

ROPEBLOCK

WARNING AND APPLICATION INSTRUCTIONS

GENERAL INFORMATION

- Always take care of visual inspection before using a socket and pin.
- Never use a part showing cracks.
- Do not side load a socket.
- Repair is not allowed, for repair contact your supplier.
- Never shockload a socket.

SPELTER SOCKETS

- Proper spelter socket terminations have an efficiency of 100% of the breaking load of the wire. This can be limited by the minimum breaking load of the socket (MBL), as mentioned in the tables.
- Before use please carefully read the instructions of the resin or spelter manufacturer. Incorrect use of the resin or spelter material can result in an unsafe termination. More information can also be obtained from your wire rope supplier.
- Always clear the wire rope broom and socket basket from dirt and grease.
- Make certain that the broomed wires are evenly spaced in the basket, and that the wire and basket are aligned with each other.
- When using white metal or zinc, do not preheat the socket to more than 300°C (570°F).
- Make sure the base of the socket is properly sealed. This to prevent resin leakage, which may cause voids.
- Never use an assembly before the resin is fully hardened.
- Socketing should always be done by a qualified person.
- Due to constant improvements of our products, we reserve the right to change specifications accordingly.

REQUIRED RESIN VOLUME FOR SOCKETING WIRE ROPE TERMINATIONS

| For Wire Rope \varnothing | | Approximate Resin Volume |
|-----------------------------|---------------|--------------------------|
| mm | inch | in ³ |
| 11 - 13 | 1/2 | 2 |
| 14 - 16 | 5/8 | 3 |
| 18 - 19 | 3/4 | 5 |
| 20 - 22 | 7/8 | 8 |
| 23 - 26 | 1 | 10 |
| 27 - 30 | 1.1/8 | 13 |
| 31 - 36 | 1.1/2 - 1.3/8 | 22 |
| 37 - 39 | 1.1/2 | 26 |
| 40 - 42 | 1.5/8 | 30 |
| 43 - 48 | 1.3/4 - 1.7/8 | 45 |
| 49 - 54 | 2 - 2.1/8 | 75 |
| 55 - 60 | 2.1/4 - 2.3/8 | 90 |
| 61 - 68 | 2.1/2 - 2.5/8 | 120 |
| 69 - 75 | 2.3/4 - 2.7/8 | 140 |
| 76 - 80 | 3 - 3.1/8 | 200 |
| 81 - 86 | 3.1/4 - 3.3/8 | 240 |
| 87 - 93 | 3.1/2 - 3.5/8 | 300 |
| 94 - 102 | 3.3/4 - 4 | 475 |
| 108 - 115 | 4.1/4 - 4.1/2 | 650 |
| 120 - 130 | 4.3/4 - 5 | 900 |

MATERIAL CERTIFICATES

Additional material inspection and testing by authorized agencies is possible. If ordered a 3.1.C-EN 10204/DIN 50049 certificate can be supplied.

