Criteria of replacement state of the Wirbelstar

Lifting devices must be inspected according to the regulation DGUV 100-500, chapter 2.8 par. 3.15.4, by an expert annually considering following criteria. Depending on the working conditions the inspections might be necessary in shorter intervals than only once a year. This might be caused by frequent use, increased wear, corrosion or heat treatment.

Prior inspection of the Wirbelstar it must be cleaned. Within an inspection the following points have to be considered:



















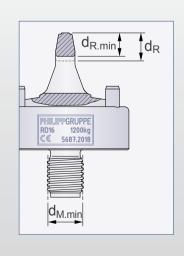


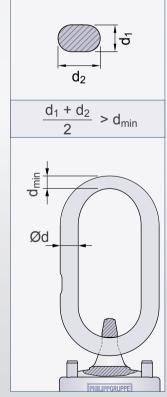
- Deformation of chain link (Picture)

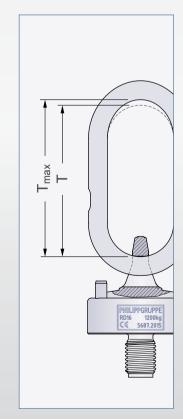
- ✓ Twisted threaded bolt (Picture)

- ✓ Marking not readable anymore

Test dimensions							
Load	$d_{M.min}$	d_R	$d_{R.min}$	Ød	d _{min}	Т	T _{max}
class	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
12	11,50	10,0	9,0	10,0	9,0	85	89
14	13,50	10,0	9,0	10,0	9,0	85	89
16	15,45	10,0	9,0	10,0	9,0	110	116
18	17,40	17,0	15,3	16,0	14,4	95	100
20	19,40	17,0	15,3	16,0	14,4	102	107
24	23,40	17,0	15,3	18,0	16,2	125	131
30	29,40	22,0	19,8	22,0	19,8	148	155
36	35,40	28,0	25,2	26,0	23,4	160	168
42	41,20	28,0	25,2	26,0	23,4	160	168
52	51,20	30,0	27,0	36,0	32,4	220	231







If one of the above-mentioned points is fulfilled the Wirbelstar has reached its replacement state and **must not be used anymore**.

To be replaced

