion, cracks or significant deformation.
- The markings must be legible.
- The loads to be lifted must comply with the respective lifting capacities, please refer to the load table.
- Wear and tear of the ring in the area of the hook to be used must not be more than 10% of the nominal diameter.
- Slackness "s" between the upper and lower part (rotational axis) must not exceed the parameters indicated in the table.

WLL (t)	Max S
0.3 - 0.5 - 1.12	1.5 mm
2	2 mm
3.15 - 5.3	2.5 mm
8 - 10	3 mm
15 - 17	4 mm
25 - 30 - 35	4 mm

- The swivel bracket must be screwed on and the top must turn freely.

Should the inspections reveal a negative result, the sling swivel may no longer be used and must be replaced.

Please note that:

- Inspections must be performed by qualified personnel.
- As sling swivels are part of the hoisting equipment, they are subject to regular inspections that must be scheduled according to the applicable regulations and laws.
- The swivel bracket must be installed by qualified personnel. The relevant provisions of the Machinery Directive 2006/42/EC and subsequent amendments must be considered.

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Eintragung

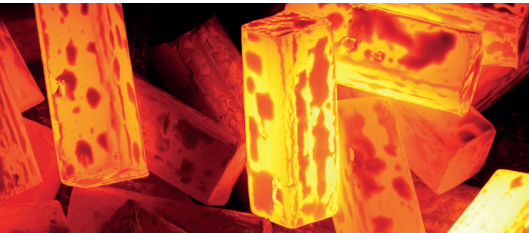
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- The specialist who monitors the lifting process, must always determine the centre of gravity of the load and the sling swivel must be positioned in such a way that it is always ensured that the load is evenly distributed.
- For an asymmetric load, a reduction in loading capacity according to the reference table must be considered.
- Check the suitability of the strength class of the nut screw for the sling swivel in relation to the load to be lifted (the material of the nut screw must have a tensile strength equal to or greater than that of steel S235JR - determination reference UNI ES 10025)
- The depth of the threaded hole must at least correspond to the length of the thread.
- The threaded hole must be at a right angle to the contact surface.
- Check whether the contact surface of the nut screw is suitable in terms of flatness and size to ensure the support of the entire plain surface of the hub eyelet and its sufficient tightness. The use of the sling swivel with projecting parts of the contact surface is prohibited.
- To install the sling swivel, it is sufficient to manually tighten the screw with an open-end wrench, without using any extensions because the screw could be excessively stressed with a too high torque.
- Tighten the sling swivel until the swivel is completely on contact surface.
- After tightening, check whether the upper part can be turned freely and smoothly.
- After installation, the ring must be aligned in the direction of the load.
- Temperature suitability

Ambient temperature	Reduction of the load-bearing capacity
Below - 20 °C	Not permitted
From - 20 °C to 100 °C	None
From 100 °C to 200 °C	-15%
From 200 °C to 250 °C	-20%
From 250 °C to 350 °C	-25%
Over 350 °C	Not permitted

- quadruple safety
- For axial tension, a deviation of +/-5 °C of the load bearing capacity is permitted.
- The eye bolt can be used in absolutely safe conditions up to max. 20,000 hub operations with a full load.
- The legal provisions for the protection of the person must be considered when lifting with high risk.
- Non-compliance with these instructions may cause injury and mechanical damage.

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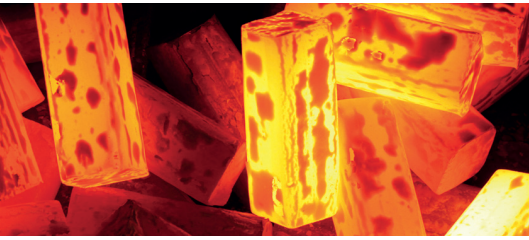
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Prohibited activities

- Unsuitable for permanent swivelling under load.
- Do not use the sling swivel in acidic environment or in a heavily corrosive environment caused by chemical substances and/or in an explosive atmosphere.
- Do not use the sling swivel in an environment with temperatures above 350°C or below -20°C.
- The load capacity parameters indicated in the table must not be exceeded.
- Do not use the sling swivel for any purposes other than those mentioned in the part: intended use.
- When mounting the ring screws, the prescribed tightening torques according to DIN must not be exceeded.
- Do not use the swivel ring to lift persons.
- Staying in the danger zone during operation (below the danger zone as well as within the range of the possible crash and the reach of the component that may start swinging) is prohibited.
- Warranty will expire, if changes or repairs and/or subsequent treatment are made to the product. In such an event, any liability shall expire.

Storage

The eye bolt must be stored in an appropriate environment (e.g. dry, non-corrosive, etc.).