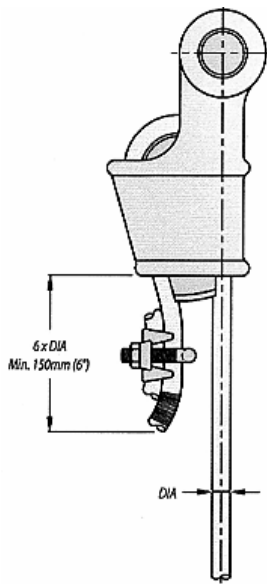


ROPEBLOCK

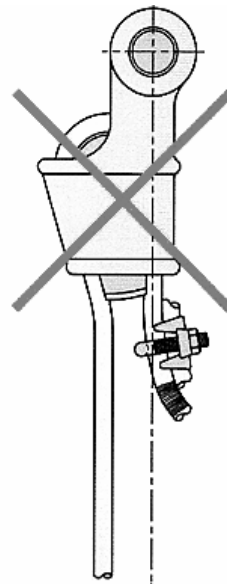
WARNING AND APPLICATION INSTRUCTIONS

WEDGE SOCKETS

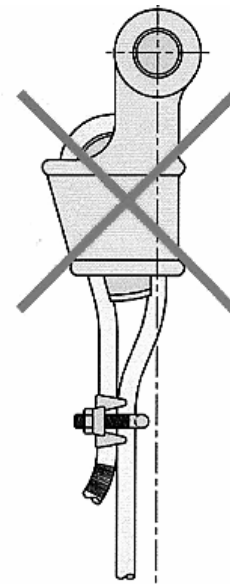
- Always mount the loaded part of the wire in the centre line of the pin (see figures).
- Secure the dead end with a wire rope clip.
- Do not attach the loaded wire to the dead end.
- The dead end should have a length of 6 times the wire diameter with a minimum of 6" inches.
- Inspect after the first load that the wire rope and wedge are fully seated.
- Load may slip if the connection is not properly installed.
- Inspect the connection regularly.
- The efficiency of a wire rope/wedge socket connection is 80% of the minimum breaking load of the wire but limited to the minimum breaking load of the socket (MBL).



RIGHT



WRONG



WRONG

TESTING

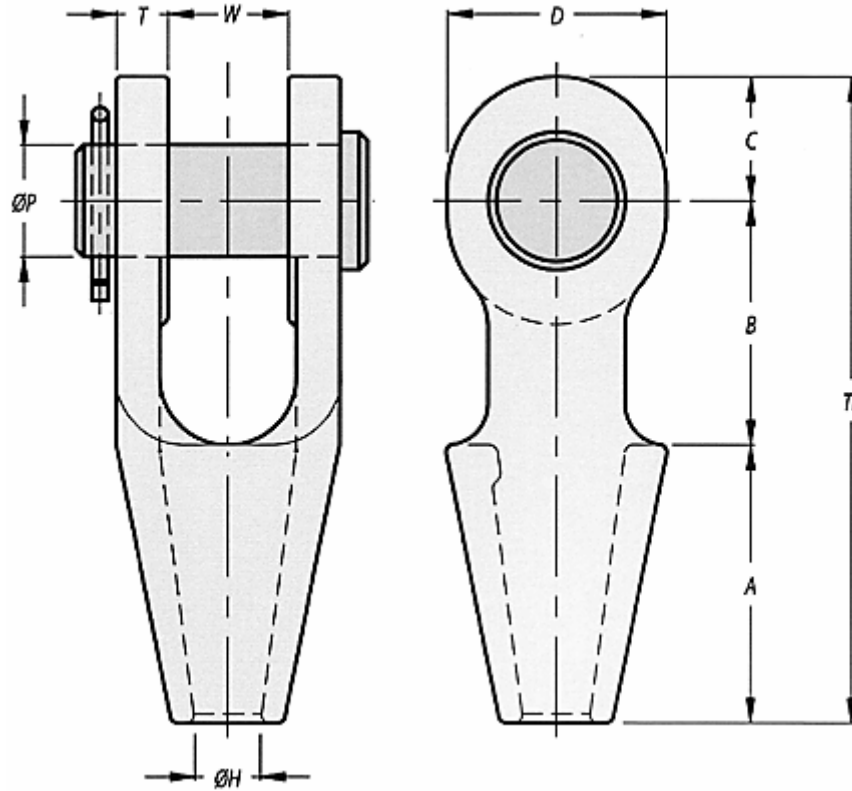
Sockets can be proofloaded in accordance with the Ropeblock BV test program. Witnessing of non-destructive examinations by independent inspection agencies can be offered as an option. With our 300 tons tensile testing equipment, certified by TNO and approved by all major classification societies, we can offer additional proofload testing facilities.



