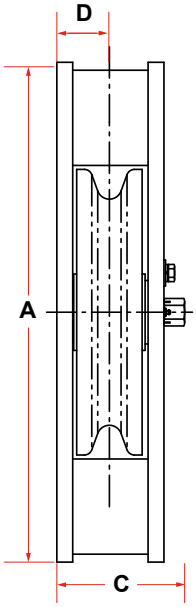
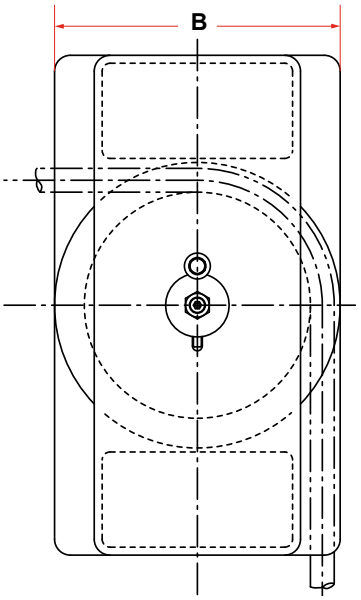
# HORIZONTAL GUIDE SHEAVES

Smith Berger

**1200 SERIES**




| MODEL NO. | MAX WIRE SIZE | WIRE BREAKING STRENGTH (LBS) | SHEVE THREAD DIA. | DIMENSIONS (INCHES) | | | | WEIGHT (LBS) |
|---|---|---|---|---|---|---|---|---|
| | | | | A | B | C | D | |
| MD-1210 | 3/4 | 58800 | 8-1/2 | 17 | 11 | 5-1/2 | 2-3/16 | 85 |
| MD-1212 | 1 | 89800 | 10 | 19 | 12 | 6-1/2 | 2-3/4 | 150 |
| MD-1214 | 1-1/4 | 159800 | 11-7/16 | 21 | 14 | 7 | 2-3/4 | 200 |
| MD-1218 | 1-1/2 | 228000 | 14-1/4 | 31-1/2 | 18 | 8 | 3-5/16 | 450 |
| MD-1222 | 1-3/4 | 266000 | 18-1/2 | 41 | 22 | 8-1/2 | 3-1/2 | 880 |
| MD-1224 | 2 | 344000 | 20 | 43 | 25 | 8-1/2 | 3-5/8 | 975 |
| MD-1230 | 2-1/4 | 494000 | 24-7/8 | 45 | 30-5/8 | 11-1/2 | 4-1/8 | 1500 |
| MD-1236 | 2-1/2 | 524000 | 30 | 55 | 37 | 13 | 5-3/4 | 2800 |
| MD-1252 | 3 | 818000 | 44 | 83-1/2 | 53 | 14 | 6-1/4 | 6000 |
| MD-1268 | 3-1/4 | 1223775 | 59-1/16 | 100 | 70 | 17 | 7 | 8000 |

## STANDARD FEATURES

- Designed for Breaking Strength of EIPS-IWRC Wire Rope with 90° Wrap on the Sheave
- Cast Steel Sheave with Hardened Rope Groove for Longer Life
- Sealed Grease Lubricated Bronze Bearings in Sheave
- Weld Down Mounting Base
- Epoxy Primer Coating

