



GLOBAL ROPE FITTINGS

AQUALLINE PRODUCTS



THE QUALITY NAME IN WIRE ROPE FITTINGS

Introduction

Global Rope Fittings is a producer and stockholder of (custom-made) wire rope fittings.

From our 2000 m² warehouse in Germany we supply customers worldwide.

Based on our experiences in the field, which date back more than 25 years, we bring our best products to the market: the **AQUALLINE range**.

We believe in long term relationships with our customers and assist in finding constructive solutions to product challenges, either from our standard **AQUALLINE range** or by designing new, **custom-made end fittings**.



Global Rope Fittings the Best Choice for Sockets

Quality

All sockets are made from high-quality cast steel and are suitable for low temperature environments. The material used has an impact value of $> 50 \text{ J}$ at -20°C Charpy-V. On request, we can also provide $> 27 \text{ J}$ at -46°C .

Proof loading of the AQUALLINE Sockets is standard at 40% of the Minimum Breaking Load.

Our Wedge Sockets comply with the EN 13411-6 norm. Our Open Japanese Sockets meet the JIS F 3432-1995 norm and exceed the required MBL. Our Solid Thimbles comply with the prEN 13411-9 norm and our Clips with the EN 13411-5.

Design

The AQUALLINE Sockets are designed with efficiency, longer life-span, safety and usability in mind -
our re-design-philosophy!

- The Anchor Pendant Serie has an increased wall thickness to enable a higher MBL.
- The Spelter Serie has a cylindrical base end for better clamping and vertical alignment of the rope.
- The Wedge Sockets allow for quicker assembly due to the extra long jaws.
- The Open Japanese Sockets are designed with a higher-grade material and therefore offer a higher MBL.

Finish

All AQUALLINE Sockets are available in aqua-blue primer (RAL 5018) or can be supplied in a hot dip galvanized finish.



Re-Designed to Perfection

The AQUALLINE Sockets have some progressive design features that offer interesting benefits in comparison to the standard socket design. With these design features we focus on the socket, but also pay close attention to the handling and life-span of the wire rope.

All our products are designed with efficiency, longer life-span, safety and usability in mind - **our re-design-philosophy!**

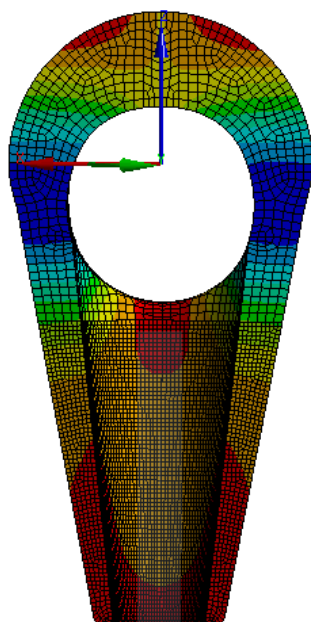
Anchor Pendant Series

The weakest part of the socket is the cone and not the bow as is often assumed. For that reason, we have put 15-20% more material in the bottom of the cone. Due to the increased wall thickness of the weakest part of the socket, a much higher MBL can be achieved.

M: Socket met Hars E=6085 MPa no initial contact

Directional Deformation 2
Type: Directional Deformation(X Axis)
Unit: mm
Coordinate System 5
Time: 2
29-11-2013 9:17

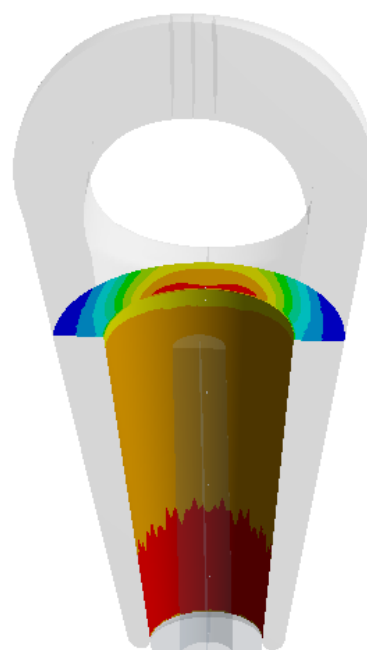
0.10684 Max
0.05641
0.0059835
-0.044443
-0.09487
-0.1453
-0.19572
-0.24615
-0.29658
-0.347 Min



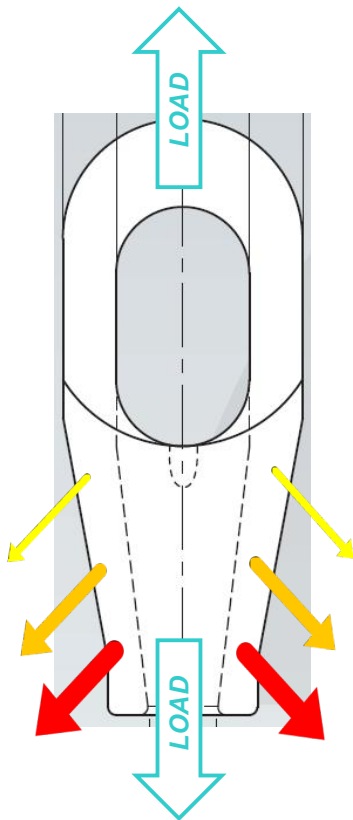
M: Socket met Hars E=6085 MPa no initial contact

Pressure
Type: Pressure
Unit: MPa
Time: 2
28-11-2013 13:58

49.866 Max
29.439
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-31.839
-52.265
-72.691
-93.118
-113.54
-133.97 Min



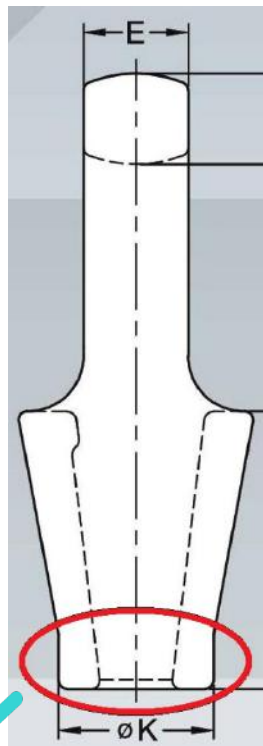
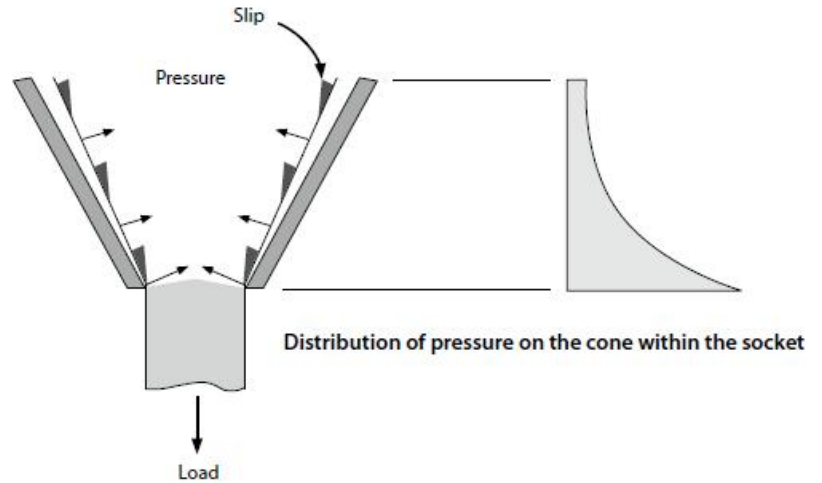
THE CONE IS THE WEAKEST PART OF THE SOCKET



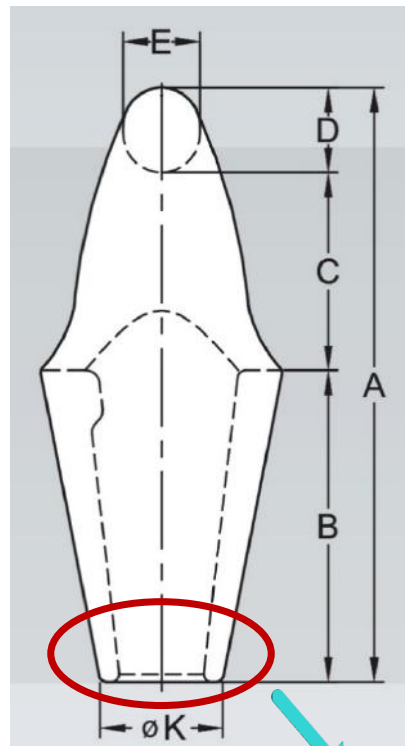
PRESSURE BUILD-UP

RESIN SOCKETING OF STEEL WIRE ROPE

Courtesy of J.M. Dodd B.Sc – Millfield Enterprises



CYLINDRICAL BOTTOM



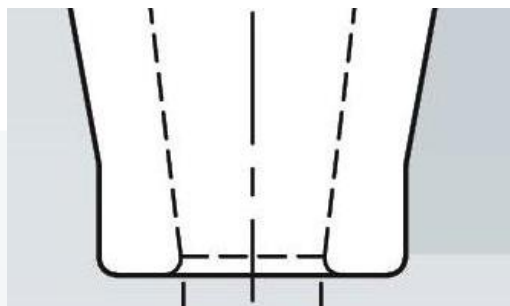
± 15% MORE MATERIAL

Spelter Series

We have designed a cylindrical bottom for our Spelter Sockets. The practical advantage is that the rope can be better aligned and clamped during socketing. Moreover, the inlets can be more easily re-worked without losing much capacity. A non-rotating device prevents rotating and backing out of the cone during transport and assembly. As with the Anchor Pendant Series, all Spelter Sockets have a reinforced bottom part that lead to a higher MBL.



***DUE TO THE HIGHER
TOLERANCE ON
HP-ROPE WE HAVE
INCREASED THE WIRE
INLET UP TO 5%***



PRACTICAL DURING SOCKETING

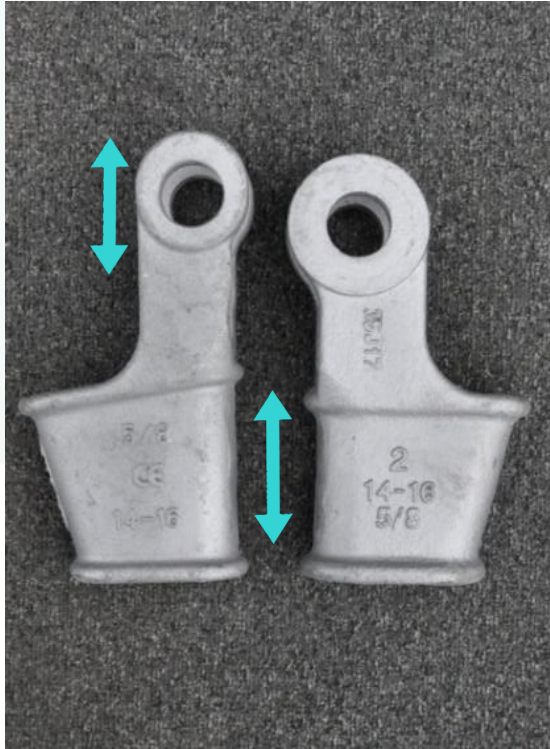
Japanese Series

For our Open Japanese Sockets, we have used a higher grade material (also suitable for low temperatures, -46 °C) and we have remodelled the original Open Spelter JIS Socket. This results in a 20-30% higher MBL.

Wedge Series

The length of the jaws has been extended with 15%, which leaves more space for assembling the socket to the dead-end connection. The body length of our Wedge Sockets is also increased, and the wedge is enlarged.

The inner radius of the wedge and the body stays the same. With all these adaptations we reach the maximum rope support and maintain equal pressure in the rope.



