

STAINLESS STEEL PRODUCTS



Applications

The use of stainless steel products is recommended for circumstances in which corrosion may cause problems.

Range

Green Pin® offers a wide range of stainless steel items such as shackles, chain, chain fittings, thimbles, wire rope clips, eye bolts, rigging screws, etc. With the wide range of stainless steel items in the Green Pin® assortment, a complete sling from the top master link to the hooks can be assembled. Van Beest offers a wide range of other stainless steel items to complement the Green Pin® assortment.

Design

Stainless steel items supplied by Green Pin® are all manufactured from stainless steel quality AISI 316 or 316L, except for product groups R-7856, R-7850, R-7852 and R-7854 which are manufactured from AISI 304. Most stainless steel items have an equivalent in a regular steel quality, we refer to the specific chapters for further details.

Most stainless steel components are generally marked with:

- | | |
|------------------------------------|-----------------------|
| • manufacturer's symbol | - GP |
| • chain diameter in mm and/or inch | - e.g. 13 and/or 1/2" |
| • traceability code | - e.g. HA |
| • steel grade | - 5 |
| • item code | - e.g. MJ1 |
| • origin | - e.g. France |

Finish

All stainless steel items are polished.

Instructions for use

Please refer to the previous product chapters in this catalogue for details on the use of specific items. In general, items should be inspected before use to ensure that:

- all markings are legible;
- items are not distorted or unduly worn;
- the pin, nut, cotter pin, or any other locking system cannot vibrate out of position;
- the item is free from nicks, gouges and cracks.

Also:

- never modify, repair or reshape an item by machining, welding, heating or bending, as this may affect the strength;
- make sure to select items with the correct WLL. Please refer to the EN818 standard for chain slings for further details;
- make sure that the master links and the other items of the sling are all made of stainless steel suitable for lifting purposes;
- items should be used for in-line lifting only;
- items may not be heat treated, as this may affect their WLL.

Stainless steel products must be 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 issues such as wear, misuse and overloading, which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months and more frequently when the products are used in severe operating conditions.

Corrosion resistance table for stainless steel AISI 316L

This table offers a general guideline only. The material must always be tested for your specific conditions.

Acetic acid <20%	S
Ammonia (100%)	S
Ammonium chloride <1%	S
Ammonium nitrate 10% - 50%	S
Ammonium sulphate <10%	L
Benzene	S
Calcium hypochlorite (100%)	U
Citric acid <10%	S
Copper sulphate <10%	S
Ethanol	S
Gasoline	S
Hydrochloric acid (all concentrations)	U

Hydrogen cyanide 100%	L
Hydrogen peroxide <35%	S
Hydrogen sulphide 100%	S
Mineral oil	S
Nitric acid <10%	S
Potassium sulphate <10%	S
Sodium chloride <5%	S
Sodium hypochlorite <20%	L
Sodium nitrate 10% - 40%	S
Sodium sulphate <10%	S
Zinc chloride <10%	S
Zinc sulphate <10%	S

Abbreviations used

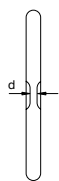
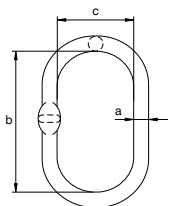
S = satisfactory, no or very little corrosion

L = limited resistance, exposure time must be limited, some corrosion might occur

U = unsatisfactory, not suitable for use



MSI



Green Pin® Master Link S/S-GR5

Grade 5 stainless steel master link

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MTC^b

diameter	diameter chain 1 leg	diameter chain 2 legs		working load limit	length inside	width inside	thickness	weight each
a mm	mm	$\beta \leq 45^\circ$ mm	$\beta \leq 60^\circ$ mm	t	b mm	c mm	d mm	kg
13	6	6	6	1	110	60	6	0.34
16	8	6	8	1.25	110	60	6	0.53
18	10	8	10	2	135	75	8	0.82
22	13	10	13	3.2	160	90	10	1.45
26	16	13	16	5	180	100	13	2.29

In inch

diameter	diameter chain 1 leg	diameter chain 2 legs		working load limit	length inside	width inside	thickness	weight each
a inch	inch	$\beta \leq 45^\circ$ inch	$\beta \leq 60^\circ$ inch	t	b inch	c inch	d inch	lbs
$\frac{1}{2}$	$\frac{7}{32}$	$\frac{7}{32}$	$\frac{7}{32}$	1	$4 \frac{11}{32}$	$2 \frac{3}{8}$	$\frac{1}{4}$	0.75
$\frac{5}{8}$	$\frac{5}{16}$	$\frac{7}{32}$	$\frac{5}{16}$	1.25	$4 \frac{11}{32}$	$2 \frac{3}{8}$	$\frac{1}{4}$	1.17
$\frac{23}{32}$	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{3}{8}$	2	$5 \frac{5}{16}$	$2 \frac{15}{16}$	$\frac{5}{16}$	1.81
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	3.2	$6 \frac{5}{16}$	$3 \frac{3}{4}$	$\frac{13}{32}$	3.20
$1 \frac{1}{32}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	5	$7 \frac{3}{32}$	$3 \frac{15}{16}$	$\frac{9}{16}$	5.05



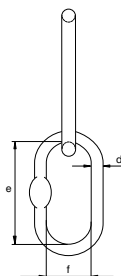
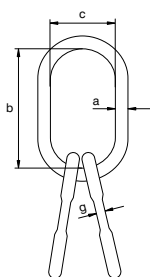
Green Pin® Master Link Assembly S/S-GR5

Grade 5 stainless steel master link assembly

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MTC^b



MTSI



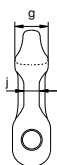
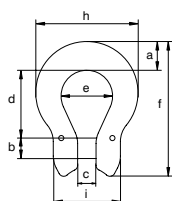
diameter	diameter chain 2 legs		working load limit	length inside	width inside	diameter	length inside	width inside	thickness	weight each
a mm	$\beta \leq 45^\circ$ mm	$\beta \leq 60^\circ$ mm	t	b mm	c mm	d mm	e mm	f mm	g mm	kg
18	6	6	1.6	135	75	13	54	25	6	1.17
22	8	8	2.65	160	90	16	70	34	8	2.17
26	10	10	4.25	180	100	18	85	40	8	3.34
32	13	13	6.7	200	110	22	115	50	13	5.99