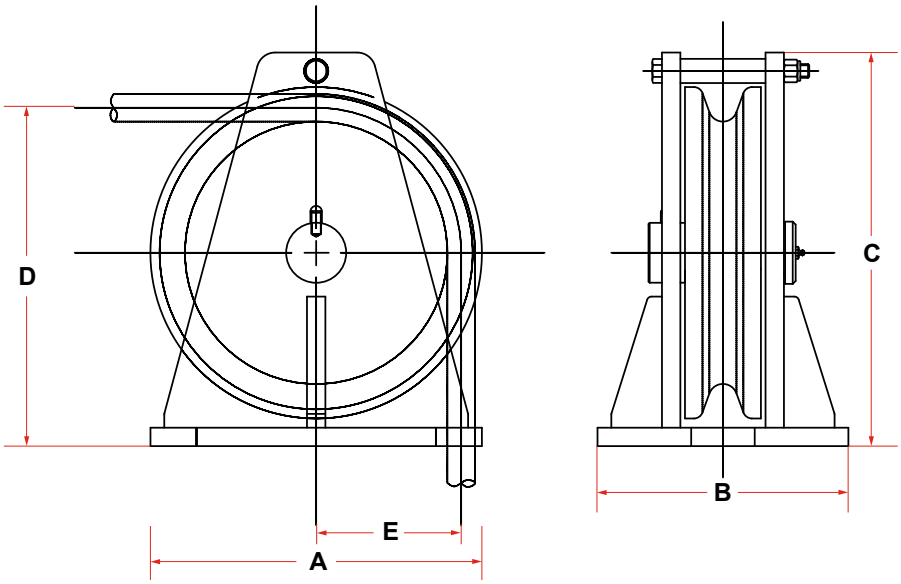
## OPTIONAL FEATURES

- Customized Design to Suit Your Application
- Multiple Sheaves
- Stainless Steel or Nylon Sheaves
- Bolt Down Mounting Base
- Load Monitoring System
- Three Coat Marine Paint System
- Third Party Certification

# VERTICAL GUIDE SHEAVES

Smith Berger

**1100 SERIES**




| MODEL NO. | MAX WIRE SIZE | WIRE BREAKING STRENGTH (LBS) | SHEVE THREAD DIA. | DIMENSIONS (INCHES) | | | | | WEIGHT (LBS) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | A | B | C | D | E | |
| MD-1110 | 3/4 | 58800 | 8-1/4 | 11 | 9 | 20-1/8 | 10-1/4 | 4-1/2 | 65 |
| MD-1112 | 1 | 103400 | 9-3/4 | 13 | 11-1/2 | 14-3/4 | 12-1/4 | 5-3/8 | 105 |
| MD-1114 | 1-1/4 | 159800 | 11-1/4 | 16 | 12 | 17-1/2 | 14-1/2 | 6-1/4 | 185 |
| MD-1118 | 1-1/2 | 228000 | 14-1/4 | 18 | 13-5/8 | 21-3/8 | 18-3/8 | 7-7/8 | 340 |
| MD-1122 | 1-3/4 | 266000 | 18-1/2 | 22 | 16 | 26 | 22-7/8 | 10-1/8 | 550 |
| MD-1124 | 2 | 344000 | 20 | 24 | 18 | 29 | 25-1/4 | 11 | 625 |
| MD-1130 | 2-1/4 | 494000 | 24-7/8 | 30 | 23 | 35-3/8 | 31-1/16 | 30-15/16 | 1250 |
| MD-1136 | 2-1/2 | 524000 | 30 | 36 | 27 | 43-1/2 | 37-3/4 | 16-1/4 | 3100 |
| MD-1152 | 3 | 818000 | 44 | 52 | 39 | 60 | 53 | 23-1/2 | 4900 |
| MD-1168 | 3-1/4 | 1223775 | 59-1/16 | 78-1/16 | 46 | 73-5/8 | 70-3/8 | 31-1/16 | 6020 |

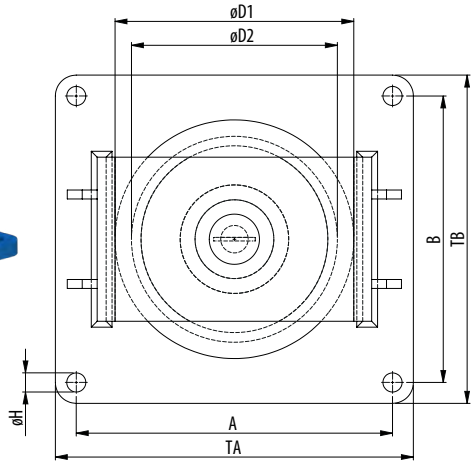
## STANDARD FEATURES

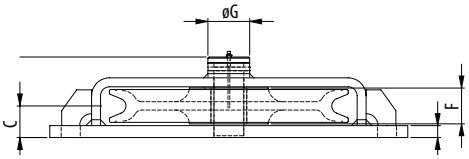
- Designed for Breaking Strength of EIPS-IWRC Wire Rope with 90° Wrap on the Sheave
- Cast Steel Sheave with Hardened Rope Groove for Longer Life
- Sealed Grease Lubricated Tapered Roller Bearings in Sheave
- Weld Down Mounting Base
- Removable Guide Roller
- Epoxy Primer Coating

## OPTIONAL FEATURES

- Customized Design to Suit Your Application
- Multiple Sheaves
- Stainless Steel or Nylon Sheaves
- Bolt Down Mounting Base
- Load Monitoring System
- Three Coat Marine Paint System
- Third Party Certification