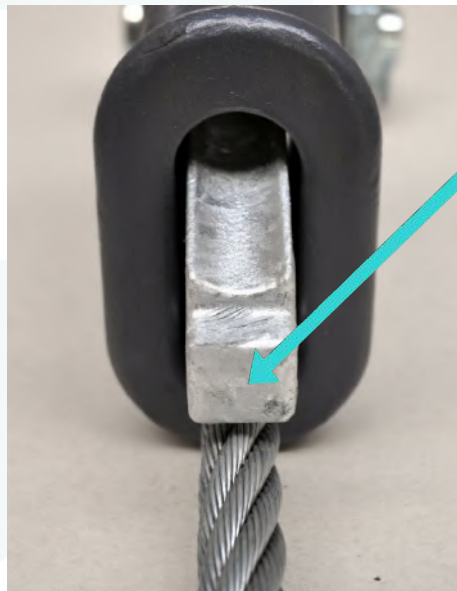
LONGER JAWS AND BODY

BIGGER OUTER RADIUS WEDGE

(the bottom wedge is from GRF)



SQUARE NOTCH



The square notch in the bottom section of the wedge avoids damage of the rope and wedge during disassembling. This increases the endurance of the wire rope and wedge.

As a result of all these improvements, we achieve an 80% efficiency rating.

Certificates and Documents

Global Rope Fittings is ISO 9001:2015 certified by Det Norske Veritas (DNV GL).



All our AQUALLINE Sockets come with the following certificates:

■ Declaration of Compliance according to EN 10204-2.1, containing

- Certificate Number
- Wire Rope Diameter
- Minimum Breaking Load (MBL)
- Quantity
- Order Number

■ Material Certificate according to EN 10204-3.1, containing

- Heat No. / Marking
- Material Type
- Mechanical Properties
- Chemical Analysis

On request, we can also offer:

- Material Certificate according to EN 10204-3.2
- EC Declaration according to Machine Directive 98/37/EC
- Manufacturer's Test Certificate according to ILO Convention No. 152
- NDE Inspection Reports
- Witness or survey certificate by official classification body



Identification / Marking

Each socket is clearly marked with a heat number, rope size, type number and company logo.



heat number



rope size



type number and logo

Warnings and Instructions for Use

General

The AQUALLINE products are the strongest on today's market and the best choice for a wire rope termination, but the pouring, use and inspection are the sole responsibility of the user.

Always carefully inspect the product before use.

- Never use a product showing nicks, gouges or cracks, or any signs of wear to the bow, pin holes, pins or bolts.
- Make sure all markings are legible.
- Do not use products after being overloaded, side-loaded or shock-loaded.
- Do not modify any part. Never do any repairs, reshaping or welding on an AQUALLINE product, but contact your supplier.
- Incorrect use may create an unsafe situation, which could result in damage to equipment and/or serious injury or even death of personnel.

Spelter Sockets

Spelter socket terminations have an efficiency of 100%, based on the strength of the wire rope, but this is limited by the minimum breaking load (MBL) of the socket. Never use a wire rope with a diameter that deviates from that stated in the product tables.

- When using white metal, never expose a socket to a temperature of more than 300 °C (570 °F).
- When using synthetic resin, read the instructions for use and the warnings provided by the manufacturer.
 - Sockets poured with synthetic resin must not be subjected to temperatures exceeding 115 °C (240 °F).
 - Make sure the broomed wires are uniformly spaced in the basket, with the wire ends at the top of the basket. The axes of the wire rope and the socket must be aligned. Seal the base of the socket prior to pouring to prevent resin leakage.
 - Poured sockets should not be moved for at least 15 minutes after the resin in the socket has gelled.
 - If possible, we recommend the assembly to be proof-tested at 2/5 of the working load limit at least 1 hour after the resin in the socket has gelled.

Wedge Sockets

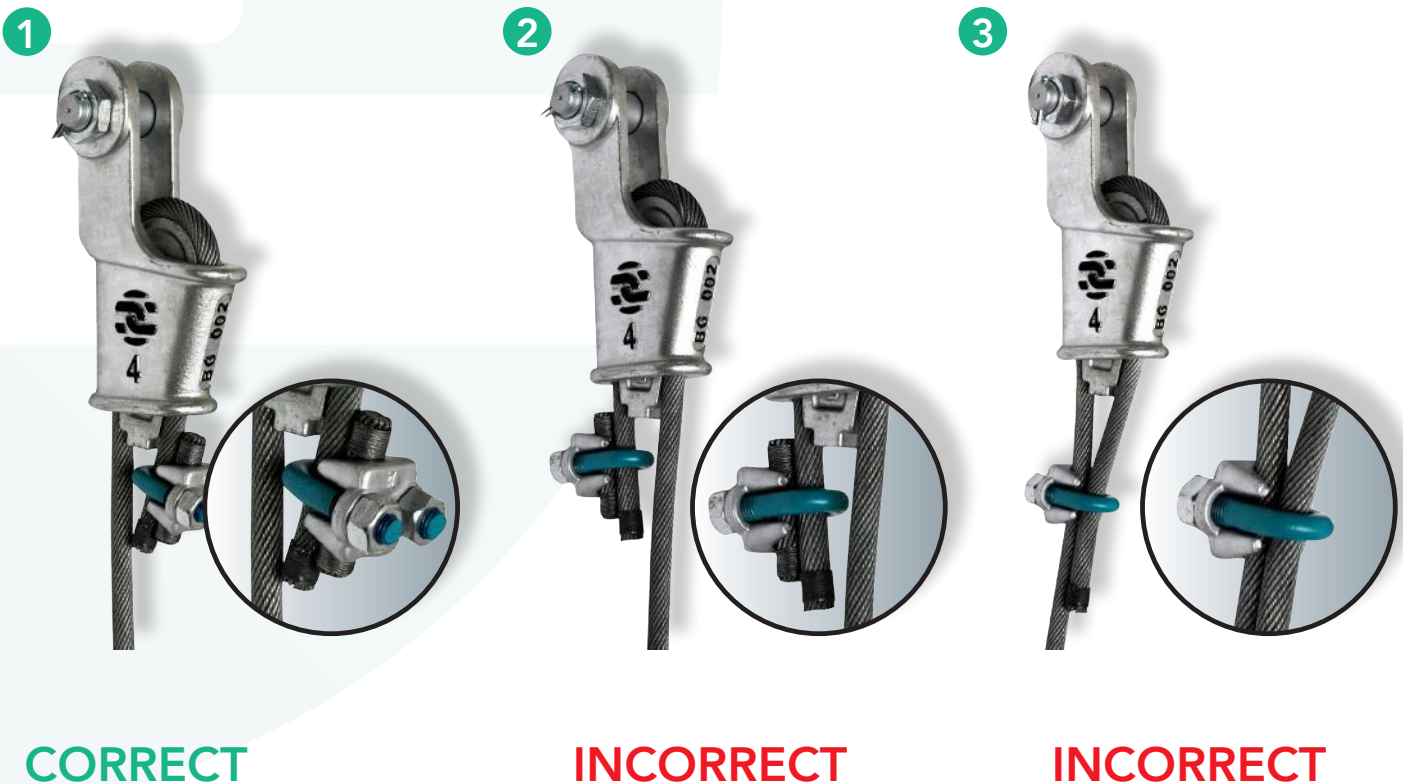
Wedge sockets have an efficiency of 80% based on the MBL of the wire rope.

Do not interchange AQUALLINE wedge sockets and wedges with non-AQUALLINE sockets and wedges.

Select the wedge socket for the correct wire rope size. Do not mix wedges with different models or sizes.

Instructions for use of the wedge sockets:

- Always mount the loaded wire rope in the centre line of the pin (see pictures below).
- Secure the dead end with a wire rope clip. Do not attach it to the loaded wire rope.
- The length of the dead end should have a minimum of 6 wire rope diameters, but also a minimum of 150 mm.
- The socket must be fixed to prevent rotation.
- After the first load, check that the wire rope and wedge are fully seated in the socket, as the load may slip if the wedge of the socket is not properly installed.



Solid Wire Rope Thimbles

Our solid Wire Rope Thimbles have an efficiency rate of 90%.

When using a thimble, the wire rope should fit properly into the groove of the thimble. As with other wire rope terminations, thimbles should be regularly inspected for irregularities, such as cracks or sharp edges.

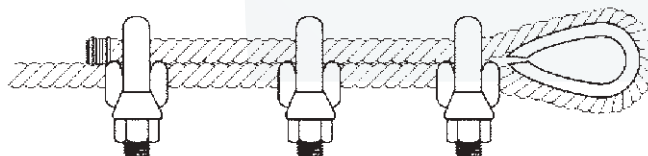
Wire Rope Clips

Always select a wire rope clip with the correct dimension and make sure to install the minimum number of clips required. For more detailed information on the required number of clips, please refer to the EN 13411-5 norm.

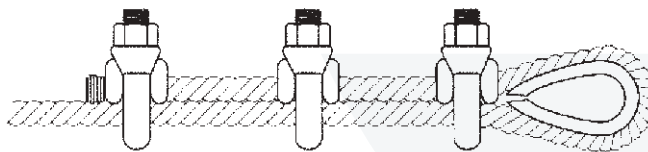
The clips must be installed correctly and must be tightened to the correct torque by using a torque wrench:

- The bridge of the wire rope clip should always be placed on the load bearing part of the rope.
- The U-bolt must be placed on the rope tail ('dead-end').
- Make sure to turn back sufficient wire rope length to ensure that the required number of wire rope clips can be installed.

CORRECT



INCORRECT



How to proceed:

1. Place the first clip one bridge width from the turned back rope tail. Tighten the nuts to the specified torque. Tighten them evenly. See Figure 1.
2. When a second clip is needed, place the second clip immediately against the thimble or loop. Turn the nuts of the second clip firmly, but do not tighten them yet. See Figure 2.
3. The following clips should be placed equally between the first two clips. The additional clips should be separated by at least $1 \frac{1}{2}$ times the clip-width with a maximum of 3 times the clip-width. Tighten the nuts on each U-bolt evenly to the recommended torque, alternating from one to the other. See Figure 3.

Figure 1.

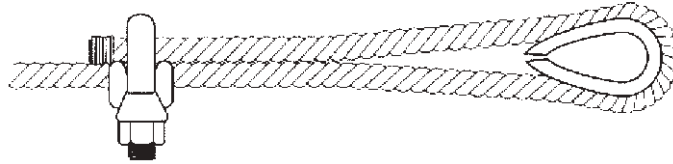


Figure 2.

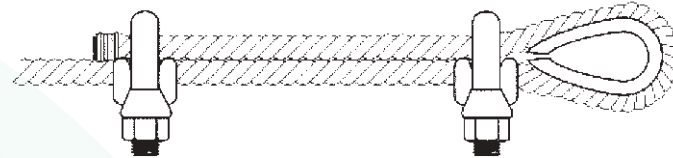
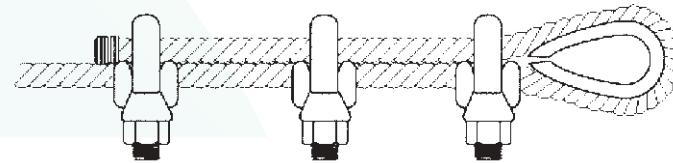


Figure 3.



To test the assembly, apply a load equal to or greater than loads expected in service. Check the torque value and retighten the nuts to the recommended torque using a torque wrench. Make sure to periodically check and re-tighten the nuts.



Anchor Pendant Sockets

Available for wire rope sizes from $\varnothing$ 31 mm to $\varnothing$ 128 mm (1 1/4" to 5") with an efficiency rating of 100%.

The perfect socket for anchor lines.

Open Spelter Sockets

Available for wire rope sizes from $\varnothing$ 6 mm to $\varnothing$ 128 mm (1/4" to 5") with an efficiency rating of 100%.

Standard version with pin and cotter pin. Also available with bolt, nut and cotter pin.



Closed Spelter Sockets

Available for wire rope sizes from $\varnothing$ 6 mm to $\varnothing$ 128 mm (1/4" to 5") with an efficiency rating of 100%.

Open Wedge Sockets

Available in sizes from $\varnothing$ 7 mm to $\varnothing$ 86 mm (5/16" to 3 3/8") with an efficiency rating of 80%. Standard version with pin and cotter pin. Also available with bolt, nut and cotter pin.



Closed Wedge Sockets

Available in sizes from $\varnothing$ 17 mm to $\varnothing$ 86 mm (3/4" to 3 3/8") with an efficiency rating of 80%.



Open Japanese Sockets

Available in sizes from $\varnothing$ 15 mm to $\varnothing$ 43 mm ($5/8"$ to $1\ 5/8"$) with an efficiency rating of 100%. Standard with bolt, nut and cotter pin.