In inch

diameter	diameter chain 2 legs		working load limit	length inside	width inside	diameter	length inside	width inside	thickness	weight each
a inch	$\beta \leq 45^\circ$ inch	$\beta \leq 60^\circ$ inch	t	b inch	c inch	d inch	e inch	f inch	g inch	lbs
$\frac{23}{32}$	$\frac{7}{32}$	$\frac{7}{32}$	1.6	$5 \frac{5}{16}$	$2 \frac{15}{16}$	$\frac{1}{2}$	$2 \frac{1}{8}$	$\frac{31}{32}$	$\frac{1}{4}$	2.58
$\frac{7}{8}$	$\frac{5}{16}$	$\frac{5}{16}$	2.65	$6 \frac{5}{16}$	$3 \frac{17}{32}$	$\frac{5}{8}$	$2 \frac{3}{4}$	$1 \frac{11}{32}$	$\frac{5}{16}$	4.78
$1 \frac{1}{32}$	$\frac{3}{8}$	$\frac{3}{8}$	4.25	$7 \frac{3}{32}$	$3 \frac{15}{16}$	$\frac{23}{32}$	$3 \frac{11}{32}$	$1 \frac{9}{16}$	$\frac{5}{16}$	7.36
$1 \frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	6.7	$7 \frac{7}{8}$	$4 \frac{11}{32}$	$\frac{7}{8}$	$4 \frac{17}{32}$	$1 \frac{31}{32}$	$\frac{1}{2}$	13.2



COI



Green Pin® Omega Link S/S-GR5

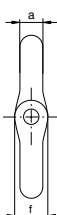
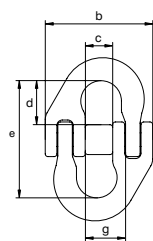
Grade 5 stainless steel omega link

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1

for chain diameter		working load limit	width	diameter pin	width	length inside	width bow	length outside	thickness	width outside	width outside	thickness	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
5	$\frac{3}{16}$	0.5	14	6	7	26	20	53	13	41	28	6	0.07
6	$\frac{7}{32}$	0.7	14	8	7	25	20	53	13	41	28	6	0.07
7 - 8	$\frac{1}{4} - \frac{5}{16}$	1.2	20	9	9	34	24	71	16	55	32	8	0.18
10	$\frac{3}{8}$	1.6	19	13	12	40	31	82	17	63	42	11	0.28
13	$\frac{1}{2}$	2.7	25	16	15	51	40	106	20	84	54	14	0.64



MJI



Green Pin® Connecting Link S/S-GR5

Grade 5 stainless steel connecting link

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1

for chain diameter		working load limit	diameter	width outside	width inside	length inside	length inside	diameter eye	width inside	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
6	$\frac{7}{32}$	0.7	8	42	11	20	52	11	15	0.09
7 - 8	$\frac{1}{4} - \frac{5}{16}$	1.2	9	53	14	20	55	13	19	0.16
10	$\frac{3}{8}$	1.6	10	66	18	23	64	18	23	0.28
13	$\frac{1}{2}$	2.7	14	83	21	32	85	24	28	0.64

INFO



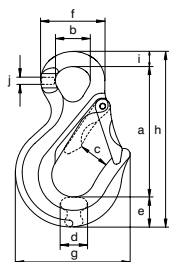
Green Pin® Sling Hook E S/S-GR5

Grade 5 stainless steel eye sling hook

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MPI[®]



CSOI



for chain diameter		working load limit	length	diameter inside eye	width opening	thickness	width	diameter eye outside	width outside	length	width	thickness	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	⁷ / ₃₂	0.7	84	23	26	15	20	43	72	114	10	6	0.28
7 - 8	¹ / ₄ - ⁵ / ₁₆	1.2	103	26	30	20	24	51	87	139	12	8	0.56
10	³ / ₈	1.6	128	35	33	24	29	65	106	172	15	10	1.09
13	¹ / ₂	2.7	152	41	37	32	39	77	133	209	18	12	1.98



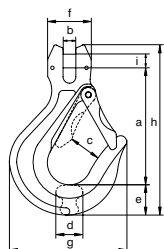
Green Pin® Sling Hook CL S/S-GR5

Grade 5 stainless steel clevis sling hook

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MPI[®]



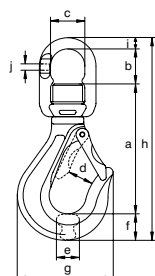
CSCI



for chain diameter		working load limit	length	width	width opening	thickness	width	width outside	width outside	length	diameter pin	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
5	³ / ₁₆	0.5	76	7	26	15	20	28	72	108	6	0.29
6	⁷ / ₃₂	0.7	75	7	26	15	20	28	72	108	8	0.29
7 - 8	¹ / ₄ - ⁵ / ₁₆	1.2	95	9	30	20	24	32	87	136	9	0.58
10	³ / ₈	1.6	113	12	33	24	29	42	106	164	13	1.1
13	¹ / ₂	2.7	138	15	37	32	39	54	133	208	16	1.86



CSEI



Green Pin® Sling Hook S S/S-GR5

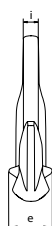
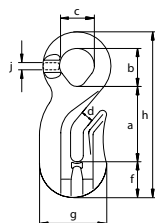
Grade 5 stainless steel swivel sling hook

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MPI^b
- **Note:** equipped with a stainless steel washer

for chain diameter		working load limit	length	length inside	width inside	width opening	thickness	width	width outside	length outside	diameter	thickness	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	⁷ / ₃₂	0.7	100	33	32	26	15	20	72	164	12	6	0.55
7 - 8	¹ / ₄ - ⁵ / ₁₆	1.2	126	40	37	30	20	24	87	200	14	8	1
10	³ / ₈	1.6	159	47	47	33	24	29	106	250	16	11	1.9
13	¹ / ₂	2.7	189	59	58	37	32	39	133	307	21	14	3.42



