



GENERAL HARDWARE



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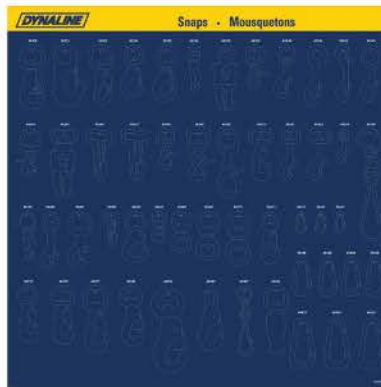
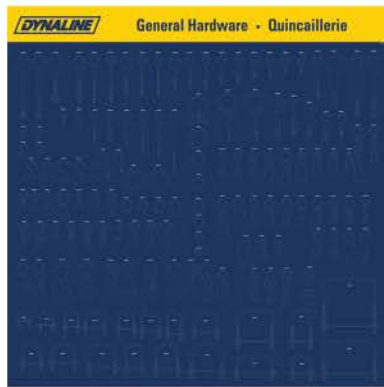
General Hardware



Your Trusted Source.

Dynaline General Hardware Merchandisers

Dynaline offers merchandisers for almost every product. Merchandisers keep your stock organized, visible and easy to shop.



General Hardware Merchandiser

| PART# | CONTENTS |
|--------|---|
| 01081 | General Hardware Backdrop Only , 48" x 48" |
| 01081K | Full General Hardware Planogram . Includes 01081 and the products. |

i Full product breakdown on page 41

Snaps Merchandiser

| PART# | CONTENTS |
|--------|--|
| 00448 | Snaps Display Board Only , 24" x 24" |
| 00448K | Full Snaps Merchandiser . Includes 00448 display board, 52 pegs (80004) and products. |

i Full product breakdown on page 43

Eyebolts & Rings Merchandiser

| PART# | CONTENTS |
|--------|---|
| 00611 | Eyebolts & Rings Display Board Only , 24" x 24" |
| 00611K | Full Eyebolts & Rings Merchandiser . Includes 00611 display board, 47 pegs (80004) and the products. |

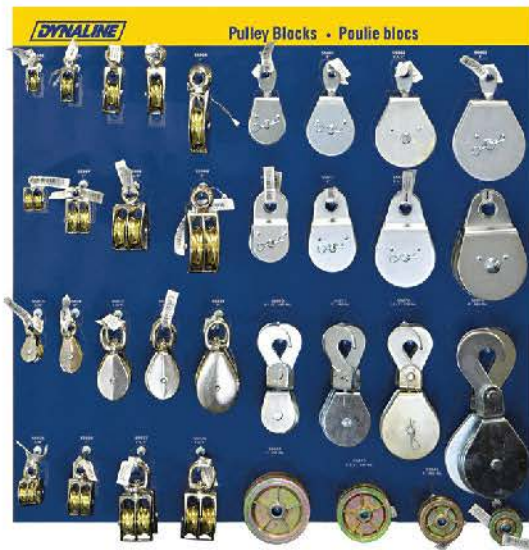
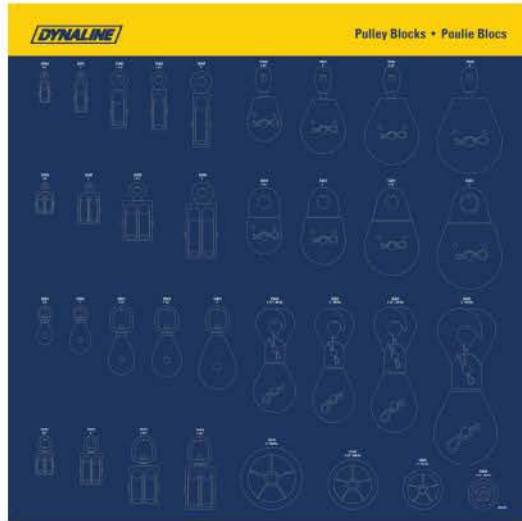
i Full product breakdown on page 44

Sizes are approximate. Specifications subject to change without notice.



