

Any warranty, expressed or implied as to quality, performance, or fitness for use of wire rope products is always premised on the condition that the published strengths apply only to new, unused rope, that the mechanical equipment on which products are used is properly designed and maintained, that such products are properly stored, handled, used, and maintained and properly inspected on a regular basis during the period of use.

Seller shall not be liable under any circumstances for consequential or incidental damages or secondary charges including but not limited to personal injury, labor costs, a loss of profits resulting from the use of said products or from said products being incorporated in or becoming a component of any other product.



Hendrik Veder Group

Eemhavenweg 131 3089 KE Rotterdam
P.O. Box 54543 3008 KA Rotterdam The Netherlands
Phone: +31 10 299 23 44 Fax: +31 10 429 21 27
www.hendrikveder.com

Hendrik Veder is a registered trademark of Hendrik Veder Group B.V.

OFFSHORE

Steel wire ropes

High capacity lifting slings

Mooring and towing equipment

High tensile steel shackles

Heavy blocks and hooks

Crew baskets

Helicopter deck nets



OFFSHORE DEPARTMENT

History

Hendrik Veder were established as ship riggers and sail makers around 1800 and have since built up a vast experience in the maritime industry. In addition Hendrik Veder have specialized since the early 1960's in the production and supply of equipment and services for the offshore oil industry. Nowadays, Hendrik Veder is a registered trademark of Hendrik Veder Group B.V.

Facilities

Its location, right at the Rotterdam waterfront and 3 km away from the A 15 motorway, enables Hendrik Veder to serve shipping companies, the off- and onshore industry, stevedores, ship yards, ship chandlers, the petrochemical industry, the government and so on. Our premises with a total of 15,000 m² are in use for our activities and our stock of more than 2,500 tons of wire ropes, fittings and blocks guaranty a short delivery time.

Equipment

The Rotterdam workshops are fitted with a wide variety of equipment designed to meet the highest demands of the offshore industry comprising the following:

- Wire rope swaging presses ranging from 300 to 3,000 tons
- Closer for cable laid rope and sling fabrication up to 18" (heavier slings on request)
- Test beds from 800 to 16,000 kN
- Spooling machines suitable to take up to 250 tons unit weight
- Hydraulic wire rope tensioning machine up to 45 tons back tensioning.

Services

Expert rigging crews carry out their specialized work on our premises and are ready to travel anywhere in the world around the clock, 365 days a year. They have a vast experience in:

- Reeving and unreeving of cranes of any capacity
- Reeving under controlled tension of i.e. anchor lines
- Load testing of revolving cranes up to 8,000 tons
- Inspection and (re)certification of steel wire ropes, cable laid slings, cable laid grommets and loose gear.

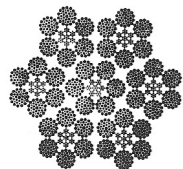


CRANE TESTING





GROMMET SLING



Cross section
cable laid slings
and grommets



RIGGING DEPARTMENT

Specialized teams for

Rigging and testing of heavy revolving cranes, for which we have test sets and test weights / barges available up to 8,000 tons. Rigging and testing operations worldwide are carried out, both on- and offshore.

Reeving and unreeving of crane lines and anchor lines up to 4"+ diameter. Hydraulic wire rope tensioning machines up to 45 tons and diesel driven spooling machines up to 250 tons unit weight are available.

Testing and certification of lifting devices by authorized testers and ship riggers. Experienced in annual and 5 yearly surveys. Test beds from 800 kN to 16,000 kN are available for this purpose.

