

SYNTHETIC AND STEEL WIRE ROPES

STEEL WIRE ROPES	2
STAINLESS STEEL ROPES	4
SYNTHETIC AND NATURAL FIBER ROPES	5

CHAINS AND CARGO GEAR ACCESSORIES

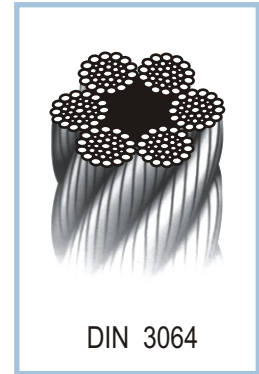
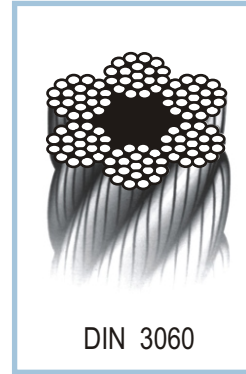
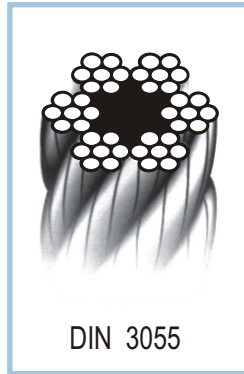
SHACKLES	7
RIGGING SCREWS	8
CLIPS	11
EYE BOLTS, EYE NUTS	12
THIMBLES	13
CARABINE HOOKS	14
QUICK COUPLING LINKS	14
“S” HOOKS	14
SWIVELS	15
ALUMINUM FERRULES	15
CHAINS	16
CARGO HOOKS	19
CHAIN CONNECTING LINKS	21
MASTER LINKS	22
PLATE LIFTING CLAMPS	23
WIRE ROPE SOCKETS	24
WELD-ON LIFTING POINT	25
WEDGE ANCHORS	25
ROPE BLOCKS	26

SLINGS

STEEL WIRE ROPE SLINGS	27
CHAIN SLINGS	29
WEBBING SLINGS	31
ROUND ENDLESS SLINGS	33
ROUND SLINGS	35
FLAT ENDLESS SLINGS	36
FLAT WEBBING SLINGS	37
RATCHET TIE-DOWNS	38
FLAT WEBBING SLINGS WITH METAL FITTINGS	38
WIDE WEBBING SLINGS	39
POLYURETHANE PROTECTION FOR WEBBING SLINGS	40
ROPE ADAPTOR	40
ROPE PULLING HOSES	40
CHAIN SLINGS - OTHER TYPES	41
SPLICED STEEL WIRE ROPE SLINGS	41
SYNTHETIC ROPE SLINGS	41

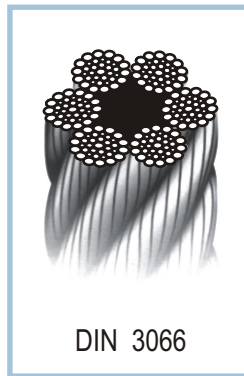
STAINLESS STEEL WIRE ROPE SYSTEM

SWAGELESS FITTINGS	42
RIGGING SCREWS	43
SWAGE FITTINGS	45
STAINLESS STEEL WIRE ROPE FITTINGS	47

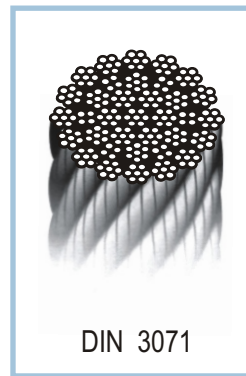


Diameter mm	DIN 3055 6 x 7 1770 N/mm ²		DIN 3060 6 x 19 1770 N/mm ²		DIN 3064 6 x 36 1770 N/mm ²	
	Weight kg/m	BL tons	Weight kg/m	BL tons	Weight kg/m	BL tons
0.6	0.0017	0.04				
0.9	0.003	0.10				
1.2	0.006	0.18				
1.5	0.010	0.29				
1.7	0.012	0.32				
1.8	0.013	0.34				
2	0.014	0.26				
2.5	0.023	0.38				
3	0.032	0.53	0.032	0.49		
4	0.062	1.06	0.059	1.03		
5	0.089	1.66	0.086	1.61		
6	0.139	2.39	0.132	2.32		
7	0.175	3.26	0.170	3.15		
8	0.229	4.25	0.221	4.12	0.250	3.70
9	0.289	5.38	0.280	5.21	0.300	4.95
10	0.357	6.64	0.346	6.43	0.390	6.75
11	0.432	8.04	0.419	7.78	0.450	7.80
12	0.515	9.57	0.498	9.26	0.547	10.20
13	0.604	11.20	0.585	10.90	0.643	11.90
14	0.701	13.00	0.678	12.60	0.745	13.90
16	0.960	17.00	0.886	16.50	0.973	18.10
18	1.160	21.50	1.120	20.80	1.230	22.90
20	1.430	26.60	1.380	25.70	1.520	29.30
22			1.670	31.10	1.840	34.20
24			1.990	37.00	2.190	40.70
26			2.340	43.50	2.570	47.80
28			2.710	50.40	2.980	55.40
30			3.125	58.15	3.300	63.90
32			3.540	65.90	3.890	72.40
34					4.300	82.00
36					4.930	91.60
38					5.500	102.30
40					6.080	113.00

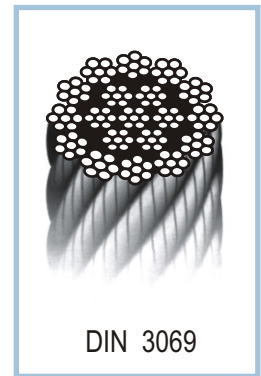
- Up to 82 mm
- BL - breaking load



DIN 3066



DIN 3071

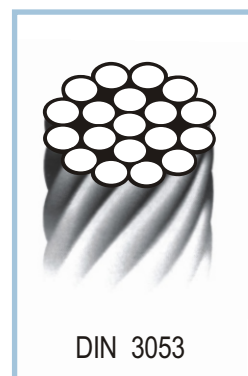
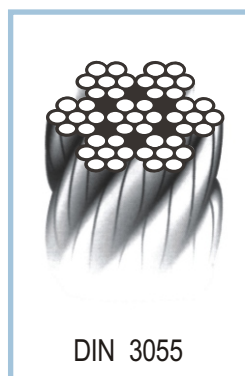
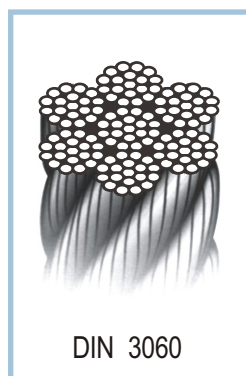


DIN 3069

Diameter mm	DIN 3066 6 x 37 1770 N/mm ²		DIN 3071 36 x 7 1770 N/mm ²		DIN 3069 19 x 7 1770 N/mm ²	
	Weight kg/m	BL tons	Weight kg/m	BL tons	Weight kg/m	BL tons
1.2						
1.8						
2						
2.5						
3						
4						
5					0.100	1.25
6	0.125	2.32			0.145	1.95
7	0.170	3.15			0.197	2.81
8	0.221	4.12	0.268	4.20	0.257	3.82
9	0.280	5.21	0.345	5.45	0.326	4.99
10	0.346	6.43	0.408	7.70	0.402	6.81
11	0.419	7.78	0.500	9.30	0.486	7.79
12	0.498	9.26	0.579	10.80	0.579	9.43
13	0.586	10.90	0.679	12.70	0.679	11.20
14	0.678	12.60	0.788	14.70	0.788	13.20
16	0.886	16.50	1.03	19.20	1.030	15.30
18	1.120	20.80	1.30	24.30	1.300	19.90
20	1.380	25.70	1.61	30.00	1.610	25.20
22	1.470	31.10	1.95	36.30	1.950	31.20
24	1.990	37.10	2.31	43.20	2.310	37.70
26	2.340	43.50	2.72	50.70	2.720	44.90
28	2.710	50.40	3.15	58.70	3.150	52.70
30	3.120	58.15	3.62	66.80		
32	3.540	65.90	4.12	76.70		
34	4.010	74.65	4.63	86.45		
36	4.480	83.40	5.21	97.10		
38	5.010	93.20	5.80	107.00		
40	5.540	103.00	6.43	120.00		

- Up to 82 mm
- BL -breaking load

STAINLESS STEEL WIRE ROPES 1.4401 - AISI 316

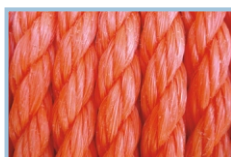


Diameter mm	DIN 3060 7 x 19 1570 N/mm ²		DIN 3055 7 x 7 1570 N/mm ²		DIN 3053 1 x 19 1570 N/mm ²	
	Weight kg/m	BL tons	Weight kg/m	BL tons	Weight kg/m	BL tons
1.0			0.004	0.071	0.005	0.094
1.5			0.009	0.152	0.011	0.211
2.0	0.016	0.275	0.016	0.272	0.020	0.375
2.5	0.024	0.407	0.026	0.441	0.031	0.586
3.0	0.034	0.588	0.035	0.608	0.045	0.843
4.0	0.061	1.040	0.063	1.080	0.080	1.500
5.0	0.095	1.630	0.098	1.690	0.124	2.340
6.0	0.138	2.340	0.142	2.410	0.178	3.370
8.0	0.243	4.170	0.252	4.300	0.317	6.000
10.0	0.381	6.510	0.393	6.720	0.495	9.370
12.0	0.548	9.370	0.567	9.680	0.713	13.500
14.0	0.764	12.800	0.771	13.200	0.971	18.400
16.0	0.954	17.800	1.010	17.200	1.270	24.000

PVC COATED STEEL WIRE ROPES

Steel wire rope diameter	Mm	1.0	2.0	2.0	3.0	3.0	4.0	4.0	5.0	6.0	8.0	10.0
Outside diameter with PVC coating	Mm	2.0	3.0	4.0	4.0	5.0	5.0	6.0	6.0	8.0	10.0	12.0

SYNTHETIC AND NATURAL FIBRE ROPES - 3, 4 AND 8 STRANDS



POLYPROPYLENE



POLYESTER



NYLON



MANILA



JUTE

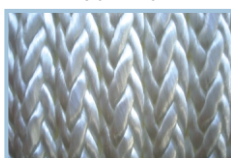
Diameter mm	POLYPROPYLENE		POLYESTER		NYLON		MANILA		JUTE	
	Weight kg/100m	BL tons	Weight kg/100m	BL tons	Weight kg/100m	BL tons	Weight kg/100m	BL tons	Weight kg/100m	BL tons
6	1.70	0.60	1.70	0.64	2.37	0.75	2.90	0.27	2.05	0.26
8	3.00	1.06	3.00	1.15	4.19	1.35	5.40	0.48	3.10	0.30
10	4.50	1.56	4.50	1.81	6.50	2.08	6.80	0.64	6.65	0.41
12	6.60	2.22	6.60	2.59	9.37	3.00	10.50	0.96	8.50	0.45
14	9.10	3.05	9.10	3.60	12.80	4.10	14.00	1.29	12.00	0.60
16	11.60	3.78	11.60	4.70	16.60	5.30	19.00	1.81	14.80	0.70
18	14.90	4.82	14.90	5.30	21.00	6.70	22.00	2.14	18.40	0.80
20	17.90	5.80	17.90	6.80	26.00	8.30	27.50	2.85	23.60	0.89
22	22.00	6.95	22.00	8.30	31.40	10.00	33.00	3.41	27.20	1.00
24	26.00	8.13	26.00	9.60	37.30	12.00	40.00	4.07	33.50	1.20
26	30.75	9.41	30.75	11.60	44.15	14.00	46.60	4.70	36.30	1.42
28	35.50	10.71	35.50	12.80	51.00	15.80	53.20	5.33	40.00	1.65
30	40.75	12.22	40.75	14.60	58.70	18.00			44.20	1.90
32	46.00	13.49	46.00	16.70	66.40	20.00	70.00	6.87		
34	52.00	15.20	52.00	18.85	75.50	22.40				
36	58.50	16.92	58.50	21.00	84.00	24.80	89.00	8.64		
38	65.20	18.91	65.20	23.50	94.00	27.40				
40	71.50	20.50	71.50	26.00	104.00	30.00	110.00	10.42		

- Up to 144 mm
- BL - breaking load

SYNTHETIC FIBRE ROPES - 12, 24 AND 32 STRANDS



OCEANIC



NYLON 12



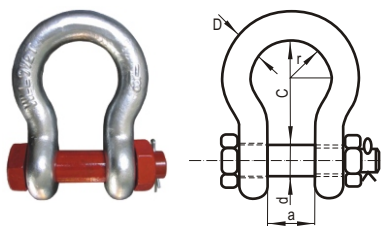
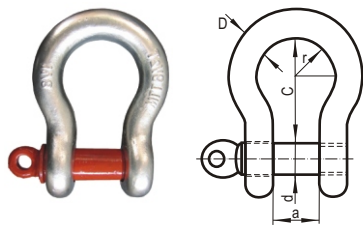
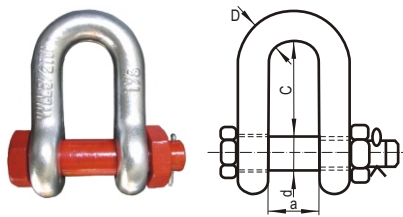
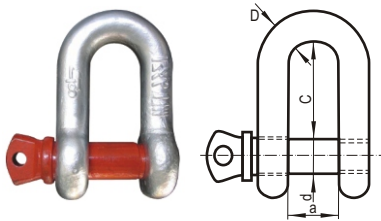
FLEX



DOUBLE BRAIDED

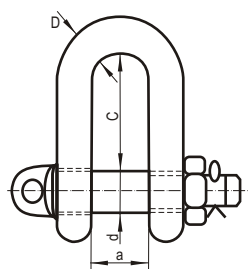
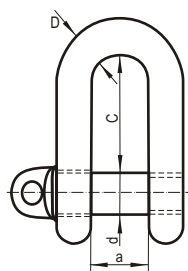
Diameter mm	OCEANIC		NYLON		FLEX		DOUBLE BRAIDED	
	Weight kg/100m	BL tons	Weight kg/100m	BL tons	Weight kg/100m	BL tons	Weight kg/100m	BL tons
4							1.24	0.200
5							1.54	0.240
6	1.70	0.70	2.37	0.82	2.21	0.74	2.27	0.33
8	3.00	1.13	4.19	1.48	3.90	1.32	4.90	0.59
10	4.50	1.99	6.50	2.28	5.85	2.09	5.80	1.20
12	6.60	2.85	9.37	3.30	8.58	3.00	11.40	1.39
14	9.10	3.95	12.80	4.50	11.83	4.15	12.30	1.56
16	11.60	5.10	16.60	5.83	14.00	5.30	15.00	1.72
18	14.90	6.50	21.00	7.37	18.00	6.70	19.30	2.00
20	17.90	7.40	26.00	9.13	21.65	8.30	23.70	2.30
22	22.00	9.10	31.40	11.00	26.62	10.00		
24	26.00	10.50	37.30	13.20	31.46	12.00		
26	30.75	12.70	44.15	15.40	36.90	14.00		
28	35.50	14.00	51.00	17.38	42.95	15.80		
30	40.50	16.00	58.70	19.80	49.00	18.00		
32	46.00	18.30	66.40	22.00	55.66	20.00		
34	52.00	20.70	75.50	24.64	62.92	22.40		
36	58.50	23.00	84.00	27.28	70.78	24.80		
38	65.20	25.80	94.00	30.14	78.80	27.40		
40	73.00	28.60	106.00	33.00	88.33	30.00		

- Up to 144 mm
- BL - breaking load



W.L.L. tons	Ø body D mm	Ø Pin d mm	Opening at pin a mm	Length inside		Width of bow 2r mm	Unit weight	
				D-type C mm	Ω -Type C mm		Safety pin kg	Screw pin kg
0.33	5	6	9.5	19	22	16	0.02	
0.5	7	8	12	25	29	20	0.06	0.07
0.75	9	10	13.5	27	32	21	0.11	0.13
1	10	11	17	31	36	26	0.15	0.17
1.5	11	12	19	37	43	29	0.21	0.25
2	13.5	16	20	43	47	32	0.37	0.44
3.25	16	19	27	51	60	43	0.65	0.79
4.75	19	22	32	59	71	51	1.06	1.26
6.5	22	25	36	73	84	58	1.56	1.88
8.5	25	28	43	85	95	68	2.32	2.78
9.5	28	32	46	90	108	75	3.28	3.87
12	32	35	51	94	119	83	4.51	5.26
13.5	35	38	57	115	133	92	5.93	6.94
17	38	42	60	127	146	99	7.89	8.79
25	45	50	73	149	178	126	13.40	14.99
35	50	57	83	171	197	138	18.85	20.65
42.5	57	65	95	190	222	160	26.06	29.01
55	65	70	105	203	260	180	37.86	41.05
85	75	83	127	216	329	190		62.00
120	89	95	146	267	381	230		98.10
180	105	108	165		400	275		160
200	120	130	175		500	290		235
250	130	140	200		540	305		285
300	140	150	200		600	305		340
400	170	175	225		650	325		560
500	180	185	250		700	350		685
600	200	205	275		700	375		880
700	210	215	300		700	400		980
800	210	220	300		700	400		1100
900	220	230	320		700	420		1280
1000	240	240	340		700	420		1460
1250	260	270	360		700	450		1990
1500	280	290	360		700	450		2400

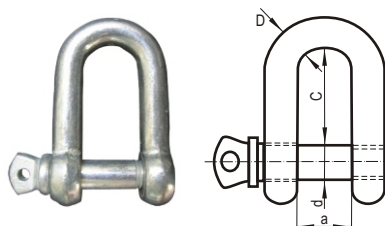
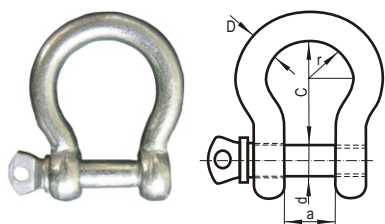
TESTED GALVANIZED SHACKLES ACC. TO DIN 82 101 A