Legend: □ 12x24 □ 24x24 ▢ Plan-O-Gram ▣ Rack/End Cap ○○○ Other



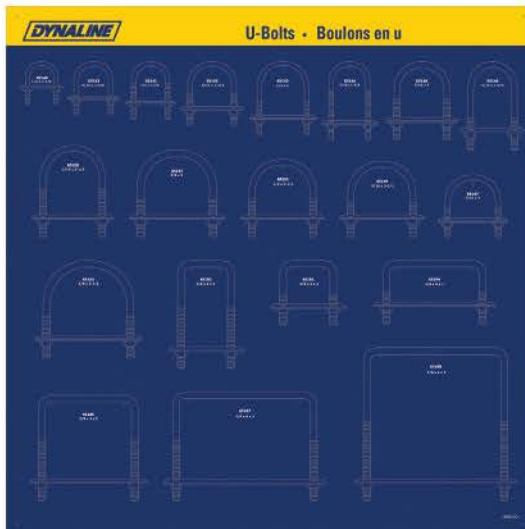


Pulley Blocks Merchandiser

| PART# | CONTENTS |
|---------------|--|
| 00334 | Pulley Blocks Display Board Only , 24" x 24" |
| 00334K | Full Pulley Blocks Merchandiser . Includes 00334 display board, 34 pegs (80004) and the products. |



i Full product breakdown on page 46



U-Bolts Merchandiser

| PART# | CONTENTS |
|---------------|--|
| 00612 | U-Bolts Display Board Only , 24" x 24" |
| 00612K | Full U-Bolts Merchandiser . Includes 00612 display board, 26 pegs (80004) and the products. |

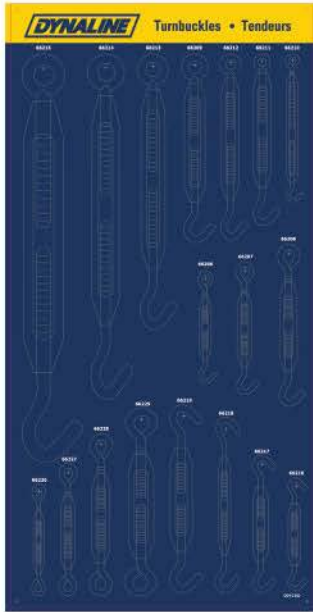


i Full product breakdown on page 45

Sizes are approximate. Specifications subject to change without notice.



General Hardware



Turnbuckles Merchandiser - General Purpose

| PART# | CONTENTS |
|--------|---|
| 00416 | Turnbuckles Display Board Only , 12" x 24" |
| 00416K | Full General Purpose Turnbuckles Merchandiser. Includes 00416 display board, 19 pegs (80004) and products. |

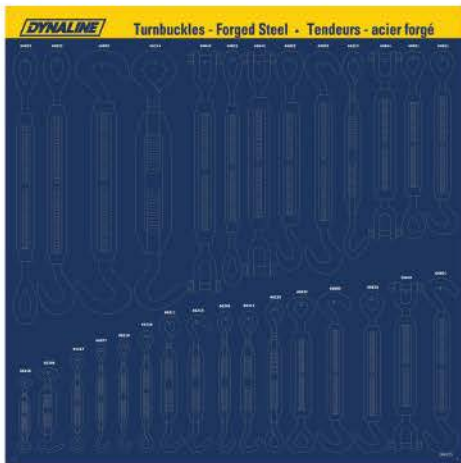
i Full product breakdown on page 48



Aluminum Pulleys Merchandiser

| PART# | CONTENTS |
|--------|---|
| 00335 | Aluminum Pulley Display Boards Only , two 24" x 24" |
| 00335K | Full Aluminum Pulleys Merchandiser. Includes two 00335 display boards, 36 pegs (80004) and the products below: |

i Full product breakdown on page 47



Turnbuckles Merchandiser - Forged Steel

| PART# | CONTENTS |
|--------|--|
| 00417 | Forged Steel Turnbuckles Display Board Only , 24" x 24" |
| 00417K | Full Forged Steel Turnbuckles Merchandiser. Includes 00417 display board, 30 pegs (80004) and products. |

i Full product breakdown on page 48

Sizes are approximate. Specifications subject to change without notice.