Further activities

Within our rigging department we employ:

- Sets of slings and weights for testing
- Reconditioning and overhaul of hook blocks
- (Re)certification of slings, blocks, chains and shackles up to the largest sizes
- Destructive testing of steel wire ropes
- NDE examination

Hendrik Veder manufactures

- Wire rope slings
- Cable laid slings from 250 to 7,700 tons CRBL
- Cable laid grommet (endless) slings from 250 up to 6,800 tons CGBL

Hendrik Veder supplies

- Anchor, towing and pennant lines from 113 up to 1,370 tons CRBL
- Shackles and safety shackles from 25 up to 1,500 tons WLL

All works can be executed under supervision of all international classification bureaus as ABS, BV, DNV, GL, LRS, RINA, ClassNK, and more. Minimum breaking forces of steel wire rope are in accordance with ISO, NEN-EN, DIN and/or API; cable laid slings and grommets are as per Guidance IMCA M 179; EN 13414-1, EN 13414-3; ISO 7531



CABLE LAID SLINGS AND GROMMETS

Heavy loads require heavy slings:

Slings up to 18" can be supplied with Calculated Rope Breaking Loads (CRBL) up to 7,700 tons.

There are 3 distinct types of slings:

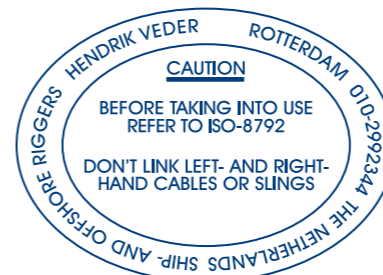
1. Slings manufactured from cable laid ropes up to 18" diameter, with hand spliced eyes at each end
2. Cable laid grommet slings (endless)
3. Slings manufactured from 6 or 8 strands regular lay rope, with ferrule-secured (mechanically spliced) soft eyes or thimbles each end

NOTE: All cable laid slings and/or grommets are manufactured in accordance with the current Guidance IMCA M 179 from the International Marine Contractors Association.

The Calculated Sling Breaking Load (CSBL) of a cable laid sling is equal to the sum of the minimum breaking loads of the individual outer and core rope unit ropes, multiplied by a spinning loss coefficient of 0.85 and a splice loss of 0.75 (according to IMCA M 179).

The calculated minimum breaking load of a cable laid grommet sling equals to 12 times the minimum breaking load of the unit rope, multiplied by a spinning loss coefficient of 0.85 (according to IMCA M 179).

All cable laid slings and cable laid grommets, supplied by Hendrik Veder, are furnished with a separate test certificate for each component rope, showing the actual breaking load and is provided with a Consolidation test certificate, showing the Calculated Minimum Breaking Loads of the cable laid sling or grommet, a certificate of dimensional conformity and a certificate of examination.



CABLE LAID SLINGS





CABLE LAID ROPES 250 - 7,700 TONS

nominal diameter	approximate weight	minimum calculated Rope breaking load (CRBL)			
		metric tons	short tons	metric tons	short tons
inch	mm	kg/mtr	lb/ft	1.000 kg	2.000 lbs
3 1/4	82	24	16	300	330
3 1/2	89	27	18	345	380
3 3/4	96	30	20	395	425
4	102	31	21	470	515
4 1/4	108	38	25	505	555
4 1/2	114	44	30	575	630
4 3/4	120	48	33	640	705
5	127	53	35	710	780
5 1/4	133	58	39	775	850
5 1/2	139	67	45	860	945
6	152	80	54	1030	1135
6 1/4	159	82	55	1140	1255
7	178	100	68	1425	1570
7 3/4	197	122	82	1780	1960
8 1/2	216	151	101	2125	2340
9 1/2	241	196	131	2540	2800
10 1/4	260	215	144	2785	3070
11	280	260	175	3235	3565
11 3/4	298	295	198	3630	4000
12 1/2	318	340	228	4140	4560
13 1/4	336	380	255	4485	4940
14	356	425	285	4940	5445
14 3/4	374	475	320	5495	6055
15 3/4	400	530	356	6065	6685
16 1/2	419	590	396	6670	7350
17 1/4	438	640	430	7185	7920
18	457	695	467	7700	8485

Higher capacities available upon request.
The above tables give an indication of the size and corresponding breaking loads of slings available. Also intermediate diameters or CRBL can be delivered.
For calculating the CSBL (Calculated Sling Breaking Load) the rope breaking load has to be multiplied by 0.75 (for handsplice losses).