CROI



Green Pin® Grab Hook E S/S-GR5

Grade 5 stainless steel eye grab hook

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MPI^b

for chain diameter		working load limit	length	inside length eye	inside width eye	opening	thickness	width	width outside	length	width	thickness	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
6	⁷ / ₃₂	0.7	41	24	23	8	24	20	42	94	9	6	0.25
7 - 8	¹ / ₄ - ⁵ / ₁₆	1.2	53	27	26	10	33	23	53	115	10	8	0.32
10	³ / ₈	1.6	65	38	36	12	40	29	66	146	14	10	0.53
13	¹ / ₂	2.7	83	42	41	15	56	40	88	183	16	12	1.96



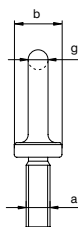
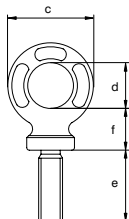
Green Pin® Lifting Eye S/S-GR5

Grade 5 stainless steel lifting eye

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MPI[®] CE



ALI



working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.12	M6 x 1.00	20	34	20	20	17	7	0.05
0.2	M8 x 1.25	20	34	20	24	17	7	0.05
0.4	M10 x 1.50	20	38	22	30	19	8	0.08
0.6	M12 x 1.75	25	47	27	36	23	10	0.14
0.8	M14 x 2.00	30	57	30	40	27	14	0.26
1	M16 x 2.00	36	63	35	53	31	14	0.37
1.5	M18 x 2.50	36	63	35	53	31	14	0.49
2	M20 x 2.50	40	72	40	58	34	16	0.55
2.5	M22 x 2.50	42	82	45	64	38	19	0.78
3	M24 x 3.00	55	95	55	84	40	20	1.12



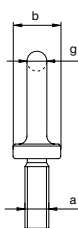
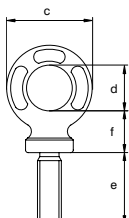
Green Pin® Lifting Eye DIN580 length S/S-GR5

Grade 5 stainless steel lifting eye length as DIN580

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MPI[®] CE



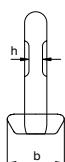
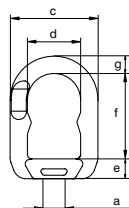
ALDINI



working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.2	M8 x 1.25	20	34	20	13	17	7	0.05
0.4	M10 x 1.50	20	38	22	17	19	8	0.08
0.6	M12 x 1.75	25	47	27	21	23	10	0.14
0.8	M14 x 2.00	30	57	30	27	27	14	0.26
1	M16 x 2.00	36	63	35	27	31	14	0.37
1.5	M18 x 2.50	36	63	35	30	31	14	0.49
2	M20 x 2.50	40	72	40	30	34	16	0.55
2.5	M22 x 2.50	42	82	45	36	38	19	0.78
3	M24 x 3.00	55	95	55	36	40	20	1.12



ELI



Green Pin® Eye Nut S/S-GR5

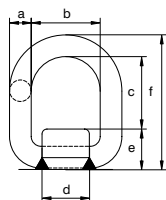
Grade 5 stainless steel eye nut

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MPI ^b CE

working load limit	diameter thread	diameter base	width	width inside	thickness base	length inside	diameter	thickness	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
0.12	M6 x 1.00	31	51	30	14	44	11	6	0.15
0.2	M8 x 1.25	31	51	30	14	44	11	6	0.15
0.4	M10 x 1.50	31	51	30	14	44	11	6	0.15
0.6	M12 x 1.75	39	56	32	15	48	12	6	0.23
0.8	M14 x 2.00	39	56	32	15	48	12	6	0.23
1	M16 x 2.00	44	65	37	17	60	14	8	0.37
1.5	M18 x 2.50	44	65	37	17	60	14	8	0.37
2	M20 x 2.50	44	65	37	17	60	14	8	0.37
2.5	M22 x 2.50	52	79	48	21	75	16	11	0.63
3	M24 x 3.00	52	79	48	21	75	16	11	0.63
3.5	M27 x 3.00	52	79	48	21	75	16	11	0.63



PASI



Green Pin® Weld-On Transport Ring S/S-GR5

Grade 5 stainless steel weld-on transport ring

- **Material:** AISI 316, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 CE
- **Note:** regarding the selection of welding material, respecting parent and PASI materials, please refer to EN 3581 for manual metal arc welding and to EN ISO 14343 for arc welding

working load limit	diameter	width inside	length inside	length base	height base	length	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
0.75	13	40	42	35	28	83	0.4
1.25	18	45	48	42	33	99	0.8
3.2	22	55	57	49	42	121	1.4
5	26	70	67	64	50	143	2.5

INFO



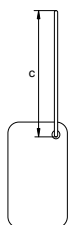
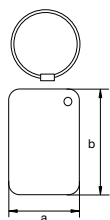
Green Pin® ID Tag S/S-GR5

Grade 5 stainless steel identification tag

- **Material:** AISI 316, grade 5
- **Finish:** polished
- **Certification:** 2.1



TAGI



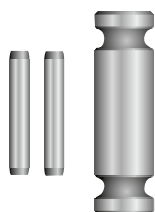
width	length	length	weight each
a mm	b mm	c mm	kg
50	80	305	0.07



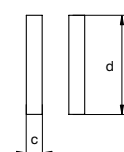
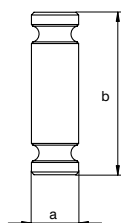
Green Pin® Clevis Fittings S/S-GR5 Spare Kit

Grade 5 stainless steel spare kit for clevis fittings

- **Material:** AISI 316L, grade 5
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 3.1