Open Strand Spelter Sockets

Available in sizes from $\varnothing$ 20 mm to $\varnothing$ 95 mm structural strand ($3/4"$ to $3\ 3/4"$) with an efficiency rating of 100%. Standard version with pin and cotter pin. Also available with bolt, nut and cotter pin.



Adjustable Open Spelter Sockets

Available for wire rope sizes from $\varnothing$ 18 mm to $\varnothing$ 48 mm ($3/4"$ to $1\ 7/8"$) with an efficiency rating of 100%. Standard version with pin and cotter pin. Also available with bolt, nut and cotter pin.

Solid Wire Rope Thimbles

Available for wire rope sizes from $\varnothing$ 7 mm to $\varnothing$ 80 mm ($5/16"$ to $3"$) with an efficiency rating of 90%.

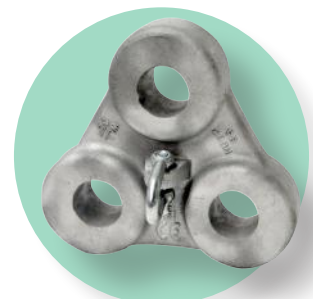


Wire Rope Clips

Available for wire rope sizes from $\varnothing$ 4 mm to $\varnothing$ 89 mm ($1/8"$ to $3\ 1/2"$).

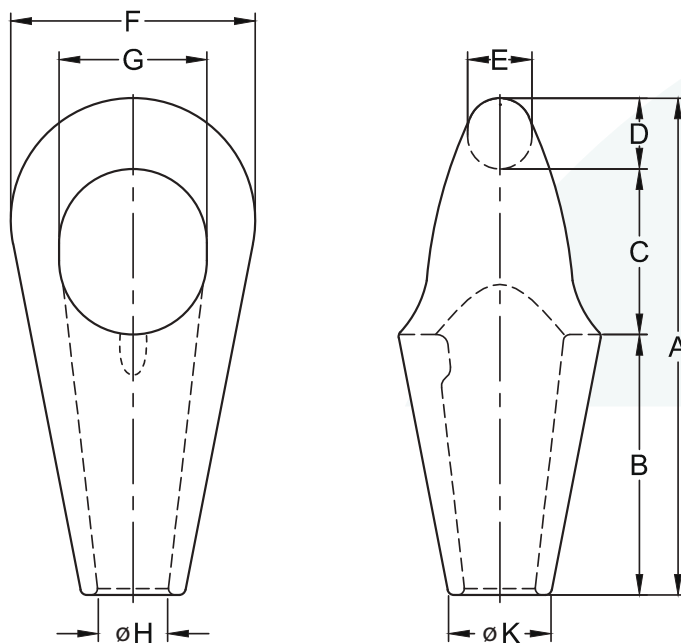
Triangle Plates

Available from size HDTP 9.5 to HDTP 500. From HDTP 25 and above, all triangle plates have a lifting eye and shackle.





Anchor Pendant Sockets



Available for wire rope sizes from $\varnothing$ 31 mm to $\varnothing$ 128 mm
(1 1/4" to 5") with an efficiency rating of 100%.

The perfect socket for anchor lines.

AQUALLINE ANCHOR PENDANT SOCKET. MM DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø mm	Approx. Resin Volume (cc)	Dimensions (mm)									Weight (kg)
				A	B	C	D	E	F	G	ØH	ØK	
APS 512	130	31 - 36	350	270	141	88	40	36	140	82	41	60	7
APS 517	160	37 - 42	500	309	162	103	44	40	152	92	46	67	11
APS 519	200	43 - 48	700	369	193	123	53	48	176	110	53	74	16
APS 522	250	49 - 54	1250	408	210	140	58	52	200	125	58.5	83	22
APS 524	320	55 - 60	1425	452	230	157	65	58	226	140	68	96	31
APS 526	400	61 - 68	1850	499	250	174	75	66	250	156	76	107	42
APS 527	500	69 - 75	2300	551	280	191	80	70	275	171	80	115	54
APS 528	600	76 - 80	3400	591	309	196	86	76	290	180	89	125	70
APS 529	700	81 - 86	4100	643	332	211	100	90	304	188	94	133	85
APS 530	800	87 - 93	5200	685	360	220	105	95	332	210	99	142	118
APS 531	900	94 - 102	7700	722	375	235	112	101	366	220	110	157	142
APS 533	1000	108 - 115	10500	818	420	270	126	112	405	240	128	180	180
APS 540	1200	120 - 128	14000	920	490	290	140	126	450	276	140	200	320

AQUALLINE ANCHOR PENDANT SOCKET. INCH DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø inch	Approx. Resin Volume (cc)	Dimensions (inch)									Weight (lbs)
				A	B	C	D	E	F	G	ØH	ØK	
APS 512	130	1 1/4 - 1 3/8	350	10.60	5.60	3.50	1.60	1.40	5.50	3.20	1.60	2.40	15
APS 517	160	1 1/2 - 1 5/8	500	12.16	6.38	4.00	1.73	1.57	6.00	3.62	1.80	2.64	24
APS 519	200	1 3/4 - 1 7/8	700	14.50	7.60	4.84	2.10	1.90	6.93	4.33	2.10	2.91	36
APS 522	250	2 - 2 1/8	1250	16.00	8.27	5.50	2.28	2.20	7.87	4.92	2.30	3.27	48
APS 524	320	2 1/4 - 2 3/8	1425	17.80	9.06	6.18	2.56	2.28	8.90	5.50	2.70	3.78	68
APS 526	400	2 1/2 - 2 5/8	1850	19.60	9.84	6.85	2.95	2.60	9.84	6.14	3.00	4.20	92
APS 527	500	2 3/4 - 2 7/8	2300	21.70	11.00	7.50	3.15	2.76	10.80	6.73	3.15	4.50	119
APS 528	600	3 - 3 1/8	3400	23.30	12.16	7.70	3.38	3.00	11.40	7.10	3.50	4.90	155
APS 529	700	3 1/4 - 3 3/8	4100	25.30	13.10	8.30	3.94	3.54	12.00	7.40	3.70	5.20	187
APS 530	800	3 1/2 - 3 5/8	5200	27.00	14.20	8.70	4.10	3.74	13.10	8.25	3.90	5.60	260
APS 531	900	3 3/4 - 4	7700	28.40	14.80	9.25	4.40	4.00	14.40	8.70	4.33	6.20	310
APS 533	1000	4 1/4 - 4 1/2	10500	32.20	16.50	10.60	5.00	4.40	16.00	9.50	5.00	7.10	400
APS 540	1200	4 3/4 - 5	14000	36.20	19.30	11.40	5.50	5.00	17.70	10.90	5.50	7.90	710

MBL = Minimum Breaking Load

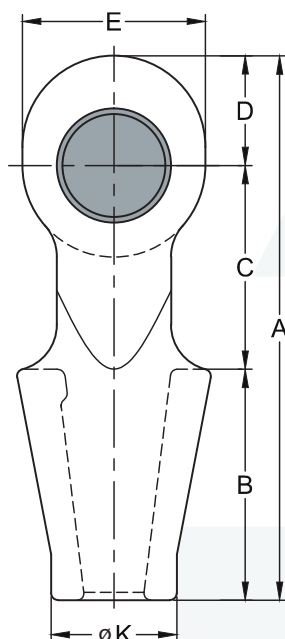
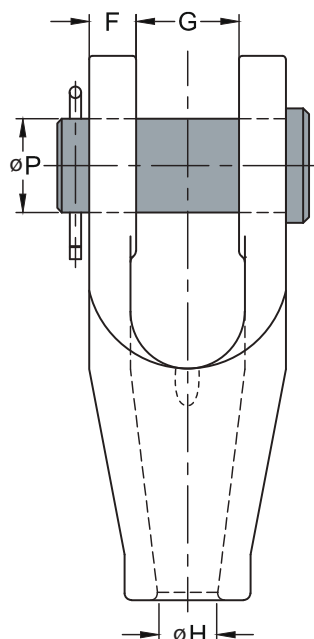
All sockets are supplied in a hot dipped galvanized finish. APS 522 - APS 540 are also available in aqua-blue primer (RAL 5018).

For more information read our 'Warnings and instructions for use'.

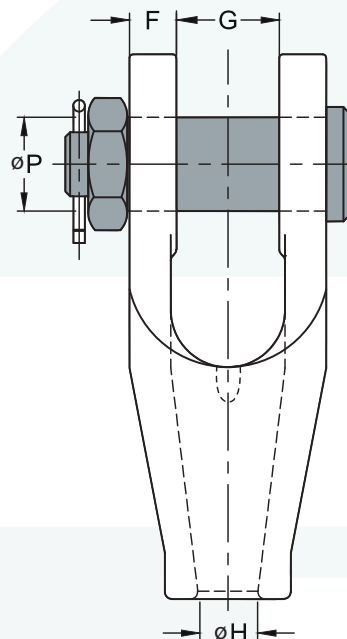


Open Spelter Sockets

with pin



with bolt



Available for wire rope sizes from $\varnothing$ 6 mm to $\varnothing$ 128 mm
($\frac{1}{4}$ " to 5") with an efficiency rating of 100%.

Standard version with pin and cotter pin. Also available
with bolt, nut and cotter pin.



AQUALINE OPEN SPELTER SOCKET. MM DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø mm	Structural Strand Ø mm	Approx. Resin Volume (cc)	Dimensions (mm)										Weight (kg)
					A	B	C	D	E	F	G	ØH	ØK	ØP	
OSS 196	8	6 - 7	-	10	105	46	40	19	34	9	18	10	20	17.5	0.4
OSS 197	12	8 - 10	-	20	122	54	45	23	40	11.2	20.6	13.5	26	20.6	0.8
OSS 198	20	11 - 13	-	35	142	64	51	27	48	12.7	25.6	15	30	25.4	1.1
OSS 199	25	14 - 16	12 - 13	50	171	76	63	32	56	14.5	32	18.5	38.5	30	1.9
OSS 100	40	18 - 19	14 - 16	80	205	89	76	40	68	16.5	38	22.5	46	35	3.2
OSS 104	55	20 - 22	18 - 19	125	238	101	89	48	80	20.5	45	26.8	55	41	5.3
OSS 108	80	23 - 26	20 - 22	160	273	114	101	58	98	22.5	51	29.5	62	51	8.4
OSS 111	100	27 - 30	24 - 26	210	306	127	114	65	110	25	57	34	70	57	11.3
OSS 115	130	31 - 36	27 - 28	350	338	139	127	72	124	28	63	40	83	63	16
OSS 118	160	37 - 39	30 - 32	425	394	152	162	80	140	30	76	44.5	90	70	23
OSS 120	200	40 - 42	33 - 35	500	415	165	165	85	148	33.5	76	48	97	76	29
OSS 125	250	43 - 48	36 - 40	700	467	191	178	98	170	39	89	53	112	89	43
OSS 128	300	49 - 54	42 - 45	1250	552	216	228	108	186	46	101	58.5	125	95	64
OSS 130	375	55 - 60	46 - 48	1425	603	229	254	120	210	53	113	68.5	135	108	85
OSS 132	450	61 - 68	50 - 54	1850	654	248	273	133	230	60	127	77.5	150	121	119
OSS 135	500	69 - 75	56 - 62	2300	696	279	279	138	240	73	133	83	160	127	158
OSS 138	600	76 - 80	64 - 67	3400	736	305	286	145	250	76	146	89	170	133	186
OSS 140	650	81 - 86	70 - 73	4100	790	330	300	160	275	79	159	95	180	140	227
OSS 142	750	87 - 93	76 - 80	5200	849	356	318	175	300	82	172	99	200	152	280
OSS 144	900	94 - 102	83 - 92	7700	922	381	343	198	336	89	191	110	215	178	375
OSS 146	1200	108 - 115	96 - 108	10500	1110	440	450	220	370	100	205	128	250	195	525
OSS 150	1400	120 - 128	112 - 121	14000	1185	490	440	255	430	113	225	143	270	220	680

