

## Technical information – Safety ring bolts SN1594

### Mounting and safety notices

- Easy to assemble / dismantle thanks to forged hexagon on the body of the swivel.
- Crimped marks prevent the link from kinking.
- Corrosion protection through galvanising, including the internal areas.
- Clear indication of the permitted angle of inclination in conjunction with sling chains and ropes.
- Pivoting range of the ring: 180° max.
- No alignment as the locating ring can be rotated into the correct position.
- Special dimensions on request.

For the selected safety ring bolt the general rules for prevention of accidents are valid. All attachment swivels and attachment points have to be inspected by a competent person at least once a year.

The used links for lifting have to be inspected on wear and elongation in accordance to the general rules for prevention of accidents.

An inspection of ability of utilisation and function has to be effected before every use. For example: strong corrosion, wear, cracks in the weld seam, deformations, tight screws etc.

Damages of safety ring bolts due to sharp edged loadings have to be excluded.

The loading capacities (Z1) in kg which are indicated in the following table should not be exceeded.

The safety ring bolts has to be positioned in such a way the plain bearing surface is suited for the acceptance of the expected force introduction.

The flat bearing surface must be at least correspond to the diameter measure “d” of the applied safety ring bolts.

For the safety ring bolts additionally applies:

- contact surfaces must be plain
- tighten to stopping face with spanner DIN 895 respectively DIN 894
- secure if required with Locite™
- the minimum thread reach depends on the recommendation of the employer’s liability insurance association:
 

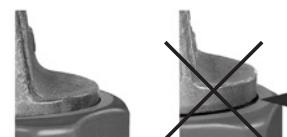
in steel	1.00 x d1
in cast iron	1.25 x d1
in Al	2.00 x d1
in ALMn	2.50 x d1

Temperature range for safety ring bolts:

- > -40 °C ≤ 200 °C = 100 % WLL
- > 200 °C ≤ 300 °C = 90 % WLL
- > 300 °C ≤ 400 °C = 75 % WLL\*

\* Contact the manufacturer before application

Indication of ball bearing wear, wear ring can be recognised even without measuring instruments.



King of attachment								
	Z1 max	Z1 max	Z1 max	Z1 max	Z1 max	Z1 max	Z1 max	Z1 max
Number of lifting points	1	1	2	2	2	2	3 / 4	3 / 4
Inclination angle	0°	90°	0°	90°	0° - 45°	45° - 60°	0° - 45°	45° - 60°
Loading capacity:	kg	kg	kg	kg	kg	kg	kg	kg
SN1594 - M12 - 13	1400	700	2800	1400	1000	700	1400	1000
SN1594 - M16 - 13	2800	1400	5600	2800	2000	1400	3000	2120
SN1594 - M20 - 16	5000	2500	10000	5000	3550	2500	5300	3750
SN1594 - M24 - 18	8000	4000	16000	8000	5600	4000	8500	6000
SN1594 - M30 - 20	12000	6700	24000	13400	9500	6700	14000	10000
SN1594 - M36 - 23	15000	10000	30000	20000	14000	10000	21200	15000
SN1594 - M42 - 23	15000	12500	30000	25000	17000	12500	25000	18000
SN1594 - M45 - 30	25000	17000	50000	34000	23500	17000	35000	25000



In the case of an unsymmetrical load distribution, the lifting capacities applicable to the 2 and 3 / 4-leg slings are the same as for 1-leg types at 90°.