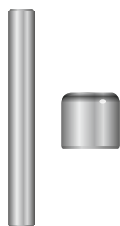


ACI

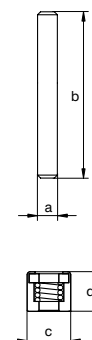


partnumber	diameter pin	length pin	diameter pin	length pin	weight each
	a mm	b mm	c mm	d mm	kg
GPAC5I	6	28	3	14	0.01
GPAC6I	8	28	3	14	0.01
GPAC7/8I	9	32	3	22	0.02
GPAC10I	13	41	4	24	0.04
GPAC13I	16	53	4	32	0.08

partnumber	for fitting	
	COI	CSCI
GPAC5I	GPCO5I	GPCSC5I
GPAC6I	GPCO6I	GPCSC6I
GPAC7/8I	GPCO7/8I	GPCSC7/8I
GPAC10I	GPCO10I	GPCSC10I
GPAC13I	GPCO13I	GPCSC13I



RMJI



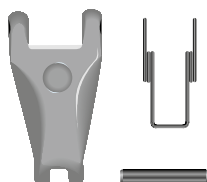
Green Pin® Connecting Link S/S-GR5 Spare Kit

Grade 5 stainless steel spare kit for connecting link

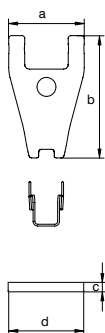
- **Material:** AISI 316L, grade 5
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 3.1

partnumber	diameter pin	length pin	diameter	width	weight each
	a mm	b mm	c mm	d mm	kg
GPRMJ6I	5	43	11	10	0.01
GPRMJ7/8I	6	54	13	14	0.02
GPRMJ10I	8	66	15	18	0.02
GPRMJ13I	10	84	20	21	0.08

partnumber	for fitting
	MJI
GPRMJ6I	GPMJ6I
GPRMJ7/8I	GPMJ7/8I
GPRMJ10I	GPMJ10I
GPRMJ13I	GPMJ13I



LFI



Green Pin® Latch S/S-GR5

Grade 5 stainless steel forged latch

- **Material:** AISI 316L, grade 5
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1

partnumber	width	length	diameter pin	length pin	weight each
	a mm	b mm	c mm	d mm	kg
LF0I	24	44	4	24	0.04
LF1I	31	59	5	30	0.05
LF2I	41	65	5	40	0.1
LF3I	41	79	6	40	0.2

partnumber	for fitting		
	C5OI	C5CI	C5EI
LF0I	GPCSO6I	GPCSC5I	GPCSE6I
LF1I	GPCSO7/8I	GPCSC7/8I	GPCSE7/8I
LF2I	GPCSO10I	GPCSC10I	GPCSE10I
LF3I	GPCSO13I	GPCSC13I	GPCSE13I



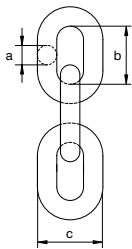
Green Pin® Lifting Chain S/S-GR5

Grade 5 stainless steel lifting chain

- **Material:** AISI 316L, grade 5
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MTC^b



CHAINI

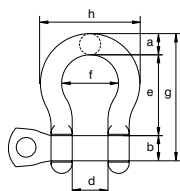


diameter		working load limit	length inside	width outside	links per meter	length per drum	weight per meter
a mm	inch	t	b mm	c mm		m	kg
6	7/32	0.7	18	21	55.56	100	0.78
8	5/16	1.2	24	29	41.67	100	1.3
10	3/8	1.6	30	34	33.33	100	2.14
13	1/2	2.7	39	45	25.64	100	3.64

C



MLVI



Stainless steel bow shackle with screw pin

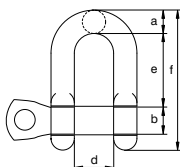
- **Material:** AISI 316, grade 5
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 CE
- **Note:** marked with WLL and CE

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	length	width	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
0.4	8	8	16	16	32	25	56	41	0.06
0.6	10	10	19	20	40	28	67	48	0.12
0.9	12	12	24	25	48	36	79	59	0.2
1.5	13	16	31	24	52	35	87	60	0.32
2.5	16	20	38	28	64	42	108	71	0.58
3	19	22	44	32	72	50	125	87	0.96
4	22	25	50	37	74	60	145	101	1.46
6	25	30	57	40	94	67	157	115	2.09

C



MDVI



Stainless steel dee shackle with screw pin

- **Material:** AISI 316, grade 5
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** polished
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 CE
- **Note:** marked with WLL and CE

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	length	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
0.4	8	8	16	16	32	52	0.06
0.6	10	10	19	20	40	64	0.11
0.9	12	12	24	25	48	78	0.19
1.5	13	16	31	24	52	90	0.3
2.5	16	20	38	28	64	110	0.57
3	19	22	44	32	72	124	0.9
4	22	25	50	37	74	134	1.33
6	25	30	57	40	94	162	1.98

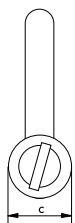
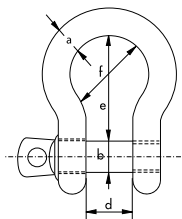
C

Shackles, bow shackles with screw pin

Bow shackles with screw pin



R-7825



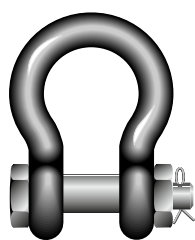
- **Material:** AISI 316
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** generally to DIN 82103
- **Finish:** polished
- **Certification:** 2.1 2.2 3.1 CE
- **Note:** marked with WLL, CE and manufacturer identification symbol (VBS), except for 4 mm as it is too small

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight per 100 pcs
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
-	4	4	8	8	16	12	1.2
0.12	5	5	10	10	20	15	1.8
0.15	6	6	12	12	24	18	2.7
0.3	8	8	16	16	32	24	6.3
0.4	10	10	20	20	40	30	12.3
0.6	12	12	24	24	48	36	20.5
1	16	16	32	32	64	48	48
1.5	20	20	40	40	80	60	97
2	22	22	44	44	88	66	146
3	25	25	50	50	100	75	211
3.6	28	28	54	56	116	86	285

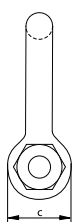
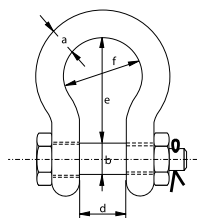
C