AQUALINE OPEN SPELTER SOCKET. INCH DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø inch	Structural Strand Ø inch	Approx. Resin Volume (cc)	Dimensions (inch)										Weight (lbs)
					A	B	C	D	E	F	G	ØH	ØK	ØP	
OSS 196	8	1/4	-	10	4.13	1.81	1.60	0.75	1.34	0.35	0.71	0.39	0.78	0.69	0.9
OSS 197	12	5/16 - 3/8	-	20	4.80	2.16	1.80	0.90	1.57	0.44	0.81	0.53	1.02	0.81	1.8
OSS 198	20	7/16 - 1/2	-	35	5.60	2.52	2.00	1.10	1.89	0.50	1.00	0.60	1.18	1.00	2.4
OSS 199	25	9/16 - 5/8	1/2	50	6.70	3.00	2.50	1.30	2.20	0.57	1.26	0.73	1.52	1.19	4.2
OSS 100	40	3/4	9/16 - 5/8	80	8.10	3.50	3.00	1.60	2.76	0.65	1.50	0.89	1.81	1.38	7
OSS 104	55	7/8	11/16 - 3/4	125	9.40	4.00	3.50	1.90	3.15	0.81	1.75	1.05	2.17	1.63	11.7
OSS 108	80	1	13/16 - 7/8	160	10.70	4.50	4.00	2.30	4.00	0.89	2.00	1.16	2.44	2.00	18
OSS 111	100	1 1/8	15/16 - 1	210	12.00	5.00	4.50	2.60	4.33	1.00	2.25	1.39	2.76	2.25	25
OSS 115	130	1 1/4 - 1 3/8	1 1/16 - 1 1/8	350	13.30	5.50	5.00	2.80	4.80	1.10	2.50	1.57	3.27	2.50	35
OSS 118	160	1 1/2	1 3/16 - 1 1/4	425	15.50	6.00	6.40	3.15	5.52	1.18	3.00	1.75	3.50	2.75	51
OSS 120	200	1 5/8	1 5/16 - 1 3/8	500	16.30	6.50	6.50	3.35	5.90	1.30	3.00	1.90	3.80	3.00	64
OSS 125	250	1 3/4 - 1 7/8	1 7/16 - 1 5/8	700	18.40	7.50	7.00	3.86	6.70	1.53	3.50	2.10	4.40	3.50	95
OSS 128	300	2 - 2 1/8	1 11/16 - 1 3/4	1250	21.70	8.50	9.00	4.25	7.30	1.81	4.00	2.30	4.90	3.75	141
OSS 130	375	2 1/4 - 2 3/8	1 13/16 - 1 7/8	1425	23.70	9.00	10.00	4.72	8.27	2.10	4.50	2.70	5.30	4.25	190
OSS 132	450	2 1/2 - 2 5/8	1 15/16 - 2 1/8	1850	25.70	9.70	10.70	5.23	9.10	2.36	5.00	3.05	5.90	4.75	260
OSS 135	500	2 3/4 - 2 7/8	2 3/16 - 2 7/16	2300	27.40	11.00	11.00	5.43	9.45	2.90	5.25	3.25	6.30	5.00	348
OSS 138	600	3 - 3 1/8	2 1/2 - 2 5/8	3400	29.00	12.00	11.30	5.70	9.84	3.00	5.75	3.50	6.70	5.25	410
OSS 140	650	3 1/4 - 3 3/8	2 3/4 - 2 7/8	4100	31.10	13.00	11.80	6.30	10.83	3.12	6.25	3.75	7.10	5.50	500
OSS 142	750	3 1/2 - 3 5/8	3 - 3 1/8	5200	33.40	14.00	12.50	6.90	11.80	3.25	6.75	3.90	7.90	6.00	615
OSS 144	900	3 3/4 - 4	3 1/4 - 3 3/8	7700	36.30	15.00	13.50	7.80	13.20	3.50	7.50	4.33	8.50	7.00	825
OSS 146	1200	4 1/4 - 4 1/2	3 3/4 - 4 1/4	10500	43.70	17.30	17.70	8.70	14.60	4.00	8.10	5.00	9.80	7.70	1150
OSS 150	1400	4 3/4 - 5	4 7/16 - 4 3/4	14000	46.70	19.30	17.30	10.00	17.00	4.40	8.90	5.60	10.60	8.70	1500

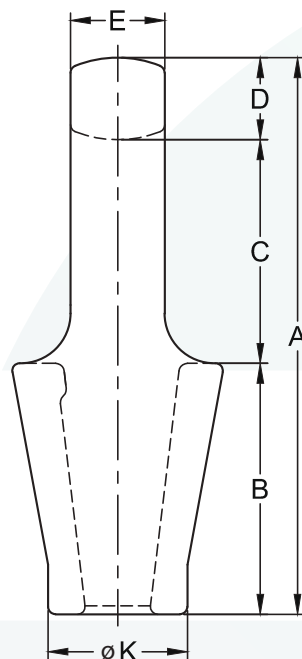
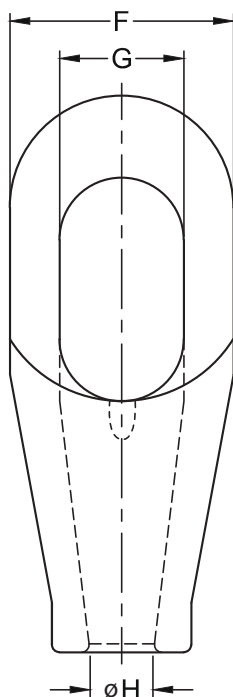
MBL = Minimum Breaking Load

All sockets are supplied in a hot dipped galvanized finish. OSS 111 - OSS 150 are also available in aqua-blue primer (RAL 5018).

For more information read our 'Warnings and instructions for use'.



Closed Spelter Sockets



Available for wire rope sizes from $\varnothing 6$ mm to $\varnothing 128$ mm
($\frac{1}{4}$ " to 5") with an efficiency rating of 100%.



AQUALINE CLOSED SPELTER SOCKET. MM DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø mm	Structural Strand Ø mm	Approx. Resin Volume (cc)	Dimensions (mm)									Weight (kg)
					A	B	C	D	E	F	G	ØH	ØK	
CSS 296	8	6 - 7	-	10	102	46	45	11	14	38	22	10	20	0.3
CSS 297	12	8 - 10	-	20	120	54	52	14	17.5	44	24	13.5	26	0.5
CSS 298	20	11 - 13	-	35	140	64	59	17	23	53	30	15	30	0.7
CSS 299	25	14 - 16	12 - 13	50	162	76	65	21	26	67	36	18.5	38.5	1.3
CSS 200	40	18 - 19	14 - 16	80	194	89	78	27	32	77	42	22.5	46	2.1
CSS 201	55	20 - 22	18 - 19	125	224	101	90	33	38	92	50	26.8	55	3.6
CSS 204	80	23 - 26	20 - 22	160	253	114	103	36	45	101	57	29.5	62	5.1
CSS 207	100	27 - 30	24 - 26	210	282	127	116	39	51	114	65	34	70	7
CSS 212	130	31 - 36	27 - 28	350	312	139	130	43	57	127	71	40	83	10.4
CSS 215	160	37 - 39	30 - 32	425	358	152	155	51	63	140	80	44.5	90	15
CSS 217	200	40 - 42	33 - 35	500	390	165	171	54	70	148	84	48	97	18.5
CSS 219	250	43 - 48	36 - 40	700	443	190	198	55	76	171	95	53	112	27.5
CSS 222	300	49 - 54	42 - 45	1250	502	216	224	62	82	193	111	58.5	125	39.5
CSS 224	375	55 - 60	46 - 48	1425	550	229	248	73	92	219	125	68.5	135	51
CSS 226	450	61 - 68	50 - 54	1850	597	248	270	79	102	241	140	77.5	150	67
CSS 227	500	69 - 75	56 - 62	2300	644	279	286	79	124	273	159	83	160	96
CSS 228	600	76 - 80	64 - 67	3400	689	305	298	86	133	292	171	89	170	118
CSS 229	650	81 - 86	70 - 73	4100	736	330	311	95	146	311	184	95	180	142
CSS 230	750	87 - 93	76 - 80	5200	788	356	330	102	159	330	197	99	200	175
CSS 231	900	94 - 102	83 - 92	7700	845	381	356	108	178	362	216	110	215	230
CSS 233	1200	108 - 115	96 - 108	10500	965	440	400	125	190	405	235	128	250	315
CSS 240	1400	120 - 128	112 - 121	14000	1070	490	450	130	205	450	260	143	270	390

AQUALINE CLOSED SPELTER SOCKET. INCH DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø inch	Structural Strand Ø inch	Approx. Resin Volume (cc)	Dimensions (inch)									Weight (lbs)
					A	B	C	D	E	F	G	ØH	ØK	
CSS 296	8	1/4	-	10	4.00	1.81	1.77	0.43	0.55	1.50	0.87	0.39	0.78	0.7
CSS 297	12	5/16 - 3/8	-	20	4.70	2.16	2.00	0.55	0.69	1.74	0.95	0.53	1.02	1.1
CSS 298	20	7/16 - 1/2	-	35	5.50	2.52	2.32	0.67	0.91	2.10	1.18	0.60	1.18	1.6
CSS 299	25	9/16 - 5/8	1/2	50	6.40	3.00	2.56	0.83	1.02	2.52	1.42	0.73	1.52	3
CSS 200	40	3/4	9/16 - 5/8	80	7.60	3.50	3.07	1.06	1.26	2.95	1.65	0.89	1.81	4.5
CSS 201	55	7/8	1 1/16 - 3/4	125	8.80	4.00	3.54	1.30	1.50	3.54	1.97	1.05	2.17	8
CSS 204	80	1	1 3/16 - 7/8	160	10.00	4.50	4.05	1.42	1.77	4.00	2.24	1.16	2.44	11
CSS 207	100	1 1/8	1 5/16 - 1	210	11.10	5.00	4.60	1.54	2.00	4.50	2.56	1.39	2.76	15
CSS 212	130	1 1/4 - 1 3/8	1 1/16 - 1 1/8	350	12.30	5.50	5.12	1.70	2.24	5.00	2.80	1.57	3.27	23
CSS 215	160	1 1/2	1 3/16 - 1 1/4	425	14.10	6.00	6.10	2.00	2.48	5.60	3.10	1.75	3.50	33
CSS 217	200	1 5/8	1 5/16 - 1 3/8	500	15.40	6.50	6.70	2.13	2.76	5.90	3.20	1.90	3.80	41
CSS 219	250	1 3/4 - 1 7/8	1 7/16 - 1 5/8	700	17.40	7.50	7.80	2.17	3.00	6.70	3.74	2.10	4.40	61
CSS 222	300	2 - 2 1/8	1 11/16 - 1 3/4	1250	19.80	8.50	8.50	2.40	3.23	7.60	4.37	2.30	4.90	87
CSS 224	375	2 1/4 - 2 3/8	1 13/16 - 1 7/4	1425	21.70	9.00	9.76	2.87	3.63	8.60	4.92	2.70	5.30	112
CSS 226	450	2 1/2 - 2 5/8	1 15/16 - 2 1/8	1850	23.50	9.76	10.60	3.10	4.00	9.50	5.50	3.05	5.90	148
CSS 227	500	2 3/4 - 2 7/8	2 3/16 - 2 7/16	2300	25.40	11.00	11.30	3.10	4.90	10.70	6.30	3.25	6.30	211
CSS 228	600	3 - 3 1/8	2 1/2 - 2 5/8	3400	27.10	12.00	11.70	3.40	5.20	11.50	6.70	3.50	6.70	258
CSS 229	650	3 1/4 - 3 3/8	2 3/4 - 2 7/8	4100	29.00	13.00	12.20	3.70	5.70	12.30	7.20	3.75	7.10	312
CSS 230	750	3 1/2 - 3 5/8	3 - 3 1/8	5200	31.00	14.00	13.00	4.00	6.50	13.00	7.80	3.90	7.90	385
CSS 231	900	3 3/4 - 4	3 1/4 - 3 3/8	7700	33.30	15.00	14.00	4.30	7.00	14.30	8.50	4.33	8.50	506
CSS 233	1200	4 1/4 - 4 1/2	3 3/4 - 4 1/4	10500	38.00	17.30	15.70	5.00	7.50	16.00	9.30	5.00	9.80	695
CSS 240	1400	4 3/4 - 5	4 7/16 - 4 3/4	14000	42.00	19.30	17.70	5.10	8.10	17.70	10.30	5.60	10.60	860

MBL = Minimum Breaking Load

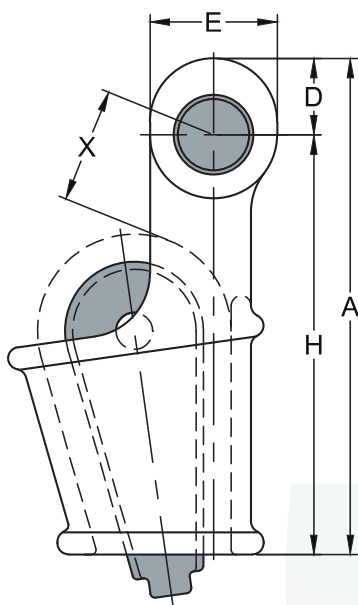
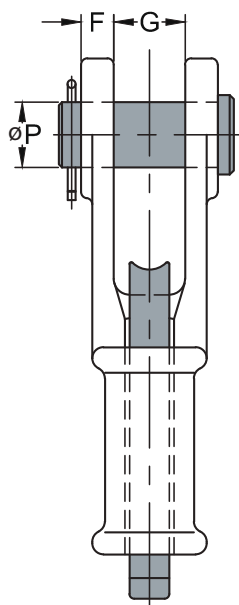
All sockets are supplied in a hot dipped galvanized finish. CSS 207 - CSS 240 are also available in aqua-blue primer (RAL 5018).