* safety pin

W.L.L. tons	Ø body D mm	Ø Pin d mm	Opening at pin a mm	Length inside C mm	Unit weight kg
0.1	4/5	5	7	15	0.017
0.16	5/6	6	8	18	0.024
0.25	7/8	8	11	24	0.054
0.4	8/10	10	14	30	0.097
0.63	10/12	12	17	36	0.180
1	13/15	16	21	49	0.300
1.6	17/19	20	27	61	0.570
2	19/21	22	30	67	0.975
2.5	21/23	24	33	73	1.300
3.15	24/26	27	38	84	1.850
4	27/29	30	42	91	2.530
5	30/33	36	47	111	4.000
6.3	37	39	53	119.5	6.33
8	41	45	60	139.5	8.5
10	45	48	66	147	10.8
12.5	50	52	73	158	14.4
16	55	60	81	185	20.5
20*	61	68	90	211	29.5
25*	67	72	100	221	36
32*	74	80	110	246	49
40*	84	90	125	276	75
50*	93	100	140	307	100
63*	101	110	155	339	140
80*	115	125	175	385.5	200
100*	130	140	200	430	280

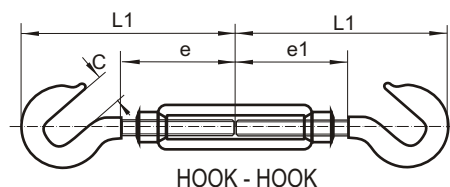
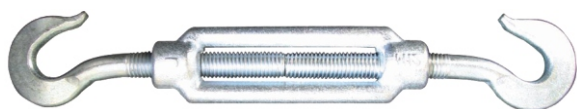
COMMERCIAL GALVANIZED SHACKLES



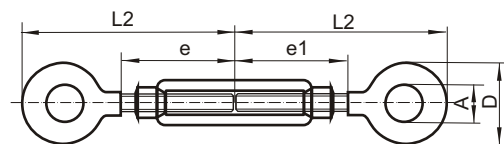
• Максимален диаметър - 65мм

Ø body D mm	Ø Pin d mm	Opening at pin a mm	Length inside		Wlth of bow 2r mm	Unit weight	
			D-type C mm	Ω-Type C mm		D-type kg	Ω-Type kg
5	5	10	19	19	16	0.019	0.019
6	6	13	25	25	20	0.034	0.034
8	8	16	32	32	24	0.070	0.070
10	10	19	38	38	32	0.130	0.130
11	11	22	44	46	33	0.175	0.190
12	12	25	51	51	38	0.240	0.260
14	14	28	53	58	42	0.380	0.400
16	16	32	64	64	46	0.500	0.500
20	20	38	76	76	66	0.800	0.800
22	22	44	89	89	74	1.300	1.300
25	25	51	100	100	80	2.000	2.000
28	28	57	115	115	94	3.000	3.100
32	32	64	127	127	104	4.300	4.300
38	38	76	152	152	126	6.750	7.000

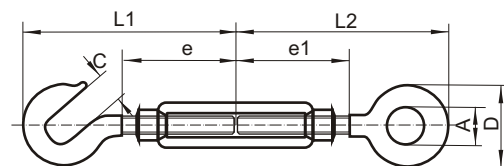
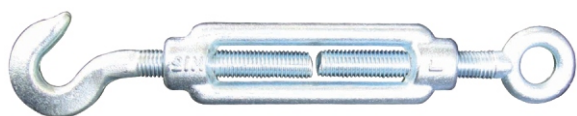
RIGGING SCREWS ACC. TO DIN 1480



HOOK - HOOK



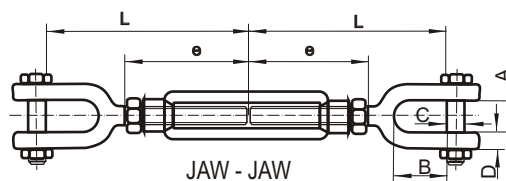
EYE - EYE



EYE - HOOK

Size	L1	L2	e	e1	A	C	D	Unit weight
mm	mm	mm	mm	mm	mm	mm	mm	kg
M6	55	55	35	35	8	5	16	0.11
M8	90	90	60	60	12	8	26	0.20
M10	115	100	70	70	15	12	32	0.28
M12	145	130	90	90	16	14	35	0.43
M16	185	170	120	120	22	20	45	1.00
M20	225	210	145	145	25	20	55	1.60
M24	270	240	160	160	35	30	70	2.80
M30	256	220	135	135	31	33	71	4.10
M32	278	245	148	148	36	39	88	6.00
M36	320	277	158	158	38	46	94	8.5

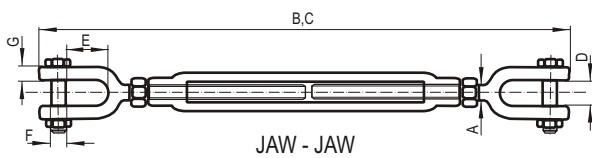
RIGGING SCREWS JAW - JAW ACC. TO DIN 1480



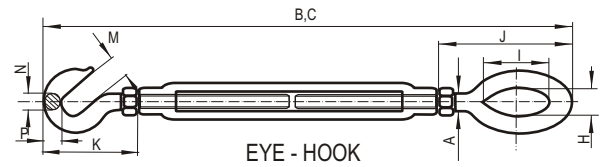
JAW - JAW

Size	L	e	A	B	C	D	Unit weight
mm	mm	mm	mm	mm	mm	mm	kg
M8	90	60	9	12	6	6	0.32
M10	110	75	11	15	8	8	0.40
M12	120	80	13	20	10	10	0.60
M16	160	100	16	35	12	12	1.40
M20	190	120	20	40	16	16	2.50
M24	230	135	30	52	20	20	3.90
M30	250	135	45	70	30	25	5.70
M33	270	148	52	70	35	30	8.40

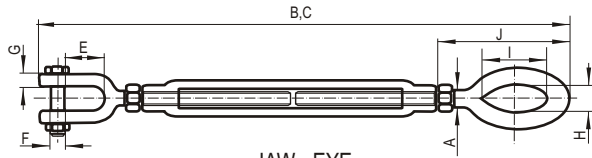
RIGGING SCREWS OPEN FRAME ACC. TO ASTM F 1145 - 9



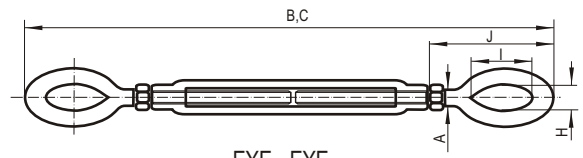
JAW - JAW



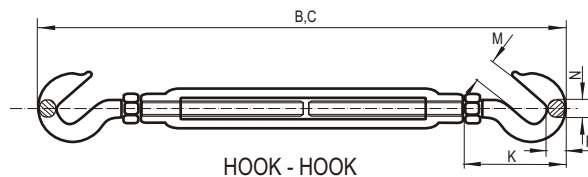
EYE - HOOK



JAW - EYE



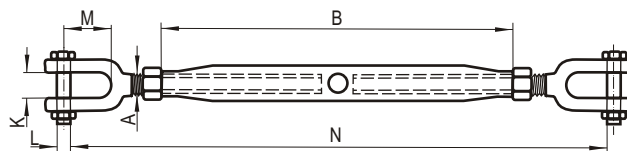
EYE - EYE



HOOK - HOOK

Size A inches	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	M mm	N mm	P mm	W.L.L. tons	Unit weight kg
3/8 x 6	302	416	13	22	8	8	13	28	65	58	14	10	15	0.54	0.37
1/2 x 6	338	452	16	26	9.5	10	18	36	80	72	17	13	19	1	0.73
1/2 x 9	414	585	16	26	9.5	10	18	36	80	72	17	13	19	1	0.79
1/2 x 12	490	719	16	26	9.5	10	18	36	80	72	17	13	19	1	0.96
5/8 x 6	394	508	18	33	13	13	21	43	98	90	22	16	23	1	1.07
5/8 x 9	470	641	18	33	13	13	21	43	98	90	22	16	23	1.59	1.31
5/8 x 12	546	775	18	33	13	13	21	43	98	90	22	16	23	1.59	1.53
3/4 x 6	432	546	23	38	15.5	16	25	53	113	98	25	20	27	2.36	1.86
3/4 x 9	508	679	23	38	15.5	16	25	53	113	98	25	20	27	2.36	2.31
3/4 x 12	584	813	23	38	15.5	16	25	53	113	98	25	20	27	2.36	2.56
3/4 x 18	737	1080	23	38	15.5	16	25	53	113	98	25	20	27	2.36	3.11
7/8 x 12	625	854	27	44	19	18	31	59	118	126	29	23	30	3.27	3.71
7/8 x 18	778	1121	27	44	19	18	31	59	118	126	29	23	30	3.27	4.14
1 x 6	524	638	30	52	22	20	36	74	155	144	32	25	35	4.54	4.29
1 x 12	676	905	30	52	22	20	36	74	155	144	32	25	35	4.54	5.07
1 x 18	829	1172	30	52	22	20	36	74	155	144	32	25	35	4.54	6.62
1 x 24	980	1437	30	52	22	20	36	74	155	144	32	25	35	4.54	7.86
1 1/4 x 12	760	989	44	73	29	25	45	88	197	175	39	28	37	6.9	9.48
1 1/4 x 18	912	1255	44	73	29	25	45	88	197	175	39	28	37	6.9	11.6
1 1/4 x 24	1064	1521	44	73	29	25	45	88	197	175	39	28	37	6.9	13.0
1 1/2 x 12	823	1052	52	70	35	27	54	105	215	212	47	33	44	9.71	13.6
1 1/2 x 18	975	1318	52	70	35	27	54	105	215	212	47	33	44	9.71	14.3
1 1/2 x 24	1128	1585	52	70	35	27	54	105	215	212	47	33	44	9.71	18.4
1 3/4 x 18	1060	1403	59	85	41	33	60	119	254					12.7	25.0
1 3/4 x 24	1213	1670	59	85	41	33	60	119	254					12.7	28.7
2 x 24	1315	1772	64	93	51	39	69	146	308					16.78	45.4
2 1/2 x 24	1486	1943	75	114	57	38	79	165	344					27.22	73.0
2 3/4 x 24	1562	2019	89	110	70	42	83	178	381					34.02	98.0

CLOSED BODY RIGGING SCREWS JAW - JAW



Size	A	B	N	K	M	L	Unit weight
mm	mm	mm	mm	mm	mm	mm	kg
M6	M6	100	175	7	19	5	0.16
M8	M8	108	200	9	25	6	0.27
M10	M10	125	222	11	26	8	0.42
M12	M12	135	235	13	32	10	0.54
M16	M16	230	380	18	40	10	1.00
M18	M18	200	340	20	46	16	1.90
M24	M24	320	500	25	55	20	3.90
M33	M33	370	560	35	63	25	7.10
M38	M38	400	690	40	75	30	12.10
M45	M45	410	840	48	100	36	17.50

HAMBURGER TURNBUCKLES



Thread size	Rod length	Bow thickness	Breaking load	Unit weight
mm	mm	mm	kg	kg
24	400 / 500	16	13000	3.0
27	400 / 500	18	18000	4.4
30	400 / 500	20	20000	5.0
36	400 / 500	20	21000	7.0

LEVER TYPE LOADBINDERS



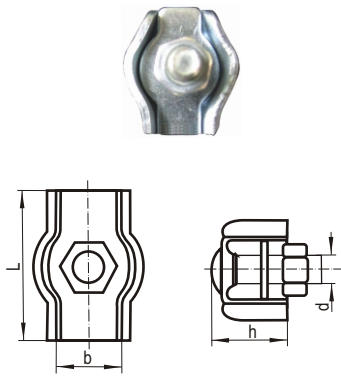
Chain size	Handle length	Take-up	W.L.L.	Unit weight
mm	mm	mm	kg	kg
8 - 10	406	114	2450	2.81
10 - 13	470	114	4175	5.08

RATCHET TYPE LOADBINDERS



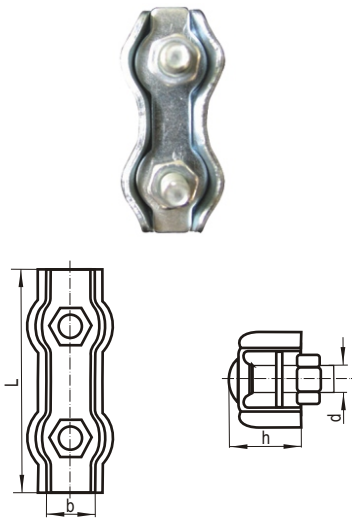
Chain size	Handle length	Barrel length	Take-up	W.L.L.	Unit weight
mm	mm	mm	mm	kg	kg
8 - 10	355	254	203	2450	4.82
10 - 13	355	254	203	4175	5.92
13 - 16	355	254	203	5900	7.85

SIMPLEX WIRE ROPE CLIP



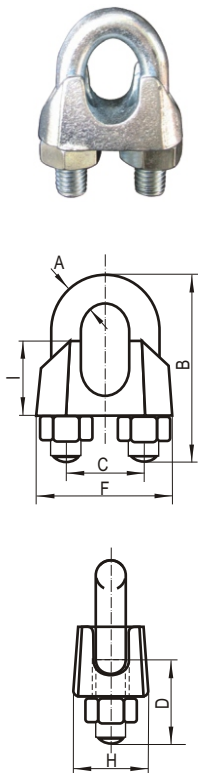
Rope diameter mm	b mm	d mm	h mm	L mm	Weight per 100 pcs. kg
2	4	M3.5	5	15	0.4
3	6	M4	6	17	0.8
4	8	M5	7	20	1.2
5	10	M6	8	25	1.5
6	12	M6	10	30	2.5
8	16	M8	14	36	3.8

DUPLEX WIRE ROPE CLIP



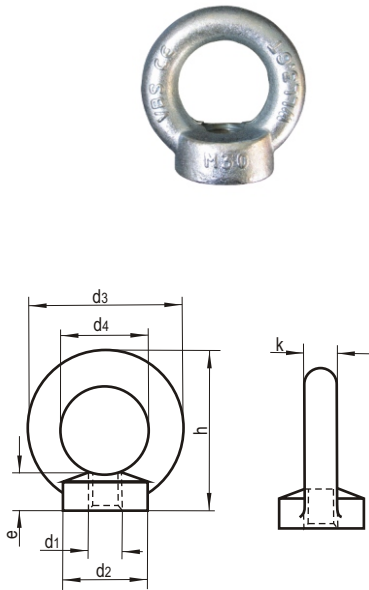
Rope diameter mm	b mm	d mm	h mm	L mm	Weight per 100 pcs. kg
2	4	M3.5	5	30	0.8
3	6	M4	6	34	1.6
4	8	M5	7	40	2.4
5	10	M6	8	50	3.0
6	12	M6	10	60	5.0
8	17	M8	13	75	10.7

WIRE ROPE CLIP ACC. TO DIN 741



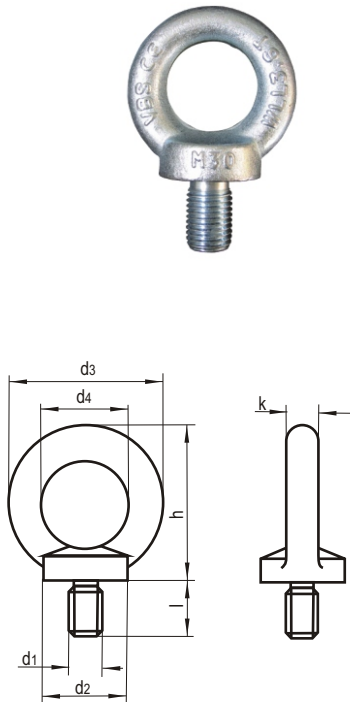
Rope diameter mm	Bow diameter A mm	Length of bow B mm	Width inside C mm	Thread length D mm	Length of base F mm	Thickness of base H mm	Height of base I mm	Weight per 1000 pcs. kg
3	4	20	9	12	21	10	10	14
5	5	24	11	13	23	11	10	15
6	5	28	13	15	26	12	11	21
8	6	34	16	19	30	14	15	41
10	8	42	19	22	36	18	17	68
11	8	44	20	22	36	19	18	72
13	10	55	24	30	42	23	21	130
14	10	57	25	30	44	23	22	135
16	12	63	29	33	50	26	26	210
19	12	75	32	38	54	29	30	280
22	14	85	37	44	61	33	34	400
26	14	95	41	45	65	35	37	440
30	16	110	48	50	74	37	43	660
34	16	120	52	55	80	42	50	850
40	16	140	58	60	88	45	55	1040

EYE NOT GALVANIZED ACC. TO DIN 582



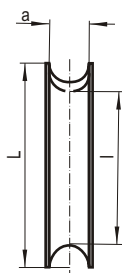
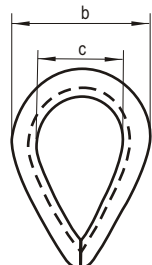
W.L.L. tons	d1 mm	d2 mm	d3 mm	d4 mm	e mm	k mm	h mm	Unit weight kg
0.07	M6	20	36	20	8.5	8	34	0.030
0.14	M8	20	36	20	8.5	8	36	0.052
0.23	M10	25	45	25	10	10	45	0.094
0.34	M12	30	54	30	11	12	53	0.160
0.49	M14	35	63	35	13	14	60	0.220
0.70	M16	35	63	35	13	14	62	0.240
1.20	M20	40	72	40	16	16	71	0.352
1.50	M22	45	81	45	18	18	80	0.586
1.80	M24	50	90	50	20	20	90	0.706
2.50	M27	50	90	50	20	24	90	1.020
3.60	M30	65	108	60	25	20	109	1.320
4.30	M33	65	108	60	25	24	110	1.700
5.10	M36	75	126	70	30	28	128	2.080
6.10	M39	75	126	70	30	28	130	2.600
7.00	M42	85	144	80	35	32	147	3.110
8.00	M45	85	144	80	35	32	150	4.070
8.60	M48	100	166	90	40	38	168	5.020