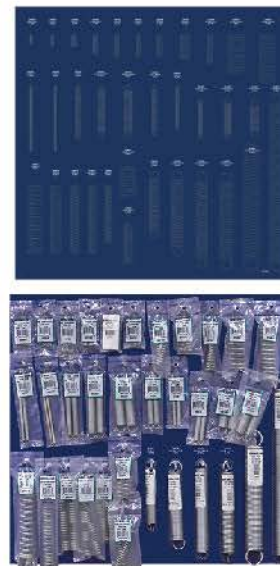
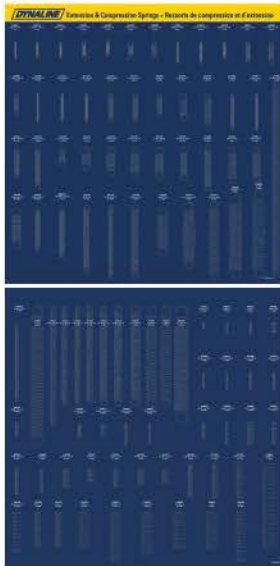




Snaps Merchandiser

| PART# | CONTENTS |
|---------------|--|
| 00447 | Snaps Display Board Only, 12" x 24" |
| 00447K | Full Snaps Merchandiser. Includes 00447 display board, 33 pegs (80004) and products. |

i Full product breakdown on page 50



Springs Merchandiser - Retail Packaged

| PART# | CONTENTS |
|---------------|--|
| 00242 | Springs Display Boards Only. Includes two 24" x 24" full color boards. |
| 00242K | Full Springs Merchandiser. Includes 00242 display boards, 100 pegs (80004) and products. |

i Full product breakdown on page 51

Springs - Expanded Selection 1

| PART# | CONTENTS |
|---------------|---|
| 00244 | Springs Display Board Only, 24" x 24" |
| 00244K | Full Springs Merchandiser Expansion 1 for 00242K. Includes 00242 display board, 34 pegs (80004) and products. |

i Full product breakdown on page 52

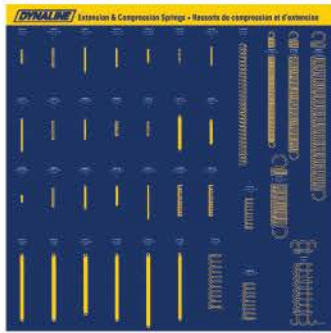
Sizes are approximate. Specifications subject to change without notice

Legend: 12x24 24x24 Plan-O-Gram Rack/End Cap Other





General Hardware



Springs - Expanded Selection 2

| PART# | CONTENTS |
|--------|--|
| 00248 | Springs Display Board Only , 24" x 24" |
| 00248K | Full Springs Merchandiser Expansion 2 for 00242K. Includes 00248 display board, 36 pegs (80004) and products. |

Full product breakdown on page 52



Retainer Rings Merchandiser

| PART# | CONTENTS |
|--------|--|
| 00245 | Retainer Rings Display Board Only , 24" x 24" |
| 00245K | Full Retainer Rings Merchandiser. Includes 00245 display board, cornice hooks (65043) and products. |

Full product breakdown on page 53



Machinery Bushings Merchandiser

| PART# | CONTENTS |
|--------|--|
| 00235 | Machinery Bushings Display Board Only , 12" x 24" |
| 00235K | Full Machinery Bushings Merchandiser. Includes 00235 display board, 39 pegs (80004) and products. |

Full product breakdown on page 55



Keystock



00285

| PART# | CONTENTS |
|-------|---|
| 00285 | Keystock Bin only. 8 compartments, made of durable blue plastic. Dimensions: 10" x 9-1/8" x 1-1/2" |



00255K

| PART# | CONTENTS |
|--------|--|
| 00255K | Full Square Keystock Merchandiser. 37 pieces, 12" long / 6 part #'s. Includes 00285 Keystock Bin. |

| PART# | CONTENTS |
|--------|---|
| 00265K | Full Rectangular Keystock Merchandiser. 37 pieces, 12" long / 8 part #'s. Includes 00285 Keystock Bin. |

| PART# | CONTENTS |
|--------|---|
| 00275K | Full Step Keystock Merchandiser. 16 pieces, 12" long / 8 part #'s. Includes 00285 Keystock Bin |

Full product breakdown on page 55

Sizes are approximate. Specifications subject to change without notice.



Retainer Rings Tilt Bins Merchandiser

| PART# | CONTENTS |
|-------|----------|
|-------|----------|

00746K Full Retainer Rings Tilt Bin Merchandiser. Dimensions: 23-5/8" x 2-1/2" x 26-1/2"
Includes Tilt Bins, assembly hardware and the products.

i Full product breakdown on page 54

For empty tilt bins, see the end of this merchandiser section.