For more information read our 'Warnings and instructions for use'.

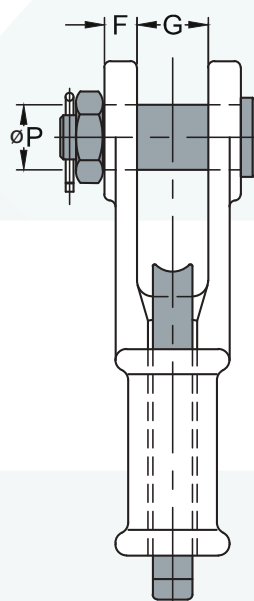


Open Wedge Sockets

with pin



with bolt



Available in sizes from $\varnothing 7$ mm to $\varnothing 86$ mm ($\frac{5}{16}$ " to $3 \frac{3}{8}$ ") with an efficiency rating of 80%. Standard version with pin and cotter pin. Also available with bolt, nut and cotter pin.

Meets the performance requirements of the EN 13411-6 norm.



AQUALINE OPEN WEDGE SOCKET. MM DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø mm	Dimensions (mm)								Weight (kg)
			A	D	E	F	G	H	ØP	X	
OWS 0.25	8	7 - 8	130	20	34	9	18	110	17.5	40	0.7
OWS 0.5	12	9 - 10	150	23	40	11	20.5	125	20.6	45	1.2
OWS 1	20	11 - 13	183	27	48	12.7	25.6	156	25.4	60	2.3
OWS 2	25	14 - 16	224	32	56	14.5	32	192	30	65	3.6
OWS 3	40	17 - 19	272	40	68	16.5	38	232	35	70	6.3
OWS 4	55	20 - 22	312	48	80	20.5	45	264	41	80	10.3
OWS 5	80	23 - 26	370	58	100	22.5	51	312	51	90	16
OWS 6	100	27 - 29	413	65	110	25	57	348	57	100	21.5
OWS 7	120	30 - 32	455	72	124	28	63	384	63	110	30
OWS 8	130	34 - 36	508	76	132	28	70	432	63	125	36
OWS 9	160	37 - 39	548	80	140	30	76	468	70	140	50
OWS 10	200	40 - 42	589	85	150	33	76	504	76	155	60
OWS 11	250	43 - 48	674	98	170	39	89	576	89	175	90
OWS 12	300	49 - 52	733	108	186	46	101	625	95	195	125
OWS 13	375	54 - 58	816	120	210	53	113	696	108	220	175
OWS 14	450	60 - 68	950	133	230	60	127	817	121	250	250
OWS 15	600	72 - 76	1057	145	250	76	146	912	133	280	400
OWS 16	650	81 - 86	1160	160	275	79	159	1000	140	330	515

AQUALINE OPEN WEDGE SOCKET. INCH DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø inch	Dimensions (inch)								Weight (lbs)
			A	D	E	F	G	H	ØP	X	
OWS 0.25	8	5/16	5.12	0.80	1.34	0.35	0.70	4.30	0.69	1.60	1.6
OWS 0.5	12	3/8	5.90	0.90	1.60	0.43	0.83	4.92	0.81	1.77	2.6
OWS 1	20	7/16 - 1/2	7.20	1.06	1.90	0.50	1.00	6.14	1.00	2.36	4.6
OWS 2	25	9/16 - 5/8	8.80	1.26	2.20	0.57	1.26	7.56	1.18	2.56	8
OWS 3	40	3/4	10.70	1.58	2.76	0.65	1.50	9.13	1.38	2.76	14
OWS 4	55	7/8	12.30	1.90	3.15	0.81	1.77	10.40	1.60	3.15	22.5
OWS 5	80	1	14.60	2.28	3.94	0.89	2.00	12.30	2.00	3.54	35
OWS 6	100	1 1/8	16.30	2.60	4.33	1.00	2.25	13.70	2.25	3.94	47.5
OWS 7	120	1 1/4	17.90	2.80	4.80	1.10	2.50	15.10	2.50	4.33	66
OWS 8	130	1 3/8	20.00	3.00	5.20	1.10	2.75	17.00	2.50	4.92	79
OWS 9	160	1 1/2	21.50	3.15	5.50	1.20	3.00	18.40	2.75	5.50	110
OWS 10	200	1 5/8	23.20	3.35	5.90	1.30	3.00	19.85	3.00	6.10	132
OWS 11	250	1 3/4 - 1 7/8	26.50	3.86	6.70	1.53	3.50	22.70	3.50	6.90	198
OWS 12	300	2	28.90	4.25	7.32	1.81	4.00	24.60	3.75	7.70	275
OWS 13	375	2 1/4	32.10	4.70	8.26	2.10	4.50	27.40	4.25	8.66	385
OWS 14	450	2 1/2	37.40	5.24	9.10	2.36	5.00	32.10	4.75	9.84	550
OWS 15	600	3	41.60	5.70	9.84	3.00	5.75	35.90	5.25	11.00	880
OWS 16	650	3 1/4 - 3 3/8	45.70	10.80	10.80	3.10	6.25	39.40	5.50	13.00	1130

MBL = Minimum Breaking Load

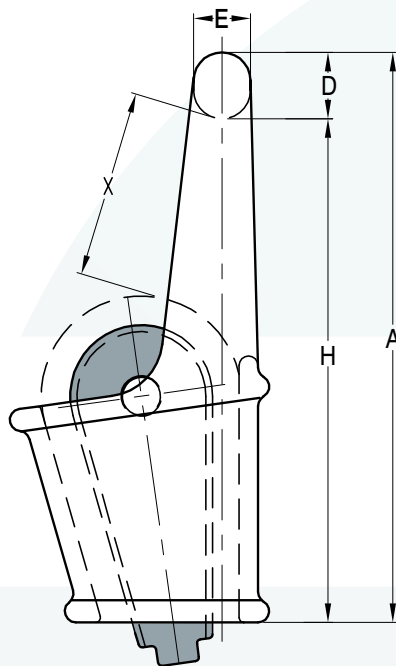
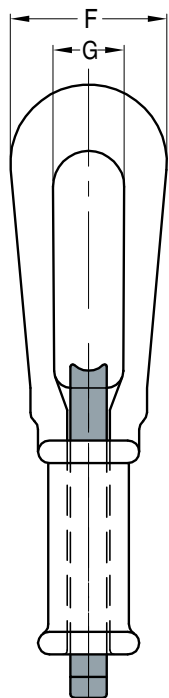
X = Depending on the actual wire rope diameter, rope construction and fill factor

All sockets are supplied in a hot dipped galvanized finish. OWS 4 - OWS 16 are also available in aqua-blue primer (RAL 5018).

For more information read our 'Warnings and instructions for use'.



Closed Wedge Sockets



Available in sizes from $\varnothing$ 17 mm to $\varnothing$ 86 mm ($\frac{3}{4}$ " to $3 \frac{3}{8}$ ") with an efficiency rating of 80%.

Meets the performance requirements of the EN 13411-6 norm.

AQUALLINE CLOSED WEDGE SOCKET. MM DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø mm	Dimensions (mm)							Weight (kg)
			A	D	E	F	G	H	X	
CWS 303	40	17 - 19	317	40	36	100	42	277	100	7
CWS 304	55	20 - 22	368	45	40	115	50	323	110	9
CWS 305	80	23 - 26	422	52	45	130	60	370	125	14
CWS 306	100	27 - 29	473	58	50	150	65	415	140	22
CWS 307	120	30 - 32	519	62	55	160	72	457	160	30
CWS 308	130	34 - 36	580	66	60	168	76	514	175	38
CWS 309	160	37 - 39	620	72	66	175	82	548	190	49
CWS 310	200	40 - 42	665	80	72	195	90	585	210	65
CWS 311	250	43 - 48	750	90	80	220	100	660	240	110
CWS 312	300	49 - 52	820	100	90	242	110	720	260	140
CWS 313	375	54 - 58	890	106	95	255	120	784	280	170
CWS 314	450	60 - 68	1045	120	105	280	130	925	330	240
CWS 315	600	72 - 76	1200	140	120	330	150	1060	400	380
CWS 316	650	81 - 86	1340	155	130	375	170	1185	475	490

AQUALLINE CLOSED WEDGE SOCKET. INCH DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø inch	Dimensions (inch)							Weight (lbs)
			A	D	E	F	G	H	X	
CWS 303	40	3/4	12.50	1.60	1.40	4.00	1.65	10.90	4.00	15.5
CWS 304	55	7/8	14.50	1.80	1.60	4.50	2.00	12.70	4.30	20
CWS 305	80	1	16.60	2.00	1.80	5.10	2.30	14.60	5.00	31
CWS 306	100	1 1/8	18.60	2.30	2.00	5.90	2.60	16.30	5.50	49
CWS 307	120	1 1/4	20.50	2.50	2.15	6.30	2.80	18.00	6.30	66
CWS 308	130	1 3/8	22.80	2.60	2.50	6.60	3.00	20.20	7.00	84
CWS 309	160	1 1/2	24.40	2.80	2.60	6.90	3.20	21.60	7.50	108
CWS 310	200	1 5/8	26.20	3.15	2.80	7.70	3.50	23.00	8.25	145
CWS 311	250	1 3/4 - 1 7/8	29.50	3.50	3.15	8.70	4.00	26.00	9.50	240
CWS 312	300	2	32.30	4.00	3.50	9.50	4.30	28.30	10.25	310
CWS 313	375	2 1/4	35.00	4.20	3.70	10.00	4.70	30.80	11.00	370
CWS 314	450	2 1/2	41.10	4.70	4.10	11.00	5.10	36.40	13.00	530
CWS 315	600	3	47.20	5.50	4.70	13.00	5.90	41.70	15.75	840
CWS 316	650	3 1/4 - 3 3/8	52.80	6.10	5.10	14.80	6.70	46.60	18.70	1180

MBL = Minimum Breaking Load

X = Depending on the actual wire rope diameter, rope construction and fill factor

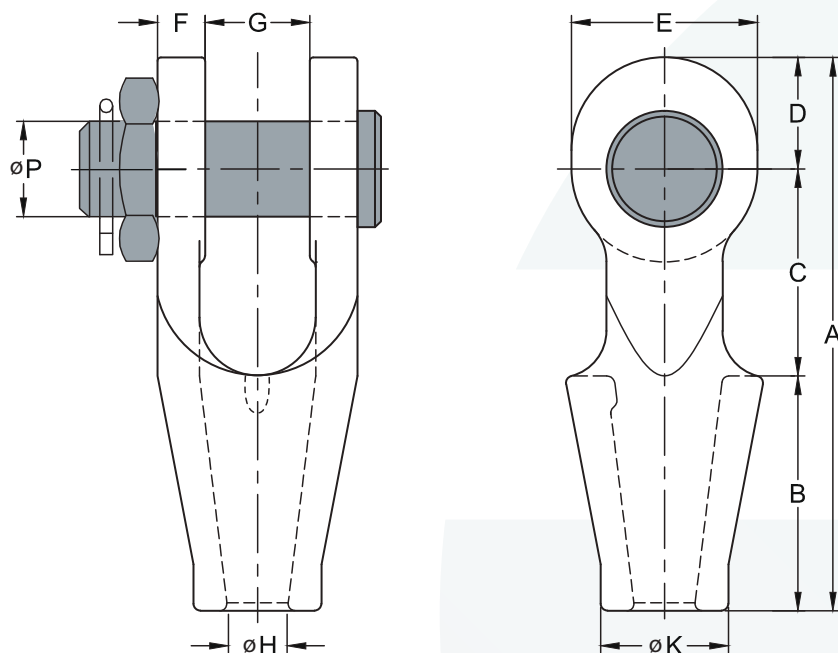
All sockets are supplied in a hot dipped galvanized finish or available in aqua-blue primer (RAL 5018).