EYE BOLT GALVANIZED ACC. TO DIN 580



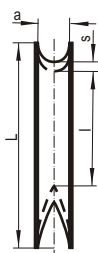
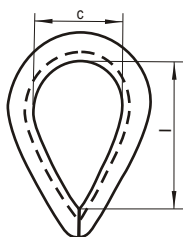
W.L.L. tons	d1 mm	d2 mm	d3 mm	d4 mm	l mm	k mm	h mm	Unit weight kKg
0.07	M6	20	36	20	13	8	34	0.030
0.14	M8	20	36	20	13	8	36	0.060
0.23	M10	25	45	25	17	10	45	0.103
0.34	M12	30	54	30	21	12	53	0.177
0.49	M14	35	63	35	27	14	60	0.277
0.70	M16	35	63	35	27	14	62	0.280
1.20	M20	40	72	40	30	16	71	0.424
1.50	M22	45	81	45	35	18	80	0.673
1.80	M24	50	90	50	36	20	90	0.834
2.50	M27	50	90	50	36	24	90	1.215
3.60	M30	65	108	60	45	20	109	1.660
4.30	M33	65	108	60	45	24	110	2.160
5.10	M36	75	126	70	54	28	128	2.650
6.10	M39	75	126	70	54	28	130	3.340
7.00	M42	85	144	80	63	32	147	4.030
8.00	M45	85	144	80	63	32	150	5.210
8.60	M48	100	166	90	68	38	168	6.320

STANDARD COMMERCIAL THIMBLE



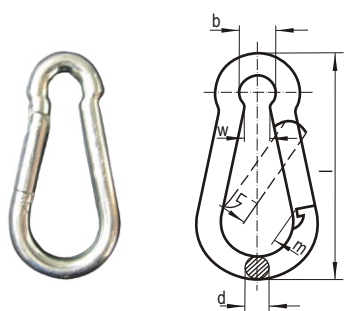
Rope diameter mm	Groove width a mm	Length overall L mm	Width overall b mm	Length inside i mm	Width inside c mm	Unit weight kg
4	4	25	19	16	11	0.004
5	5	31	22	22	16	0.008
6	6	37	29	26	19	0.014
7	7	44	32	32	22	0.020
8	8	51	38	34	24	0.028
9	9	57	42	38	29	0.030
10	10	64	44	42	32	0.048
11	11	70	51	48	35	0.075
12	12	76	57	51	38	0.080
14	14	82	60	57	40	0.100
16	16	89	64	60	42	0.150
18	18	102	69	67	45	0.220
20	20	115	79	76	51	0.250
22	22	127	89	83	54	0.320
24	24	140	102	88	64	0.460
26	26	152	105	102	68	0.660
28	28	165	115	110	73	0.770
30	30	178	121	115	79	0.800

HOT DIP GALVANIZED THIMBLE ACC. TO DIN 6899



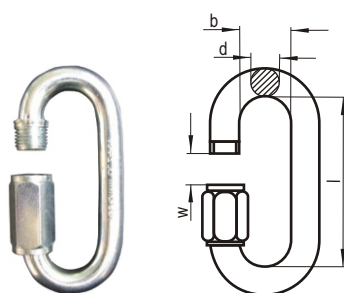
Rope diameter mm	Groove width a mm	Length overall L mm	Length inside l mm	Width inside c mm	Thickness s mm	Unit weight kg
2.5	3	22	19	12	1.6	0.005
3.5	4	26	21	13	1.6	0.008
4	5	32	23	14	1.9	0.010
5	6	38	25	16	2.4	0.016
6	7	44	28	18	2.4	0.019
7	8	51	32	20	2.8	0.030
9	10	57	38	24	3.1	0.047
11	12	64	45	28	3.3	0.068
13	14	76	51	32	3.7	0.100
15	16	83	58	36	3.8	0.145
16	17	89	61	38	4.7	0.180
17	18	95	64	40	4.7	0.200
18	20	102	72	45	5.7	0.290
20	22	114	80	50	5.7	0.320
22	24	127	90	56	6.5	0.470
24	26	140	99	62	6.8	0.590
26	28	152	112	70	8.0	0.800
28	30	165	120	75	8.0	1.100
30	32	178	128	80	8.0	1.230
32	34	203	152	95	8.5	1.560
34	36	216	160	100	8.5	1.760
36	38	229	176	110	8.5	1.920
38	40	241	184	115	10.5	2.920
40	42	254	192	120	10.5	3.200

CARABINE HOOK



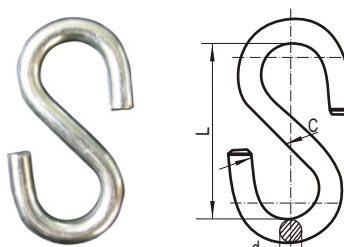
Size	Body diameter	Height	Width	Width inside	Opening width	Unit weight
mm	d mm	l mm	b mm	w mm	m mm	Kg
4x40	4	40	7	4	6	0.011
5x50	5	50	7	5	7	0.019
6x60	6	60	8	6	8	0.027
7x70	7	70	10	7	9	0.044
8x80	8	80	12	9	10	0.065
10x100	10	100	15	11	12	0.127
11x120	11	120	16	12	16	0.180
12x140	12	140	19	13	22	0.260
13x160	13	160	22	15	26	0.350
14x180	14	180	22	20	28	0.410

QUICK COUPLING LINK



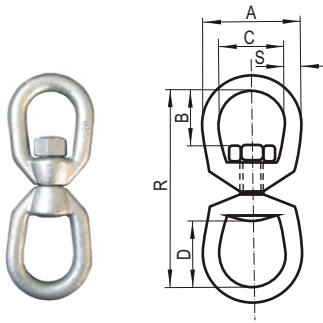
Body diameter	Width	Height	Opening width	Unit weight
d mm	b mm	L mm	w mm	kg
3.5	10	29	4.5	0.009
4	12	32	5.5	0.011
5	13	39	6.5	0.022
6	14	45	7.5	0.038
7	16	52	8.5	0.056
8	18	58	9.5	0.080
9	20	62	11.5	0.102
10	22	69	12.5	0.144
12	24	81	14.5	0.225
14	26	97	17.0	0.350
16	29	112	20.0	0.500

“S” HOOK



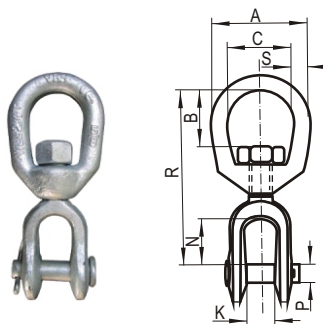
Body diameter	Height	Opening width	Unit weight
d mm	L mm	C mm	kg
3	19	6	0.003
4	27	8	0.008
5	35	9	0.013
6	43	10	0.024
7	51	17	0.043
8	59	20	0.069

EYE - EYE SWIVEL



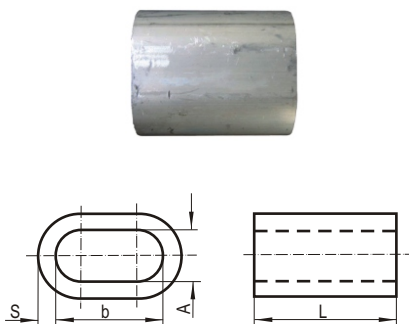
Size	W.L.L.	A	B	C	D	R	Unit weight
mm	tons	mm	mm	mm	mm	mm	kg
6	0.39	32	17	19	27	75	0.10
8	0.57	41	21	25	32	90	0.18
10	1.02	51	24	32	38	110	0.31
13	1.60	64	33	38	51	138	0.65
16	2.40	76	40	44	60	167	1.08
19	3.30	89	44	51	67	183	1.79
22	4.50	102	52	57	78	213	2.80
25	5.70	114	59	64	89	245	4.06
32	8.20	143	68	80	94	291	7.43
38	20.50	178	106	102	106	435	20.80

EYE - JAW SWIVEL



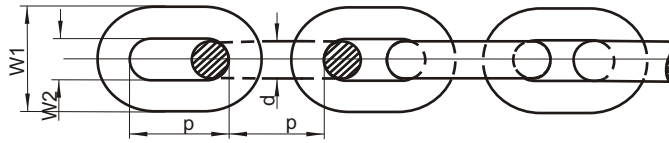
Size	W.L.L.	A	B	C	K	N	P	R	Unit weight
mm	tons	mm	mm	mm	mm	mm	mm	mm	kg
6	0.39	32	17	19	12	22	6	67	0.11
8	0.57	41	21	25	13	22	8	75	0.17
10	1.02	51	24	32	16	27	10	92	0.32
13	1.60	64	33	38	19	33	13	114	0.65
16	2.40	76	40	44	24	38	16	135	1.12
19	3.30	89	44	51	28	44	19	154	1.76
22	4.50	102	52	57	30	52	22	178	2.66
25	5.70	114	59	64	44	71	28	217	4.46
32	8.20	143	68	80	52	71	35	248	7.14
38	20.50	178	106	102	73	112	57	375	24.80

ALUMINUM FERRULE DIN 3093



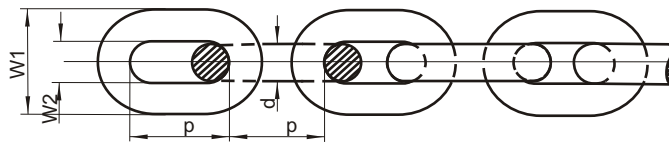
Size	a	b	s	L	Weight per 1000 pcs.
mm	mm	mm	mm	mm	kg
2	2.2	4.4	1.00	7	0.499
3	3.3	6.6	1.25	11	0.843
4	4.4	8.8	1.70	14	1.810
5	5.5	11.0	2.10	18	3.570
6	6.6	13.2	2.50	21	5.860
8	8.8	17.6	3.30	28	13.700
10	10.9	21.8	4.10	35	26.400
12	13.2	26.4	4.90	42	45.800

ROUND LINK CHAIN ACC. TO DIN 763



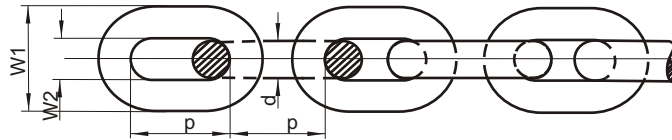
Size d mm	Pitch p mm	Width		W.L.L.		Weight per meter kg
		Inside W1 mm	Outside W2 mm	Working load kg	Proof load kg	
4	32	8	16	100	250	0.27
5	35	10	20	160	400	0.43
6	42	12	24	200	500	0.63
7	49	14	28	300	750	0.86
8	52	16	32	400	1000	1.10
10	65	20	40	630	1600	1.75
13	82	26	52	1000	2500	2.95
16	100	32	64	1600	4000	4.45

ROUND LINK CHAIN ACC. TO DIN 764



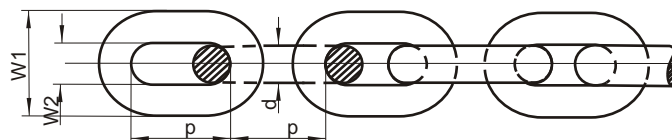
Size d mm	Pitch p mm	Width		W.L.L.		Weight per meter kg
		Inside W1 mm	Outside W2 mm	Working load kg	Proof load kg	
10	35	13.5	36	1000	2500	2.00
13	45	17.5	47	1600	4000	3.50
16	56	21.5	58	2500	6250	5.20
18	63	24.3	65	3200	8000	6.50
20	70	27	72	4000	10 000	8.20
22	80	31	83	5000	12 500	11.00
24	88	42	90	5600	14 000	12.50

ROUND LINK CHAIN ACC. TO DIN 766



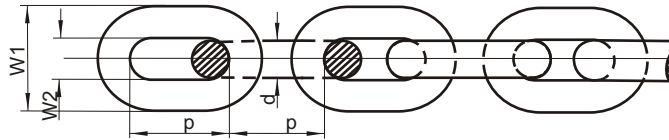
Size d mm	Pitch p mm	Width		W.L.L.		Weight per meter kg
		Inside W1 mm	Outside W2 mm	Working load kg	Proof load kg	
4	16.0	4.8	14	200	500	0.32
5	18.5	6.0	17	320	800	0.50
6	18.5	7.2	20	400	1000	0.80
7	22.0	8.4	23	630	1600	1.10
8	24.0	9.6	26	800	2000	1.40
9	27.0	10.8	30	1000	2500	1.80
10	28.0	12.0	36	1250	3200	2.30
11	31.0	13.2	40	1600	4000	2.70
13	36.0	15.6	47	2000	5000	3.90
14	41.0	16.8	50	2500	6300	4.40
16	45.0	19.2	58	3200	8000	5.80
18	50.0	21.6	65	4000	10000	7.40
20	56.0	24.0	72	5000	12500	9.00
23	64.0	27.6	83	6300	16000	12.00
26	73.0	31.2	94	8000	20000	15.00
28	78.0	33.6	101	10000	25000	18.00
30	84.0	36.0	108	11200	28000	20.00
32	90.0	38.4	115	12500	32000	23.00

LIFTING CHAIN GRADE 8



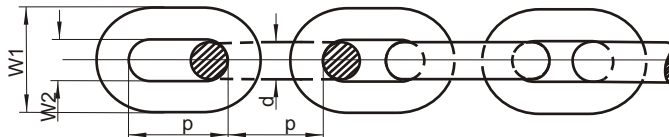
Size d mm	Pitch p mm	Width		W.L.L. kns	Weight per meter kg
		Inside W1 mm	Outside W2 mm		
6-8	18	8	21	1.12	0.80
7-8	21	10	25	1.50	1.10
8-8	24	11	28	2.00	1.40
10-8	30	14	35	3.15	2.20
13-8	39	18	46	5.30	3.80
16-8	48	22	56	8.00	5.70
19-8	57	26	66	11.20	7.80
22-8	66	30	77	15.00	11.00
26-8	78	35	91	21.20	15.20
32-8	96	43	112	31.50	23.00

ROUND LINK CHAIN ACC. TO DIN 5685 A



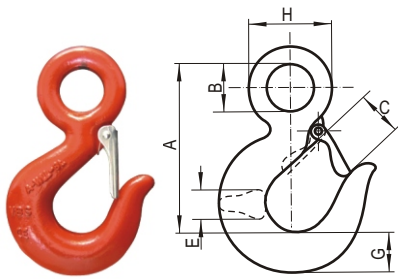
Size d mm	Pitch p mm	Width		W.L.L.		Weight per meter kg
		Inside W1 mm	Outside W2 mm	Proof load kg	Breaking load kg	
2.0	12	4	8	50	125	0.07
2.5	14	5	10	75	200	0.11
3.0	16	6	12	112	280	0.17
3.5	18	7	14	150	385	0.23
4.0	19	8	16	200	500	0.30
4.5	20	9	18	250	630	0.40
5.0	21	10	20	315	775	0.50
6.0	24	12	24	450	1150	0.73
7.0	28	14	28	600	1500	1.00
8.0	32	16	32	800	2000	1.30
10.0	40	20	40	1250	3100	2.05
13.0	52	26	52	2120	5300	3.45

ROUND LINK CHAIN ACC. TO DIN 5685 C



Size d mm	Pitch p mm	Width		W.L.L.		Weight per meter kg
		Inside W1 mm	Outside W2 mm	Proof load kg	Breaking load kg	
2.0	22	4	8	50	125	0.06
2.5	24	5	10	75	200	0.10
3.0	26	6	12	112	280	0.15
3.5	28	7	14	150	385	0.20
4.0	32	8	16	200	500	0.27
4.5	34	9	18	250	630	0.35
5.0	35	10	20	315	775	0.43
6.0	42	12	24	450	1150	0.63
7.0	49	14	28	600	1500	0.86
8.0	52	16	32	800	2000	1.10
10.0	65	20	40	1250	3100	1.75
13.0	82	26	52	2120	5300	2.95

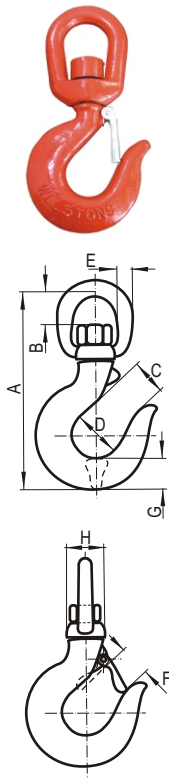
EYE CARGO HOOK



W.L.L.		A	B	C	E	G	H	Unit weight
C tons	A tons	mm	mm	mm	mm	mm	mm	kg
0.75	1.00	82	17.9	22.9	13.5	19.0	35.4	0.27
1.00	1.50	93	21.0	24.8	17.5	21.5	43.9	0.40
1.50	2.00	100	28.0	26.0	20.0	28.0	54.0	0.60
2.00	3.00	119	30.8	30.4	21.4	30.5	59.9	0.83
3.00	4.50	145	38.0	37.0	30.0	40.0	74.0	1.80
5.00	8.00	187	48.0	46.0	34.2	45.2	96.3	3.30
7.50	11.00	230	59.6	55.6	40.8	56.8	117.8	5.70
10.00	15.00	256	69.6	62.6	48.2	64.8	135.2	8.40
15.00	22.00	318	86.6	86.6	60.7	80.7	166.4	17.00
20.00	30.00	355	90.0	102.0	75.0	106.0	180.0	24.90

- C - carbon steel
- A - alloy steel

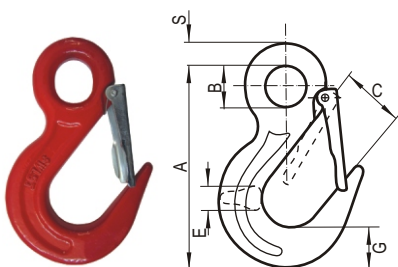
SWIVEL HOOK



W.L.L.		A	B	C	D	E	F	G	H	Unit weight
C tons	A tons	mm	mm	mm	mm	mm	mm	mm	mm	kg
0.75	1.00	155	29	24	37	12	20	20	30	0.45
1.00	1.50	170	36	26	40	16	22	22	36	0.90
1.50	2.00	185	42	27	45	18	23	27	41	1.30
2.00	3.00	215	45	32	46	20	27	30	42	1.60
3.00	4.50	245	55	41	50	24	35	39	64	3.80
5.00	7.00	260	70	51	60	30	44	46	77	6.90
7.50	11.00	310	74	61	75	33	53	58	92	10.60
10.00	15.00	360	86	65	85	33	58	66	105	16.00
15.00	22.00	420	114	85	95	36	78	77	130	27.00
20.00	30.00	505	125	90	105	48	82	90	146	36.00

