

Our Philosophy

Designed to perfection. This philosophy characterizes our approach. We continuously seek to improve, resulting in changes to the existing products in the market and in completely new product designs. We aim for an increased technical performance and design our products with efficiency, longer lifespan, safety, and usability in mind. Not only for the sockets, but also for the wire rope itself.

All our AQUALLINE sockets, thimbles and triangle plates are made from alloy cast steel, a higher grade material, that is suitable for low temperature environments of up to -46°C (Anchor Pendant Sockets up to -40°C).

Our products have some progressive design features that offer interesting benefits in comparison to the standard socket designs in the market.

Adjustable Turnbuckle Series

+ Two products combined into one

By combining a spelter socket with a turnbuckle, we have engineered a product that has fewer separate parts, is easier to handle and is more cost-effective.

Anchor Pendant Series

+ Thicker cone wall

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 Minimum Breaking Load (MBL) can be achieved.

FIGURE 1: THE CONE IS THE WEAKEST PART OF THE SOCKET



VIRO - Analysis Report for Global Rope Fittings - APS 530



FIGURE 2: PRESSURE DISTRIBUTION IN THE CONE



Courtesy of J.M. Dodd B.Sc - Millfield Enterprises - Resin Socketing of Steel Wire Rope

Fast Connector Series

- + Compact design
- + Rotating & non-rotating device
- + Cap with eye

The connector fitting that slides into our Fast Connector Socket has one of the smallest designs in today's market, leaving plenty of room for easy reeving. A cap with an added eye also facilitates the reeving process. A rotating & non-rotating device can be selected in accordance with the used wire rope.

Japanese Series

- + Thicker jaws
- + Reinforced base
- + Increased conus angle

Remodelling the original Open Spelter JIS Socket (e.g. more material in the jaws, reinforced base, increased conus angle), has resulted in a product with a 20-30% higher MBL.

Open DIN Series

- + Thicker jaws
- + Reinforced base
- + Increased conus angle

With a slightly modified design (more material in the jaws, reinforced base, increased conus angle), we achieve a 30-40% higher MBL than with the standard DIN sockets, making it very suitable for the current generation of steel wire ropes.



Solid Thimble Series

+ Bigger radius

+ Longer thimble

Our solid thimble series has a bigger radius and is longer in size compared to the standard DIN thimbles. Consequently, the rope gradually bends over the thimble and is less prone to opening up, which makes it easier to use during clamping.

Spelter Series

- + Cylindrical design
- + Increased wire inlet
- + Non-rotating device
- + Reinforced base

Our spelter sockets have a cylindrical base design with an increased wire inlet. This facilitates the aligning and clamping of the rope during socketing. Additionally, the inlets can be re-worked more easily without losing much capacity. A non-rotating device prevents the rope from rotating and backing out of the cone during transport or assembly. All our spelter sockets have a reinforced base end that enables a higher MBL.

Triangle Plates

+ Lifting eye with shackle

From 25 Mtons (SWL) and above, all our Heavy Duty Triangle Plates have a lifting eye and shackle for safe and easy handling during assembly.

Wedge Series

- + Full symmetric wedge design
- + Extended jaws
- + Increased body length
- + Enlarged wedge
- + Added square notch

For our wedge series we have resized and reshaped all parts. As a result of all these improvements, we have increased the endurance of the wire rope and wedge, and achieve an efficiency rating of 85-92%. The highest efficiency in today's market!

- Our wedge is fully symmetrical and fits in the body in both ways, making it completely fool-proof.
- By extending the length of the jaws with 15%, much more space is available to quickly assemble the socket to the dead-end connection.
- By increasing the body length of the socket and enlarging the wedge while the inner radius of both remains the same –, we reach maximum rope support and maintain an equal pressure in the rope.
- Finally, an added square notch in the bottom section of the wedge avoids damage of the rope and wedge during disassembly. This increases the endurance of the wire rope and wedge.



FIGURE 3: OUR SPECIAL WEDGE SOCKET DESIGN



GRF SOCKET ON THE LEFT

GRF WEDGE ON THE LEFT

FIGURE 4: MAXIMUM ROPE SUPPORT