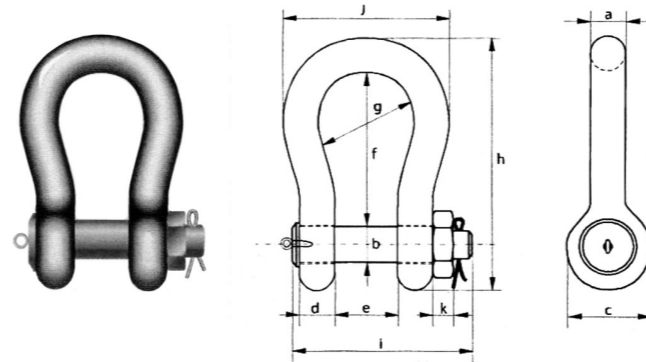
CABLE LAID GROMMET SLINGS (ENDLESS) 250 – 6,800 TONS

nominal diameter single part	component rope diameter	minimum breaking load on double part			
		metric tons	short tons	metric tons	short tons
inch	mm	inch	mm	1.000 kg	2.000 lbs
2 1/4	57	3/4	19	262	289
2 5/8	66	7/8	22	352	388
3	77	1	26	490	540
3 1/2	89	1 1/8	29	609	671
3 3/4	96	1 1/4	32	743	819
4	102	1 3/8	34	839	925
4 1/2	116	1 1/2	38	1050	1157
5	127	1 5/8	42	1275	1405
5 1/4	133	1 3/4	44	1407	1550
5 3/4	144	1 7/8	48	1672	1843
6	152	2	51	1968	2169
6 3/4	171	2 1/4	57	2350	2580
7 1/2	192	2 1/2	64	2800	3080
8	201	2 5/8	67	3050	3350
8 1/4	210	2 3/4	70	3350	3680
9	228	3	77	3900	4280
9 3/4	252	3 1/4	82	4570	5020
10 1/2	267	3 1/2	89	5300	6310
12	304	4	102	6800	7600



HEAVY DUTY SHACKLES

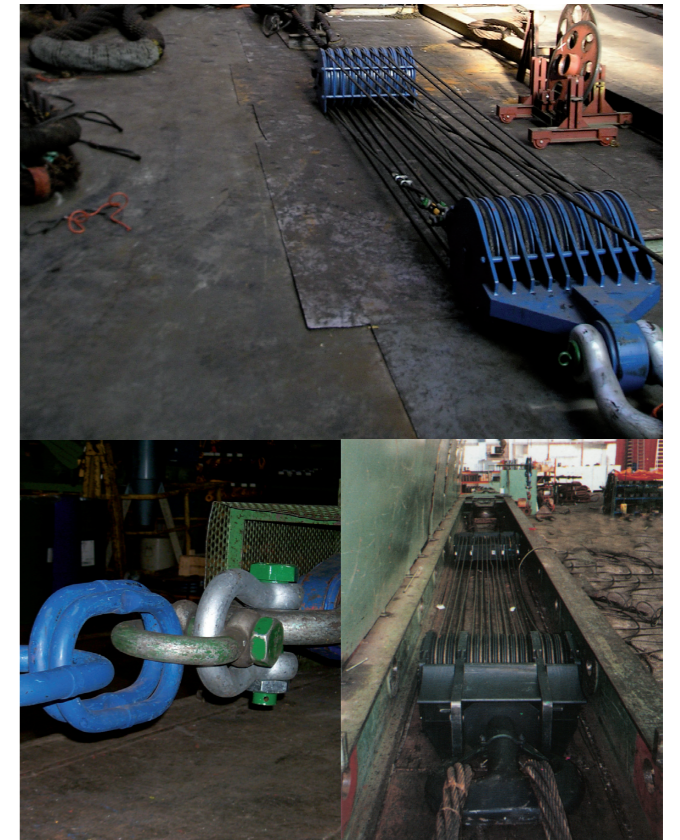
working load limit	diameter bow	diameter pin	width inside	length inside	weight each
tons	mm	mm	mm	mm	kg
120	95	95	147	400	110
150	105	108	169	410	160
200	120	130	179	513	235
250	130	140	205	554	285
300	140	150	205	618	340
400	170	175	231	668	560
500	180	185	256	718	685
600	200	205	282	718	880
700	210	215	308	718	990
800	210	220	308	718	1100
900	220	230	328	718	1280
1000	240	240	349	718	1480
1250	260	270	369	768	1990
1500	280	290	369	818	2400



TEST BEDS

Various test beds with a capacity up to 16,000 kN are employed at our premises for testing purposes.

