

GRADE 100 ALLOY TABLE OF CONTENTS

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Grade 100 Alloy Lifting Chain

Produced to exceed the rigorous requirements of overhead lifting.

Manufactured from a super high quality alloy steel that allows for 25 % higher working load limit (WLL) than comparable Grade 80 Alloy Chain.





| G 100 Chain Size | Nominal D Inch | | WLL (lbs) | Footage | Weight 100 ft | Product Code | | | | | |
|---------------------|-------------------|------|--------------|---------|------------------|-----------------|--|--|--|--|--|
| | Α | В | | | | | | | | | |
| Full Drums | | | | | | | | | | | |
| 9/32" | 0.88 | 0.41 | 4,300 | 800 | 72 | 38150018 | | | | | |
| 5/16" | 1.02 | 0.48 | 5,700 | 500 | 106 | 38150020 | | | | | |
| 3/8" | 1.22 | 0.57 | 8,800 | 400 | 150 | 38150024 | | | | | |
| 1/2" | 1.56 | 0.75 | 15,000 | 200 | 261 | 38150032 | | | | | |
| 5/8" | 1.93 | 0.92 | 22,600 | 150 | 361 | 38150040 | | | | | |

Material High grade Ni-Cr-Mo Alloy Chain

Finish Blue Powder Coated

Elongation Min 20 %

Design Factor 4:1 In accordance with NACM Specifications

WARNING: NEVER EXCEED WORKING LOAD LIMITS!

LOAD RATINGS ARE FOR CHAINS IN 'NEW CONDITION'!

INSPECT LIFTING CHAINS REGULARLY AND

REPLACE ALL COMPONENTS SHOWING SIGNS OF WEAR!



Grade 100 Clevis Grab Hooks

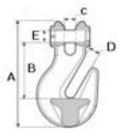
Easily attaches to Grade 100 chain with pin and cotter.

Approved for overhead lifting, when all components are grade 100.

25 % higher WLL than grade 80.



| Grab | Hooks | | Nominal Diameter | | | | | | | |
|-------|--------|-------|------------------|-----------|------|------|------|--------|------|-----------|
| Grad | e 100 | | | Inches | | | | | | |
| С | ode | Chain | Α | A B C D E | | | | | Lbs. | Product |
| | | Size | | | | | | | Pc | Code |
| V-190 | CFX-07 | 9/32" | 3.88 | 2.57 | 0.39 | 0.39 | 0.35 | 4,300 | 0.97 | 395000163 |
| | CFX-08 | 5/16" | 3.88 | 2.56 | 0.35 | 0.39 | 0.39 | 5,700 | 0.97 | 395000203 |
| V-191 | CFX-10 | 3/8" | 4.69 | 3.15 | 0.47 | 0.51 | 0.51 | 8,800 | 2.12 | 395000243 |
| V-192 | CFX-13 | 1/2" | 5.88 | 4.15 | 0.59 | 0.67 | 0.63 | 15,000 | 4.63 | 395000323 |
| V-193 | CFX-16 | 5/8" | 7.03 | 4.40 | 0.71 | 0.75 | 0.82 | 22,600 | 7.50 | 395000403 |



Design Factor: 4:1

| Spare | Parts | | | | |
|-------|----------|------|---------|----------|--|
| Grab | & Slip H | Load | Product | | |
| Code | | | Pin | Code | |
| V-90 | CFX-07 | | 9/32" | 39506016 | |
| | CFX-08 | | 5/16" | 39506020 | |
| V-91 | CFX-10 | | 3/8" | 39506024 | |
| V-92 | CFX-13 | | 1/2" | 39506032 | |
| V-93 | CFX-16 | | 5/8" | 39506040 | |



| Cotter | Product | | | | | |
|--------|----------|--|--|--|--|--|
| Pin | Code | | | | | |
| 9/32" | 39506016 | | | | | |
| 5/16" | 39506020 | | | | | |
| 3/8" | 39506024 | | | | | |
| 1/2" | 39506032 | | | | | |
| 5/8" | 39506040 | | | | | |

WARNING: NEVER EXCEED WORKING LOAD LIMITS!

Do not use lesser than Grade 100 components for any lifting application! Do not use chains or accessories with signs of wear or deformation!

VANGUARD STEEL LTD.