# HORIZONTAL DIRECTIONAL BLOCKS




## BRONZE BUSHING

| MODEL NO. | WLL (USTONS) | WIRE SIZE (INCH) | BEARING | DIMENSIONS (INCH) | | | | | | | | | | | | WEIGHT (LBS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ØD1 | ØD2 | A | B | C | F | ØG | ØH | T | TA | TB | TC | |
| HLS 105.10.1.1-BR | 1.1 | 3/8 | Bronze | 4.92 | 4.13 | 7.09 | 5.91 | 0.89 | 1.06 | 0.87 | 0.35 | 0.31 | 7.87 | 6.69 | 2.13 | 5 |
| HLS 120.12.1.2-BR | 2.2 | 1/2 | Bronze | 5.91 | 4.72 | 8.66 | 7.48 | 1.22 | 1.57 | 1.18 | 0.43 | 0.39 | 9.84 | 8.66 | 2.83 | 10 |
| HLS 165.14.1.3-BR | 3.3 | 9/16 | Bronze | 7.87 | 6.50 | 11.42 | 9.45 | 1.30 | 1.57 | 1.18 | 0.53 | 0.47 | 12.60 | 10.63 | 2.99 | 17 |
| HLS 210.18.1.4-BR | 4.4 | 11/16 | Bronze | 9.84 | 8.27 | 14.17 | 12.20 | 1.52 | 1.77 | 1.38 | 0.69 | 0.59 | 15.75 | 13.78 | 3.39 | 32 |
| HLS 255.20.1.6-BR | 6.6 | 13/16 | Bronze | 11.81 | 10.04 | 15.75 | 14.17 | 1.81 | 1.97 | 1.57 | 0.87 | 0.79 | 17.72 | 16.14 | 3.90 | 50 |
| HLS 305.22.1.8-BR | 8.8 | 7/8 | Bronze | 13.78 | 12.01 | 18.11 | 16.54 | 1.81 | 1.97 | 1.77 | 1.02 | 0.79 | 20.47 | 18.90 | 3.90 | 70 |
| HLS 345.24.1.10-BR | 11.0 | 15/16 | Bronze | 15.75 | 13.58 | 20.87 | 18.90 | 2.01 | 2.36 | 1.97 | 1.26 | 0.79 | 23.62 | 21.65 | 4.45 | 100 |

Minimum Ultimate Strength = 4 x WLL

## BALL OR CYLINDRICAL ROLLER BEARING

| MODEL NO. | WLL (USTONS) | WIRE SIZE (INCH) | BEARING | DIMENSIONS (INCH) | | | | | | | | | | | | WEIGHT (LBS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ØD1 | ØD2 | A | B | C | F | ØG | ØH | T | TA | TB | TC | |
| HLS 105.10.1.1-BR | 1.1 | 3/8 | 2 x Ball | 4.92 | 4.13 | 7.09 | 5.91 | 0.89 | 1.06 | 0.87 | 0.35 | 0.31 | 7.87 | 6.69 | 2.13 | 5 |
| HLS 120.12.1.2-BR | 2.2 | 1/2 | 2 x Ball | 5.91 | 4.72 | 8.66 | 7.48 | 1.22 | 1.57 | 1.18 | 0.43 | 0.39 | 9.84 | 8.66 | 2.83 | 10 |
| HLS 165.14.1.3-BR | 3.3 | 9/16 | 2 x Ball | 7.87 | 6.50 | 11.42 | 9.45 | 1.30 | 1.57 | 1.18 | 0.53 | 0.47 | 12.60 | 10.63 | 2.99 | 17 |
| HLS 210.18.1.4-BR | 4.4 | 11/16 | Straight | 9.84 | 8.27 | 14.17 | 12.20 | 1.52 | 1.77 | 1.38 | 0.69 | 0.59 | 15.75 | 13.78 | 3.39 | 32 |
| HLS 255.20.1.6-BR | 6.6 | 13/16 | Straight | 11.81 | 10.04 | 15.75 | 14.17 | 1.81 | 1.97 | 1.57 | 0.87 | 0.79 | 17.72 | 16.14 | 3.90 | 50 |
| HLS 305.22.1.8-BR | 8.8 | 7/8 | Straight | 13.78 | 12.01 | 18.11 | 16.54 | 1.81 | 1.97 | 1.77 | 1.02 | 0.79 | 20.47 | 18.90 | 3.90 | 70 |
| HLS 345.24.1.10-BR | 11.0 | 15/16 | Straight | 15.75 | 13.58 | 20.87 | 18.90 | 2.01 | 2.36 | 1.97 | 1.26 | 0.79 | 23.62 | 21.65 | 4.45 | 100 |