ROPEBLOCK

ALLOY CAST STEEL OPEN SPELTER SOCKETS

Click on the warning symbol in the Table of Contents to view important warnings and information.



| Model No. | MBL (UStons) | Rope ø | | Strand ø | | Dimensions (inch) | | | | | | | | | Weight (lbs) |
|-----------|--------------|-----------|---------------|-----------|-----------------|-------------------|--------|-------|--------|-------|-------|-------|--------|-------|--------------|
| | | (mm) | (inch) | (mm) | (inch) | A | B | C | D | øH | øP | T | TL | W | |
| OSS 198 | 22 | 11 - 13 | 7/16 - 1/2 | | | 2.1/2 | 2 | 1 | 2 | 1/2 | 1 | 1/2 | 5.1/2 | 1 | 2.2 |
| OSS 199 | 28 | 14 - 16 | 9/16 - 5/8 | 13 | 1/2 | 3 | 2.1/2 | 1.1/4 | 2.1/4 | 5/8 | 1.1/8 | 1/2 | 6.3/4 | 1.1/4 | 4 |
| OSS 100 | 44 | 18 - 19 | 3/4 | 14 - 16 | 9/16 - 5/8 | 3.1/2 | 3 | 1.5/8 | 2.3/4 | 7/8 | 1.3/8 | 5/8 | 8.1/8 | 1.1/2 | 7 |
| OSS 104 | 61 | 20 - 22 | 7/8 | 18 - 19 | 3/4 | 4 | 3.1/2 | 1.3/4 | 3.1/8 | 1 | 1.5/8 | 3/4 | 9.1/4 | 1.3/4 | 10 |
| OSS 108 | 83 | 23 - 26 | 1 | 20 - 22 | 7/8 | 4.1/2 | 4 | 2.3/8 | 4 | 1.1/8 | 2 | 7/8 | 10.7/8 | 2 | 18 |
| OSS 111 | 99 | 27 - 30 | 1.1/8 | 23 - 26 | 1 | 5 | 4.1/2 | 2.1/2 | 4.1/2 | 1.1/4 | 2.1/4 | 1 | 12 | 2.1/4 | 24 |
| OSS 115 | 138 | 31 - 36 | 1.1/4 - 1.3/8 | 27 - 28 | 1.1/16 - 1.1/8 | 5.1/2 | 5 | 2.7/8 | 5 | 1.1/2 | 2.1/2 | 1.1/8 | 13.3/8 | 2.1/2 | 35 |
| OSS 118 | 165 | 37 - 39 | 1.1/2 | 30 - 32 | 1.3/16 - 1.1/4 | 6 | 6.3/8 | 3.1/8 | 5.1/2 | 1.5/8 | 2.3/4 | 1.1/4 | 15.1/2 | 3 | 51 |
| OSS 120 | 187 | 40 - 42 | 1.5/8 | 33 - 35 | 1.5/16 - 1.3/8 | 6.1/2 | 6.1/2 | 3.1/2 | 6 | 1.3/4 | 3 | 1.3/8 | 16.1/2 | 3 | 60 |
| OSS 125 | 248 | 43 - 48 | 1.3/4 - 1.7/8 | 36 - 40 | 1.7/16 - 1.5/8 | 7.1/2 | 7 | 4 | 7 | 2 | 3.1/2 | 1.1/2 | 18.1/2 | 3.1/2 | 90 |
| OSS 128 | 309 | 49 - 54 | 2 - 2.1/8 | 42 - 45 | 1.5/8 - 1.3/4 | 8.1/2 | 9 | 4.1/4 | 7.5/8 | 2.1/4 | 3.3/4 | 1.3/4 | 21.3/4 | 4 | 128 |
| OSS 130 | 397 | 55 - 60 | 2.1/4 - 2.3/8 | 46 - 48 | 1.13/16 - 1.7/8 | 9 | 9.7/8 | 4.3/4 | 8.1/4 | 2.1/2 | 4.1/4 | 2 | 23.5/8 | 4.1/2 | 187 |
| OSS 132 | 468 | 61 - 68 | 2.1/2 - 2.5/8 | 50 - 54 | 2 - 2.1/8 | 9.3/4 | 10.3/4 | 5.1/4 | 9.1/4 | 2.7/8 | 4.3/4 | 2.3/8 | 25.3/4 | 5 | 260 |
| OSS 135 | 507 | 69 - 75 | 2.3/4 - 2.7/8 | 56 - 62 | 2.1/4 - 2.1/2 | 11 | 11 | 5.1/2 | 9.1/2 | 3.1/8 | 5 | 2.7/8 | 27.1/2 | 5.1/4 | 342 |
| OSS 138 | 617 | 76 - 80 | 3 - 3.1/8 | 64 - 67 | 2.1/2 - 2.5/8 | 12 | 11.1/4 | 5.3/4 | 10 | 3.3/8 | 5.1/4 | 3 | 29 | 5.3/4 | 381 |
| OSS 140 | 689 | 81 - 86 | 3.1/4 - 3.3/8 | 69 - 76 | 2.3/4 - 3 | 13 | 11.3/4 | 6.1/4 | 11.3/4 | 3.5/8 | 5.1/2 | 3.1/8 | 31 | 6.1/4 | 507 |
| OSS 142 | 794 | 87 - 93 | 3.1/2 - 3.5/8 | 78 - 86 | 3.1/16 - 3.3/8 | 14 | 12.1/2 | 7 | 12.1/2 | 3.7/8 | 6 | 3.1/4 | 33.1/2 | 6.3/4 | 584 |
| OSS 144 | 965 | 94 - 102 | 3.3/4 - 4 | 88 - 96 | 3.7/16 - 3.3/4 | 15 | 13.1/2 | 7.1/2 | 13.3/4 | 4.1/4 | 7 | 3.1/2 | 36 | 7.1/2 | 816 |
| OSS 146 | 1323 | 108 - 115 | 4.1/4 - 4.1/2 | 98 - 110 | 3.7/8 - 4.5/16 | 17.3/4 | 18.7/8 | 8.1/2 | 15.3/4 | 5 | 7.1/2 | 4 | 45.1/8 | 8 | 1158 |
| OSS 150 | 1433 | 120 - 130 | 4.3/4 - 5 | 112 - 124 | 4.7/16 - 4.7/8 | 19.3/4 | 19.3/4 | 11 | 22 | 5.1/2 | 9.7/8 | 4.3/8 | 50.1/2 | 8.7/8 | 1985 |