Grade 100 Clevis Slip Hooks & Latch Kit

Easily attaches to Grade 100 chain with pin and cotter. Approved for overhead lifting, when all components are grade 100. 25 % higher WLL than grade 80.





| Slip H Grade | | | | Dimensions Inches | | | | | | |
|-----------------|--------|-------|------|----------------------|------|------|------|--------|------|-----------|
| | odes | Chain | Α | | | | | WLL | Lbs. | Product |
| | | Size | | | | | | lbs. | Pc. | Code |
| V-190 | CBX-07 | 9/32" | 5.51 | 1.10 | 0.37 | 1.02 | 0.35 | 4,300 | 1.21 | 395100163 |
| | CBX-08 | 5/16" | 5.51 | 1.10 | 0.37 | 1.02 | 0.39 | 5,700 | 1.21 | 395100203 |
| V-191 | CBX-10 | 3/8" | 6.50 | 1.30 | 0.47 | 1.22 | 0.39 | 8,800 | 2.20 | 395100243 |
| V-192 | CBX-13 | 1/2" | 8.03 | 1.57 | 0.59 | 1.57 | 0.49 | 15,000 | 3.75 | 395100323 |
| V-193 | CBX-16 | 5/8" | 9.33 | 1.89 | 0.71 | 1.77 | 0.78 | 22,600 | 7.05 | 395100403 |

Design Factor: 4:1



| Repla | Replacement Cast Latch | | | | | | | | | | | |
|-------|------------------------|-------|--|-----|------|-----------|--|--|--|--|--|--|
| Grade | Grade 100 | | | | | | | | | | | |
| С | ode | Chain | | We | ight | Product | | | | | | |
| | | Size | | lb | s. | Code | | | | | | |
| V-190 | CKSX-07 | 9/32" | | 0.0 | 08 | 396100162 | | | | | | |
| | CKSX-08 | 5/16" | | 0.0 | 08 | 396100202 | | | | | | |
| V-191 | CKSX-10 | 3/8" | | 0. | 10 | 396100242 | | | | | | |
| V-192 | CKSX-13 | 1/2" | | 0. | 12 | 396100322 | | | | | | |
| V-193 | CKSX-16 | 5/8" | | 0.3 | 35 | 396100402 | | | | | | |

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Grade 100 Connecting Links

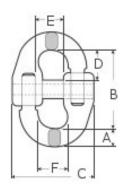
Fast, easy assembly without the need for special tools or skills.

Designed for attaching hooks, master links and other end fittings to Grade 100 alloy chain Suitable for overhead lifting, when all components are grade 100.

25 % higher WLL than grade 80.



| Con. L | .inks | | | Dimensions | | | | | | | |
|--------|--------|-------|------|------------|------|------|------|------|---------|------|-----------|
| Grade | 80 | | | | Inch | es | | | | | |
| Co | des | Chain | Α | В | С | F | WLL | Lbs. | Product | | |
| | | Size | | | | | | | lbs. | Pc | Code |
| V-160 | CLX-07 | 9/32" | 0.39 | 2.01 | 1.83 | 0.79 | 0.63 | 0.75 | 4,300 | 0.26 | 395600163 |
| | CLX-08 | 5/16" | 0.45 | 2.44 | 2.09 | 0.98 | 0.71 | 0.91 | 5,700 | 0.40 | 395600203 |
| V-161 | CLX-10 | 3/8" | 0.50 | 2.83 | 2.50 | 1.18 | 0.91 | 1.06 | 8,800 | 0.73 | 395600243 |
| V-162 | CLX-13 | 1/2" | 0.75 | 3.46 | 3.11 | 1.42 | 1.06 | 1.34 | 15,000 | 1.54 | 395600323 |
| V-163 | CLX-16 | 5/8" | 0.83 | 4.06 | 4.17 | 1.57 | 1.30 | 1.54 | 22,600 | 2.51 | 395600403 |
| V-164 | CLX-20 | 3/4" | 1.14 | 4.45 | 4.82 | 1.81 | 1.64 | 1.85 | 35,300 | 4.52 | 395600483 |
| V-165 | CLX-22 | 7/8" | 1.18 | 5.24 | 5.28 | 2.17 | 1.90 | 2.17 | 42,700 | 6.83 | 395600563 |



