EXCEL® Swivels

Applications

Swivels are used to prevent wire rope or chain from transferring their normal twisting motion to the item being lifted. EXCEL[®] swivels are designed to rotate under load.

Range

The EXCEL® product line offers two types of swivels. Both are equipped with needle bearings.

Design

EXCEL® swivels are drop forged. They do not need grease during use.

These components are generally marked as follows:

- manufacturer's symbol
- chain diameter in mm and/or inch
- traceability code
- steel grade
- item code
- origin

e.g. 13 and/or ¹/₂"
e.g. HA
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EXCEL

- e.g. ECA
- FRANCE

Finish

EXCEL® swivels are powder coated in red.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements with Van Beest at time of order.

Instructions for use

Swivels should be inspected before use to ensure that:

- all markings are legible;
- a swivel with the correct WLL has been selected. For further details we refer to the EN818 standard for chain slings;
- swivels and the other components are all of the same steel grade;
- swivels must be used for in-line lifting only;
- the bolt, nut or any other locking system cannot vibrate out of position;
- swivels are not distorted or unduly worn;
- swivels are free from nicks, gouges, cracks and corrosion;
- swivels may not be heat treated as this may affect their WLL;
- never modify, repair or reshape a swivel by machining, welding, heating or bending as this may affect the WLL.

It is required that the products are regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading, etc. which may result in deformation and alteration of the material structure.

Inspection by a competent person should take place at least every six months and more frequently when the swivels are used in severe operating conditions.

Assembly

The clevis ends can be connected directly to the lifting chain. For eye ends, a connector like a connecting link must be used.



EXCEL® Needle bearing swivel, Eye-Eye, grade 8

- Material · Safety factor
- : alloy steel, grade 8, quenched and tempered : MBL equals 4 x WLL
- : painted red (R)

• Finish

- Certification 2.1 2.2 3.1 MTC ^b
- Note

: equipped with two needle roller thrust bearings to enable rotation under load

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for chain diameter		working load limit	diameter	length outside	width outside	length inside	width inside	length	thickness	weight each
			а	b	С	d	е	f	g	
mm		t	mm	mm	mm	mm	mm	mm	mm	kg
5-6	³ / ₁₆ - ⁷ / ₃₂	1.12	11	150	56	33	32	126	6	0.61
7-8	¹ / ₄ - ⁵ / ₁₆	2	14	181	65	40	37	153	8	1.07
10	³ /8	3.2	18	226	79	47	48	195	11	1.9
13	1/2	5.4	20	268	96	59	58	227	14	3.17
16	5/8	8.2	23	331	121	67	73	281	17	6.44
18-20	3/4	12.8	28	378	132	88	82	328	22	7.75
13 16 18-20	1/2 5/8 3/4	5.4 8.2 12.8	20 23 28	268 331 378	96 121 132	59 67 88	58 73 82	227 281 328	14 17 22	3.17 6.44 7.75



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EXCEL® Needle bearing swivel, Clevis-Clevis, grade 8

 Material · Safety factor

• Finish

- : alloy steel, grade 8, quenched and tempered : MBL equals 4 x WLL
- : painted red (R)
- 2.1 2.2 3.1 MPI^b
- Certification Note
 - : equipped with two needle roller thrust bearings

for dia	chain neter	working load limit	length inside	width outside	width	diameter pin	length outside	weight each
			а	b	С	d	е	
mm	inch	t	mm	mm	mm	mm	mm	kg
5	³ / ₁₆	0.8	111	56	7	6	137	0.27
6	7/32	1.12	109	56	7	8	137	0.27
7-8	¹ / ₄ - ⁵ / ₁₆	2	129	65	9	9	162	1.08
10	³ /8	3.2	161	80	12	13	207	1.94
13	1/2	5.4	180	96	15	16	240	3.3
16	5/8	8.2	246	121	19	20	317	6.85



ECA

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