MBL = Minimum Breaking Load.

Standard all sockets are painted blue, but can be supplied galvanized.

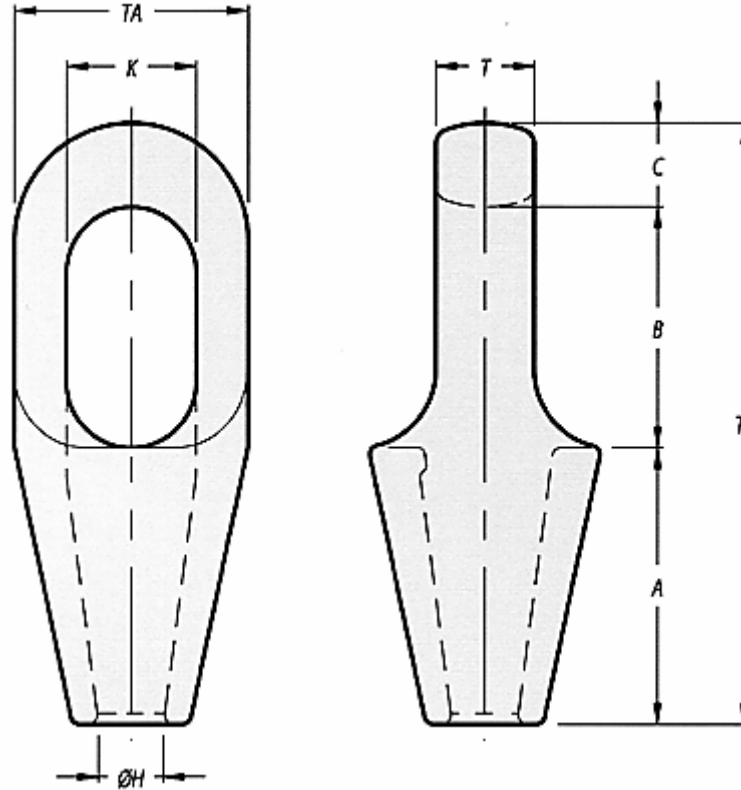
All sockets can be supplied with EN 10204/DIN 50049 3.1B certificate (no additional costs).

Other than 3.1B certificates on request and at additional costs.