Design Factor: 4:1

| Con. Links Collars Grade 80 | | | | | | | | | | |
|-----------------------------|--------|-------|----------|--|--|--|--|--|--|--|
| Co | ode | Hook | Product | | | | | | | |
| | | Size | Code | | | | | | | |
| V-160 | CLX-07 | 9/32" | 39500516 | | | | | | | |
| | CLX-08 | 5/16" | 39500520 | | | | | | | |
| V-161 | CLX-10 | 3/8" | 39500524 | | | | | | | |
| V-162 | CLX-13 | 1/2" | 39500532 | | | | | | | |
| V-163 | CLX-16 | 5/8" | 39500540 | | | | | | | |
| V-164 | CLX-20 | 3/4" | 39500548 | | | | | | | |
| V-165 | CLX-22 | 7/8" | 39500556 | | | | | | | |



| Load | | | | | | | | |
|-------|----------|--|--|--|--|--|--|--|
| Pins | | | | | | | | |
| Hook | Product | | | | | | | |
| Size | Code | | | | | | | |
| 9/32" | 39505016 | | | | | | | |
| 5/16" | 39505020 | | | | | | | |
| 3/8" | 39505024 | | | | | | | |
| 1/2" | 39505032 | | | | | | | |
| 5/8" | 39505040 | | | | | | | |
| 3/4" | 39505048 | | | | | | | |
| 7/8" | 39505056 | | | | | | | |
| | | | | | | | | |



Do not use lesser than Grade 100 components for any lifting application!

Do not use chains or accessories with signs of wear or defor-

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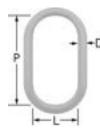
5 Grade 100 4



Grade 100 Master Links

Approved for overhead lifting, when all components are grade 100. 25 % higher WLL than grade 80.





| Maste | er L | ink | | | Dimensions | | | | | | |
|-------|------|-----------------------|--------|--------|------------|-------|------|-----------|--------|--------|-----------|
| Grade | e 10 | 00 No F | .S. | Inches | | | | | | | |
| | Code | Code Size Chain Sling | | | ng & Type | | | | WLL | Weight | Product |
| | | | | Single | Double | D | L | Ρ | lbs. | lbs. | Code |
| VML-1 | 32 | AX-13 | 1/2" | 9/32 | 7/32 | 1/2 | 2.36 | 4.33 | 4,700 | 0.80 | 395300323 |
| VML-1 | 40 | AX-16 | 5/8" | 5/16 | 9/32 | 5/8 | 2.36 | 4.33 | 8,600 | 1.55 | 395300403 |
| VML-1 | 48 | AX-18 | 3/4" | 3/8 | 5/16 | 3/4 | 2.95 | 5.31 | 12,900 | 2.70 | 395300483 |
| VML-1 | 56 | AX-22 | 7/8" | 1/2 | 3/8 | 7/8 | 3.62 | 6.50 | 17,600 | 3.31 | 395300563 |
| VML-1 | 100 | AX-26 | 1" | 5/8 | 1/2 | 1 | 3.94 | 7.09 | 30,000 | 5.30 | 395301003 |
| VML-1 | 116 | AX-32 | 1-1/4" | 3/4 | 5/8" | 1-1/4 | 4.33 | 7.87 | 38,200 | 9.75 | 395301163 |
| VML-1 | 132 | AX-36 | 1-1/2" | 7/8 | 5/8" | 1-1/2 | 5.51 | 10.2 4 | 50,200 | 18.00 | 395301323 |

Design Factor 4:1

MASTER LINKS AND SUB-ASSEMBLIES (incl. sub links) INDIVIDUALLY PROOF TESTED PER ASTM 906/952 PRESCRIBED LOADS.

WARNING: NEVER EXCEED WORKING LOAD LIMITS!

Do not use lesser than Grade 100 components for any lifting applica-

tion!

Do not use chains or accessories with signs of wear or deformation!

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6 Grade 100 5



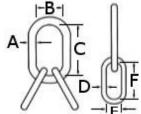
Grade 100 Master Link Sub-Assemblies

For Triple and Quad branch slings.