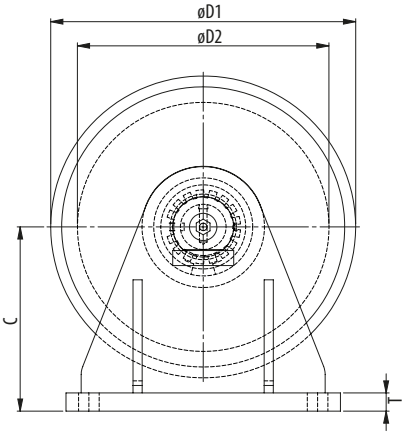
Minimum Ultimate Strength = 4 x WLL

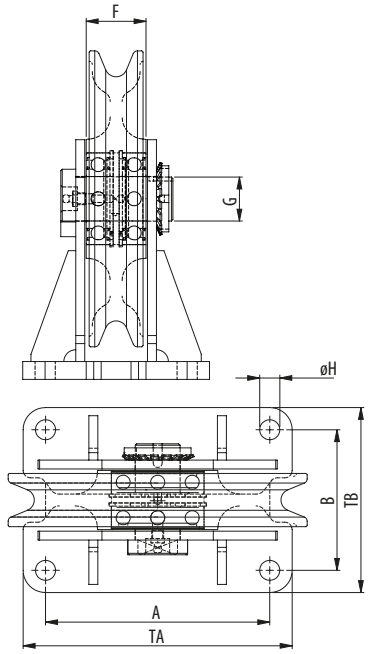
WLL= Working Load Limit on head fitting.

- The indicated WLL is valid at 180° wrap.
  The FoS may decrease in other loading conditions.

ROPEBLOCK

# VERTICAL DIRECTIONAL BLOCKS




## BRONZE BUSHING

| Model No. | WLL (UStons) | for wire ød (inch) | Bearing | Dimensions (inch) | | | | | | | | | | | Weight (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | øD1 | øD2 | A | B | C | F | G | øH | T | TA | TB | |
| VLS 105.10.1.1-BR | 1.1 | ⅜ | Bronze | 4.92 | 4.13 | 3.54 | 2.76 | 3.27 | 1.06 | 0.87 | 0.35 | 0.31 | 4.53 | 3.74 | 3 |
| VLS 120.12.1.2-BR | 2.2 | ½ | Bronze | 5.91 | 4.72 | 4.53 | 3.35 | 3.74 | 1.57 | 1.18 | 0.43 | 0.39 | 5.51 | 4.33 | 5 |
| VLS 165.14.1.3-BR | 3.3 | 9⁄16 | Bronze | 7.87 | 6.50 | 5.91 | 3.74 | 4.80 | 1.57 | 1.18 | 0.53 | 0.47 | 7.09 | 4.92 | 8 |
| VLS 210.18.1.4-BR | 4.4 | 11⁄16 | Bronze | 9.84 | 8.27 | 7.48 | 4.72 | 6.10 | 1.77 | 1.38 | 0.69 | 0.59 | 9.06 | 6.30 | 17 |
| VLS 255.20.1.6-BR | 6.6 | 13⁄16 | Bronze | 11.81 | 10.04 | 8.66 | 5.91 | 7.28 | 1.97 | 1.57 | 0.87 | 0.79 | 10.63 | 7.87 | 26 |
| VLS 305.22.1.8-BR | 8.8 | ⅞ | Bronze | 13.78 | 12.01 | 10.63 | 6.30 | 8.66 | 1.97 | 1.77 | 1.02 | 0.98 | 12.99 | 8.66 | 41 |
| VLS 345.24.1.10-BR | 11.0 | 15⁄16 | Bronze | 15.75 | 13.58 | 11.81 | 7.48 | 10.04 | 2.36 | 1.97 | 1.26 | 1.18 | 14.57 | 10.24 | 64 |