Shackles, bow shackles with safety bolt

Bow shackles with safety bolt



R-7827



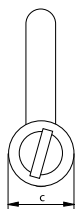
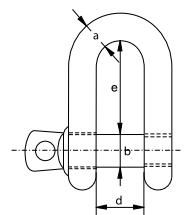
- **Material:** AISI 316
- **Safety factor:** MBL equals 6 x WLL
- **Finish:** polished
- **Certification:** 2.1 2.2 3.1 CE
- **Note:** marked with WLL, CE, traceability code and manufacturer identification symbol (VBS)

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	width bow	weight per 100 pcs
t	a mm	b mm	c mm	d mm	e mm	f mm	kg
0.3	8	8	16	16	32	24	7.4
0.4	10	10	19	20	40	30	14.5
0.6	12	12	24	25	49	36	23
1	16	16	31	32	64	48	56.6
1.5	19	19	38	38	80	60	99.5
2	22	22	43	44	85	66	146
3	25	25	49	50	100	75	218

C



R-7821



Shackles, dee shackles with screw pin

Dee shackles with screw pin

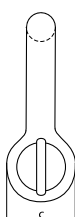
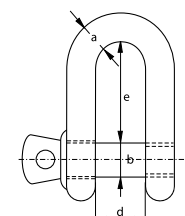
- **Material:** AISI 316
- **Safety factor:** MBL equals 6 x WLL
- **Standard:** generally to DIN 82102
- **Finish:** polished
- **Certification:** 2.1 2.2 3.1 CE
- **Note:** marked with WLL, CE and manufacturer identification symbol (VBS), except for 4 mm as it is too small

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight per 100 pcs
t	a mm	b mm	c mm	d mm	e mm	kg
-	4	4	8	8	16	0.9
0.12	5	5	10	10	20	1.6
0.15	6	6	12	12	24	2.6
0.3	8	8	16	16	32	5.6
0.4	10	10	20	20	40	13
0.6	12	12	24	24	48	20
1	16	16	32	32	64	48
1.5	20	20	40	40	80	78
2	22	22	44	44	88	127
3	25	25	50	50	100	184
3.6	28	28	54	56	106	250

C



R-7823



Shackles, dee shackles with safety bolt

Dee shackles with safety bolt

- **Material:** AISI 316
- **Safety factor:** MBL equals 6 x WLL
- **Finish:** polished
- **Certification:** 2.1 2.2 3.1 CE
- **Note:** marked with WLL, CE, traceability code and manufacturer identification symbol (VBS)

working load limit	diameter bow	diameter pin	diameter eye	width inside	length inside	weight per 100 pcs
t	a mm	b mm	c mm	d mm	e mm	kg
0.3	8	8	16	16	32	7.1
0.4	10	10	19	20	40	14
0.6	12	12	24	25	48	23.6
1	16	16	31	32	64	54.5
1.5	19	19	38	38	76	96
2	22	22	43	44	85	142
3	25	25	49	50	95	209

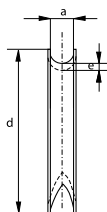
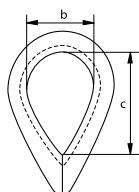
C

Thimbles, heavy type

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1



R-7860



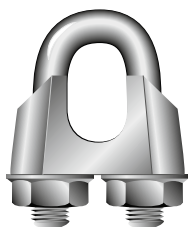
width groove	width inside	length inside	length	thickness	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	kg
2	9	15	23	1	0.2
2.5	9.5	15.7	24	1	0.2
3	10	16	25	1	0.3
4	11	17	28	1	0.5
5	13	20	32	1	0.5
6	16	25	39	1.2	0.8
7	18	28	40	1.2	1
8	20	32	49	1.4	1.2
10	26	40	55	1.9	3.4
12	28	45	70	2	4.5
14	34	56	80	2.2	7.3
16	37	62	85	2.5	12.2
18	42	65	95	2.5	15.1
20	45	78	115	3	19
22	50	88	125	3	22.3
24	58	96	135	4	40.5
26	66	105	140	4	49.7

C

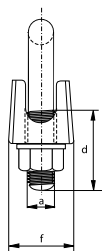
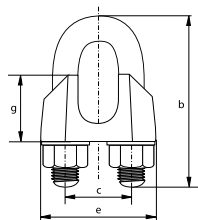
Wire rope clips

Generally to DIN 741

- **Material:** AISI 316
- **Standard:** generally to DIN 741
- **Finish:** polished
- **Certification:** 2.1



R-7863

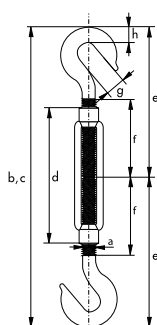


diameter wire rope	diameter	length bow	width inside	length thread	length base	thickness base	height base	weight per 100 pcs
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
3	4	20	9	12	21	10	10	1.4
4	4	22	9	12	21	10	10	1.4
5	5	24	11	13	23	11	10	1.5
6	5	28	13	15	26	12	11	2.1
8	6	34	16	19	30	14	15	3.5
10	8	42	19	22	34	18	17	6.1
13	10	55	24	30	42	23	21	13
16	12	63	29	33	50	26	26	21
19	12	75	32	38	54	29	30	26
22	14	85	37	44	61	33	34	40
26	14	95	41	45	65	35	37	44

C



R-7837



Open body rigging screws Hook-Hook

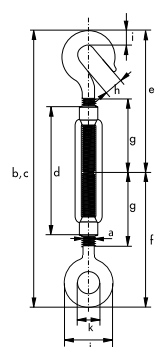
- Material: AISI 316
- Finish: polished
- Certification: 21

diameter thread	length closed position	length open position	length body	length	length	opening hook	thickness	weight each
a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
M 5	120	170	70	58	33	8	5	0.04
M 6	150	210	90	73	43	9	6	0.08
M 8	200	290	120	98	56	11	8	0.16
M 10	240	355	150	117	71	12	9	0.27
M 12	310	470	200	157	95	14	11	0.51
M 16	390	590	250	186	116	16	15	1.2
M 20	440	675	300	214	139	18	19	1.9