ROPEBLOCK

ALLOY CAST STEEL CLOSED SPELTER SOCKETS

Click on the warning symbol in the Table of Contents to view important warnings and information.



| Model No. | MBL (UStons) | Rope ϕ | | Strand ϕ | | Dimensions (inch) | | | | | | | | Weight (lbs) |
|-----------|--------------|-------------|---------------|---------------|-----------------|-------------------|--------|-------|----------|--------|-------|--------|--------|--------------|
| | | (mm) | (inch) | (mm) | (inch) | A | B | C | ϕ H | K | T | TA | TL | |
| CSS 298 | 22 | 11 - 13 | 7/16 - 1/2 | | | 2.1/2 | 2.1/2 | 2.3/8 | 1/2 | 1.1/4 | 5/8 | 2 | 7.3/8 | 1,5 |
| CSS 299 | 28 | 14 - 16 | 9/16 - 5/8 | 13 | 1/2 | 3 | 3 | 2.1/2 | 5/8 | 1.1/2 | 7/8 | 2.5/8 | 8.1/2 | 2,4 |
| CSS 200 | 44 | 18 - 19 | 3/4 | 14 - 16 | 9/16 - 5/8 | 3.1/2 | 3 | 1 | 7/8 | 1.5/8 | 1.1/4 | 3 | 7.1/2 | 4,5 |
| CSS 201 | 61 | 20 - 22 | 7/8 | 18 - 19 | 3/4 | 4 | 3.1/2 | 1.1/4 | 1 | 1.7/8 | 1.1/2 | 3.5/8 | 8.3/4 | 8 |
| CSS 204 | 83 | 23 - 26 | 1 | 20 - 22 | 7/8 | 4.1/2 | 4 | 1.3/8 | 1.1/8 | 2.1/4 | 1.3/4 | 4 | 9.7/8 | 12 |
| CSS 207 | 99 | 27 - 30 | 1.1/8 | 23 - 26 | 1 | 5 | 4.1/2 | 1.1/2 | 1.1/4 | 2.1/2 | 2 | 4.1/2 | 11 | 15 |
| CSS 212 | 138 | 31 - 36 | 1.1/4 - 1.3/8 | 27 - 28 | 1.1/16 - 1.1/8 | 5.1/2 | 5 | 1.5/8 | 1.1/2 | 2.3/4 | 2.1/4 | 5 | 12.1/8 | 21 |
| CSS 215 | 165 | 37 - 39 | 1.1/2 | 30 - 32 | 1.3/16 - 1.1/4 | 6 | 6 | 2 | 1.5/8 | 3.1/8 | 2.1/2 | 5.3/8 | 14 | 28 |
| CSS 217 | 187 | 40 - 42 | 1.5/8 | 33 - 35 | 1.5/16 - 1.3/8 | 6.1/2 | 6.3/4 | 2.1/8 | 1.3/4 | 3.1/4 | 2.3/4 | 5.3/4 | 15.3/8 | 37 |
| CSS 219 | 248 | 43 - 48 | 1.3/4 - 1.7/8 | 36 - 40 | 1.7/16 - 1.5/8 | 7.1/2 | 7.3/4 | 2.1/8 | 2 | 3.5/8 | 3 | 6.3/4 | 17.3/8 | 57 |
| CSS 222 | 309 | 49 - 54 | 2 - 2.1/8 | 42 - 45 | 1.5/8 - 1.3/4 | 8.1/2 | 8.7/8 | 2.1/2 | 2.1/4 | 4 | 3.1/4 | 7.1/2 | 19.7/8 | 83 |
| CSS 224 | 397 | 55 - 60 | 2.1/4 - 2.3/8 | 46 - 48 | 1.13/16 - 1.7/8 | 9 | 9.3/4 | 2.7/8 | 2.1/2 | 4.3/8 | 3.5/8 | 8.1/2 | 21.5/8 | 110 |
| CSS 226 | 468 | 61 - 68 | 2.1/2 - 2.5/8 | 50 - 54 | 2 - 2.1/8 | 9.3/4 | 10.5/8 | 3.1/8 | 2.7/8 | 5.1/2 | 4 | 9.1/2 | 23.1/2 | 143 |
| CSS 227 | 507 | 69 - 75 | 2.3/4 - 2.7/8 | 56 - 62 | 2.1/4 - 2.1/2 | 11 | 11.1/4 | 3.1/8 | 3.1/8 | 6.1/4 | 5.5/8 | 10.3/4 | 25.3/8 | 207 |
| CSS 228 | 617 | 76 - 80 | 3 - 3.1/8 | 64 - 67 | 2.1/2 - 2.5/8 | 12 | 11.1/4 | 3.1/4 | 3.3/8 | 6.3/4 | 5.1/4 | 11.1/2 | 26.1/2 | 243 |
| CSS 229 | 689 | 81 - 86 | 3.1/4 - 3.3/8 | 69 - 76 | 2.3/4 - 3 | 13 | 12.1/4 | 4 | 3.5/8 | 7.1/4 | 5.3/4 | 12.1/2 | 29.1/4 | 320 |
| CSS 230 | 794 | 87 - 93 | 3.1/2 - 3.5/8 | 78 - 86 | 3.1/16 - 3.3/8 | 14 | 13 | 4 | 3.7/8 | 7.3/4 | 6.1/4 | 13 | 31 | 370 |
| CSS 231 | 965 | 94 - 102 | 3.3/4 - 4 | 88 - 96 | 3.7/16 - 3.3/4 | 15 | 14 | 4.1/4 | 4.1/4 | 8.1/2 | 7 | 14.1/4 | 33.1/4 | 463 |
| CSS 233 | 1323 | 108 - 115 | 4.1/4 - 4.1/2 | 98 - 110 | 3.7/8 - 4.5/16 | 17.3/4 | 16.3/4 | 5 | 5 | 9.1/4 | 7.1/2 | 16 | 39.1/2 | 728 |
| CSS 240 | 1433 | 120 - 130 | 4.3/4 - 5 | 112 - 124 | 4.7/16 - 4.7/8 | 19.3/4 | 18.3/4 | 5.3/8 | 5.1/2 | 10.1/4 | 8.1/4 | 20.1/4 | 43.7/8 | 1212 |