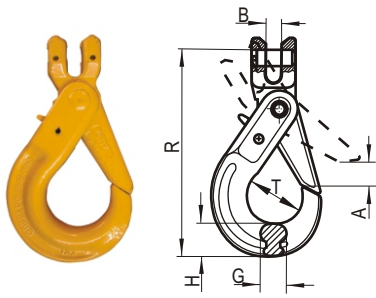
- C - carbon steel
- A - alloy steel

SLING HOOK



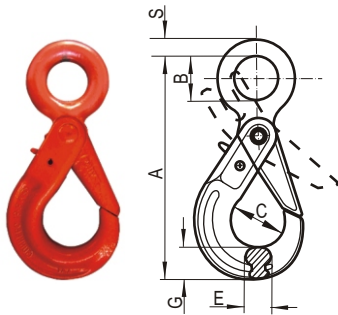
W.L.L.	A	B	C	E	G	S	Unit weight
tons	mm	mm	mm	mm	mm	mm	kg
1.0	96	20	38	15	20	11	0.25
2.0	110	25	45	19	27	15	0.53
3.0	130	34	48	25	30	17	1.00
5.0	142	36	55	25	35	20	1.70
8.0	155	40	70	28	39	24	3.10

CLEVIS SELF LOCKING HOOK GRADE 8



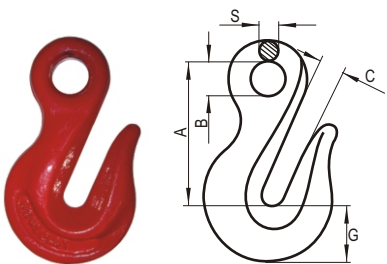
Size B	R mm	A mm	T mm	G mm	H mm	W.L.L. Tons	Unit weight Kg
7/8 - 8	119	36	36	17	23	2.0	0.80
10 - 8	142	44	44	25	29	3.2	1.50
13 - 8	180	54	54	28	38	5.4	2.80
16 - 8	216	63	63	37	49	8.0	5.10
19 - 8	242	68	68	42	56	12.5	7.80
22 - 8	280	74	111	54	66	15.0	13.50

EYE SELF LOCKING HOOK GRADE 8



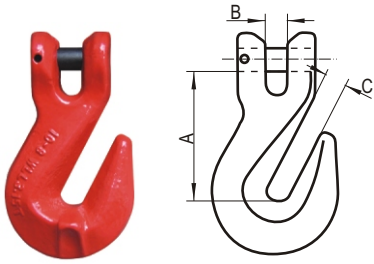
Size	A mm	B mm	C mm	E mm	G mm	S mm	W.L.L. Tons	Unit weight Kg
6 - 8	108	23	31	15	22	18	1.12	0.50
7/8 - 8	134	24	37	20	25	22	2.0	0.80
10 - 8	169	32	50	29	35	28	3.2	1.60
13 - 8	209	40	54	31	41	36	5.4	3.10
16 - 8	252	49	68	41	52	37	8.0	6.00
18/20 - 8	274	66	78	45	56	41	12.5	7.90
22 - 8	317	73	92	54	66	49	15.0	13.40
26 - 8	370	80	104	68	82	58	21.2	17.00
32 - 8							31.5	

EYE GRAB HOOK GRADE 8



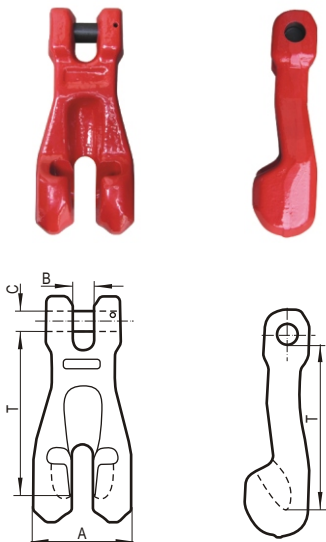
Size	A mm	B mm	C mm	G mm	S mm	W.L.L. tons	Unit weight kg
6 - 8	58	14	8	19	10	1.12	0.175
7/8 - 8	60	16	10	26	12	2.0	0.31
10 - 8	80	21	13	29	13	3.2	0.75
13 - 8	104	26	17	38	15	5.4	1.40
16 - 8	114	30	20	46	20	8.0	2.30
18/20 - 8	132	36	24	54	24	12.5	4.60
22 - 8	157	38	26	62	30	15.0	8.20
26 - 8	205	48	30	79	33	21.2	9.80
32 - 8	265	57	38	89	40	31.5	19.40

CLEVIS GRAB HOOK GRADE8



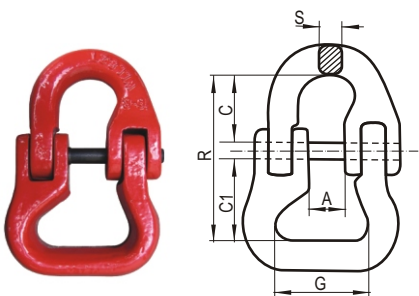
Size	A mm	C mm	W.L.L. tons	Unit weight kg
6 - 8	58	8	1.12	0.25
7/8 - 8	60	10	2.0	0.32
10 - 8	80	13	3.2	0.73
13 - 8	102	17	5.4	1.60
16 - 8	115	20	8.0	2.80
18/20 - 8	132	24	12.5	4.15
22 - 8	160	26	15.0	6.30

CLEVIS SHORTENER GRADE 8



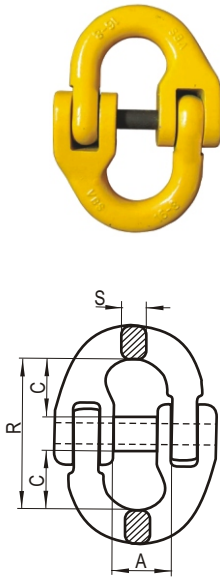
Size B	A mm	C mm	T mm	W.L.L. tons	Unit weight kg
6 - 8	33	6	44	1.12	0.21
7/8 - 8	45	9	62	2.0	0.40
10 - 8	56	13	74	3.2	0.94
13 - 8	70	16	93	5.4	1.75
16 - 8	89	20	119	8.0	3.16
18/20 - 8	101	24	134	12.5	6.20
22 - 8	126	28	160	15.0	8.50

WEB SLING CONNECTING LINK GRADE 8



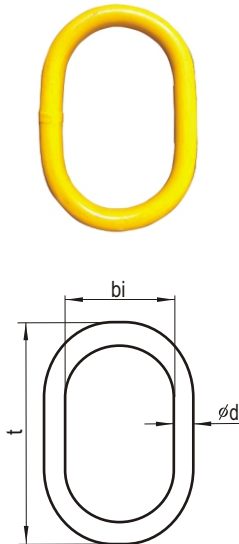
Size	A mm	C mm	C1 mm	R mm	G mm	S mm	W.L.L. tons	Unit weight kg
6 - 8	14	18	22	58	35	9	1.12	0.22
7/8 - 8	17	22	28	65	39	10	2.0	0.30
10 - 8	25	32	36	80	40	11	3.2	0.40
13 - 8	32	35	42	92	55	16	5.4	0.75
16 - 8	40	39	48	105	66	19	8.0	1.80

CONNECTING LINK GRADE 8



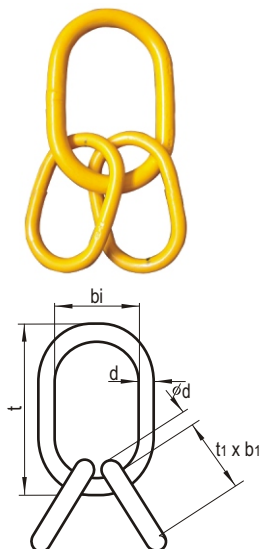
Size	A mm	C mm	R mm	S mm	W.L.L. tons	Unit weight kg
6 - 8	14.0	18.0	49.0	7.7	1.12	0.07
7/8 - 8	14.7	23.8	54.0	8.5	2.0	0.11
10 - 8	18.4	28.1	64.8	10.6	3.2	0.35
13 - 8	21.0	37.0	84.9	13.6	5.4	0.60
16 - 8	25.6	47.0	106.1	17.5	8.0	1.36
18/20 - 8	33.5	56.2	128.1	21.6	12.5	1.81
22 - 8	45.0	60.0	140.0	26.0	15.0	2.92
26 - 8	60.0	60.0	148.0	31.5	21.2	4.20
32 - 8	67.0	69.0	183.0	37.0	31.5	7.20

MASTER LINK, SINGLE



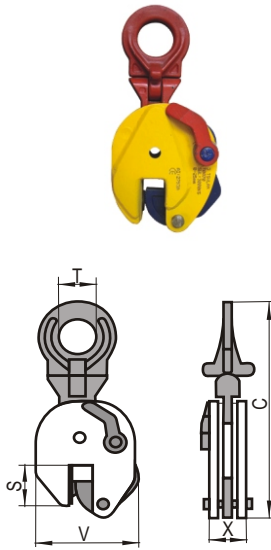
W.L.L. tons	t mm	bi mm	d mm	Unit weight kg
1.25	100	60	11	0.20
2.5	120	70	14	0.40
4.0	140	80	17	0.70
6.3	150	90	19	1.00
8.0	160	95	22	1.50
11.5	190	110	25	2.20
17.0	200	120	30	3.50
20.0	240	140	34	5.10
25.0	250	150	38	7.00
30.0	250	150	40	8.00

MASTER LINK ASSEMBLY



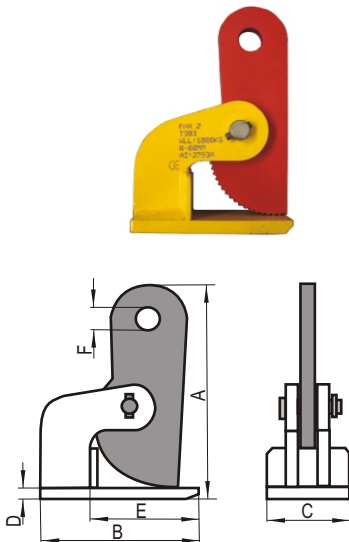
W.L.L. tons	t mm	bi mm	d mm	t1 mm	b1 mm	d1 mm	Unit weight kg
5.0	150	90	19	110	60	14	1.80
8.0	160	95	22	140	80	17	2.80
16.0	200	120	30	160	95	22	6.00
30.0	250	150	40	180	105	28	13.00
40.0	300	200	50	200	110	32	23.00
50.0	300	200	55	260	140	38	32.00

CLAMP FOR VERTICAL LIFTING OF STEEL PLATES



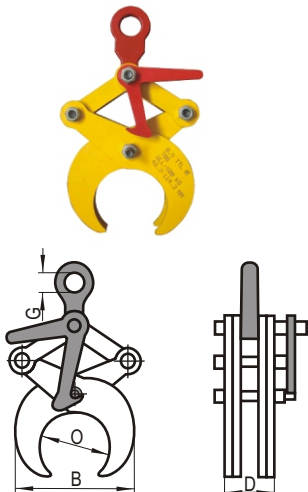
W.L.L. tons	Range mm	S mm	C mm	T mm	V mm	X mm	Unit weight kg
0.750	0 - 13	47	217	30	90	37	1.7
1.500	0 - 18	55	330	70	125	29	4.0
2.000	0 - 20	77	370	70	175	52	8.0
2.000	0 - 35	77	370	70	175	52	8.0
3.000	0 - 25	85	400	75	205	78	15.0
3.000	0 - 45	85	400	75	230	78	15.5
4.500	0 - 25	80	430	75	215	76	16.0
6.000	0 - 32	112	500	80	246	78	20.0
7.500	0 - 32	112	515	80	245	76	25.0
9.000	0 - 40	110	530	80	250	86	25.0
10.000	0 - 40	110	560	80	260	90	38.0
12.000	0 - 52	125	630	80	330	94	42.0

CLAMP FOR HORIZONTAL LIFTING OF STEEL PLATES



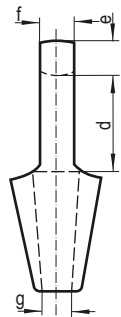
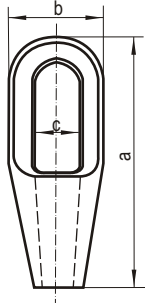
W.L.L. per set tons	Range mm	A mm	B mm	C mm	D mm	E mm	F mm	Unit weight kg
1.000	0 - 35	180	140	65	10	100	25	3
2.000	0 - 60	275	180	80	15	115	30.5	6
3.000	0 - 60	280	180	80	20	115	30.5	6.5
4.000	0 - 60	285	222	90	20	130	30.5	14
6.000	0 - 60	290	222	90	25	130	30.5	14
8.000	0 - 60	320	225	110	30	140	30.5	18
10.000	0 - 60	325	225	110	35	140	30.5	20
12.000	0 - 80	340	230	120	35	140	30.5	25

CLAMP FOR TRANSPORTATION OF TUBES AND BUNDLES



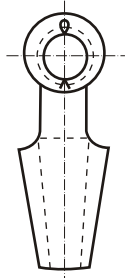
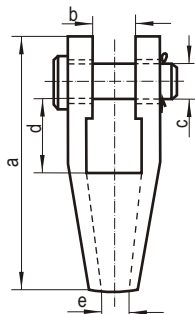
W.L.L. tons	O max mm	B max mm	D mm	G mm	Unit weight kg
0.500	48 - 114	210	42	30	4.0
1.000	114 - 219	385	45	45	9.0
2.000	219 - 368	640	60	70	24.0
3.000	368 - 508	730	72	70	40.0

CLOSED SPELTER SOCKET



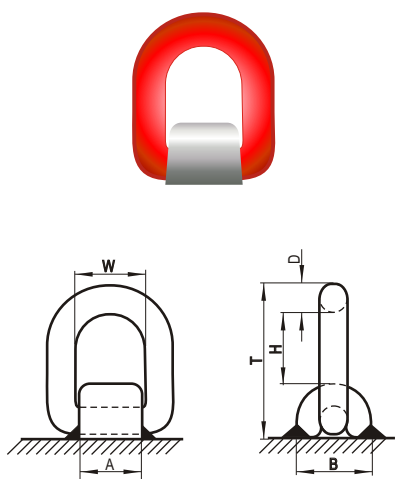
W.L.L. tons	Rope diameter mm	Height a mm	Width b mm	Width inside c mm	Length inside d mm	Bow diameter e mm	Bow thickness f mm	Opening g mm	Unit weight kg
4	11 - 13	140	51	30	59	17.5	22.5	14	0.7
5	14 - 16	162	67	36	65	21	26	17.5	1.3
8	18 - 19	194	76	42	78	27	32	21	2.1
10	20 - 22	224	92	47	90	33	38	24	3.6
12.6	23 - 26	253	104	57	103	36	44	28	5.3
16	27 - 30	282	114	63	116	39	51	32	7
20	31 - 36	312	127	70	130	43	57	38	9.7
25	37 - 39	358	136	79	155	51	63	41	13
32	40 - 42	390	146	83	171	54	70	44	17
40	43 - 48	443	171	93	198	55	76	51	26
50	49 - 54	502	193	100	224	62	82	57	37.5
64	55 - 60	548	216	112	247	73	92	63	50
80	61 - 68	597	241	140	270	79	102	73	65
90	69 - 75	644	273	159	286	79	124	79	94
100	76 - 80	686	292	171	298	83	133	86	110
120	81 - 86	743	311	184	311	102	146	92	145
140	87 - 93	788	330	197	330	102	159	99	168
160	94 - 102	845	362	216	356	108	178	108	210
200	108 - 115	1000	405	235	425	125	190	125	330
240	120 - 130	1110	515	260	475	135	210	138	550

OPEN SPELTER SOCKET



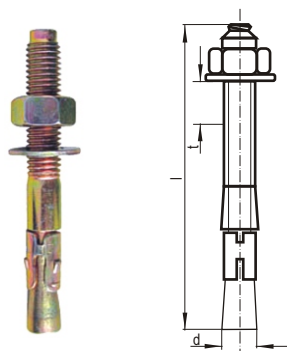
W.L.L. tons	Rope diameter mm	Height a mm	Width inside b mm	Pin diameter c mm	Length inside d mm	Opening e mm	Unit weight kg
4	11 - 13	142	25	25	38	14	1
5	14 - 16	171	32	30	48	17.5	1.8
8	18 - 19	205	38	35	58	21	3.2
10	20 - 22	235	44	41	68	24	4.6
12.6	23 - 26	275	51	51	75	28	8
16	27 - 30	306	57	57	85	32	11
20	31 - 36	338	63	63	95	38	16
25	37 - 39	394	76	70	127	41	23
32	40 - 42	418	76	76	127	44	27
40	43 - 48	468	89	89	133	51	41
50	49 - 54	552	101	95	180	57	58
64	55 - 60	598	113	108	196	63	85
80	61 - 68	654	127	121	212	73	118
90	69 - 75	696	133	127	215	79	155
100	76 - 80	737	146	133	219	86	173
120	81 - 86	788	159	140	228	92	230
140	87 - 93	852	171	152	242	99	265
160	94 - 102	914	191	178	254	108	370
200	108 - 115	1145	205	159	382	125	525
240	120 - 130	1280	225	250	375	138	900

WELD-ON LIFTING POINT



W.L.L. kg	A mm	B mm	D mm	H mm	T mm	W mm	Unit weight kg
1120	36	38	13	38	67	40	0.4
3150	43	45	17	48	83	45	0.7
5300	50	60	22	57	101	55	1.5
8000	65	70	26	67	118	70	2.4
15000	90	90	34	93	159	97	6.3

WEDGE ANCHORS



Size	d mm	t mm	Hope depth mm	l mm	Torque KN.m	Pull-out load kg
M 6 x 40	6	5	30	40	1.5	800
M 6 x 65	6	25	35	65	1.5	800
M 6 x 70	6	35	35	70	1.5	800
M 6 x 95	6	55	35	95	1.5	800
M 8 x 50	8	5	40	50	3.0	1100
M 8 x 65	8	20	40	65	3.0	1100
M 8 x 75	8	30	40	75	3.0	1100
M 8 x 80	8	35	40	80	3.0	1100
M 8 x 95	8	50	40	95	3.0	1100
M 8 x 105	8	60	40	105	3.0	1100
M 8 x 120	8	75	40	120	3.0	1100
M 10 x 95	10	37	50	95	4.0	1450
M 10 x 115	10	57	50	115	4.0	1450
M 10 x 130	10	72	50	130	4.0	1450
M 10 x 140	10	82	50	140	4.0	1450
M 10 x 150	10	92	50	150	4.0	1450
M 10 x 160	10	102	50	160	4.0	1450
M 10 x 170	10	112	50	170	4.0	1450
M 12 x 80	12	10	60	80	5.5	2250
M 12 x 100	12	30	60	100	5.5	2250
M 12 x 120	12	50	60	120	5.5	2250
M 12 x 135	12	65	60	135	5.5	2250
M 12 x 150	12	80	60	150	5.5	2250
M 12 x 180	12	110	60	180	5.5	2250
M 16 x 105	16	35	80	105	10.3	3350
M 16 x 130	16	40	80	130	10.3	3350
M 16 x 140	16	50	80	140	10.3	3350
M 16 x 150	16	60	80	150	10.3	3350
M 16 x 180	16	70	80	180	10.3	3350
M 20 x 160	20	45	100	160	13.0	5300
M 20 x 200	20	85	100	200	13.0	5300