C



R-7838



Open body rigging screws Hook-Eye

- Material: AISI 316
- Finish: polished
- Certification: 21

diameter thread	length closed position	length open position	length body	length	length	length	opening hook	thickness	diameter eye outside	diameter eye inside	weight each
a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
M 5	120	170	70	58	56	33	8	5	17	8	0.04
M 6	150	210	90	73	71	43	9	6	21	10	0.08
M 8	200	290	120	98	95	56	11	8	28	14	0.16
M 10	240	355	150	117	118	71	12	9	34	16	0.27
M 12	310	470	200	157	154	95	14	11	40	18	0.51
M 16	390	590	250	186	190	116	16	15	54	26	1.2
M 20	440	675	300	214	220	139	18	19	64	30	1.9

C

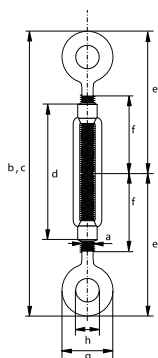
Open body rigging screws Eye-Eye

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1



R-7839

diameter thread	length closed position	length open position	length body	length	length	diameter eye outside	diameter eye inside	weight each
a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
M 5	120	170	70	56	33	17	8	0.04
M 6	150	210	90	71	43	21	10	0.08
M 8	200	290	120	95	56	28	14	0.16
M 10	240	355	150	118	71	34	16	0.27
M 12	310	470	200	154	95	40	18	0.51
M 16	390	590	250	190	116	54	26	1.2
M 20	440	675	300	220	139	64	30	1.9



C

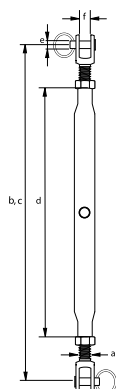
Closed body rigging screws Jaw-Jaw

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

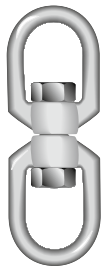


R-7830

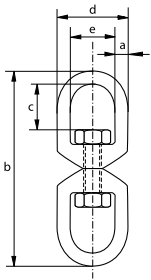
diameter thread	length open	length closed	length body	diameter pin	width jaw inside	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	f mm	kg
M 5	190	125	80	5.2	6	6.5
M 6	210	155	95	6.2	7.5	8.1
M 8	240	180	105	8.7	10	15.9
M 10	270	220	125	9.7	12	29.9
M 12	360	255	150	12.7	14	53.2
M 14	385	270	165	12.7	14	64
M 16	450	320	190	16	16	116
M 20	450	355	210	19	20	145



C



R-7877



Swivels

Eye - Eye

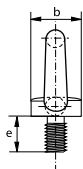
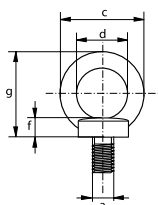
- Material: AISI 316
- Finish: polished
- Certification: 2.1

diameter	length	length inside	width outside	width inside	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	kg
5	60	13	23	13	3.4
6	65	15	26	15	5.1
8	90	22	35	20	13.1
10	115	27	44	24	26
13	154	35	57	32	58
16	188	45	71	39	105
19	229	50	84	41	220

C



R-7840



Eye bolts

Generally to DIN 580

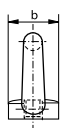
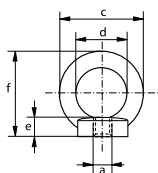
- **Material:** AISI 316
- **Standard:** generally to DIN 580
- **Finish:** polished
- **Certification:** 2.1

diameter thread	diameter base	diameter eye outside	diameter eye inside	length thread	thickness base	height	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
M 6	20	36	20	13	6	36	3
M 8	20	36	20	13	6	36	6
M 10	25	45	25	17	8	45	10.3
M 12	30	54	30	20.5	10	53	17.7
M 16	35	63	35	27	12	62	28
M 20	40	72	40	30	14	71	45
M 24	50	90	50	36	18	90	74

C



R-7842



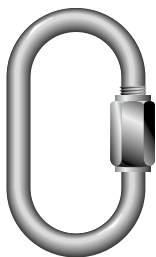
Eye nuts

Generally to DIN 582

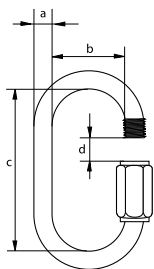
- **Material:** AISI 316
- **Standard:** generally to DIN 582
- **Finish:** polished
- **Certification:** 2.1

diameter thread	diameter base	diameter eye outside	diameter eye inside	thickness base	height	weight per 100 pcs
a mm	b mm	c mm	d mm	e mm	f mm	kg
M 6	20	36	20	8.5	36	4.2
M 8	20	36	20	8.5	36	5.2
M 10	25	45	25	10	45	9.4
M 12	30	54	30	11	53	14.8
M 16	35	63	35	13	62	23.7

C



R-7873

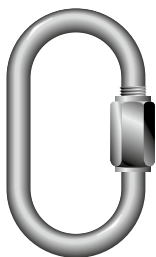


Quick links, standard type

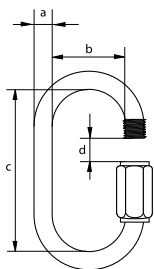
- Material: AISI 316
- Finish: polished
- Certification: 2.1

diameter	width inside	length inside	opening	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	kg	kg
3.5	10	29	5	155	0.9
4	12	32	5.5	450	1.2
5	13	39	6.5	585	2
6	14	46	7.5	790	3.3
7	16	51	8.5	1085	5.3
8	17	59	10.5	1380	7.5
9	17	64	11.5	1790	10.3
10	20	70	12.5	2085	13.7
12	23	83	14.5	2265	22.5

C



R-7874



Quick links, with enlarged opening

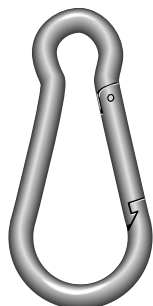
- Material: AISI 316
- Finish: polished
- Certification: 2.1

diameter	width inside	length inside	opening	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	kg	kg
3.5	10	40	10	155	1.2
5	14	52	14	585	2.6
6	16	60	16	790	4
8	18	74	18	1380	9.1
10	20	85	20	2085	15.9
12	23	98	23	2265	30.4
14	27	116	26	2540	40.2