Approved for overhead lifting, when all components are grade 100. 25 % higher WLL than grade 80.



| Master | Link | | Nominal Diameter | | | | | | | |
|---------------------|------------|--------|---------------------------|-------|------|-------|------|-------------|---------|-----------|
| Sub Assembly Inches | | | | | | | | | | |
| Code | Chain | Ma | Master Link Coupling Link | | | | WLL | Lbs. | Product | |
| | Size | Α | В | O | D | D E F | | (lbs @ 60°) | Pc. | Code |
| VSA-107 | 9/32" | 3/4" | 3.540 | 5.91 | 0.51 | 0.98 | 2.13 | 11,200 | 2.65 | 395400483 |
| VSA-108 | 9/32+5/16" | 7/8" | 3.540 | 6.30 | 0.63 | 1.34 | 2.76 | 15,200 | 4.88 | 395400563 |
| VSA-108 | 3/8" | 1" | 3.940 | 7.09 | 0.71 | 1.57 | 3.35 | 26,000 | 5.07 | 395401003 |
| VSA-110 | 1/2" | 1-1/4" | 4.330 | 7.87 | 0.87 | 1.97 | 4.53 | 39,000 | 7.85 | 395401163 |
| VSA-113 | 5/8" | 1-1/2" | 5.510 | 10.24 | 1.02 | 2.56 | 5.51 | 58,700 | 22.05 | 395401323 |



Design Factor 4:1

MASTER LINKS AND SUB-ASSEMBLIES (incl. sub links) INDIVIDUALLY PROOF TESTED PER ASTM 906/952 PRESCRIBED LOADS.

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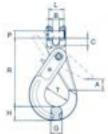
Grade 100 6 7



Grade 100 Self Locking Clevis SL Hooks

Easily attaches to Grade 100 chain with pin and cotter. Approved for overhead lifting, when all components are grade 100. 25 % higher WLL than grade 80.





| - | SL Clevis | | | | Di | mensi | | | | | | | |
|---|-------------------|---------|-------|---------------|------|-------|------|------|------|------|--------|---------|-----------|
| | Grade 100 Code | | Chain | A B C G H R T | | | | | | WLL | Lbs. | Product | |
| | | | Size | | | | | | | | lbs. | Рс | Code |
| ĺ | VSC-107/8 | CRFX-07 | 9/32" | 1.34 | 0.35 | 0.39 | 0.79 | 1.02 | 4.84 | 1.69 | 4,300 | 2.09 | 396200163 |
| | | CRFX-08 | 5/16" | 1.77 | 0.35 | 0.39 | 0.79 | 1.02 | 4.84 | 1.69 | 5,700 | 2.09 | 396200203 |
| | VSC-110 | CRFX-10 | 3/8" | 1.77 | 0.47 | 0.55 | 0.98 | 1.18 | 5.63 | 2.20 | 8,800 | 3.53 | 396200243 |
| | VSC-113 | CRFX-13 | 1/2" | 2.01 | 0.59 | 0.67 | 1.38 | 1.57 | 7.09 | 2.72 | 15,000 | 7.05 | 396200323 |
| | VSC-116 | CRFX-16 | 5/8" | 2.36 | 0.75 | 0.75 | 1.42 | 1.97 | 8.46 | 3.15 | 22,600 | 13.23 | 396200403 |

Design Factor 4:1



| | Trigger K | | Product |
|---|-----------|----------|----------|
| | SL Hook | | Code |
| | | | |
| | VTK-107/8 | CKSLX-08 | 39693016 |
| | VTK-110 | CKSLX-10 | 39693024 |
| Ī | VTK-113 | CKSLX-13 | 39693032 |
| ĺ | VTK-116 | CKSLX-16 | 39693040 |

WARNING: NEVER EXCEED WORKING LOAD LIMITS!

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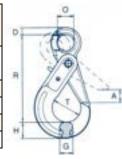
Grade 100 Self Locking Eye SL Hooks

For Triple and Quad branch slings.