CARGO BLOCKS FOR SYNTHETIC AND NATURAL FIBRE ROPES



SINGLE BLOCK

Sheave diameter	mm	75	100	125	150
Max. Rope diameter	mm	8	12	16	20
W.L.L.	kg	500	1000	1500	2000
Body width	mm	52	62	65	85
Length	mm	270	340	390	460
Unit weight	kg	1.20	2.60	3.80	7.20



SINGLE SNATCH BLOCK

Sheave diameter	mm	75	100	125	150
Max rope diameter	mm	8	12	16	20
W.L.L.	kg	500	1000	1500	2000
Body width	mm	52	65	70	90
Length	mm	270	340	390	460
Unit weight	kg	1.20	2.80	4.30	7.60



DOUBLE BLOCK

Sheave diameter	mm	75	100	125	150
Max. Rope diameter	mm	8	12	16	20
W.L.L.	kg	500	1000	1500	2000
Body width	mm	80	90	100	120
Length	mm	270	340	390	460
Unit weight	kg	1.80	3.60	5.60	10.80



DOUBLE SNATCH BLOCK

Sheave diameter	mm	75	100	125	150
Max. rope diameter	mm	8	12	16	20
W.L.L.	kg	500	1000	1500	2000
Body width	mm	95	110	125	140
Length	mm	270	340	390	460
Unit weight	kg	2.20	4.00	6.10	11.30



CONSTRUCTION BLOCK

Sheave diameter mm	W.L.L. kg	Rope diameter mm	Unit weight kg
120	150	20	1.5
145	150	22	1.6
165	200	22	2.2
195	200	24	3.7

ONE LEG STEEL WIRE ROPE SLINGS



	eye-eye	eye - sling hook	eye - shackle	eye - swivel hook	eye - hook	eye - master link	master link - master link	master link - shackle	master link - hook	master link - swivel hook							
Rope diameter mm	4	5	6	7	8	9	10	11	12	13	14	16	18	20	22	24	26
W.L.L. tons	0.20	0.25	0.4	0.55	0.7	0.85	1.05	1.30	1.55	1.80	2.12	2.70	3.40	4.35	5.20	6.30	7.20
Rope diameter mm	28	32	36	40	44	48	52	56	60	64	68	72	76				
W.L.L. tons	8.40	11.0	14.0	17.0	21.0	25.0	29.0	33.5	39.0	47.0	54.0	62.0	70.0				

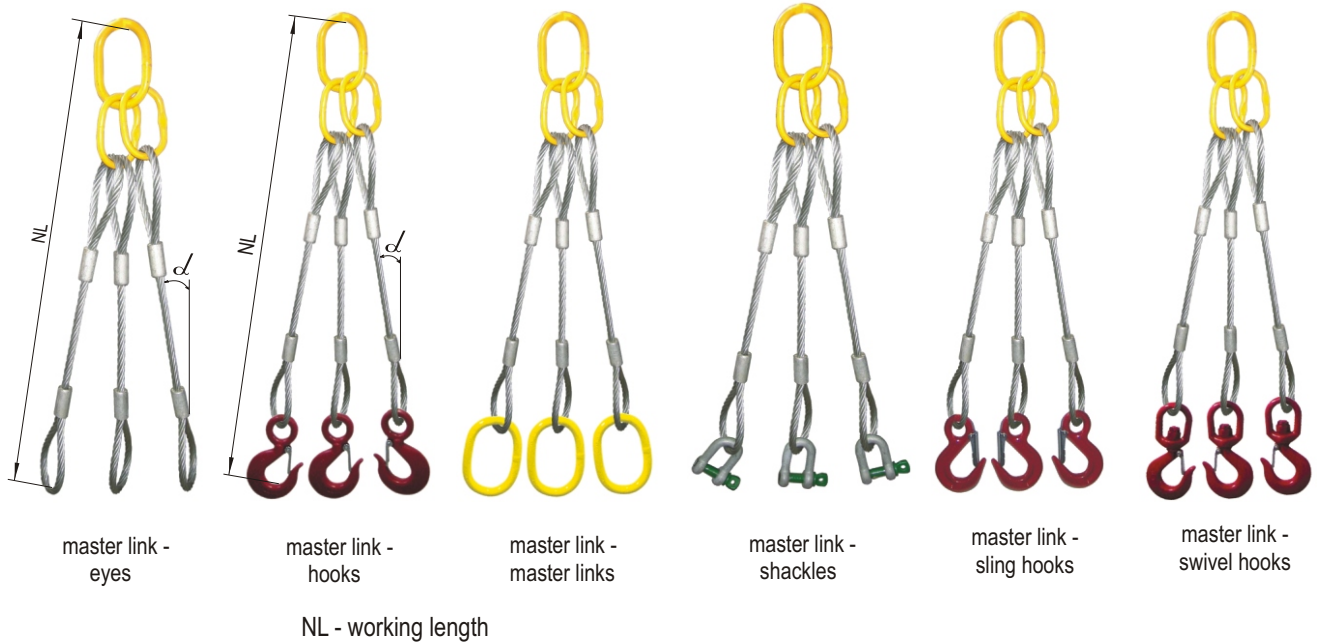
NL - working length

TWO LEG STEEL WIRE ROPE SLINGS

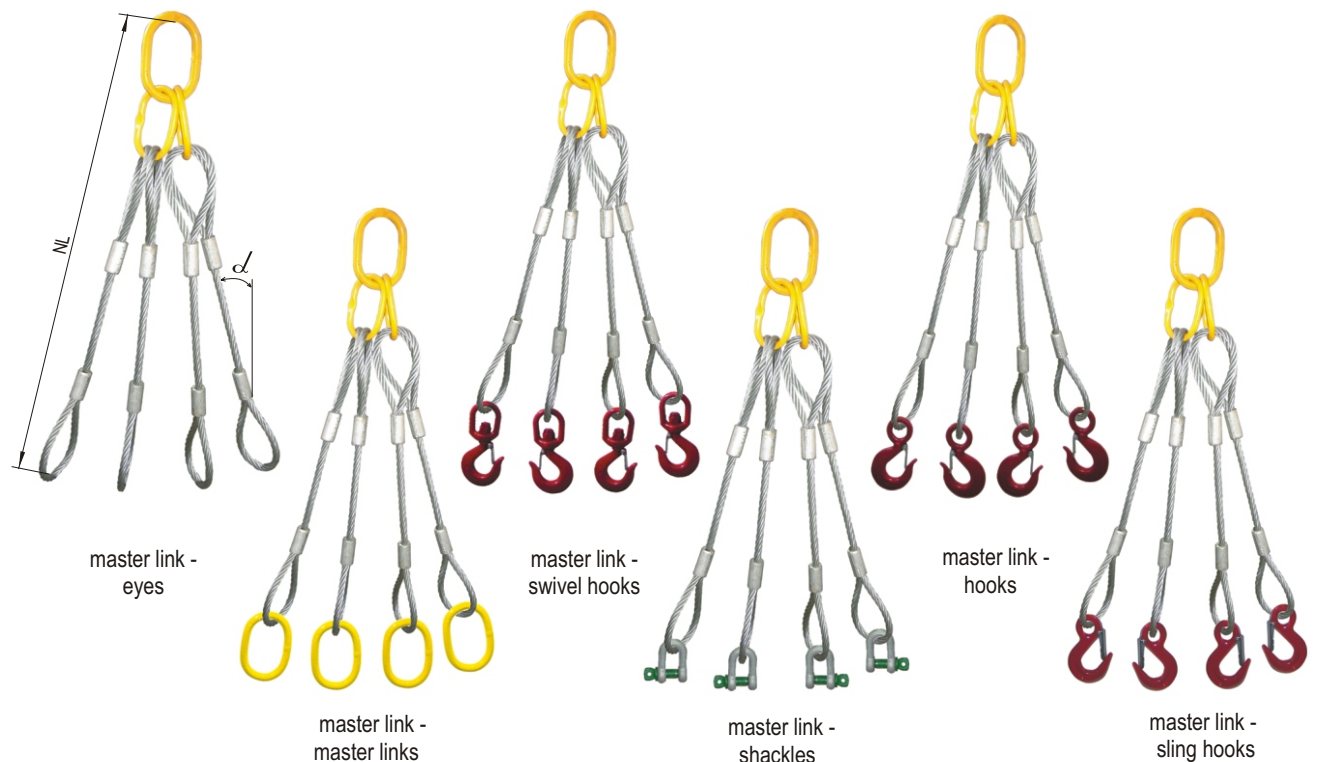
	master link - sling hooks				master link - swivel hooks				master link - master links				master link - shackles				master link - hooks				master link - eyes			
Rope diameter mm	4	5	6	7	8	9	10	11	12	13	14	16	18	20	22	24	26							
W.L.L. tons, α = 0° до 45°	0.28	0.35	0.56	0.77	0.95	1.20	1.50	1.80	2.12	2.50	3.00	3.85	4.80	6.00	7.20	8.80	10.0							
W.L.L. Tons, α = 45° до 60°	0.2	0.25	0.4	0.55	0.7	0.85	1.05	1.30	1.55	1.80	2.12	2.70	3.40	4.35	5.20	6.30	7.20							
Rope diameter mm	28	32	36	40	44	48	52	56	60															
W.L.L. Tons, α = 0° до 45°	11.8	15.0	19.0	23.5	29.0	35.0	40.0	47.0	54.0															
W.L.L. Tons, α = 45° до 60°	8.40	11.0	14.0	17.0	21.0	25.0	29.0	33.5	39.0															

NL - working length

THREE LEG STEEL WIRE ROPE SLINGS



FOUR LEG STEEL WIRE ROPE SLINGS



Rope diameter mm	4	5	6	7	8	9	10	11	12	13	14	16	18	20	22	24	26
W.L.L. Tons $\alpha = 0^\circ \text{ до } 45^\circ$	0.42	0.53	0.84	1.16	1.50	1.80	2.25	2.70	3.30	3.85	4.35	5.65	7.20	9.00	11.0	13.5	15.0
W.L.L. tons $\alpha = 45^\circ \text{ до } 60^\circ$	0.30	0.38	0.60	0.83	1.05	1.30	1.60	1.95	2.30	2.70	3.15	4.20	5.20	6.50	7.80	9.80	11.0
Rope diameter mm	28	32	36	40	44	48	52	56	60								
W.L.L. Tons $\alpha = 0^\circ \text{ до } 45^\circ$	18.0	23.5	29.0	36.0	44.0	52.0	62.0	71.0	81.0								
W.L.L. Tons $\alpha = 45^\circ \text{ до } 60^\circ$	12.5	16.5	21.0	26.0	31.5	37.0	44.0	50.0	58.0								

NL - working length

ONE LEG CHAIN SLINGS GRADE 8



Chain diameter mm	6	7	8	10	13	16	19	22	26	32
W.L.L. tons	1.12	1.50	2.00	3.15	5.30	8.00	11.20	15.00	21.50	31.50

NL - working length

TWO LEG CHAIN SLINGS GRADE 8



Chain diameter mm	6	7	8	10	13	16	19	22	26	32
W.L.L. tons $\alpha = 0^\circ \text{ to } 45^\circ$	1.6	2.12	2.80	4.25	7.50	11.20	16.00	21.20	30.00	45.00
W.L.L. tons $\alpha = 45^\circ \text{ to } 60^\circ$	1.12	1.50	2.00	3.15	5.30	8.00	11.20	15.00	21.50	31.50

NL - working length

THREE LEG CHAIN SLINGS GRADE 8



Chain diameter mm	6	7	8	10	13	16	19	22	26	32
W.L.L. tons $\alpha = 0^\circ \text{ до } 45^\circ$	2.36	3.15	4.25	6.70	11.20	17.00	23.60	31.50	45.00	67.00
W.L.L. tons $\alpha = 45^\circ \text{ до } 60^\circ$	1.70	2.24	3.00	4.75	8.00	11.80	17.00	22.40	31.50	47.50

NL - working length

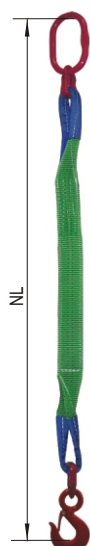
FOUR LEG CHAIN SLINGS GRADE 8



Chain diameter mm	6	7	8	10	13	16	19	22	26	32
W.L.L. tons $\alpha = 0^\circ \text{ до } 45^\circ$	2.36	3.15	4.25	6.70	11.20	17.00	23.60	31.50	45.00	67.00
W.L.L. tons $\alpha = 45^\circ \text{ до } 60^\circ$	1.70	2.24	3.00	4.75	8.00	11.80	17.00	22.40	31.50	47.50

NL - working length

ONE LEG FLAT POLYESTER WEBBING SLINGS ACC. TO EN 1492-1



master link -
hook



master link -
sling hook



master link -
swivel hook



master link -
shackle

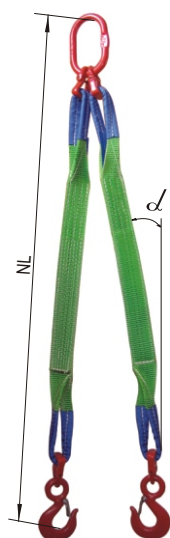


master link -
master link

colour	violet	green	yellow	grey	red	brown	blue	orange
W.L.L. tons	1.00	2.00	3.00	4.00	5.00	6.00	8.00	10.00

NL - working length

TWO LEG FLAT POLYESTER WEBBING SLINGS ACC. TO EN 1492-1



master link -
hooks



master link -
sling hooks



master link -
swivel hooks



master link -
shackles

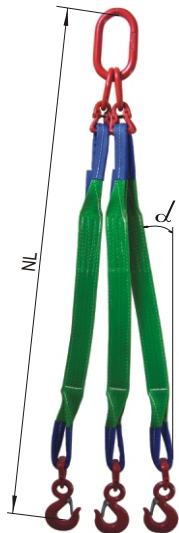


master link -
master links

colour	violet	green	yellow	grey	red	brown	blue	orange
W.L.L. tons $\alpha = 0^\circ \text{ to } 45^\circ$	1.40	2.80	4.20	5.60	7.00	8.40	11.20	14.00
W.L.L. tons $\alpha = 45^\circ \text{ to } 60^\circ$	1.00	2.00	3.00	4.00	5.00	6.00	8.00	10.00

NL - working length

THREE LEG FLAT POLYESTER WEBBING SLINGS ACC. TO EN 1492-1



master link -
hooks



master link -
sling hooks



master link -
swivel hooks



master link -
shackles

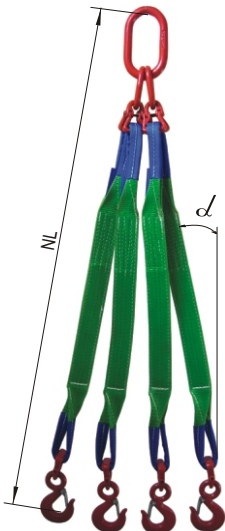


master link -
master links

colour	violet	green	yellow	grey	red	brown	blue	orange
W.L.L. tons $\alpha = 0^\circ \text{ до } 45^\circ$	2.10	4.20	6.30	8.40	10.50	12.60	16.60	21.00
W.L.L. tons $\alpha = 45^\circ \text{ до } 60^\circ$	1.50	3.00	4.50	6.00	7.50	9.00	12.00	15.00

NL - working length

FOUR LEG FLAT POLYESTER WEBBING SLINGS ACC. TO EN 1492 - 1



master link -
hooks



master link -
sling hooks



master link -
swivel hooks



master link -
shackles

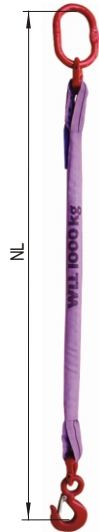


master link -
master links

colour	violet	green	yellow	grey	red	brown	blue	orange
W.L.L. tons $\alpha = 0^\circ \text{ до } 45^\circ$	2.10	4.20	6.30	8.40	10.50	12.60	16.60	21.00
W.L.L. tons $\alpha = 45^\circ \text{ до } 60^\circ$	1.50	3.00	4.50	6.00	7.50	9.00	12.00	15.00

NL - working length

ONE LEG ROUND SLINGS ACC. TO EN 1492-2



master link -
hook



master link -
sling hook



master link -
swivel hook



master link -
shackle

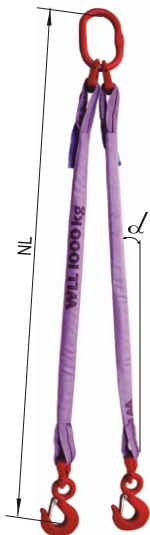


master link -
master link

colour	violet	green	yellow	grey	red	brown	blue	orange
W.L.L. tons	1.00	2.00	3.00	4.00	5.00	6.00	8.00	10.00

NL - working length

TWO LEG ROUND SLINGS ACC. TO EN 1492-2



master link -
hooks



master link -
sling hooks



master link -
swivel hooks



master link -
shackles



master link -
master links

colour	violet	green	yellow	grey	red	brown	blue	orange
W.L.L. tons $\alpha = 0^\circ \text{ до } 45^\circ$	1.40	2.80	4.20	5.60	7.00	8.40	11.20	14.00
W.L.L. tons $\alpha = 45^\circ \text{ до } 60^\circ$	1.00	2.00	3.00	4.00	5.00	6.00	8.00	10.00

NL - working length

THREE LEG ROUND SLINGS ACC. TO EN 1492-2



master link -
hooks

master link -
sling hooks

master link -
swivel hooks

master link -
shackles

master link -
master links

colour	violet	green	yellow	grey	red	brown	blue	orange
W.L.L. tons $\alpha = 0^\circ \text{ до } 45^\circ$	2.10	4.20	6.30	8.40	10.50	12.60	16.60	21.00
W.L.L. tons $\alpha = 45^\circ \text{ до } 60^\circ$	1.50	3.00	4.50	6.00	7.50	9.00	12.00	15.00