MBL = Minimum Breaking Load.

Standard all sockets are painted blue, but can be supplied galvanized.

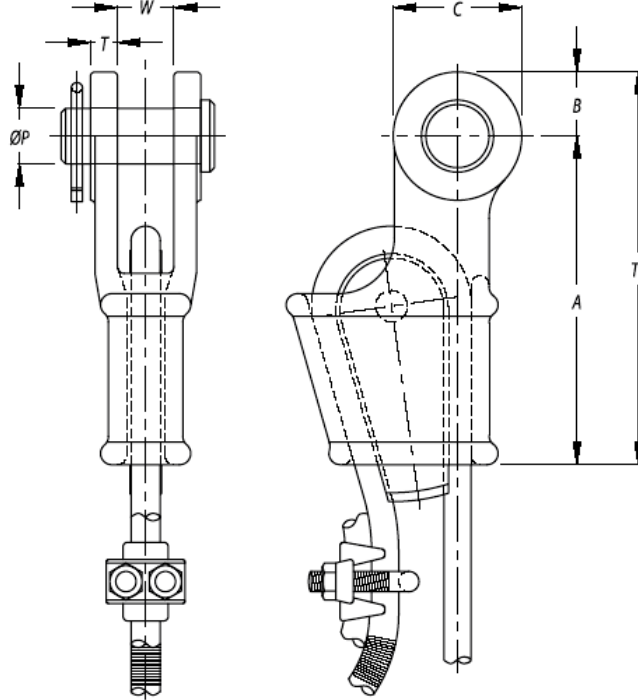
All sockets can be supplied with EN 10204/DIN 50049 3.1B certificate (no additional costs).

Other than 3.1B certificates on request and at additional costs.