Approved for overhead lifting, when all components are grade 100. 25 % higher WLL than grade 80.



| SL Eye | Dimensions | | | | | | | | | | | |
|------------|------------|-------|------|------|------|------|------|------|------|--------|-------|-----------|
| Grade 100 | Inches | | | | | | | | | | | |
| Code Chain | | | Α | D | G | Н | 0 | R | Т | WLL | Lbs. | Product |
| | | Size | | | | | | | | lbs. | Pc | Code |
| VSL-107/8 | CROX-08 | 9/32" | 1.34 | 0.47 | 0.79 | 1.02 | 0.98 | 5.31 | 1.69 | 5,700 | 2.12 | 396400163 |
| VSL-110 | CROX-10 | 3/8" | 1.77 | 0.63 | 0.98 | 1.18 | 1.30 | 6.61 | 2.20 | 8,800 | 3.64 | 396400243 |
| VSL-113 | CROX-13 | 1/2" | 2.01 | 0.79 | 1.38 | 1.57 | 1.57 | 8.07 | 2.72 | 15,000 | 7.16 | 396400323 |
| VSL-116 | CROX-16 | 5/8" | 2.36 | 1.06 | 1.42 | 1.97 | 1.97 | 9.88 | 3.15 | 22,600 | 13.45 | 396400403 |



Design Factor 4:1

| Trigger K | it | Product | | | | |
|-----------|----------|----------|--|--|--|--|
| SL Hook | | Code | | | | |
| | | | | | | |
| VTK-107/8 | CKSLX-08 | 39693016 | | | | |
| VTK-110 | CKSLX-10 | 39693024 | | | | |
| VTK-113 | CKSLX-13 | 39693032 | | | | |
| VTK-116 | CKSLX-16 | 39693040 | | | | |



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Grade 100 Self Locking Swivel SL Hooks

Easily attaches to Grade 100 chain with pin and cotter. Approved for overhead lifting, when all components are grade 100. 25 % higher WLL than grade 80.



4:1



| SL Swi | | Dimensions Inches | | | | | | | | | |
|---------|------------|----------------------|------|------|------|------|------|------|--------|-------|----------|
| Code | Chain | R | Α | В | 0 | D | G | H | WLL | Lbs. | Product |
| | Size | | | | | | | | | Pc | Code |
| VSC-7/8 | 9/32-5/16" | 7.17 | 1.34 | 1.06 | 1.42 | 0.51 | 0.73 | 1.02 | 5,700 | 2.42 | 39660016 |
| VSC-10 | 3/8" | 8.54 | 1.77 | 1.38 | 1.65 | 0.63 | 0.98 | 1.18 | 8,800 | 4.40 | 39660024 |
| VSC-13 | 1/2" | 10.67 | 2.13 | 1.69 | 1.97 | 0.83 | 1.38 | 1.57 | 15,000 | 8.80 | 39660032 |
| VSC-16 | 5/8" | 12.60 | 2.44 | 2.28 | 2.44 | 0.94 | 1.50 | 1.97 | 22,600 | 14.96 | 39660040 |

Design Factor:



| riiggei ixit | | Floduci |
|--------------|----------|----------|
| SL Hook | | Code |
| | | |
| VTK-107/8 | CKSLX-08 | 39693016 |
| VTK-110 | CKSLX-10 | 39693024 |
| VTK-113 | CKSLX-13 | 39693032 |
| VTK-116 | CKSLX-16 | 39693040 |

WARNING: NEVER EXCEED WORKING LOAD LIMITS!

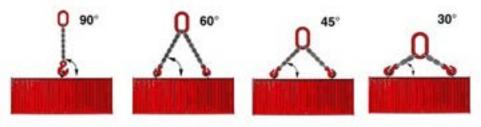
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Grade 100 Chain Working Load Limit



| Chain | Single | | Double | | Triple/Quad | | | | |
|----------|--------|--------|--------|--------|-------------|--------|--------|--|--|
| Size 90° | | 60° | 45° | 30° | 60° | 45° | 30° | | |
| | | | | | | | | | |
| 9/32" | 4,300 | 7,400 | 6,100 | 4,300 | 11,200 | 9,100 | 6,400 | | |
| 5/16" | 5,700 | 9,900 | 8,100 | 5,700 | 14,800 | 12,100 | 8,500 | | |
| 3/8" | 8,800 | 15,200 | 12,400 | 8,800 | 22,900 | 18,700 | 13,200 | | |
| 1/2" | 15,000 | 26,000 | 21,200 | 15,000 | 39,000 | 31,800 | 22,500 | | |
| 5/8" | 22,600 | 39,100 | 32,000 | 22,600 | 58,700 | 47,900 | 33,900 | | |