Minimum Ultimate Strength = 4 x WLL

## BALL OR CYLINDRICAL ROLLER BEARING

| Model No. | WLL (UStons) | for wire ød (inch) | Bearing | Dimensions (inch) | | | | | | | | | | | Weight (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | øD1 | øD2 | A | B | C | F | G | øH | T | TA | TB | |
| VLS 105.10.1.1 | 1.1 | ⅜ | 2 x Ball | 4.92 | 4.13 | 3.54 | 2.76 | 3.27 | 1.06 | 0.87 | 0.35 | 0.31 | 4.53 | 3.74 | 7 |
| VLS 120.12.1.2 | 2.2 | ½ | 2 x Ball | 5.91 | 4.72 | 4.53 | 3.35 | 3.74 | 1.57 | 1.18 | 0.43 | 0.39 | 5.51 | 4.33 | 11 |
| VLS 165.14.1.3 | 3.3 | 9⁄16 | 2 x Ball | 7.87 | 6.50 | 5.91 | 3.74 | 4.80 | 1.57 | 1.18 | 0.53 | 0.47 | 7.09 | 4.92 | 18 |
| VLS 210.18.1.4 | 4.4 | 11⁄16 | Straight | 9.84 | 8.27 | 7.48 | 4.72 | 6.10 | 1.77 | 1.38 | 0.69 | 0.59 | 9.06 | 6.30 | 37 |
| VLS 255.20.1.6 | 6.6 | 13⁄16 | Straight | 11.81 | 10.04 | 8.66 | 5.91 | 7.28 | 1.97 | 1.57 | 0.87 | 0.79 | 10.63 | 7.87 | 57 |
| VLS 305.22.1.8 | 8.8 | ⅞ | Straight | 13.78 | 12.01 | 10.63 | 6.30 | 8.66 | 1.97 | 1.77 | 1.02 | 0.98 | 12.99 | 8.66 | 90 |
| VLS 345.24.1.10 | 11.0 | 15⁄16 | Straight | 15.75 | 13.58 | 11.81 | 7.48 | 10.04 | 2.36 | 1.97 | 1.26 | 1.18 | 14.57 | 10.24 | 141 |

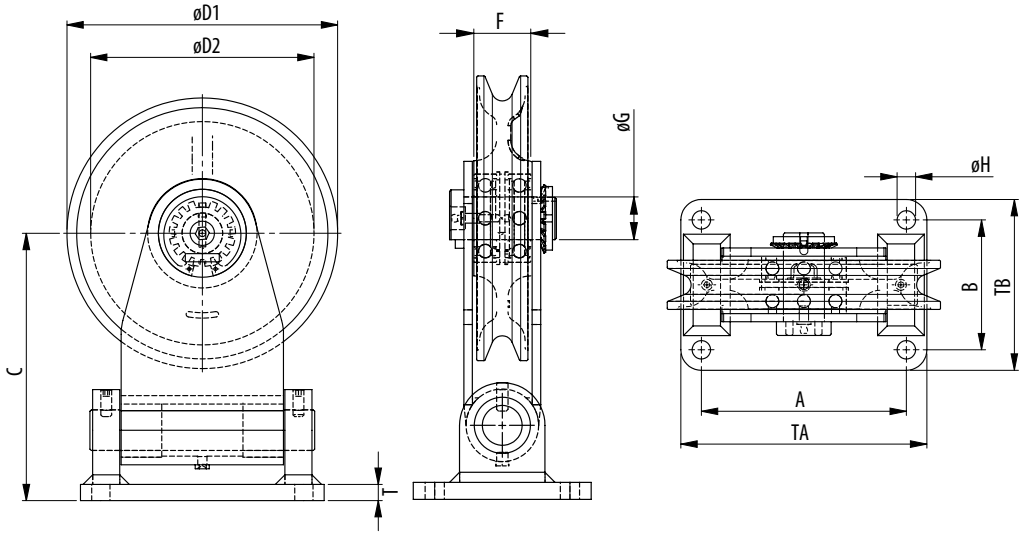
Minimum Ultimate Strength = 4 x WLL

WLL= Working Load Limit on head fitting.

- The indicated WLL is valid at 180° wrap.
  The FoS may decrease in other loading conditions.