ROPEBLOCK

ALLOY CAST STEEL OPEN WEDGE SOCKETS

Click on the warning symbol in the Table of Contents to view important warnings and information.



| Model No. | MBL * | For wire ø | | Dimensions (inch) | | | | | | | Weight (lbs) |
|-----------|-----------|------------|-------------|-------------------|-------|--------|-------|-------|--------|-------|--------------|
| | (US Tons) | (mm) | (inch) | A | B | C | øP | T | TL | W | |
| OWS 0,25 | 9 | 7-8 | 5/16 | 4-3/8 | 3/4 | 3/8 | 5/8 | 3/8 | 5-1/8 | 3/4 | 1.8 |
| OWS 0,5 | 13 | 9-10 | 3/8 | 5-1/2 | 1 | 1-3/4 | 3/4 | 7/16 | 6-1/2 | 7/8 | 3.7 |
| OWS 1 | 22 | 11-13 | 1/2 | 5-3/4 | 1-1/8 | 2-1/4 | 1 | 1/2 | 6-7/8 | 1 | 4.6 |
| OWS 2 | 28 | 14-16 | 5/8 | 7 | 1-3/8 | 2-3/4 | 1-1/8 | 19/32 | 8-3/8 | 1-1/4 | 8.8 |
| OWS 3 | 44 | 18-19 | 3/4 | 8-3/8 | 1-1/2 | 3-1/8 | 1-3/8 | 5/8 | 9-7/8 | 1-1/2 | 15.4 |
| OWS 4 | 61 | 20-22 | 7/8 | 9-1/2 | 1-7/8 | 3-3/4 | 1-5/8 | 3/4 | 11-3/8 | 1-3/4 | 22 |
| OWS 5 | 83 | 24-26 | 1 | 10-3/4 | 2-1/8 | 4-3/8 | 2 | 7/8 | 12-7/8 | 2 | 33 |
| OWS 6 | 99 | 27-29 | 1-1/8 | 12-1/4 | 2-1/2 | 5-1/8 | 2-1/4 | 1 | 14-3/4 | 2-1/4 | 46 |
| OWS 7 | 121 | 30-32 | 1-1/4 | 13-3/4 | 2-7/8 | 5-3/4 | 2-1/2 | 1-1/8 | 16-5/8 | 2-1/2 | 68 |
| OWS 8 | 138 | 34-36 | 1-3/8 | 15-3/4 | 3 | 5-7/8 | 2-1/2 | 1-1/8 | 18-3/4 | 2-3/4 | 82 |
| OWS 9 | 165 | 37-39 | 1-1/2 | 17-3/4 | 3-1/8 | 5-1/2 | 2-3/4 | 1-1/4 | 20-7/8 | 3 | 112 |
| OWS 10 | 187 | 40-42 | 1-5/8 | 19-5/8 | 3-1/2 | 6-1/4 | 3 | 1-3/8 | 23-1/8 | 3 | 141 |
| OWS 11 | 248 | 43-48 | 1-3/4-1-7/8 | 21-5/8 | 4 | 7-1/4 | 3-1/2 | 1-1/2 | 25-5/8 | 3-1/2 | 212 |
| OWS 12 | 309 | 49-52 | 2 | 25-1/4 | 4-1/8 | 7-5/8 | 3-3/4 | 1-3/4 | 29-3/8 | 4 | 287 |
| OWS 13 | 397 | 54-58 | 2-1/4 | 26 | 5 | 9 | 4-1/4 | 2-1/4 | 31 | 4-1/2 | 397 |
| OWS 14 | 468 | 60-68 | 2-1/2 | 32-7/8 | 5-3/8 | 9-7/8 | 4-3/4 | 2-3/8 | 38-1/4 | 5 | 606 |
| OWS 15 | 507 | 72-76 | 3 | 39-3/8 | 5-7/8 | 10-5/8 | 5-1/4 | 3 | 45-1/4 | 5-3/4 | 970 |
| OWS 16 | 689 | 81-86 | 3-1/4-3-3/8 | 43-1/4 | 6 | 11-3/4 | 5-1/2 | 3-1/8 | 49-1/4 | 6-1/4 | 1125 |