For more information read our 'Warnings and instructions for use'.



Open Japanese Sockets

with bolt



Available for wire rope sizes from $\varnothing$ 15 mm to $\varnothing$ 43 mm ($\frac{5}{8}$ " to $1 \frac{5}{8}$ ") with an efficiency rating of 100%. Standard with bolt, nut and cotter pin. Meets the performance requirements of the JIS F 3432-1995 norm and exceeds the required MBL.

AQUALLINE OPEN JAPANESE SOCKET. MM DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø mm	Approx. Resin Volume (cc)	Dimensions (mm)										Weight (kg)
				A	B	C	D	E	F	G	ØH	ØK	ØP	
OJS 16	24	15 - 16	50	183	76	75	32	56	13	32	20	39	25	1.7
OJS 18	30	17 - 18	80	207	89	80	38	64	15	38	23	45	28	2.6
OJS 20	36	19 - 20	125	220	95	85	40	70	16.5	42	25	48	31	3.6
OJS 22	40	21 - 22	160	235	101	89	45	80	20.5	45	30	58	34	5.1
OJS 24	48	23 - 24	175	264	114	101	49	86	22.5	51	32	62	37	6.7
OJS 25	60	25 - 26	200	276	120	105	51	90	22.5	51	34	65	40	7.5
OJS 28	72	27 - 28	230	299	127	114	58	100	25	57	36	70	43	10
OJS 30	80	29 - 30	300	313	135	118	60	104	25	57	38	75	46	11
OJS 32	90	31 - 32	350	331	139	127	65	110	28	63	41	83	49	14.2
OJS 34	100	33 - 34	400	347	150	130	67	114	28	63	43	83	52	16
OJS 36	110	35 - 36	450	370	160	138	72	124	30	70	45	90	55	19
OJS 38	120	37 - 38	500	389	170	145	74	128	30	72	47	90	58	22
OJS 40	135	39 - 40	600	406	175	155	76	130	33.5	76	50	97	61	27
OJS 42	150	41 - 43	700	430	191	160	79	136	39	80	53	100	65	36

AQUALLINE OPEN JAPANESE SOCKET. INCH DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø inch	Approx. Resin Volume (cc)	Dimensions (inch)										Weight (lbs)
				A	B	C	D	E	F	G	ØH	ØK	ØP	
OJS 16	24	5/8	50	7.20	3.00	3.00	1.26	2.20	0.50	1.26	0.80	1.50	1.00	3.8
OJS 18	30	11/16	80	8.15	3.50	3.15	1.50	2.50	0.60	1.50	0.90	1.80	1.10	5.7
OJS 20	36	3/4	125	8.70	3.75	3.35	1.60	2.75	0.65	1.65	1.00	1.90	1.20	8
OJS 22	40	7/8	160	9.25	4.00	3.50	1.80	3.15	0.80	1.77	1.20	2.30	1.34	11.2
OJS 24	48	15/16	175	10.40	4.50	4.00	1.90	3.40	0.90	2.00	1.26	2.40	1.46	14.8
OJS 25	60	1	200	10.90	4.75	4.14	2.00	3.50	0.90	2.00	1.34	2.60	1.57	16.5
OJS 28	72	1 1/8	230	11.80	5.00	4.50	2.30	4.00	1.00	2.25	1.42	2.80	1.70	22
OJS 30	80	1 3/16	300	12.30	5.30	4.65	2.40	4.10	1.00	2.25	1.50	3.00	1.80	24
OJS 32	90	1 1/4	350	13.00	5.50	5.00	2.50	4.30	1.10	2.50	1.61	3.30	1.93	31
OJS 34	100	1 5/16	400	13.70	5.90	5.10	2.60	4.50	1.10	2.50	1.70	3.30	2.00	35
OJS 36	110	1 3/8	450	14.60	6.30	5.40	2.80	4.90	1.20	2.75	1.77	3.50	2.17	42
OJS 38	120	1 1/2	500	15.30	6.70	5.70	2.90	5.00	1.20	2.80	1.85	3.50	2.30	48
OJS 40	135	1 9/16	600	16.00	6.90	6.10	3.00	5.10	1.32	3.00	1.97	3.80	2.40	60
OJS 42	150	1 5/8	700	16.90	7.50	6.30	3.10	5.40	1.53	3.15	2.10	4.00	2.60	80

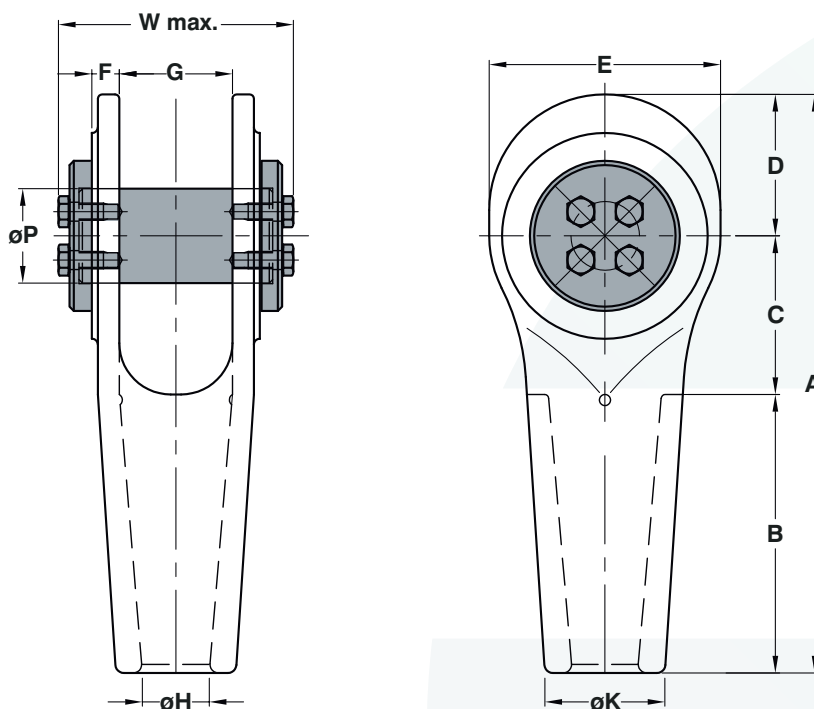
MBL = Minimum Breaking Load

All sockets are supplied in a hot dipped galvanized finish.

For more information read our 'Warnings and instructions for use'.



Open Strand Spelter Sockets



Available in sizes from $\varnothing 20$ mm to $\varnothing 95$ mm structural strand ($3/4''$ to $3 \frac{3}{4}''$) with an efficiency rating of 100%. Standard version with pin and cotter pin. Also available with bolt, nut and cotter pin.

AQUALLINE OPEN STRAND SPELTER SOCKET. MM DIMENSIONS

Model Number	MBL (Mtons)	Structural Strand Ø mm	Approx. Resin Volume (cc)	Dimensions (mm)											Weight (kg)
				A	B	C	D	E	F	G	W	ØH	ØK	ØP	
OSSS 420	50	20	100	225	100	70	55	90	12.5	46	120	27	48	40	3.5
OSSS 425	70	25	160	275	125	80	66	110	14.5	57	135	32	57	45	6
OSSS 430	100	30	220	318	150	90	78	130	17.5	68	160	37	66	55	10
OSSS 435	125	35	400	355	175	95	85	140	19.5	74	175	44	78	60	15
OSSS 440	175	40	800	395	200	105	95	160	22	84	185	49	86	65	18
OSSS 445	225	45	1200	446	225	115	106	176	24	92	210	57	98	75	27
OSSS 450	280	50	1600	503	250	130	123	200	26	104	230	62	108	85	35
OSSS 455	360	55	2000	560	275	150	135	220	28	112	250	67	116	90	52
OSSS 460	450	60	2500	613	300	165	148	240	30	124	265	74	130	100	70
OSSS 465	500	65	3000	675	325	185	165	270	33	132	280	80	140	110	86
OSSS 470	560	70	4000	728	350	200	178	290	37	143	300	87	150	120	111
OSSS 475	600	75	5000	785	375	220	190	310	39	158	340	92	162	130	160
OSSS 480	700	80	6000	838	400	235	203	330	45	168	360	98	173	140	190
OSSS 485	800	85	7000	895	420	260	215	350	51	178	400	104	188	145	230
OSSS 490	900	90	8000	950	440	275	235	380	57	190	425	111	208	154	275
OSSS 495	1000	95	9000	1040	450	330	260	410	62	198	450	120	255	164	350

AQUALLINE OPEN STRAND SPELTER SOCKET. INCH DIMENSIONS

Model Number	MBL (Mtons)	Structural Strand Ø inch	Approx. Resin Volume (cc)	Dimensions (inch)											Weight (lbs)
				A	B	C	D	E	F	G	W	ØH	ØK	ØP	
OSSS 420	50	3/4	100	8.90	4.00	2.80	2.15	3.50	0.50	1.80	4.70	1.00	1.90	1.57	8
OSSS 425	70	1	160	10.90	5.00	3.15	2.60	4.30	0.60	2.40	5.30	1.20	2.40	1.77	13
OSSS 430	100	1 1/8	220	12.50	6.00	3.50	3.10	5.10	0.70	2.70	6.30	1.40	2.60	2.16	22
OSSS 435	125	1 3/8	400	14.00	7.00	3.70	3.40	5.50	0.80	2.90	6.90	1.70	3.10	2.36	32
OSSS 440	175	1 5/8	800	15.50	8.00	4.10	3.70	6.30	0.86	3.30	7.30	1.90	3.40	2.55	40
OSSS 445	225	1 3/4	1200	17.60	8.90	4.50	4.20	6.90	0.90	3.60	8.30	2.20	3.90	2.95	60
OSSS 450	280	2	1600	19.80	9.90	5.10	4.80	7.80	1.00	4.10	9.00	2.40	4.30	3.40	75
OSSS 455	360	2 1/8	2000	22.00	10.80	6.00	5.30	8.70	1.10	4.40	9.90	2.60	4.60	3.54	110
OSSS 460	450	2 3/8	2500	24.10	11.80	6.50	5.80	9.50	1.20	4.90	10.40	2.80	5.10	3.95	150
OSSS 465	500	2 1/2	3000	26.60	12.80	7.30	6.50	10.60	1.30	5.20	11.00	3.10	5.50	4.30	180
OSSS 470	560	2 3/4	4000	28.70	13.80	7.90	7.00	11.40	1.50	5.60	11.80	3.40	5.90	4.70	240
OSSS 475	600	3	5000	30.90	14.80	8.70	7.50	12.20	1.60	6.20	13.40	3.50	6.40	5.10	350
OSSS 480	700	3 1/4	6000	33.00	15.70	9.30	8.00	13.00	1.80	6.60	14.20	3.80	6.80	5.50	420
OSSS 485	800	3 1/3	7000	35.20	16.50	10.20	8.50	13.80	2.00	7.00	15.70	4.00	7.40	5.70	510
OSSS 490	900	3 1/2	8000	37.40	17.30	10.80	9.20	15.00	2.20	7.50	16.70	4.30	8.20	6.10	600
OSSS 495	1000	3 3/4	9000	41.00	18.00	13.00	10.20	16.10	2.40	7.80	17.70	4.70	10.00	6.50	770

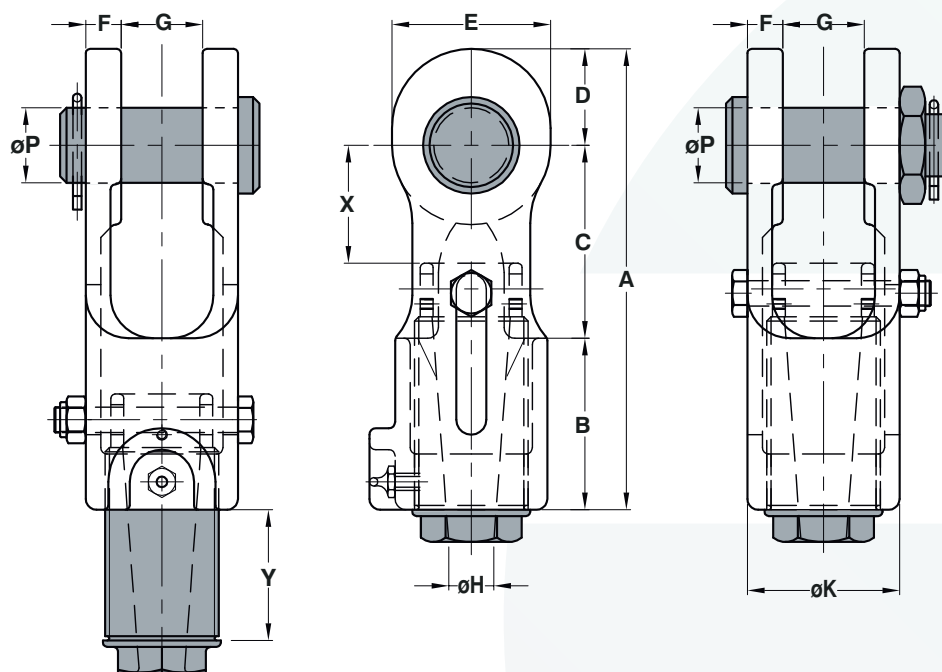
MBL = Minimum Breaking Load

All sockets are supplied in a hot dipped galvanized finish.