NL - working length

FOUR LEG ROUND SLINGS ACC. TO EN 1492-2



master link -
hooks

master link -
sling hooks

master link -
swivel hooks

master link -
shackles

master link -
master links

colour	violet	green	yellow	grey	red	brown	blue	orange
W.L.L. tons $\alpha = 0^\circ \text{ до } 45^\circ$	2.10	4.20	6.30	8.40	10.50	12.60	16.60	21.00
W.L.L. tons $\alpha = 45^\circ \text{ до } 60^\circ$	1.50	3.00	4.50	6.00	7.50	9.00	12.00	15.00

NL - working length

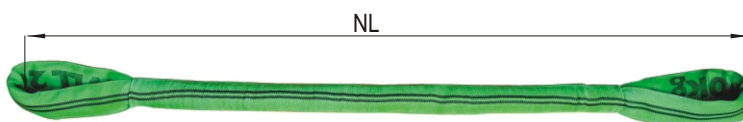
ENDLESS ROUND SLINGS ACC. TO EN 1492-2



- Safety factor 7 : 1
- Colour code acc. to EN 1492 - 2
- One black stripe per ton W.L.L.

colour	min NL	max NL	W.L.L.				
	M	M	kg	kg	kg	kg	kg
violet	0.5	20	1000	800	2000	1400	1000
green	0.5	20	2000	1600	4000	2800	2000
yellow	0.5	50	3000	2400	6000	4200	3000
grey	0.5	50	4000	3200	8000	5600	4000
red	0.5	50	5000	4000	10000	7000	5000
brown	1.0	50	6000	4800	12000	8400	6000
blue	1.5	50	8000	6400	16000	11200	8000
orange	2.5	50	10000	8000	20000	14000	10000
orange	2.5	50	20000	16000	40000	28000	20000
orange	2.5	50	30000	24000	60000	42000	30000
orange	2.5	50	40000	32000	80000	56000	40000
orange	2.5	50	50000	40000	100000	70000	50000
orange	2.5	50	60000	48000	120000	84000	60000
orange	2.5	50	80000	64000	160000	112000	80000
orange	2.5	50	100000	80000	200000	140000	100000

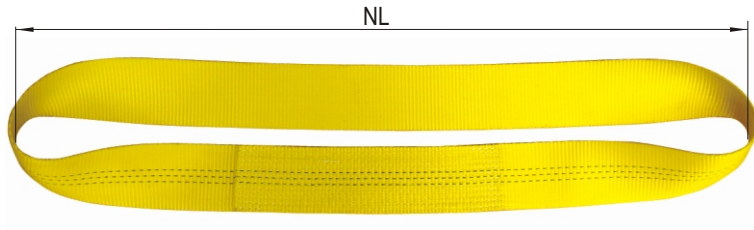
ENDLESS ROUND SLINGS WITH SLEEVE ACC. TO EN 1492-2



- Safety factor 7 : 1
- Colour code acc. to EN 1492 - 2
- One black stripe per ton W.L.L.

colour	min NL	max NL	W	EL	W.L.L.				
	M	M	mm	mm	kg	kg	kg	kg	kg
violet	0.5	10	35	150	1000	800	2000	1400	1000
green	0.5	10	40	200	2000	1600	4000	2800	2000
yellow	0.5	20	50	200	3000	2400	6000	4200	3000
grey	0.5	20	60	300	4000	3200	8000	5600	4000
red	0.5	20	70	300	5000	4000	10000	7000	5000
brown	1.0	50	75	400	6000	4800	12000	8400	6000
blue	1.5	50	86	400	8000	6400	16000	11200	8000
orange	2.5	50	100	500	10000	8000	20000	14000	10000
orange	2.5	50	130	600	20000	16000	40000	28000	20000

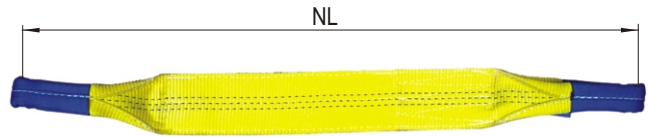
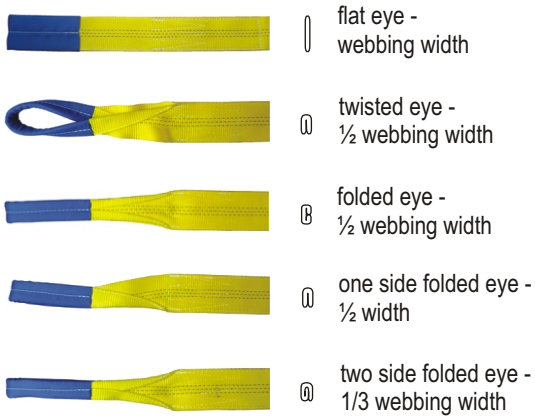
ENDLESS FLAT POLYESTER WEBBING SLINGS ACC.TO EN 1492-1



- Safety factor 7 : 1
- Colour code acc. to EN 1492 - 1
- One black stripe per ton W.L.L.

Colour	Width mm	Ply	Min NL m	Max NL m	W.L.L.				
					 kg	 kg	 kg	 kg	 kg
violet	30	1	0.5	20	1000	800	2000	1400	1000
violet	30	2	0.5	20	2000	1600	4000	2800	2000
violet	30	3	0.5	20	3000	2400	6000	4200	3000
violet	30	4	0.5	20	4000	3200	8000	5600	4000
green	60	1	1.0	20	2000	1600	4000	2800	2000
green	60	2	1.0	20	4000	3200	8000	5600	4000
green	60	3	1.0	20	6000	4800	12000	8400	6000
green	60	4	1.0	20	8000	6400	16000	11200	8000
yellow	90	1	1.0	20	3000	2400	6000	4200	3000
yellow	90	2	1.0	20	6000	4800	12000	8400	6000
yellow	90	3	1.0	20	9000	7200	18000	12600	9000
yellow	90	4	1.0	20	12000	9600	24000	16800	12000
grey	120	1	2.0	50	4000	3200	8000	5600	4000
grey	120	2	2.0	50	8000	6400	16000	11200	8000
grey	120	3	2.0	50	12000	9600	24000	16800	12000
grey	120	4	2.0	50	16000	12800	32000	22400	16000
red	150	1	2.0	50	5000	4000	10000	7000	5000
red	150	2	2.0	50	10000	8000	20000	14000	10000
red	150	3	2.0	50	15000	12000	30000	21000	15000
red	150	4	2.0	50	20000	16000	40000	28000	20000
brown	180	1	2.0	50	6000	4800	12000	8400	6000
brown	180	2	2.0	50	12000	9600	24000	16800	12000
brown	180	3	2.0	50	18000	14400	36000	25200	18000
brown	180	4	2.0	50	24000	19200	48000	33600	24000
blue	240	1	3.0	50	8000	6400	16000	11200	8000
blue	240	2	3.0	50	16000	12800	32000	22400	16000
blue	240	3	3.0	50	24000	19200	48000	33600	24000
blue	240	4	3.0	50	32000	25600	64000	44800	32000
orange	300	1	3.0	50	10000	8000	20000	14000	10000
orange	300	2	3.0	50	20000	16000	40000	28000	20000
orange	300	3	3.0	50	30000	24000	60000	42000	30000
orange	300	4	3.0	50	40000	32000	80000	56000	40000
orange	300	5	3.0	50	50000	40000	100000	70000	50000

FLAT POLYESTER WEBBING SLINGS ACC. TO EN1492-1



FLAT WEBBING SLING

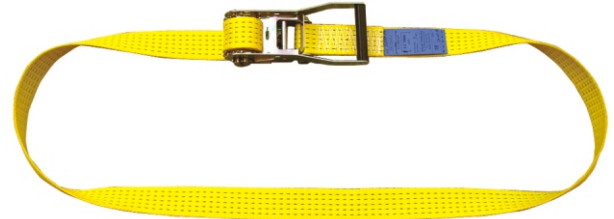
- Safety factor 7 : 1
- Colour code acc. to EN 1492 - 1
- One black stripe per ton W.L.L.

Colour	Width mm	Ply	min NL m	max. NL m	W.L.L.					Eye length mm
					 kg	 kg	 kg	 kg	 kg	
violet	30	1	1.0	20	500	400	1000	700	500	90
violet	30	2	1.0	20	1000	800	2000	1400	1000	90
violet	30	3	1.0	20	1500	1200	3000	2100	1500	120
violet	30	4	1.0	20	2000	1600	4000	2800	2000	120
green	60	1	1.0	20	1000	800	2000	1400	1000	180
green	60	2	1.0	20	2000	1600	4000	2800	2000	180
green	60	3	1.0	20	3000	2400	6000	4200	3000	230
green	60	4	1.0	20	4000	3200	8000	5600	4000	230
yellow	90	1	1.0	50	1500	1200	3000	2100	1500	270
yellow	90	2	1.0	50	3000	2400	6000	4200	3000	270
yellow	90	3	1.0	50	4500	3600	9000	6300	4500	320
yellow	90	4	1.0	50	6000	4800	11200	8400	6000	320
grey	120	1	2.0	50	2000	1600	4000	2800	2000	360
grey	120	2	2.0	50	4000	3200	8000	5600	4000	360
grey	120	3	2.0	50	6000	4800	12000	8400	6000	420
grey	120	4	2.0	50	8000	6400	16000	11200	8000	420
red	150	1	2.0	50	2500	2000	5000	3500	2500	450
red	150	2	2.0	50	5000	4000	10000	7000	5000	450
red	150	3	2.0	50	7500	6000	15000	10500	7500	500
red	150	4	2.0	50	10000	8000	20000	14000	10000	500
brown	180	1	2.0	50	3000	2400	6000	4200	3000	450
brown	180	2	2.0	50	6000	4800	12000	8400	6000	450
brown	180	3	2.0	50	9000	7200	18000	12600	9000	520
brown	180	4	2.0	50	12000	9600	24000	16800	12000	520
blue	240	1	3.0	50	4000	3200	8000	5600	4000	600
blue	240	2	3.0	50	8000	6400	16000	11200	8000	600
blue	240	3	3.0	50	12000	9600	24000	16800	12000	700
blue	240	4	3.0	50	16000	12800	32000	22400	16000	700
orange	300	1	3.0	50	5000	4000	10000	7000	5000	750
orange	300	2	3.0	50	10000	8000	20000	14000	10000	750
orange	300	3	3.0	50	15000	12000	30000	21000	15000	850
orange	300	4	3.0	50	20000	16000	40000	28000	20000	850

RATCHET TIE-DOWNS



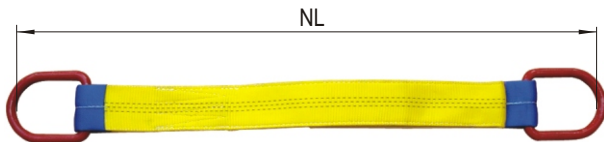
WITH HOOKS



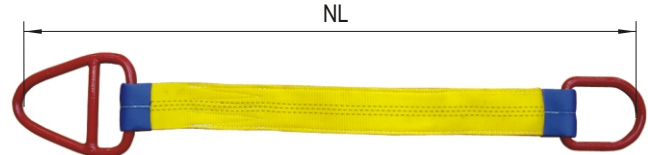
ENDLESS

Colour	Webbing width mm	W.L.L. 	W.L.L. 	Minimum length m	Maximum length m
		DaN	DaN		
green	35	1000	2000	1	20
blue	48	2000	4000	1	20
yellow	50	2500	5000	1	20
orange	75	5000	1000	1	20

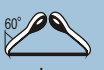
FLAT WEBBING SLINGS WITH METAL FITTINGS



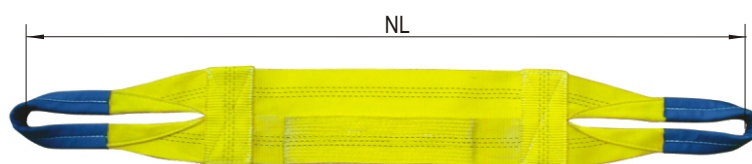
FLAT WEBBING SLING WITH RINGS



FLAT WEBBING SLING WITH CHOKER AND RING

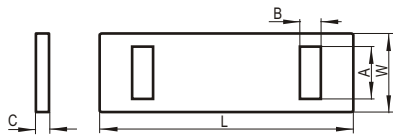
Colour	Width mm	Ply	W.L.L.				
			 kg	 kg	 kg	 kg	 kg
green	60	1	1000	800	2000	1400	1000
green	60	2	2000	1600	4000	2800	2000
yellow	90	1	1500	1200	3000	2100	3000
yellow	90	2	3000	2400	6000	4200	3000
grey	120	1	2000	1600	4000	2800	2000
grey	120	2	4000	3200	8000	5600	4000
red	150	1	2500	2000	5000	3500	2500
red	150	2	5000	4000	10000	7000	5000
brown	180	1	3000	2400	6000	4200	3000
brown	180	2	6000	4800	12000	8400	4000
blue	240	1	4000	3200	8000	5600	6000
blue	240	2	8000	6400	16000	11200	8000
orange	300	1	5000	4000	10000	7000	5000
orange	300	2	10000	8000	20000	14000	10000

* Поръчват се по работна дължина NL и работно усилие

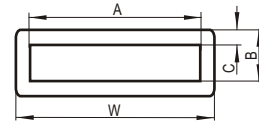


Colour	Width mm	Ply	min NL m	max NL m	W.L.L.		
					 kg	 kg	 kg
violet	60	1	0.5	20	2000	1400	1000
violet	60	2	0.5	20	4000	2800	2000
violet	60	3	0.5	20	6000	4200	3000
violet	60	4	0.5	20	8000	5600	4000
green	120	1	1.0	20	4000	2800	2000
green	120	2	1.0	20	8000	5600	4000
green	120	3	1.0	20	12000	8400	6000
green	120	4	1.0	20	16000	11200	8000
yellow	180	1	1.0	20	6000	4200	3000
yellow	180	2	1.0	20	12000	8400	6000
yellow	180	3	1.0	20	18000	12600	9000
yellow	180	4	1.0	20	24000	16800	12000
grey	240	1	2.0	50	8000	5600	4000
grey	240	2	2.0	50	16000	11200	8000
grey	240	3	2.0	50	24000	16800	12000
grey	240	4	2.0	50	32000	22400	16000
red	300	1	2.0	50	10000	7000	5000
red	300	2	2.0	50	20000	14000	10000
red	300	3	2.0	50	30000	21000	15000
red	300	4	2.0	50	40000	28000	20000
brown	360	1	2.0	50	12000	8400	6000
brown	360	2	2.0	50	24000	16800	12000
brown	360	3	2.0	50	36000	25200	18000
brown	360	4	2.0	50	48000	33600	24000
blue	480	1	3.0	50	16000	11200	8000
blue	480	2	3.0	50	32000	22400	16000
blue	480	3	3.0	50	48000	33600	24000
blue	480	4	3.0	50	64000	44800	32000
orange	600	1	3.0	50	20000	14000	10000
orange	600	2	3.0	50	40000	28000	20000
orange	600	3	3.0	50	60000	42000	30000
orange	600	4	3.0	50	80000	56000	40000
orange	600	5	3.0	50	100000	70000	50000

POLYURETHANE WEBBING SLING PROTECTION



SHEET PROTECTION

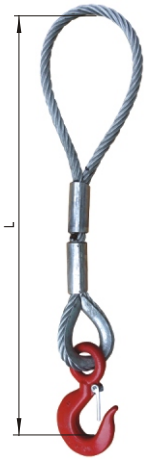


SLEEVE PROTECTION

Webbing width mm	L mm	W mm	A mm	B mm	C mm
30	250	80	35	10	5
50	450	100	60	30	5
60	450	120	70	30	5
90	470	150	100	40	5
120	470	170	130	40	5
150	470	200	160	40	5
180	470	240	190	40	5
240	470	300	250	40	5
300	470	360	310	40	5

Webbing width mm	A mm	W mm	B mm	C mm
30	40	50	10	5
50	60	70	12	5
60	70	80	12	5
90	100	110	12	5
120	135	145	12	5
150	160	170	12	5
180	190	200	12	5
240	250	260	15	8
300	320	330	15	8

SLING ADAPTOR



W.L.L. Kg	Rope diameter mm	Length L mm	Eye dimensions mm
1000	10	480	300 x 150
2000	14	530	350 x 175
3000	18	640	400 x 200
5000	22	800	500 x 250
7000	26	970	600 x 300
10000	30	1100	800 x 400

WIRE ROPE PULLING HOSES



Rope diameter mm	Length mm	W.L.L. kg	Length mm	W.L.L. kg	Length mm	W.L.L. kg
6 - 15	1000	220	600	220	600	220
10 - 15	1500	340	600	340	600	340
15 - 20	1500	680	600	680	600	680
20 - 25	2000	680	600	680	600	680
25 - 30	2000	810	1000	810	1000	810
30 - 40	2000	1170	1250	1170	1250	1170

OTHER CHAIN SLINGS GRADE 8



GRAB HOOK - APPLICATION



SHORTENER - APPLICATION



ENDLES GHAIN SLING

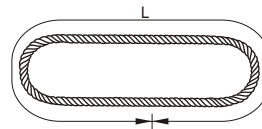


ENDLESS CHAIN SLING WITH MASTER LINK - SINGLE



ENDLESS CHAIN SLING WITH MASTER LINK - DOUBLE

BRAIDED WIRE ROPE SLINGS



A x B mm	W.L.L. kg
48 x 4	1200
60 x 5	1500
65 x 6	3000
80 x 8	4800
100 x 10	6300

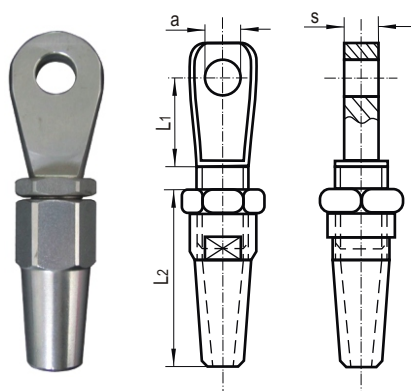
d	W.L.L. kg	d	W.L.L. kg
9	1500	24	11800
12	2600	27	15000
15	4700	30	18000
18	6000	33	22400
21	8000	36	26500