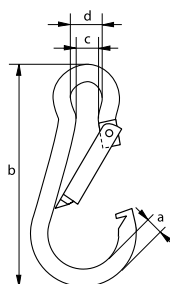
C

Carabine hooks, standard type

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1



R-7872

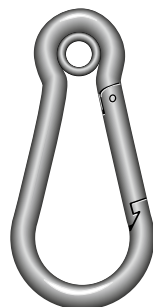


diameter	length	width inside	width inside	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	kg	kg
4	40	5	7	70	0.8
5	50	7	8	110	1.5
6	60	7	9	132	2.6
7	70	9	10	198	2.6
8	80	11	12	330	4.4
9	90	11	12	363	6.4
10	100	12	15	506	12.2
11	120	14	18	660	12.5
12	140	16	20	748	25
13	160	20	22	880	35
14	180	20	22	946	35

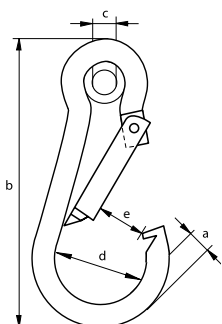
C

Carabine hooks, with pressed thimble

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

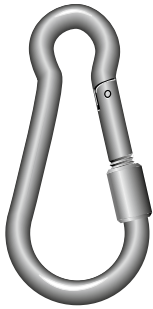


R-7875

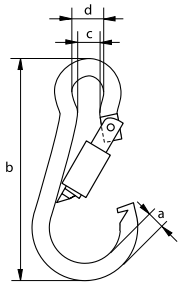


diameter	length	diameter inside thimble	width	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	kg	kg
4	40	5	14	70	0.9
5	50	5	16	110	1.6
6	60	5	18	132	2.8
7	70	7	22	198	4.4
8	80	10	24	330	6.4
9	90	10	26	363	9.3
10	100	13	30	506	12.5
11	120	13	36	660	18.7
12	140	15	40	748	25
13	160	17	44	880	35
14	180	17	48	946	50

C



R-7876



Carabine hooks, with screw nut

- **Material:** AISI 316
- **Finish:** polished
- **Certification:** 2.1

diameter	length	width inside	width inside	minimum breaking load	weight per 100 pcs
a mm	b mm	c mm	d mm	kg	kg
4	40	5	7	70	0.8
5	50	7	8	110	1.7
6	60	7	9	132	2.6
7	70	9	10	198	4.4
8	80	11	12	330	6.4
9	90	11	12	363	9.3
10	100	12	15	506	12.7
11	120	14	18	660	19.5
12	140	16	20	748	25
13	160	20	22	880	35
14	180	20	22	946	50

C

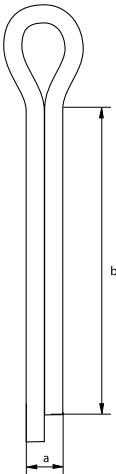
Cotter Pin

Stainless steel cotter pin

- **Material:** AISI 304
- **Finish:** polished
- **Certification:** 2.1

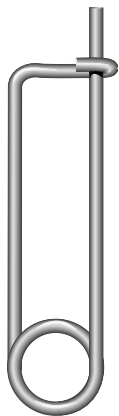


R-7856

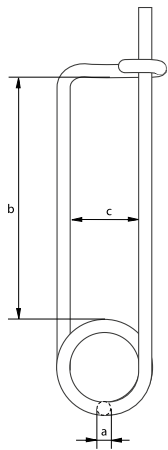


diameter	length	weight per 100 pcs
a mm	b mm	kg
2.5	20	0.08
4	32	0.3
5	36	0.6
6	45	1.2
8	63	2.8
8	80	4.4
10	71	5
10	90	6
10	100	6.6
10	120	4.4
12	140	7
12	160	7
12	180	7
13	110	12.1
16	160	16

split pin a x b mm	for shackle									
	G-4163 G-4143	G-4153 G-4133	P-6036 P-6016 ≤150	G-6038 P-6018	P-6033 P-6013 ≤150	G-5263 G-5243	G-5163 G-5143	P-6031 P-6011 ≤150	G-4263 G-4243	G-4553
	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t
2.5 x 20	0.5									
	0.75									
	1									
	1.5									
4 x 32	2	2				3.3	2			
	3.25	3.25				5	3.25			
5 x 36	4.75	4.75			7	7	4.75		4.75	4.6
	6.5	6.5				9.5	6.5			
6 x 45	8.5	8.5			12.5	12.5	8.5		6.5	8.6
	9.5	9.5			18	15	9.5		8.5	
	12	12				18	12		9.5	
8 x 63	13.5	13.5				21	13.5		12	15.5
	17	17				30	17		16	
8 x 80					30					
					40					
10 x 71	25	25				40	25		25	
	35	35				55	35		30	
10 x 90	42.5	42.5				85	42.5		55	
	55	55					55			
10 x 100	85	85			55	120	85		75	
					75					
10 x 120					125					
12 x 140					150					
					200					
12 x 160					250					
12 x 180					300					
13 x 110			120	120		150		120		
			150			175		150		
16 x 160			200					200		
			250					250		
			300					300		



R-7850



Safety Pin

Stainless steel safety pin

- **Material:** AISI 304 or 316
- **Finish:** polished
- **Certification:** 2.1

diameter	length inside	width inside	weight per 100 pcs
a mm	b mm	c mm	kg
2	46	18	0.5
3	66	23	1.8
3	116	24	2.5
3	147	24	2.8
4	74	29	3.9
5	95	22	6.9
6	90	39	12.5