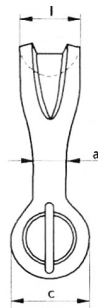
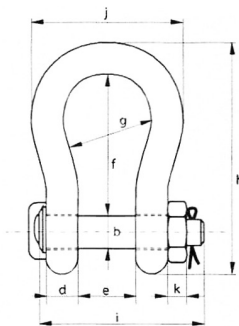
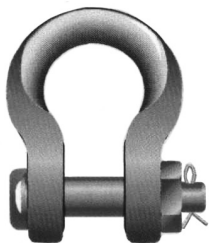
All materials can be inspected according to customer's requirements and (re)certificated by all international classification bureaus such as American Bureau of Shipping, Bureau Veritas, Det Norske Veritas, Germanischer Lloyd, Lloyd's Register, Nippon Kaiji Kyokai, Registro Italiano Navale, et cetera.





WIDE BODY / SLING SHACKLE

working load limit	diameter body	diameter pin	width inside	length inside	weight each
tons	a	b	e	f	kg
	mm	mm	mm	mm	
40	55	51	84	199	21
55	60	57	90	240	30
75	68	70	110	290	48
125	85	80	137	366	92
150	94	95	147	391	140
200	110	105	158	481	205
250	126	120	179	542	264
300	135	134	195	576	360
400	160	160	231	601	580
500	170	180	263	681	780
600	190	200	289	741	980
700	200	215	315	751	1360
800	218	230	342	851	1430
900	242	255	368	851	1650
1000	260	270	399	851	2120
1250	285	300	452	931	3700
1500	285	320	483	950	4000



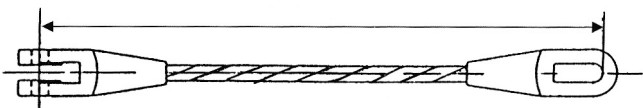


ANCHOR- TOWING & PENNANT LINES

nominal diameter		Approximate weight		minimum breaking force	
inch	mm	kg/mtr	lb/ft	metric tons 1.000 kg	short tons 2.000 lbs
1 ⁵ / ₈	42	7.32	4.92	125	138
1 ³ / ₄	44	8.03	5.40	137	151
1 ⁷ / ₈	48	9.56	6.43	163	180
2	51	10.80	7.26	184	203
2 ¹ / ₈	54	12.40	8.34	207	228
2 ¹ / ₄	57	13.50	9.08	230	254
2 ³ / ₈	61	15.40	10.40	249	274
2 ¹ / ₂	64	17.00	11.40	274	302
2 ⁵ / ₈	67	18.60	12.50	301	332
2 ³ / ₄	70	20.30	13.70	328	362
2 ⁷ / ₈	74	22.70	15.30	367	405
3	77	24.60	16.50	391	431
3 ¹ / ₈	80	26.60	17.90	422	465
3 ¹ / ₄	82	28.60	19.20	448	494
3 ³ / ₈	86	31.40	21.10	487	537
3 ¹ / ₂	89	33.60	22.60	522	575
3 ³ / ₄	96	38.20	25.70	590	650
4	102	44.00	29.60	668	736
4 ¹ / ₂	116	54.90	36.90	806	888
5	127	68.00	45.70	979	1080
5 ¹ / ₂	139	82.50	55.50	1170	1290
6	152	98.40	66.20	1370	1510

6/37 up to 6/91 classification drawn galvanized or bright steel wire rope, independent wire rope core, tensile strenght 1,960 N/mm².