SYNTHETIC WIRE ROPE SLINGS

rope diameter mm	NYLON DIN EN 696				POLYPROPYLENE DIN EN 696			
		kg	kg	kg		kg	kg	kg
16		500	890	560		420	760	470
20		760	1340	850		630	1120	700
24		1120	2000	1250		900	1600	1000
28		1530	2680	1700		1180	2120	1320
32		1900	3400	2120		1530	2680	1700
36		2380	4240	2650		1900	3400	2120
40		3010	5280	3350		2250	4000	2500
48		4050	7200	4500		3190	5600	3500

SWAGELESS EYE TERMINAL

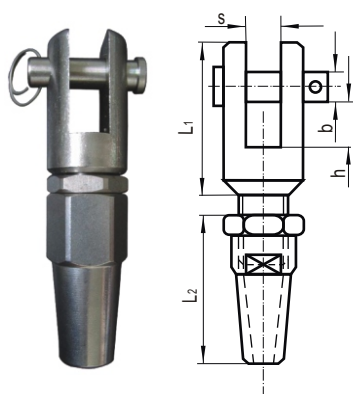
STAINLESS STEEL A4 - AISI 316



Size	Rope Ø mm	L ₁ mm	L ₂ mm	a mm	s mm	Part number
3	3	14	25	5	5	3 - NE - 3
4	4	15	28	7	6	3 - NE - 4
5	5	15	32	9	7	3 - NE - 5
6	6	20	38	10	8	3 - NE - 6
8	8	25	48	13	12	3 - NE - 8
10	10	35	68	14	13	3 - NE - 10

SWAGELESS FORK TERMINAL

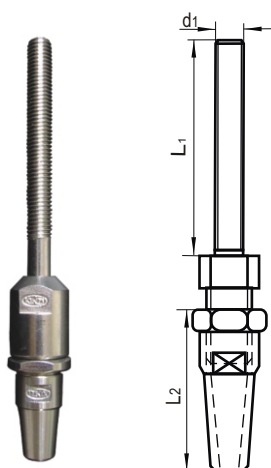
STAINLESS STEEL A4 - AISI 316



Size	Rope Ø mm	L ₁ mm	L ₂ mm	h mm	s mm	b mm	Part number
3	3	27	28	6	6	5	3 - NJ - 3
4	4	34	28	7	7	6	3 - NJ - 4
5	5	37	32	9	9	8	3 - NJ - 5
6	6	46	38	12	10	9	3 - NJ - 6
8	8	58	48	18	12	12	3 - NJ - 8
10	10	64	68	20	14	13	3 - NJ - 10

SWAGELESS STUD TERMINAL

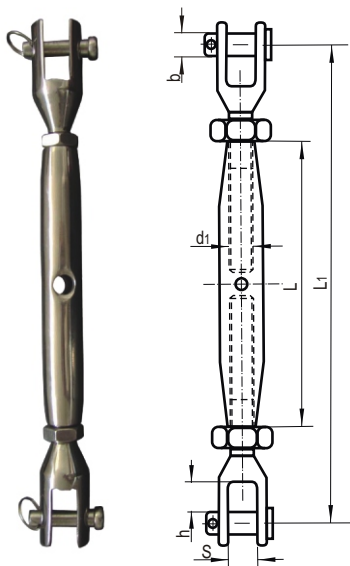
STAINLESS STEEL A4 - AISI 316



Size	Rope Ø mm	d ₁	L ₁ mm	L ₂ mm	Part number
3	3	M6	48	35	3 - NSH - 06/3
4	4	M8	58	36	3 - NSH - 08/4
5	5	M10	64	40	3 - NSH - 10/5
6	6	M12	80	49	3 - NSH - 12/6
8	8	M16	86	54	3 - NSH - 16/8

RIGGING SCREW JAW - JAW

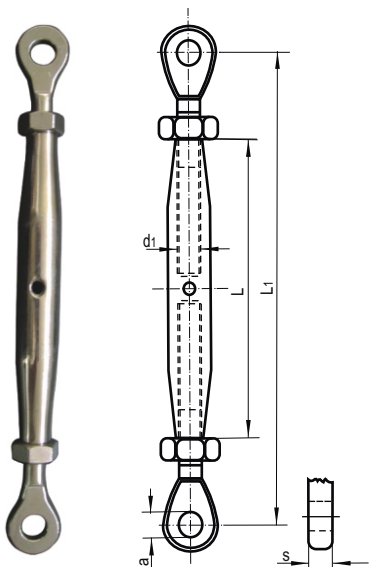
STAINLESS STEEL A4 - 316



Size	d ₁	h mm	s mm	b mm	L mm	L ₁ mm	Part number
6	M6	9	6	5	78	130	INOX - TTJ - 6
8	M8	11	8	6	90	150	INOX - TTJ - 8
10	M10	11	10	8	99	175	INOX - TTJ - 10
12	M12	14	12	8	125	215	INOX - TTJ - 12
14	M14	18	14	12	155	270	INOX - TTJ - 14
16	M16	20	16	12	170	300	INOX - TTJ - 16
20	M20	22	20	14	220	360	INOX - TTJ - 20
22	M22	24	30	16	260	435	INOX - TTJ - 22

RIGGING SCREW EYE - EYE

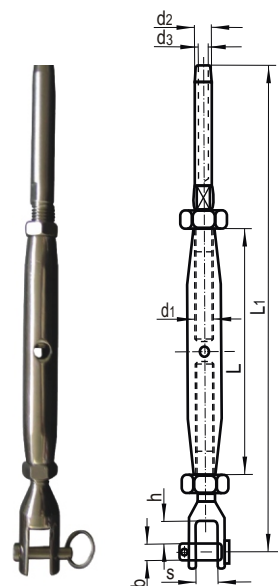
STAINLESS STEEL A4 - AIS 316



Size	d ₁	s mm	a mm	L mm	L ₁ mm	Part number
6	M6	4	7	90	125	INOX - TTE - 6
8	M8	5	8.5	105	155	INOX - TTE - 8
10	M10	6	11	125	190	INOX - TTE - 10
12	M12	8	13	150	222	INOX - TTE - 12
14	M14	9	15	165	250	INOX - TTE - 14
16	M16	10	15	190	275	INOX - TTE - 16

RIGGING SCREW JAW - SWAGE

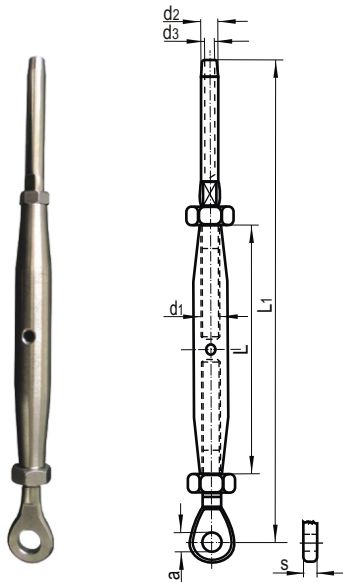
STAINLESS STEEL A4 - 316



Rope Ø mm	Thread d ₁	d ₂ mm	d ₃ mm	h mm	s mm	b mm	L mm	L ₁ mm	Part number
3	M6	6.3	3.3	9	6	5	78	155	4 V 06
4	M8	7.5	4.3	11	10	6	90	185	4 V 08
5	M10	9.0	5.3	11	10	8	99	200	4 V 10
6	M12	12.5	6.3	14	12	8	125	255	4 V 12
8	M16	16.0	8.3	20	15	12	170	370	4 V 16
10	M20	17.8	10.5	25	20	14	210	415	4 V 20
12	M20	20	12.5	25	20	14	210	425	4 V 201
14	M22	25	14.5	30	23	18	250	490	4 V 22
16	M22	28	16.5	30	23	18	250	510	4 V 221

RIGGING SCREW EYE - SWAGE

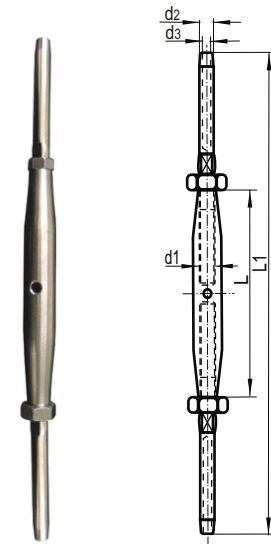
STAINLESS STEEL A4 - AISI 316



Rope Ø mm	Thread d ₁	d ₂ mm	d ₃ mm	a mm	s mm	L mm	L ₁ mm	Part number
3	M6	6.3	3.3	6.5	4	95	168	4 U 06
4	M8	7.5	4.3	8.5	5	105	200	4 U 08
5	M10	9.0	5.3	10.5	6	125	234	4 U 10
6	M12	12.5	6.3	13.0	8	150	280	4 U 12
8	M16	16.0	8.3	14.5	10	190	362	4 U 16
10	M20	17.8	10.5	19.5	15	215	405	4 U 20

RIGGING SCREW SWAGE - SWAGE

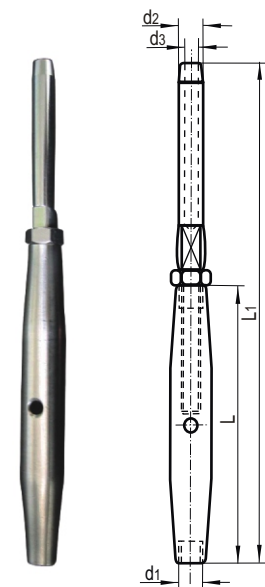
STAINLESS STEEL A4 - AISI 316



Rope Ø mm	Thread d ₁	d ₂ mm	d ₃ mm	L mm	L ₁ mm	Part number
3	M6	6.3	3.3	78	190	4 9816 03
4	M8	7.5	4.3	90	220	4 9816 04
5	M10	9.0	5.3	99	245	4 9816 05
6	M12	12.5	6.3	125	305	4 9816 06
8	M16	16.0	8.3	170	385	4 9816 08
10	M20	17.8	10.5	210	405	4 9716 10

RIGGING SCREW BODY - SWAGE

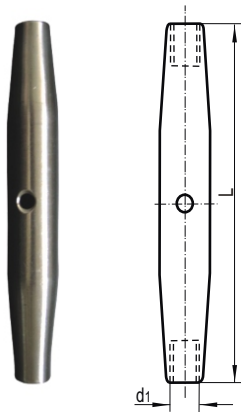
STAINLESS STEEL A4 - 316



Size	Rope Ø mm	Thread d ₁	d ₂ mm	d ₃ mm	L mm	L ₁ mm	Part number
M6	3	M6	6.3	3.3	78	135	4 1816 06
M8	4	M8	7.5	4.3	90	155	4 1816 08
M10	5	M10	9.0	5.3	99	170	4 1816 10
M12	6	M12	12.5	6.3	125	215	4 1816 12
M16	8	M16	16.0	8.3	170	280	4 1816 16
M20	10	M20	17.8	10.5	210	308	4 1816 20

RIGGING SCREW - BODY

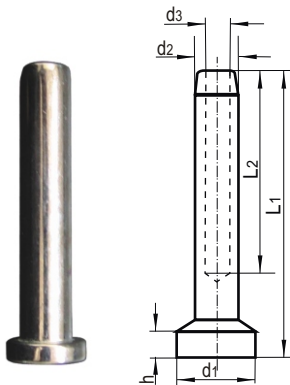
STAINLESS STEEL A4 - AISI 316



Size	d ₁ mm	L mm	Part number
M6	M6	78	4 7103 4 06
M8	M8	90	4 7103 4 08
M10	M10	99	4 7103 4 10
M12	M12	125	4 7103 4 12
M16	M16	170	4 7103 4 16
M20	M20	210	4 7103 4 16

DOME HEAD TERMINAL

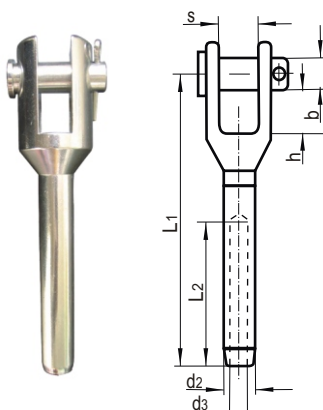
STAINLESS STEEL A4 - AISI 316



Rope Ø mm	d ₁ mm	d ₂ mm	d ₃ mm	L ₁ mm	L ₂ mm	h mm	Part number
3	8.0	5.5	3.3	34	25	3.0	5 08980 03
4	10.0	6.4	4.3	35	28	3.0	5 08980 04
5	11.0	7.5	5.3	41	32	4.0	5 08980 05
6	14.0	9.0	6.3	52	40	5.0	5 08980 06

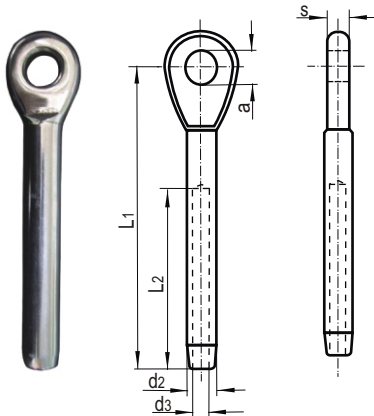
SWAGE FORK TERMINAL

STAINLESS STEEL A4 - AISI 316



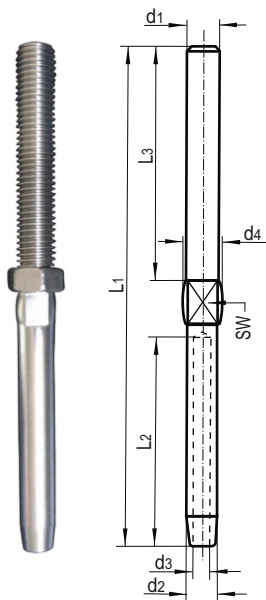
Rope Ø mm	d ₂ mm	d ₃ mm	L ₁ mm	L ₂ mm	h mm	s mm	b mm	Part number
3	6.3	3.3	63	38	12	6	6	4 7975 4 03
4	7.5	4.3	74	45	12	9	6	4 7975 4 04
5	9.0	5.3	85	52	16	10	9	4 7975 4 05
6	12.5	6.3	115	63	16	13	9	4 7975 4 06
8	16.0	8.3	130	80	22	14	14	4 7975 4 08
10	17.8	10.5	155	100	24	16	16	4 7975 4 10
12	20.0	12.5	165	105	25	20	16	4 7975 4 12
14	25.0	14.5	180	110	27	23	18	4 7975 4 14
16	28.0	16.5	230	125	30	24	20	4 7975 4 16

SWAGE EYE TERMINAL STAINLESS STEEL A4 - AISI 316



Rope Ø mm	d ₂ mm	d ₃ mm	L ₁ mm	L ₂ mm	a mm	s mm	Part number
3	6.3	3.3	55	38	6.5	4.0	4 7976 4 03
4	7.5	4.3	67	43	8.5	5.0	4 7976 4 04
5	9.0	5.3	72	50	10.0	6.0	4 7976 4 05
6	12.5	6.3	93	65	12.5	8.0	4 7976 4 06
8	16.0	8.3	120	82	14.0	10.0	4 7976 4 08
10	17.8	10.5	138	90	16.0	12.0	4 7976 4 10

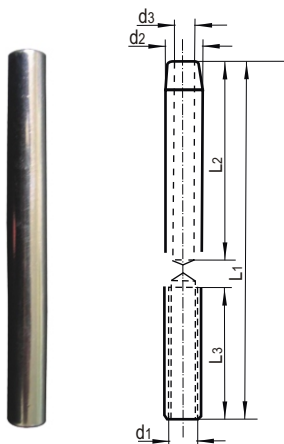
SWAGE STUD TERMINAL STAINLESS STEEL A4 - AISI 316



Rope Ø mm	Thread d ₁	d ₂ mm	d ₃ mm	d ₄ mm	L ₁ mm	L ₂ mm	L ₃ mm	SW mm	Part number	Part number
3	M6	6.3	3.3	7.0	97	38	48	5	4 7092 4 06/3	4 7092 4 06/3 L
4	M8	7.5	4.3	8.5	115	45	54	6	4 7092 4 08/4	4 7092 4 08/4 L
5	M10	9.0	5.3	10.5	128	52	61	7	4 7092 4 10/5	4 7092 4 10/5 L
6	M12	12.5	6.3	13.5	162	63	79	10	4 7092 4 12/6	4 7092 4 12/6 L
8	M16	16.0	8.3	17.0	214	80	102	14	4 7092 4 16/8	4 7092 4 16/8 L
10	M20	17.8	10.5	18.5	215	90	105	15	4 7092 4 20/10	4 7092 4 20/10 L
12	M20	20.0	12.5	21.0	235	105	115	17	4 7092 4 20/12	4 7092 4 20/12 L
14	M22	25.0	14.5	27.0	270	110	130	20	4 7092 4 22/14	4 7092 4 22/14 L
16	M22	28.0	16.5	29.0	285	125	130	24	4 7092 4 22/16	4 7092 4 22/16 L

• L - left thread

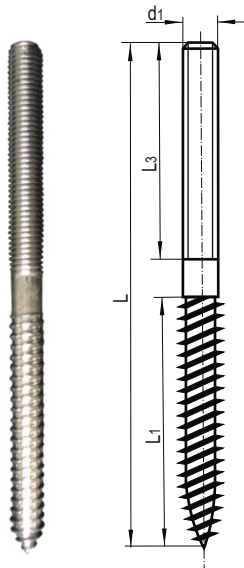
INSIDE THREAD TERMINAL STAINLESS STEEL A4 - AISI 316



Rope Ø mm	Thread d ₁	d ₂ mm	d ₃ mm	L ₁ mm	L ₂ mm	L ₃ mm	Part number	Part number
3	M5	6.5	3.3	74	40	24	4 7134 2 05/3	4 7134 2 05/3 L
4	M6	7.5	4.3	80	45	26	4 7134 2 06/4	4 7134 2 06/4 L
5	M6	9.0	5.3	85	50	26	4 7092 2 06/5	4 7134 2 06/5 L
6	M8	12.5	6.3	104	63	30	4 7092 2 08/6	4 7134 2 08/6 L

• L - left thread

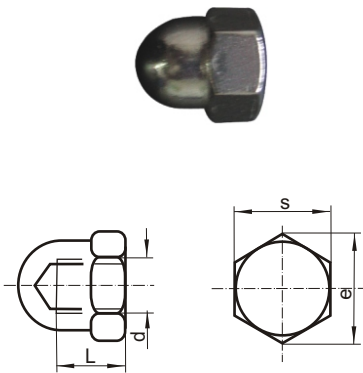
WALL STUD STAINLESS STEEL A4 - AISI 316



Size d1	L ₁ mm	L ₂ mm	L ₃ mm	Part number	Part number
M6	90	48	36	4 7200 4 06	4 7200 4 06 L
M8	130	65	55	4 7200 4 08	4 7200 4 08 L
M10	150	72	65	4 7200 4 10	4 7200 4 10 L
M12	170	85	75	4 7200 4 12	4 7200 4 12 L