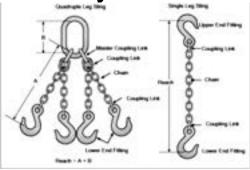
Grade 100 Component Selection Guide

| | | | Hooks | | | | | |
|-------------|-------|--------|---------|----------|-------|-------|-------|-------|
| Sling | Chain | Maste | er Link | Coupling | | | Eye | Eye |
| Type | Size | Oblong | Sub Ass | Link | Grab | Slip | Grab | Sling |
| | | | | | | | | |
| Single | | 1/2" | | | | | | |
| Double | 9/32" | 5/8" | | 9/32" | 9/32" | 9/32" | 9/32" | 9/32" |
| Triple/Quad | | | 3/4" | | | | | |
| Single | | 5/8" | | | | | | |
| Double | 5/16" | 3/4" | | 5/16" | 5/16" | 5/16" | 5/16" | 5/16" |
| Triple/Quad | | | 7/8" | | | | | |
| Single | | 3/4" | | | | | | |
| Double | 3/8" | 7/8" | | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" |
| Triple/Quad | | | 1" | | | | | |
| Single | | 7/8" | | | | | | |
| Double | 1/2" | 1" | | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" |
| Triple/Quad | | | 1-1/4" | | | | | |
| Single | | 1" | | | | | | |
| Double | 5/8" | 1-1/2" | | 5/8" | 5/8" | 5/8" | 5/8" | 5/8" |
| Triple/Quad | | | | | | | | |

Working Load Limit - 4 to 1 design factor



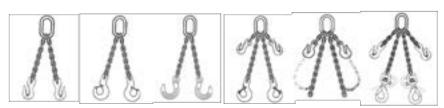
Various Styles of Chain Slings



Single Leg Type Slings



Double Leg Type Slings



Triple Leg Type Slings

Quadruple Type Leg Slings









Basket Type





Calculate the WLL of lifting Chain angles

To determine the angle WLL of a lifting chain find the WLL at 90°

At 60° Multiply by 0.8660 For Each leg x Number of legs for WLL of Sling
At 45° Multiply by 0.7071 For Each leg x Number of legs for WLL of Sling
At 30° Multiply by 0.5000 For Each leg x Number of legs for WLL of Sling

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General Warnings

All Vanguard rigging products are sold with the express understanding that both the purchaser and the end user are thoroughly familiar with the safe, proper and acceptable applications of the products.

It is the responsibility of the end user to establish proper safety programs and to provide thorough training for all personnel prior to use. The training programs must meet any federal/provincial/state/local code requirements, existing plant/site safety rules and regulations, and all instructions provided in the applicable section of this catalogue. Product failure can occur due to abuse, misapplication, lack of maintenance, use by unqualified personnel and improper inspection prior to use. Any failure of rigging products may result in property damage, personal injury and even death!!!!

Standards

There are numerous government and industrial standards that cover rigging products. This catalogue makes no attempt to reference all of them; it references to the standards that are most frequently asked about.

Working Load Limit (WLL) - Safe Working Load (SWL)

The Working Load Limits shown in this catalogue are applicable to products that are new or "in as new" condition. The Working Load Limits ratings refer to the maximum amount of force or load that the rigging product can carry under normal working/environmental conditions. The Working Load Limits and Design Factory can be affected by wear, misuse, overloading, shock loading, side loading, corrosion, deformation, product alteration and other use conditions. Inspection of rigging products prior to use is required to determine whether the product continues to meet the assigned WLL provided in this catalogue, should be used at a reduced rating or removed from service.

The WLL rating must never be exceeded!!!!



General information disclaimer

The contents contained in this publication are for general information only.

Although every effort has been made to assure the accuracy of the information at time of print, persons who use the Catalog should note that ratings, laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication.

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It is the responsibility of each person who uses this Catalog to ascertain current information that pertains to the individual lifting program, particularly with regard to satisfactory safety compliance requirements. Check your Provincial and Local safety standards before any operation or lift is attempted.

It is the responsibility of the person/operator to frequently search for updated reference information.

Do not use lesser than matching Grade components for any lifting application! Do not use Slings, Chains or Accessories with signs of wear or deformation!

Inspections - Each day before being used, the sling and all fastenings and attachments shall be inspected for damage or defects by a competent person designated by the employer. Additional inspections shall be performed during sling use where service conditions warrant. Damaged or defective slings shall be immediately removed from service.