ROPEBLOCK

# FLAG DIRECTIONAL BLOCKS




## BRONZE BUSHING

| Model No. | WLL (UStons) | for wire ød (inch) | Bearing | Dimensions (inch) | | | | | | | | | | | Weight (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | øD1 | øD2 | A | B | C | F | øG | øH | T | TA | TB | |
| FLS 105.10.1.1-BR | 1.1 | ⅜ | Bronze | 4.92 | 4.13 | 3.54 | 2.76 | 3.27 | 1.06 | 0.87 | 0.35 | 0.31 | 4.53 | 3.74 | 8 |
| FLS 120.12.1.2-BR | 2.2 | ½ | Bronze | 5.91 | 4.72 | 4.53 | 3.35 | 3.74 | 1.57 | 1.18 | 0.43 | 0.39 | 5.51 | 4.33 | 14 |
| FLS 165.14.1.3-BR | 3.3 | 9⁄16 | Bronze | 7.87 | 6.50 | 5.91 | 3.74 | 4.80 | 1.57 | 1.18 | 0.53 | 0.47 | 7.09 | 4.92 | 24 |
| FLS 210.18.1.4-BR | 4.4 | 11⁄16 | Bronze | 9.84 | 8.27 | 7.48 | 4.72 | 6.10 | 1.77 | 1.38 | 0.69 | 0.59 | 9.06 | 6.30 | 46 |
| FLS 255.20.1.6-BR | 6.6 | 13⁄16 | Bronze | 11.81 | 10.04 | 8.66 | 5.91 | 7.28 | 1.97 | 1.57 | 0.87 | 0.79 | 10.63 | 7.87 | 73 |
| FLS 305.22.1.8-BR | 8.8 | ⅞ | Bronze | 13.78 | 12.01 | 10.63 | 6.30 | 8.66 | 1.97 | 1.77 | 1.02 | 0.98 | 12.99 | 8.66 | 115 |
| FLS 345.24.1.10-BR | 11.0 | 15⁄16 | Bronze | 15.75 | 13.58 | 11.81 | 7.48 | 10.04 | 2.36 | 1.97 | 1.26 | 1.18 | 14.57 | 10.24 | 176 |

Minimum Ultimate Strength = 4 x WLL

## BALL OR CYLINDRICAL ROLLER BEARING

| Model No. | WLL (UStons) | for wire ød (inch) | Bearing | Dimensions (inch) | | | | | | | | | | | Weight (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | øD1 | øD2 | A | B | C | F | øG | øH | T | TA | TB | |
| FLS 105.10.1.1 | 1.1 | ⅜ | 2 x Ball | 4.92 | 4.13 | 3.54 | 2.76 | 3.27 | 1.06 | 0.87 | 0.35 | 0.31 | 4.53 | 3.74 | 8 |
| FLS 120.12.1.2 | 2.2 | ½ | 2 x Ball | 5.91 | 4.72 | 4.53 | 3.35 | 3.74 | 1.57 | 1.18 | 0.43 | 0.39 | 5.51 | 4.33 | 14 |
| FLS 165.14.1.3 | 3.3 | 9⁄16 | 2 x Ball | 7.87 | 6.50 | 5.91 | 3.74 | 4.80 | 1.57 | 1.18 | 0.53 | 0.47 | 7.09 | 4.92 | 24 |
| FLS 210.18.1.4 | 4.4 | 11⁄16 | Straight | 9.84 | 8.27 | 7.48 | 4.72 | 6.10 | 1.77 | 1.38 | 0.69 | 0.59 | 9.06 | 6.30 | 46 |
| FLS 255.20.1.6 | 6.6 | 13⁄16 | Straight | 11.81 | 10.04 | 8.66 | 5.91 | 7.28 | 1.97 | 1.57 | 0.87 | 0.79 | 10.63 | 7.87 | 73 |
| FLS 305.22.1.8 | 8.8 | ⅞ | Straight | 13.78 | 12.01 | 10.63 | 6.30 | 8.66 | 1.97 | 1.77 | 1.02 | 0.98 | 12.99 | 8.66 | 115 |
| FLS 345.24.1.10 | 11.0 | 15⁄16 | Straight | 15.75 | 13.58 | 11.81 | 7.48 | 10.04 | 2.36 | 1.97 | 1.26 | 1.18 | 14.57 | 10.24 | 176 |

Minimum Ultimate Strength = 4 x WLL

WLL= Working Load Limit on head fitting.

- The indicated WLL is valid at 180° wrap and 0° swing. The FoS may decrease in other loading conditions.

ROPEBLOCK