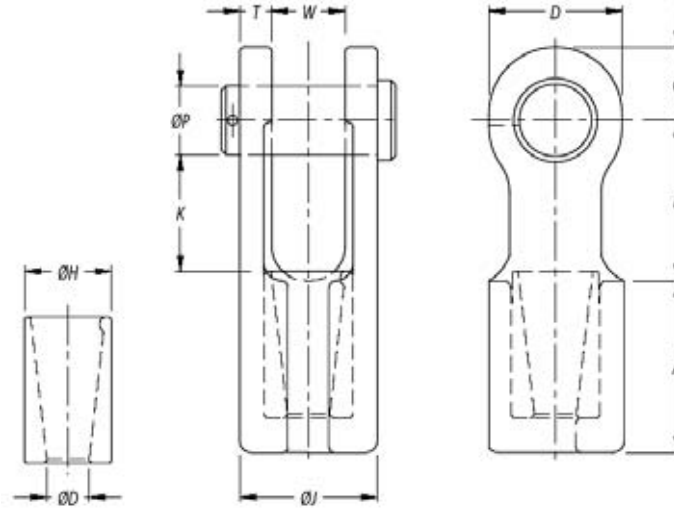
* MBL = Minimum Breaking Load.

Stock sizes thru 3/4" are galvanized, 7/8" and up are painted blue. All sizes available galvanized or painted blue upon request.

ROPEBLOCK

ALLOY CAST STEEL FAST CONNECTOR SOCKETS

Click on the warning symbol in the Table of Contents to view important warnings and information.



| Model No. | MBL* (US Tons) | For wire ø | | Dimensions (inch) | | | | | | | | | | | Weight (lbs) |
|-----------|-------------------|------------|----------|-------------------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|-----------------|
| | | (mm) | (inch) | A | B | C | øD | øP | T | W | D | øH | øJ | K | |
| FCS 701 | 22 | 11-13 | 7/16-1/2 | 2-7/16 | 2-13/32 | 1-1/16 | 19/32 | 63/64 | 15/32 | 63/64 | 1-31/32 | 1-19/64 | 1-59/64 | 1-13/16 | 3.53 |
| FCS 702 | 28 | 13-16 | 1/2-5/8 | 2-53/64 | 3-5/64 | 1-17/64 | 45/64 | 1-3/16 | 35/64 | 1-17/64 | 2-9/32 | 1-1/2 | 2-23/64 | 2-21/64 | 5.73 |
| FCS 703 | 44 | 16-19 | 5/8-3/4 | 3-11/32 | 3-21/32 | 1-37/64 | 53/64 | 1-3/8 | 5/8 | 1-1/2 | 2-3/4 | 1-49/64 | 2-3/4 | 2-23/32 | 9.92 |
| FCS 704 | 61 | 20-22 | 7/8 | 4-1/64 | 4-11/64 | 1-49/64 | 15/16 | 1-39/64 | 3/4 | 1-47/64 | 3-5/32 | 1-31/32 | 3-15/64 | 3-3/16 | 14.33 |
| FCS 705 | 83 | 23-26 | 1 | 4-17/32 | 4-27/32 | 2-23/64 | 1-7/64 | 2-1/64 | 55/64 | 2-1/64 | 4-3/32 | 2-23/64 | 3-47/64 | 3-35/64 | 24.25 |
| FCS 706 | 99 | 27-29 | 1.1/8 | 5-33/64 | 5-63/64 | 2-9/16 | 1-17/64 | 2-1/4 | 63/64 | 2-1/4 | 4-31/64 | 2-3/4 | 4-7/32 | 4-9/16 | 35.27 |
| FCS 707 | 138 | 30-32 | 1.1/4 | 5-29/32 | 6-17/64 | 2-7/8 | 1-27/64 | 2-31/64 | 1-7/64 | 2-31/64 | 4-61/64 | 3-5/32 | 4-11/16 | 4-23/32 | 39.68 |
| FCS 708 | 138 | 33-36 | 1.3/8 | 6-19/64 | 6-47/64 | 2-7/8 | 1-17/32 | 2-33/64 | 1-7/64 | 2-23/32 | 4-61/64 | 3-11/32 | 4-59/64 | 5-1/8 | 50.71 |

* MBL = Minimum Breaking Load.

Stock items are painted blue – galvanized available upon request.