For more information read our 'Warnings and instructions for use'.



Adjustable Open Spelter Sockets



Available for wire rope sizes from $\varnothing$ 18 mm to $\varnothing$ 48 mm ($\frac{3}{4}$ " to $1 \frac{7}{8}$ ") with an efficiency rating of 100%. Standard version with pin and cotter pin. Also available with bolt, nut and cotter pin.

AQUALLINE ADJUSTABLE OPEN SPELTER SOCKET. MM DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø mm	Approx. Resin Volume (cc)	Dimensions (mm)												Weight (kg)
				A	B	C	D	E	F	G	ØH	ØK	ØP	X	Y	
AOSS 800	40	18 - 19	80	216	80	90	45	74	16.5	38	22.5	71	35	60	55	5
AOSS 804	55	20 - 22	125	243	90	100	53	90	20.5	45	26.8	86	41	65	65	8
AOSS 808	80	23 - 26	160	289	105	120	64	108	22.5	51	29.5	96	51	70	75	13
AOSS 811	100	27 - 30	210	317	120	130	67	114	25	57	34	108	57	80	85	17
AOSS 815	130	31 - 36	350	362	135	150	77	135	28	63	40	120	63	90	90	23
AOSS 818	160	37 - 39	425	403	150	170	83	146	30	76	44.5	136	70	100	100	33
AOSS 820	200	40 - 42	500	490	165	180	89	156	33	76	48	142	76	110	110	40
AOSS 825	250	43 - 48	700	572	185	215	102	178	39	89	53	167	89	120	125	60

AQUALLINE ADJUSTABLE OPEN SPELTER SOCKET. INCH DIMENSIONS

Model Number	MBL (Mtons)	For Wire Rope Ø inch	Approx. Resin Volume (cc)	Dimensions (inch)												Weight (lbs)
				A	B	C	D	E	F	G	ØH	ØK	ØP	X	Y	
AOSS 800	40	3/4	80	8.50	3.15	3.50	1.75	2.90	0.65	1.50	0.90	2.80	1.38	2.40	2.20	11
AOSS 804	55	7/8	125	9.60	3.50	3.90	2.10	3.50	0.81	1.75	1.05	3.40	1.63	2.60	2.60	17.5
AOSS 808	80	1	160	11.40	4.10	4.70	2.50	4.30	0.89	2.00	1.16	3.80	2.00	2.80	3.00	25
AOSS 811	100	1 1/8	210	12.50	4.70	5.10	2.60	4.50	1.00	2.25	1.34	4.30	2.25	3.10	3.30	38
AOSS 815	130	1 1/4 - 1 3/8	350	14.30	5.30	5.90	3.00	5.30	1.10	2.50	1.60	4.70	2.50	3.50	3.50	50
AOSS 818	160	1 1/2	425	15.90	5.90	6.70	3.30	5.70	1.18	3.00	1.75	5.40	2.75	4.00	4.00	72
AOSS 820	200	1 5/8	500	19.30	6.50	7.10	3.50	6.15	1.30	3.00	1.90	5.60	3.00	4.30	4.30	88
AOSS 825	250	1 3/4 - 1 7/8	700	22.50	7.30	8.50	4.00	7.00	1.50	3.50	2.10	6.60	3.50	4.75	5.00	132

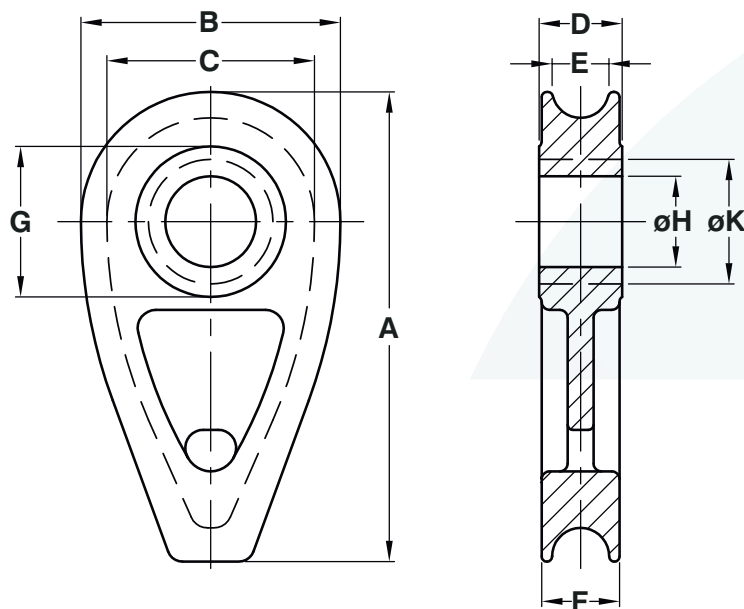
MBL = Minimum Breaking Load.

For more information see our warnings and instructions for use.

PATENT #: EP2805083B



Solid Wire Rope Thimbles



Available for wire rope sizes from $\varnothing 7$ mm to $\varnothing 80$ mm ($5/16''$ to $3''$) with an efficiency rating of 90%.

Meets the performance requirements of the prEN 13411-9 norm.



AQUALLINE SOLID WIRE ROPE THIMBLE. MM DIMENSIONS

Model Number	For Wire Rope Ø mm	Dimensions (mm)									Weight (kg)
		A	B	C	D	E	F	G	ØH	ØK	
SWRT 8	7 - 8	74	40	32	15.5	9	14	28	14	22	0.2
SWRT 10	9 - 10	92	50	40	18	11	16.5	32	18	27	0.35
SWRT 12	11 - 12	110	60	48	20.5	13	19	40	21	34	0.55
SWRT 14	13 - 14	128	70	56	24	16	22.5	45	25	38	0.9
SWRT 16	15 - 16	146	80	64	27	18	25	50	28	43	1
SWRT 18	17 - 18	167	90	72	29	20	27	54	31	49	1.4
SWRT 20	19 - 20	181	100	80	32	22	30	58	35	52	2
SWRT 22	21 - 22	204	110	88	34	24	32	65	40	59	2.4
SWRT 24	23 - 24	222	120	96	37	26	35	70	42	62	3
SWRT 26	25 - 26	235	130	104	40	29	37	75	45	68	4
SWRT 28	27 - 28	259	140	112	43	31	40	80	48	72	5
SWRT 32	30 - 32	297	160	128	47	35	44	90	53	82	7
SWRT 36	34 - 36	334	180	144	54	40	51	100	60	90	10
SWRT 40	38 - 40	366	200	160	60	44	56	118	65	105	12.5
SWRT 44	42 - 44	403	220	176	64	48	60	125	70	112	16.5
SWRT 48	46 - 48	440	240	192	70	53	66	140	76	125	22
SWRT 52	50 - 52	476	260	208	75	57	71	150	82	135	27
SWRT 56	54 - 56	514	280	224	82	62	78	160	88	145	34
SWRT 64	58 - 64	586	320	256	92	70	88	180	95	165	50
SWRT 72	68 - 72	659	360	288	103	78	98	200	105	180	70
SWRT 80	76 - 80	720	400	320	115	88	109	220	115	200	100

AQUALLINE SOLID WIRE ROPE THIMBLE. INCH DIMENSIONS

Model Number	For Wire Rope Ø inch	Dimensions (inch)									Weight (lbs)
		A	B	C	D	E	F	G	ØH	ØK	
SWRT 8	5/16	2.90	1.60	1.25	0.60	0.35	0.55	1.10	0.55	0.86	0.45
SWRT 10	3/8	3.60	2.00	1.60	0.70	0.43	0.65	1.25	0.70	1.06	0.8
SWRT 12	1/2	4.30	2.40	1.90	0.80	0.50	0.75	1.60	0.80	1.34	1.2
SWRT 14	9/16	5.00	2.75	2.20	0.95	0.63	0.90	1.80	1.00	1.50	2
SWRT 16	5/8	5.75	3.15	2.50	1.06	0.70	1.00	2.00	1.10	1.70	2.2
SWRT 18	11/16	6.60	3.50	2.80	1.14	0.80	1.06	2.10	1.20	1.90	3
SWRT 20	3/4	7.10	4.00	3.15	1.26	0.86	1.18	2.30	1.40	2.00	4.2
SWRT 22	7/8	8.00	4.30	3.50	1.34	0.95	1.26	2.60	1.60	2.30	5
SWRT 24	15/16	8.70	4.70	3.80	1.46	1.00	1.40	2.75	1.65	2.40	6.3
SWRT 26	1	9.20	5.10	4.10	1.60	1.15	1.46	3.00	1.77	2.70	8.4
SWRT 28	1 1/8	10.20	5.50	4.40	1.70	1.22	1.60	3.15	1.90	2.80	11
SWRT 32	1 1/4	11.70	6.30	5.00	1.80	1.40	1.70	3.50	2.10	3.20	15
SWRT 36	1 3/8	13.10	7.10	5.70	2.10	1.60	2.00	4.00	2.40	3.50	21
SWRT 40	1 1/2	14.40	7.90	6.30	2.40	1.70	2.20	4.60	2.60	4.10	26.5
SWRT 44	1 3/4	15.90	8.70	7.00	2.50	1.90	2.40	4.90	2.80	4.40	35
SWRT 48	1 7/8	17.30	9.50	7.50	2.60	2.10	2.60	5.50	3.00	5.00	47
SWRT 52	2	18.70	10.20	8.20	3.00	2.30	2.80	5.90	3.20	5.30	60
SWRT 56	2 1/4	20.20	11.00	8.80	3.20	2.40	3.10	6.30	3.50	5.70	75
SWRT 64	2 1/2	23.00	12.60	10.00	3.60	2.75	3.50	7.10	3.80	6.50	110
SWRT 72	2 3/4	26.00	14.20	11.30	4.00	3.00	3.90	7.90	4.10	7.10	150
SWRT 80	3	28.30	15.70	12.60	4.50	3.50	4.30	8.70	4.50	7.90	220

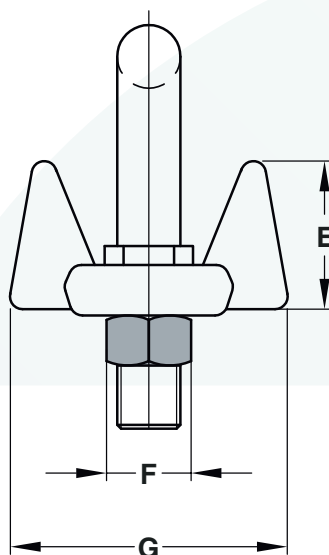
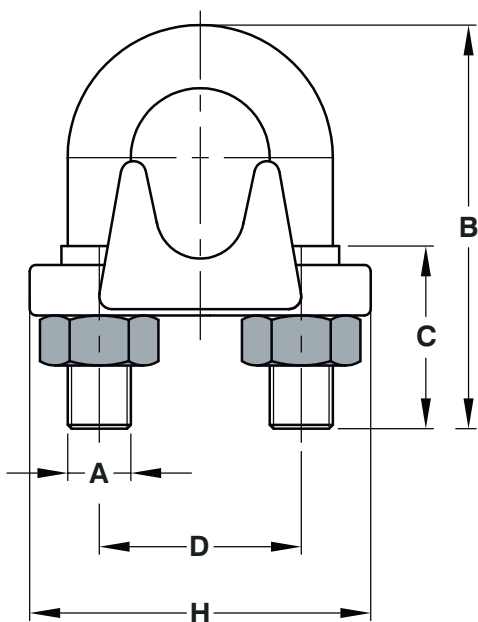
K = Maximum machined diameter

All solid wire rope thimbles are supplied in a hot dipped galvanized finish. SWRT 26 - SWRT 80 are also available in aqua-blue primer (RAL 5018).