EFFECTIVE WORKING LENGTH



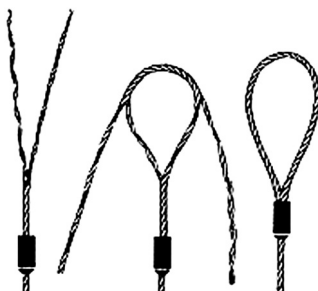


FLEMISH EYE & SWAGED SLINGS

nominal diameter		recommended eye size (inch)		minimum rope breaking force	
inch	mm	length	width	metric tons 1.000 kg	short tons 2.000 lbs
1 3/4	44	28	14	138	151
2	51	34	17	185	203
2 1/4	57	40	20	231	254
2 1/2	64	44	22	291	302
2 3/4	71	50	25	349	362
3	77	60	30	422	431
3 1/2	89	84	42	564	575
4	103	100	50	740	736

6/37 up to 6/55 classification drawn galvanized or bright steel wire rope, independent wire rope core, tensile strength 1,960 N/mm².

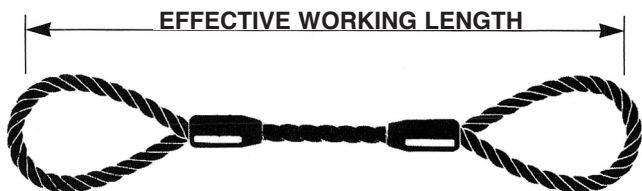
Typical fabrication of Veder-Lok[®] splice (Molly Hogan or Flemish Eye)



For calculating the minimum sling break load, the minimum rope breaking load has to be multiplied by a factor which allows for the efficiency of the termination.

EN 13414-1, ferrule secured: 0.9

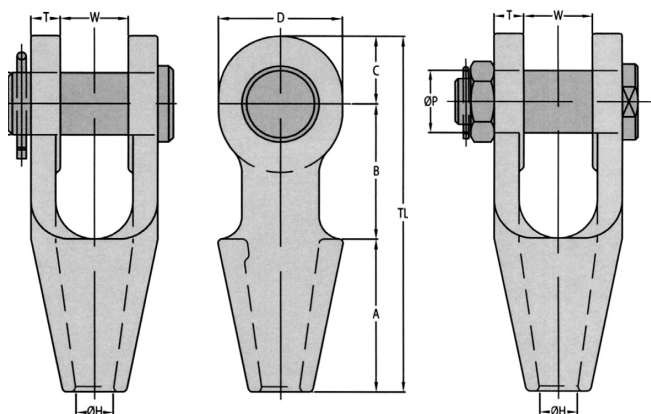
ISO 7531, ferrule secured: 0.8





OPEN SPELTER SOCKETS

Model No.	MBL (tons)	for wire ϕ (mm)	A	B	C
OSS 196	8	6 - 7	50	40	19
OSS 197	12	8 - 10	57	45	22
OSS 198	20	11 - 13	64	51	27
OSS 199	25	14 - 16	76	63	32
OSS 100	40	18 - 19	89	76	40
OSS 104	55	20 - 22	101	89	45
OSS 108	75	23 - 26	114	101	60
OSS 111	90	27 - 30	127	114	65
OSS 115	125	31 - 36	139	127	72
OSS 118	150	37 - 39	152	162	80
OSS 120	170	40 - 42	165	165	88
OSS 125	225	43 - 48	190	178	100
OSS 128	280	49 - 54	216	228	108
OSS 130	360	55 - 60	228	250	120
OSS 132	425	61 - 68	248	273	133
OSS 135	460	69 - 75	279	279	138
OSS 138	560	76 - 80	305	286	146
OSS 140	625	81 - 86	330	298	160
OSS 142	720	87 - 93	356	318	178
OSS 144	875	94 - 102	381	343	190
OSS 146	1200	108 - 115	450	480	215
OSS 150	1300	120 - 130	500	500	250