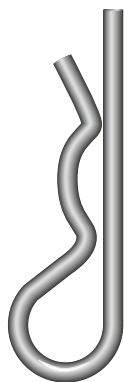
safety pin	for shackle							
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553	P-5367
a x b mm	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t
2x46	4.75	4.75	7	7	4.75	4.75	4.6	
	6.5	6.5		9.5	6.5	6.5		
3x66	8.5	8.5	12.5	12.5	8.5	8.5	8.6	
	9.5	9.5	18	15	9.5	9.5		
	12	12		18	12	12		
3x116								12 - 55
3x147								85
								120
								150
4x74	13.5	13.5	30	21	13.5	16	15.5	
	17	17		30	17	25		
	25	25		40	25			
5x95	35	35	40	55	35	30		
	42.5	42.5	55		42.5			
6x90	55	55	75	85	55	55		
	85	85	125	120	85	75		

C

Single Spring Pin

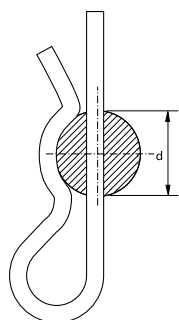
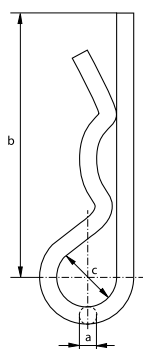
Stainless steel single type spring pin

- **Material:** AISI 304
- **Finish:** polished
- **Certification:** 2.1



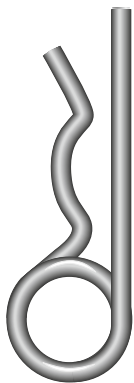
R-7852

diameter	length	diameter	diameter	weight per 100 pcs
a mm	b mm	c mm	d mm	kg
2	50	10	9 - 14	0.3
3	60	18	10 - 16	0.9
4	60	20	16 - 20	1.6
5	85	24	20 - 28	3.3
6	105	30	28 - 40	6.2
7	105	30	28 - 45	8.3
8	110	28	30 - 45	10.5

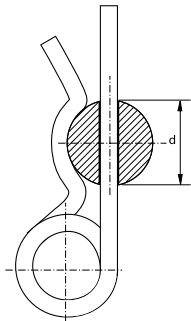
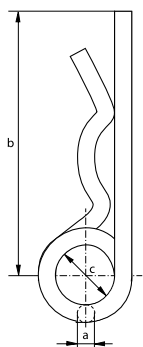


spring pin	for shackle						
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553
diameter mm	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t
2	2	2		3.3	2		
3	3.25	3.25		5	3.25		
4	4.75	4.75	7	7	4.75	4.75	4.6
	6.5	6.5		9.5	6.5		
	8.5	8.5	12.5	12.5	8.5	6.5	8.6
5	9.5	9.5	18	15	9.5	8.5	
	12	12		18	12	9.5	
	13.5	13.5		21	13.5	12	15.5
6	17	17		30	17	16	
	25	25	30	40	25	25	
			40				

C



R-7854



Spring Pins

Stainless steel double type spring pin

- **Material:** AISI 304 or 316
- **Finish:** polished
- **Certification:** 21

diameter	length	diameter	diameter	weight per 100 pcs
a mm	b mm	c mm	d mm	kg
2	50	10	8 - 14	0.4
3	62	16	14 - 20	1.4
3	80	15	18 - 30	2.5
4	78	23	17 - 24	3
4	110	21	24 - 45	3
4	120	21	45 - 56	3
4	150	27	45 - 56	3
5	92	26	18 - 30	5.3
6	120	30	24 - 36	9.6
7	130	30	24 - 40	13.5
8	130	30	24 - 45	17.8

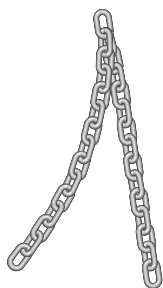
spring pin	for shackle											
	G-4163	G-4153	P-6033	G-5263	G-5163	G-4263	G-4553	P-5363	P-5365	P-5367	P-5361D/F	P-5362D/F
a x b mm	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t
2 x 50	2	2		3.3	2							
3 x 62	3.25	3.25		5	3.25				6.5~12		6.5	
3 x 80										12		
										13.5		
4 x 78	4.75	4.75	7	7	4.75	4.75	4.6	6.5	17			
	6.5	6.5		9.5	6.5		8.6		25			
	8.5	8.5		12.5	8.5				35			
4 x 110										17		
										25		
										35		
4 x 120										42.5		12~55
										55		
4 x 150										85		
										120		
										150		
5 x 92	9.5	9.5	12.5	15	9.5	6.5		9.5	42.5~85		9.5	
	12	12	18	18	12	8.5		12	120~250			
						9.5						
6 x 120	13.5	13.5		21	13.5	12	15.5	17			12	
	17	17		30	17	16					17	
											25	
8 x 130	25	25	30	40	25	25		25			35	
			40									

C

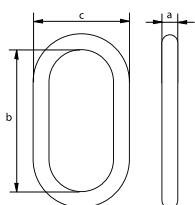
Short link chain

Generally to DIN 766 and DIN 5685-3

- **Material:** AISI 316
- **Standard:** generally to DIN 766 and DIN 5685-3
- **Certification:** 2.1



R-7880



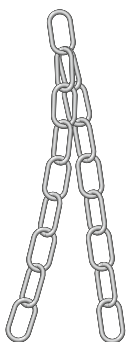
diameter	length inside	width outside	weight per meter
a mm	b mm	c mm	kg
3	16	11	0.17
4	16	14	0.32
5	18.5	17	0.5
6	18.5	20	0.75
8	24	26	1.35
10	28	34	2.25

C

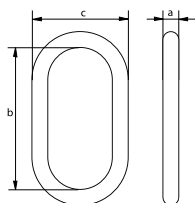
Long link chain

Generally to DIN 763 and DIN 5685-1

- **Material:** AISI 316
- **Standard:** generally to DIN 763 and DIN 5685-1
- **Certification:** 2.1



R-7890



diameter	length inside	width outside	weight per meter
a mm	b mm	c mm	kg
3	26	12	0.14
4	32	16	0.27
5	36	20	0.43
6	42	24	0.63
7	48	28	0.86
8	54	32	1.1
10	66	40	1.75