For more information read our 'Warnings and instructions for use'.



Wire Rope Clips



Available for wire rope sizes from $\varnothing$ 4 mm to $\varnothing$ 89 mm
($1/8''$ to $3\ 1/2''$).

Meets the performance requirements of the EN 13411-5 norm.



AQUALLINE WIRE ROPE CLIP. MM DIMENSIONS

Model Number	For Wire Rope Ø mm	Torque (Nm)	Dimensions (mm)								Weight (kg)
			A	B	C	D	E	F	G	H	
WRC 004	4	6.1	5.5	18.3	11.2	12.0	10.4	9.7	20.6	23.9	0.03
WRC 005	5	10	6.4	24.6	14.2	15.0	12.7	11.2	23.9	29.5	0.05
WRC 006	6	20.5	7.9	26.2	14.2	19.1	16.8	14.22	30.3	36.6	0.09
WRC 008	8	41	9.7	35.0	19.0	22.4	18.3	17.53	33.3	43.0	0.13
WRC 010	10	61	11.2	38.1	19.0	25.4	23.1	19.1	41.4	49.3	0.21
WRC 011	11	88	12.7	47.8	25.4	30.2	26.2	22.4	46.0	58.0	0.32
WRC 013	13	88	12.7	47.8	25.4	30.2	28.7	22.4	48.5	58.0	0.34
WRC 014	14	130	14.2	57.2	32.0	33.3	31.0	23.9	52.3	63.5	0.45
WRC 016	16	130	14.2	60.5	32.0	33.3	34.0	23.9	52.3	63.5	0.47
WRC 019	19	177	15.8	69.9	36.6	38.1	35.8	26.9	57.2	72.1	0.64
WRC 022	22	306	19.0	79.3	41.1	44.5	40.4	31.8	62.0	80.3	0.98
WRC 026	26	306	19.0	89.0	46.0	47.8	45.2	31.8	66.8	88.1	1.18
WRC 029	29	306	19.0	98.5	50.8	51.0	48.5	31.8	71.4	91.2	1.28
WRC 032	32	490	22.3	108.0	54.1	58.5	55.6	36.6	79.5	105.0	1.90
WRC 035	35	490	22.3	117.6	58.7	60.5	58.7	36.6	79.5	106.0	2
WRC 038	38	490	22.3	125.5	60.5	66.0	62.0	36.6	86.6	113.0	2.35
WRC 042	42	585	25.4	135.0	66.6	70.0	67.6	41.4	92.2	121.0	3.10
WRC 044	44	800	28.7	146.0	70.0	78.0	75.0	46.0	96.8	134.0	4.20
WRC 052	52	1000	31.8	164.0	76.0	86.0	81.0	50.8	113.0	149.0	5.80
WRC 057	57	1000	31.8	181.0	81.0	99.5	83.0	50.8	114.0	162.0	7.30
WRC 064	64	1000	31.8	195.0	87.0	105.0	94.0	50.8	118.0	168.0	8.25
WRC 070	70	1000	31.8	211.0	90.0	111.0	124.0	50.8	127.0	175.0	10.50
WRC 076	76	1630	38.1	233.0	99.0	120.0	126.0	60.5	149.0	194.0	14.20
WRC 089	89	1630	38.1	273.0	114.0	140.0	152.0	60.5	157.0	213.0	17.10

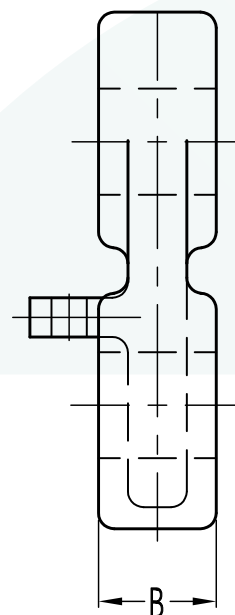
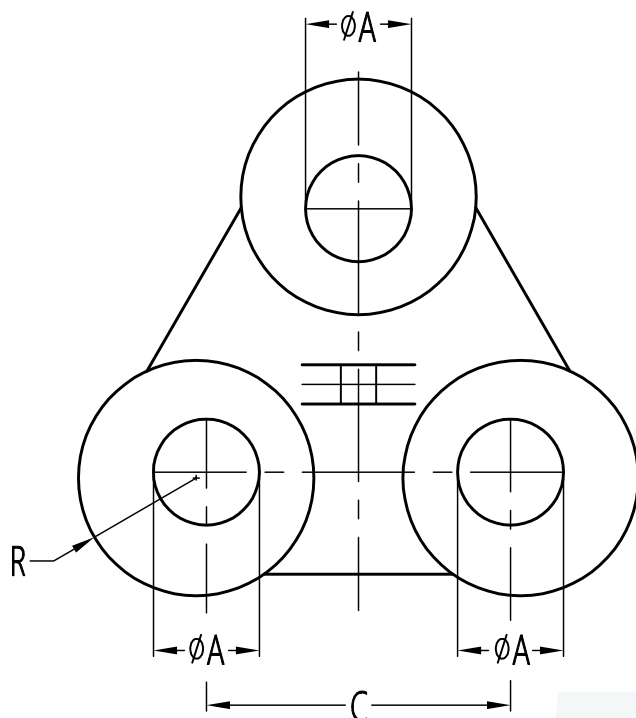
AQUALLINE WIRE ROPE CLIP. INCH DIMENSIONS

Model Number	For Wire Rope Ø inch	Torque (ft-lbs)	Dimensions (inch)								Weight (lbs)
			A	B	C	D	E	F	G	H	
WRC 004	1/8	4.5	0.22	0.72	0.44	0.47	0.41	0.38	0.81	0.94	0.06
WRC 005	3/16	7.5	0.25	0.97	0.56	0.59	0.51	0.44	0.94	1.16	0.11
WRC 006	1/4	15	0.31	1.03	0.50	0.75	0.66	0.56	1.19	1.44	0.20
WRC 008	5/16	30	0.38	1.38	0.75	0.88	0.72	0.69	1.31	1.69	0.28
WRC 010	3/8	45	0.44	1.50	0.75	1.00	0.91	0.75	1.63	1.94	0.46
WRC 011	7/16	65	0.50	1.88	1.00	1.19	1.03	0.88	1.81	2.28	0.70
WRC 013	1/2	65	0.50	1.88	1.00	1.19	1.13	0.88	1.91	2.28	0.80
WRC 014	9/16	95	0.56	2.25	1.25	1.31	1.22	0.94	2.06	2.50	1
WRC 016	5/8	95	0.56	2.38	1.25	1.31	1.34	0.94	2.06	2.50	1.10
WRC 019	3/4	130	0.62	2.75	1.44	1.50	1.41	1.06	2.25	2.84	1.40
WRC 022	7/8	225	0.75	3.12	1.62	1.75	1.59	1.25	2.44	3.16	2.20
WRC 026	1	225	0.75	3.50	1.81	1.88	1.78	1.25	2.63	3.47	2.60
WRC 029	1 1/8	225	0.75	3.88	2.00	2.00	1.91	1.25	2.81	3.59	2.90
WRC 032	1 1/4	360	0.88	4.25	2.13	2.31	2.19	1.44	3.13	4.13	4.20
WRC 035	1 3/8	360	0.88	4.63	2.31	2.38	2.31	1.44	3.13	4.19	4.40
WRC 038	1 1/2	360	0.88	4.94	2.38	2.59	2.44	1.44	3.41	4.44	5.20
WRC 042	1 5/8	430	1.00	5.31	2.62	2.75	2.66	1.63	3.63	4.75	6.80
WRC 044	1 3/4	590	1.13	5.75	2.75	3.06	2.94	1.81	3.81	5.28	9.20
WRC 052	2	750	1.25	6.44	3.00	3.38	3.28	2.00	4.44	5.88	14.80
WRC 057	2 1/4	750	1.25	7.13	3.19	3.88	3.19	2.00	4.50	6.38	16
WRC 064	2 1/2	750	1.25	7.69	3.44	4.13	3.69	2.00	4.05	6.63	18
WRC 070	2 3/4	750	1.25	8.31	3.56	4.38	4.88	2.00	5.00	6.88	23
WRC 076	3	1200	1.50	9.19	3.88	4.75	4.69	2.38	5.88	7.63	31
WRC 089	3 1/2	1200	1.50	10.75	4.50	5.50	6.00	2.38	6.19	8.38	38

All wire rope clips are supplied in a hot dipped galvanized finish. For more information read our 'Warnings and instructions for use'.



Heavy Duty Triangle Plates



Available from size HDTP 9.5 to HDTP 500.

From HDTP 25 and above, all triangle plates have a lifting eye and shackle for safe and easy handling during assembly.

Suitable for commercial bow shackles that are designed according to EN 13889 or Fed. Spec. RR-C.271.

AQUALLINE HEAVY DUTY TRIANGLE PLATE. MM DIMENSIONS

Model Number	SWL (Mtons)	MBL (Mtons)	Dimensions (mm)				Weight (kg)
			Ø A	B	C	R	
HDTP 9.5	9.5	50	35	40	110	45	5
HDTP 12	12	60	38	42	120	48	6.5
HDTP 13.5	13.5	70	41	48	130	50	8
HDTP 17	17	100	46	52	140	55	10.5
HDTP 25	25	125	54	60	155	65	16.5
HDTP 35	35	175	62	70	175	75	25
HDTP 55	55	275	76	90	210	90	46
HDTP 85	85	425	88	100	240	105	69
HDTP 120	120	600	100	118	280	120	107
HDTP 150	150	750	115	142	310	135	163
HDTP 200	200	1000	140	150	380	170	260
HDTP 250	250	1250	150	160	425	180	345
HDTP 300	300	1500	160	178	450	193	435
HDTP 400	400	2000	186	205	480	215	680
HDTP 500	500	2500	200	225	510	240	860

AQUALLINE HEAVY DUTY TRIANGLE PLATE. INCH DIMENSIONS

Model Number	SWL (Mtons)	MBL (Mtons)	Dimensions (inch)				Weight (lbs)
			Ø A	B	C	R	
HDTP 9.5	9.5	50	1.38	1.57	4.3	1.77	11
HDTP 12	12	60	1.5	1.65	4.7	1.9	14
HDTP 13.5	13.5	70	1.6	1.9	5.1	1.97	17
HDTP 17	17	100	1.8	2	5.5	2.2	22
HDTP 25	25	125	2.1	2.4	6.1	2.6	36
HDTP 35	35	175	2.4	2.8	6.9	3	55
HDTP 55	55	275	3	3.5	8.3	3.5	102
HDTP 85	85	425	3.5	3.9	9.5	4.1	152
HDTP 120	120	600	3.9	4.7	11	4.7	235
HDTP 150	150	750	4.5	5.6	12.2	5.3	360
HDTP 200	200	1000	5.5	5.9	15	6.7	570
HDTP 250	250	1250	5.9	6.3	16.7	7.1	760
HDTP 300	300	1500	6.3	7	17.7	7.6	950
HDTP 400	400	2000	7.3	8.1	18.9	8.5	1500
HDTP 500	500	2500	7.9	8.9	20	9.5	1900

SWL = Safe Working Load

MBL = Minimum Breaking Load

All heavy duty triangle plates are supplied in a hot dipped galvanized finish. HDTP 25 – HDTP 500 are also available in aqua-blue primer (RAL 5018).

For more information read our 'Warnings and instructions for use'.

THE QUALITY NAME IN WIRE ROPE FITTINGS



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