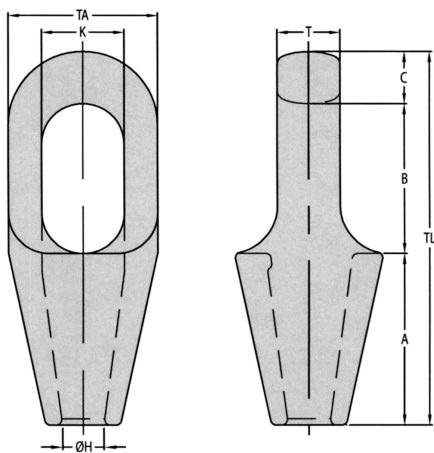
Dimensions (mm)						Weight (kg)
D	øH	øP	T	TL	W	
34	8.5	16	9	109	19	0.4
42	12	20.6	11	124	21	0.8
50	14	25	12	142	25	1
58	17.5	30	14	171	32	1.8
70	21	35	16	205	38	3.2
80	24	41	19	235	44	4.6
104	28	51	22	275	51	8
114	32	57	25	306	57	12
126	38	63	28	338	63	16
142	41	70	30	394	76	23
156	44	76	33	418	76	27
176	51	89	39	468	89	41
194	57	95	46	552	101	58
210	63	108	53	598	113	85
236	73	121	60	654	127	118
240	79	127	73	696	133	155
252	86	133	76	737	146	173
290	92	140	79	788	159	230
320	99	152	83	852	171	265
350	108	178	89	914	191	370
400	125	195	100	1145	205	525
450	143	220	110	1250	225	735





CLOSED SPELTER SOCKETS

Model No.	MBL (tons)	for wire ϕ (mm)	A	B	C
CSS 296	8	6 - 7	50	40	11
CSS 297	12	8 - 10	57	48	14
CSS 298	20	11 - 13	63.5	59	17.5
CSS 299	25	14 - 16	76	65	21
CSS 200	40	18 - 19	89	78	27
CSS 201	55	20 - 22	101	90	33
CSS 204	75	23 - 26	114	103	36
CSS 207	90	27 - 30	127	116	39
CSS 212	125	31 - 36	139	130	43
CSS 215	150	37 - 39	152	155	51
CSS 217	170	40 - 42	165	171	54
CSS 219	225	43 - 48	190	198	55
CSS 222	280	49 - 54	216	224	62
CSS 224	360	55 - 60	228	247	73
CSS 226	425	61 - 68	248	270	79
CSS 227	460	69 - 75	279	286	79
CSS 228	560	76 - 80	305	298	83
CSS 229	625	81 - 86	330	311	102
CSS 230	720	87 - 93	356	330	102
CSS 231	875	94 - 102	381	356	108
CSS 233	1200	108 - 115	450	425	125
CSS 240	1300	120 - 130	500	525	125





Dimensions (mm)					Weight (kg)
øH	K	T	TA	TL	
8.5	22	13	37	101	0.3
12	25	17.5	43	119	0.5
14	30	22.5	51	140	0.7
17.5	36	26	67	162	1.3
21	42	32	76	194	2.1
24	47	38	92	224	3.6
28	57	44	104	253	5.3
32	63	51	114	282	7
38	70	57	127	312	9.7
41	79	63	136	358	13
44	83	70	146	390	17
51	93	76	171	443	26
57	100	82	193	502	37.5
63	112	92	216	548	50
73	140	102	241	597	65
79	159	124	273	644	94
86	171	133	292	686	110
92	184	146	311	743	145
99	197	159	330	788	182
108	216	178	362	845	210
125	235	190	405	1000	330
143	260	200	450	1150	500

Our sockets are widely used in dredging and industry, both on- and offshore, for anchorlines, guylines, towing lines, etc.

Our product line furthermore includes;

- Heavy duty lifting blocks
- Turnbuckles
- Fairleaders
- Wire rope sheaves

Custom built and standard products are in-house developed and manufactured for special applications.

Our major customers are active in:

- Offshore construction and installation
- Offshore drilling
- Heavy ocean transport
- Salvage and wreck removal
- Ocean and harbour towage
- Dredging and land reclaim
- Storage and production of oil in/from floating facilities
- Onshore construction/installation for the petrochemical industry.



CREWBASKET WITH STABILIZER

Capacity: 4 or 6 Persons

Test certificate can be supplied by Lloyd's, DNV, RINA, ABS and accordance NMD Regulations.

Hendrik Veder are also a.o. suppliers of:

- Helicopter deck nets
- Pilot ladders
- Nylon and polypropylene ropes and hawsers.