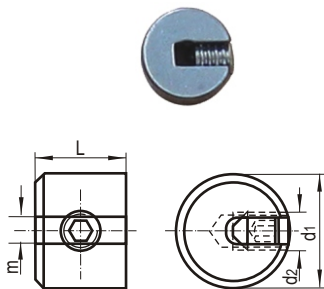
- L - left thread

CAPPED NUT STAINLESS STEEL A4 - AISI 316



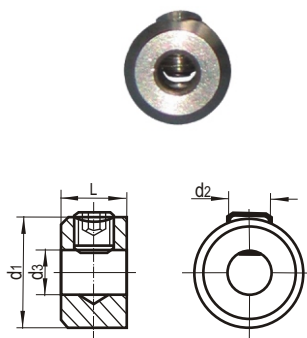
Size	d mm	L mm	e mm	s mm	Part number
M6	M6	8.0	11.0	10	5 90070 06
M8	M8	11.0	14.4	13	5 90070 08
M10	M10	13.0	18.9	17	5 90070 10
M12	M12	16.0	21.1	19	5 90070 12
M16	M16	21.0	26.8	24	5 90070 16
M20	M20	26.0	33.6	30	5 90070 20

STOPPER STAINLESS STEEL A4 - AISI316



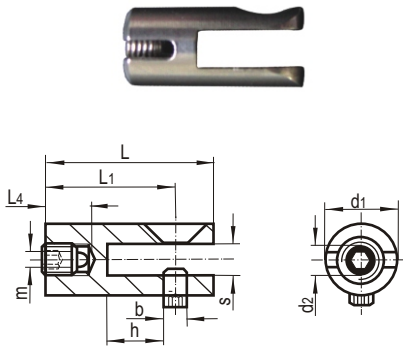
Size	Rope Ø mm	m mm	d ₁ mm	d ₂ mm	L mm	Part number
2	1.5 + 2	2.2	10	M4	8	5 4866 2
4	3 + 4	4.3	15	M8	12	5 4866 4
6	5 + 6	6.3	20	M10	15	5 4866 6

CLAMPING RING STAINLESS STEEL A4 - AISI 316



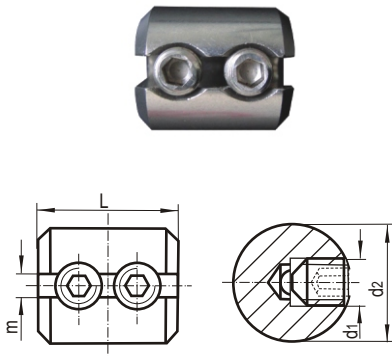
Size	Rope Ø mm	d ₁ mm	d ₂ mm	d ₃ mm	L mm	Part number
2	2	8	M4	2.3	6	5 4826 2
4	3	10	M4	3.3	6	5 4826 3
6	4	12	M4	4.3	8	5 4826 4

DISPLAY CLAMP STAINLESS STEEL A4 - AISI 316



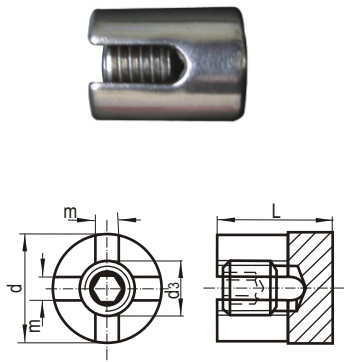
Size	Rope Ø mm	L mm	L ₁ mm	L ₄ mm	d ₁ mm	d ₂	m mm	h mm	b	s mm	Part number
2	1.5 + 2	22	17	6	10	M4	2.2	7	M3	4.5	5 4916 2

STOPPER, DOUBLE STAINLESS STEEL A4 - AISI 316



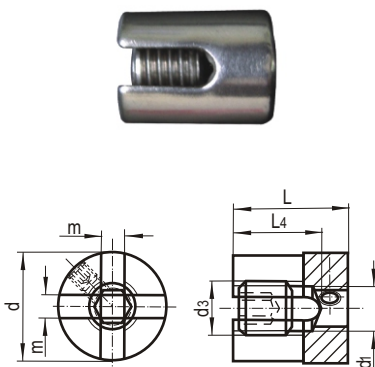
Size	Rope Ø mm	m mm	Thread d ₁	d ₂ mm	L mm	Part number
4	3 + 4	4.2	M8	20	24	5 8846 4
6	5 + 6	6.2	M10	28	32	5 8846 6

CROSS - OVER CLIP STAINLESS STEEL A4 - AISI 316



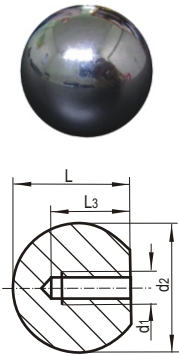
Size	Rope Ø mm	d mm	L mm	d ₃ mm	m mm	Part number
3	3	17	19	M10	3.3	4 7119 4 3
4	4	20	23	M12	4.4	4 7119 4 4
5	5	20	24	M12	5.4	4 7119 4 5
6	6	21	25	M12	6.3	4 7119 4 6

CROSS - OVER CLIP STAINLESS STEEL A4 - AISI 316



Size	Rope Ø mm	d mm	L mm	L ₄ mm	d ₁ mm	d ₃ mm	m mm	Part number
4	3 + 4	20	21	16	M8	M10	4.2	5 38962 04

THREADED BALL STAINLESS STEEL A4 - AISI 316

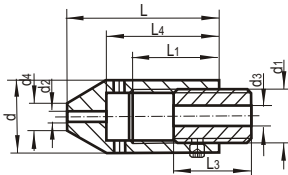


Size	Thread d ₁	d ₂ mm	L mm	L ₃ mm	Part number
M 6/15	M6	15	14.0	9	5 2016 6/15
M 6/20	M6	20	18.5	12	5 2016 6/20
M 8/20	M8	20	18.0	12	5 2016 8/20
M 6/25	M6	25	22.0	15	5 2016 6/25
M 6/30	M6	30	22.0	15	5 2016 6/30

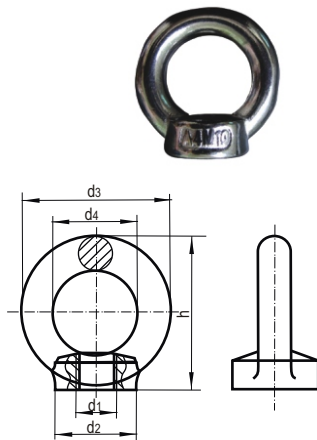
TENSIONER STAINLESS STEEL A4 - AISI 316



Size	Rope Ø mm	L mm	L ₁ mm	L ₃ mm	L ₄ mm	d mm	d ₁	d ₂ mm	d ₃	d ₄ mm	Part number
2	1.5 + 2	35	20	18	26	16	M12	2.5	M5	6	5 4836 2
4	3 + 4	40	25	23	33	20	M16	4.5	M6	12	5 4836 4

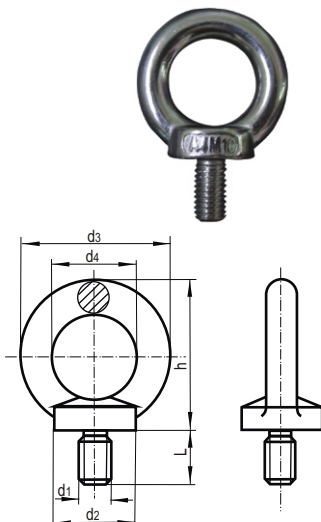


EYE NUT STAINLESS STEEL A4 - AISI 316



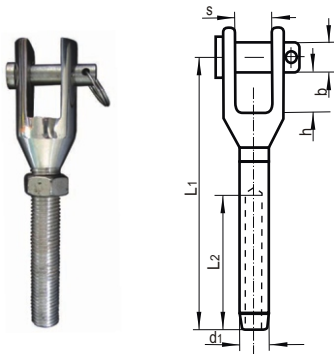
Size	d ₁	d ₂ mm	d ₃ mm	d ₄ mm	h mm	Part number
M6	M6	18	30	16	28	4 7953 4 06
M8	M8	20	35	20	36	4 7953 4 08
M10	M10	24	44	24	44	4 7953 4 10
M12	M12	30	54	30	53	4 7953 4 12
M16	M16	35	63	35	62	4 7953 4 16
M20	M20	40	72	40	71	4 7953 4 20

EYE BOLT STAINLESS STEEL A4 - AISI 316



Size	d ₁	d ₂ mm	d ₃ mm	d ₄ mm	L mm	h mm	Part number
M6	M6	13	26	16	12	40	4 7967 4 06
M8	M8	18	36	20	14	49	4 7967 4 08
M10	M10	20	40	25	20	62	4 7967 4 10
M12	M12	24	49	30	24	75	4 7967 4 12
M16	M16	35	63	35	26	90	4 7967 4 16
M20	M20	40	72	40	30	101	4 7967 4 20

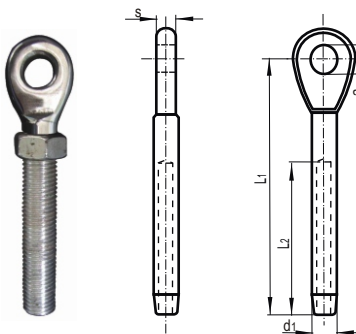
THREADED FORK STAINLESS STEEL A4 - AISI 316



Size	d ₁	L ₁ mm	L ₂ mm	h mm	b mm	s mm	Part number	Part number
M6	M6	65	38	9	5	6	4 7147 2 06	4 7147 2 06 L
M8	M8	75	45	11	6	8	4 7147 2 08	4 7147 2 08 L
M10	M10	87	48	11	8	10	4 7147 2 10	4 7147 2 10 L
M12	M12	105	60	14	8	12	4 7147 2 12	4 7147 2 12 L
M16	M16	150	85	20	12	16	4 7147 2 16	4 7147 2 16 L
M20	M20	210	105	23	8	18	4 7147 2 20	4 7147 2 20 L

- L - лява резба

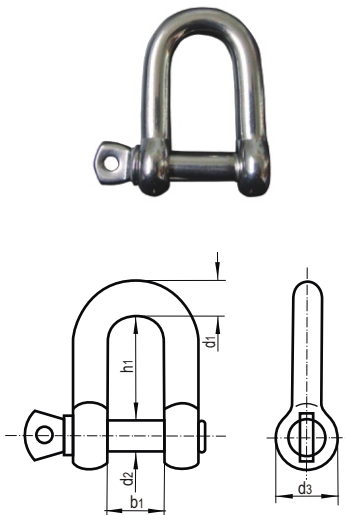
THREADED EYE STAINLESS STEEL A4 - AISI 316



Size	d ₁	L ₁ mm	L ₂ mm	a mm	s mm	Part number	Part number
M6	M6	62	44	7	4	4 7149 2 06	4 7149 2 06 L
M8	M8	75	52	9	5	4 7149 2 08	4 7149 2 08 L
M10	M10	95	62	11	6	4 7149 2 10	4 7149 2 10 L
M12	M12	110	75	13	8	4 7149 2 12	4 7149 2 12 L
M16	M16	135	95	15	10	4 7149 2 16	4 7149 2 16 L
M20	M20	210	105	20	15	4 7149 2 20	4 7149 2 20 L

- L - left thread

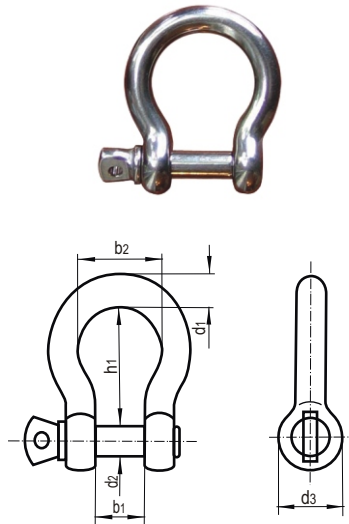
SHACKLE, STRAIGHT STAINLESS STEEL A4 - AISI 316



d ₁ mm	d ₂ mm	d ₃ mm	b ₁ mm	h ₁ mm	Part number
6	6	12	12	24	4 7943 4 06
8	8	16	16	32	4 7943 4 08
10	10	20	20	35	4 7943 4 10
12	12	23	25	47	4 7943 4 12
16	16	32	32	64	4 7943 4 16
19	19	38	38	76	4 7943 4 19

BOW SHACKLE

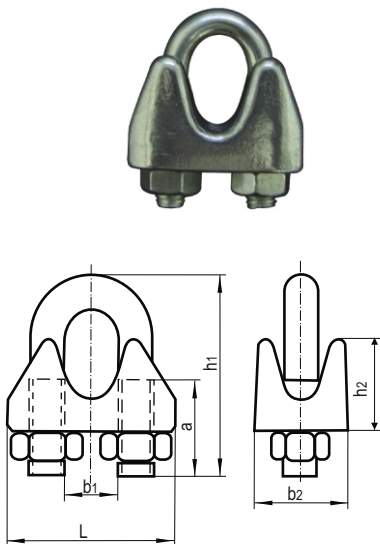
STAINLESS STEEL A4 - AISI 316



d1 mm	d2 mm	d3 mm	b1 mm	b2 mm	h1 mm	Part number
6	6	12	12	21	27	4 7943 4 06
8	8	16	16	28	37	4 7943 4 08
10	10	20	20	35	46	4 7943 4 10
12	12	23	25	42	55	4 7943 4 12
16	16	32	32	56	64	4 7943 4 16
19	19	38	38	66	76	4 7943 4 19

WIRE ROPE CLIP

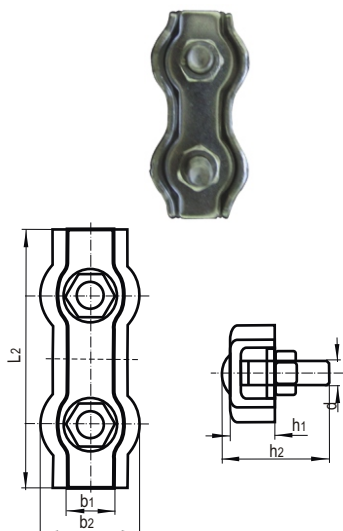
STAINLESS STEEL A4 - AISI 316



Rope Ø mm	a mm	b1 mm	b2 mm	h1 mm	h2 mm	L mm	Part number
2	10	4	10	18	10	16	4 7933 4 02
3	11	5	10	20	10	21	4 7933 4 03
4	13	6	10	24	10	23	4 7933 4 04
5	14	6	11	24	11	24	4 7933 4 05
6	15	8	12	29	11	26	4 7933 4 06
8	18	10	13	36	20	31	4 7933 4 08
10	23	12	20	45	23	38	4 7933 4 10
13	30	15	23	55	21	42	4 7933 4 13
16	33	18	26	63	26	50	4 7933 4 16
19	38	20	29	75	30	54	4 7933 4 19

DUPLEX WIRE ROPE CLIP

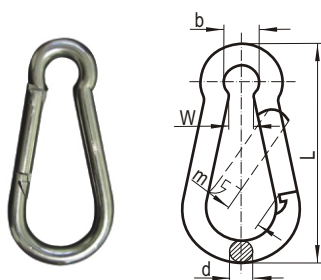
STAINLESS STEEL A4 - AISI 316



Rope Ø mm	b1 mm	b2 mm	d mm	h1 mm	h2 mm	L2 mm	Part number
2	4	11	M4	5	14	33	4 7979 2 02
3	6	14	M4	6	14	34	4 7979 2 03
4	8	18	M5	7	18	40	4 7979 2 04
5	10	20	M5	8	18	50	4 7979 2 05
6	12	24	M6	9	23	60	4 7979 2 06
8	17	30	M8	13	25	75	4 7979 2 08
10	21	35	M10	16	32	95	4 7979 2 10

CARABINE HOOK

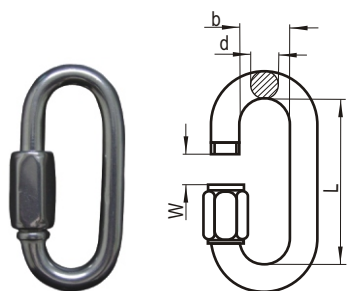
STAINLESS STEEL A4 - AISI 316



Size	b mm	d mm	L mm	m mm	w mm	Part number
50 x 5	8	5	50	6	6	4 7934 4 0550
60 x 6	9	6	60	7	7	4 7934 4 0660
70 x 7	10	7	70	9	8	4 7934 4 0770
80 x 8	12	8	80	10	9	4 7934 4 0880
100 x 10	15	10	100	14	12	4 7934 4 10100
140 x 12	22	12	140	21	17	4 7934 4 12140

QUICK COUPLING LINK

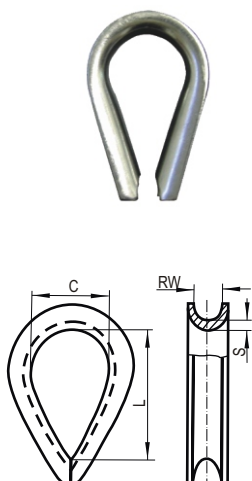
STAINLESS STEEL A4 - AISI 316



Size	b mm	d mm	L mm	w mm	Part number
4	10	4	33	5.5	5 96250 04
5	12	5	39	6.5	5 96250 05
6	13	6	45	7.5	5 96250 06
7	16	7	53	8.5	5 96250 07
8	16	8	59	10.0	5 96250 08
10	20	10	70	12.0	5 96250 10

THIMBLE

STAINLESS STEEL A4 - AISI 316



Size Ø mm	RW mm	c mm	L mm	s mm	Part number
2	2	7	12	1.0	4 7932 4 02
3	3	9	16	1.0	4 7932 4 03
4	4	11	20	1.0	4 7932 4 04
5	5	13	21	1.0	4 7932 4 05
6	6	15	29	1.2	4 7932 4 06
8	8	18	33	1.4	4 7932 4 08
10	10	24	44	1.5	4 7932 4 10
12	12	26	45	1.8	4 7932 4 12