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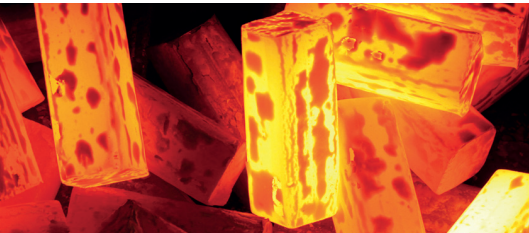
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Maximum load weight "G" in various hoisting types for sling swivel GK 8

Hoisting type									
Number of ropes	1	1	2	2	2 symmetrical		3; 4 symmetrical		2; 3; 4
Angle	0°	90°	0°	90°	0°-45°	45°-60°	0°	45°-60°	Asymmetrical
M8x18 in tons	0.3	0.3	0.6	0.6	0.42	0.3	0.63	0.45	0.3
M10x18 in tons	0.5	0.5	1	1	0.7	0.5	1.05	0.75	0.5
M12x18 in tons	0.5	0.5	1	1	0.7	0.5	1	0.7	0.5
M12x27 in tons	0.5	0.5	1	1	0.7	0.5	1.05	0.75	0.5
M14x20 in tons	1.12	1.12	2.24	2.24	1.57	1.12	2.35	1.68	1.12
M16x20 in tons	1.12	1.12	2.24	2.24	1.57	1.12	2.35	1.68	1.12
M16x30 in tons	1.12	1.12	2.24	2.24	1.57	1.12	2.35	1.68	1.12
M20x30 in tons	1.12	1.12	2.24	2.24	1.57	1.12	2.35	1.68	1.12
M24x30 in tons	1.12	1.12	2.24	2.24	1.57	1.12	2.35	1.68	1.12
M20x30 in tons	2	2	4	4	2.8	2	4.2	3	2
M24x40 in tons	2	2	4	4	2.8	2	4.2	3	2
M20x50 in tons	2	2	4	4	2.8	2	4.2	3	2
M20x70 in tons	2	2	4	4	2.8	2	4.2	3	2
M24x30 in tons	3.15	3.15	6.3	6.3	4.41	3.15	6.62	4.73	3.15
M24x45 in tons	3.15	3.15	6.3	6.3	4.41	3.15	6.62	4.73	3.15
M24x50 in tons	3.15	3.15	6.3	6.3	4.41	3.15	6.62	4.73	3.15
M30x35 in tons	3.15	3.15	6.3	6.3	4.41	3.15	6.62	4.73	3.15
M30x35 in tons	5.3	5.3	10.6	10.6	7.42	5.3	11.13	7.95	5.3
M30x45 in tons	5.3	5.3	10.6	10.6	7.42	5.3	11.13	7.95	5.3
M30x35 in tons	8	8	16	16	11.2	8	16.8	12	8
M30x45 in tons	8	8	16	16	11.2	8	16.8	12	8
M36x50 in tons	8	8	16	16	11.2	8	16.8	12	8
M36x50 in tons	10	10	20	20	14	10	21	15	10
M42x50 in T	10	10	20	20	14	10	21	15	10
M42x63 in T	10	10	20	20	14	10	21	15	10
M45x60 in T	10	10	20	20	14	10	21	15	10
M48x60 in T	10	10	20	20	14	10	21	15	10
M48x68 in T	15	15	30	30	21	15	31,5	22,5	15
M56x84 in T	15	15	30	30	21	15	31,5	22,5	15
M64x96 in T	15	15	30	30	21	15	31,5	22,5	15

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M72x108 in T	25	25	50	50	35	25	52,5	37,5	25
M80x120 in T	30	30	60	60	42	30	63	45	30
M90x135 in T	35	35	70	70	49	35	73,5	52,5	35

Tightening torque for unique application

Hoisting type	Lifting capacity in T	Tightening torque in Nm
M8x18 in T	0,3	30
M10x18 in T	0,5	60
M12x18 in T	0,5	100
M12x27 in T	0,5	100
M14x20 in T	1,12	120
M16x20 in T	1,12	150
M16x30 in T	1,12	150
M20x30 in T	1,12	250
M24x30 in T	1,12	400
M20x30 in T	2	250
M24x40 in T	2	400
M20x50 in T	2	250
M24x30 in T	3,15	400
M24x45 in T	3,15	400
M24x50 in T	3,15	400
M30x35 in T	5,3	500
M30x45 in T	5,3	500
M30x35 in T	8	550
M30x45 in T	8	550
M36x50 in T	8	800
M36x50 in T	10	850
M42x50 in T	10	1000
M42x63 in T	10	1000
M45x60 in T	10	1800
M48x60 in T	10	2000
M48x68 in T	15	2000
M56x84 in T	15	2000
M64x96 in T	15	2000

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