General Hardware Bulk Merchandiser

| PART# | CONTENTS |
|-------|----------|
|-------|----------|

00028 Bulk Display Rack Only - 72" x 32" x 24" - 7 shelves

00034K Full Merchandiser. 255 part #'s, 1930 pieces. Includes: 4 sign headers, bulk bin interlocking displays, bin labels.

i Full product breakdown on page 10



Sizes are approximate. Specifications subject to change without notice.





Solid - Die Cast Aluminum Pulleys

Single groove for 3L, 4L or "A" belts. Supplied with 5/16" x 1/2" UNC set screws.



| PART# | OUTSIDE DIAMETER | BORE | KEYWAY | PART# | OUTSIDE DIAMETER | BORE | KEYWAY |
|--------------------------------|------------------|------|--------|--------------------------------|------------------|------|--------|
| <input type="checkbox"/> 55400 | 1-1/2" | 1/2" | No | <input type="checkbox"/> 55413 | 3" | 3/4" | Yes |
| <input type="checkbox"/> 55401 | 1-1/2" | 5/8" | No | <input type="checkbox"/> 55414 | 3-1/2" | 1/2" | No |
| <input type="checkbox"/> 55402 | 2" | 1/2" | No | <input type="checkbox"/> 55415 | 3-1/2" | 5/8" | Yes |
| <input type="checkbox"/> 55403 | 2" | 5/8" | Yes | <input type="checkbox"/> 55416 | 3-1/2" | 3/4" | Yes |
| <input type="checkbox"/> 55404 | 2" | 3/4" | Yes | <input type="checkbox"/> 55417 | 4" | 1/2" | No |
| <input type="checkbox"/> 55405 | 2-1/4" | 1/2" | No | <input type="checkbox"/> 55418 | 4" | 5/8" | Yes |
| <input type="checkbox"/> 55406 | 2-1/4" | 5/8" | Yes | <input type="checkbox"/> 55419 | 4" | 3/4" | Yes |
| <input type="checkbox"/> 55407 | 2-1/4" | 3/4" | Yes | <input type="checkbox"/> 55420 | 4-1/2" | 1/2" | No |
| <input type="checkbox"/> 55408 | 2-1/2" | 1/2" | No | <input type="checkbox"/> 55421 | 4-1/2" | 5/8" | Yes |
| <input type="checkbox"/> 55409 | 2-1/2" | 5/8" | Yes | <input type="checkbox"/> 55422 | 4-1/2" | 3/4" | Yes |
| <input type="checkbox"/> 55410 | 2-1/2" | 3/4" | Yes | <input type="checkbox"/> 55423 | 5" | 1/2" | No |
| <input type="checkbox"/> 55411 | 3" | 1/2" | No | <input type="checkbox"/> 55424 | 5" | 5/8" | Yes |
| <input type="checkbox"/> 55412 | 3" | 5/8" | Yes | <input type="checkbox"/> 55425 | 5" | 3/4" | Yes |

Spoked - Die Cast Aluminum Pulleys



| PART# | OUTSIDE DIAMETER | BORE | KEYWAY | PART# | OUTSIDE DIAMETER | BORE | KEYWAY |
|--------------------------------|------------------|------|--------|--------------------------------|------------------|------|--------|
| <input type="checkbox"/> 55426 | 6" | 1/2" | No | <input type="checkbox"/> 55430 | 7" | 5/8" | Yes |
| <input type="checkbox"/> 55427 | 6" | 5/8" | Yes | <input type="checkbox"/> 55431 | 7" | 3/4" | Yes |
| <input type="checkbox"/> 55428 | 6" | 3/4" | Yes | <input type="checkbox"/> 55433 | 8" | 5/8" | Yes |
| <input type="checkbox"/> 55429 | 7" | 1/2" | No | <input type="checkbox"/> 55434 | 8" | 3/4" | Yes |

Variable Speed - Die Cast Aluminum Pulleys

Solid type. For "A" & "B" belts. Opening the pulley increases the speed at which it rotates. Supplied with set screws.



| PART# | OUTSIDE DIAMETER | BORE | KEYWAY |
|--------------------------------|------------------|------|--------|
| <input type="checkbox"/> 55490 | 3-1/4" | 1/2" | No |
| <input type="checkbox"/> 55491 | 3-1/4" | 5/8" | Yes |
| <input type="checkbox"/> 55492 | 3-1/4" | 3/4" | Yes |

Single Fixed - Die Cast Awning Pulleys



| PART# | PULLEY DIAMETER | ROPE DIAMETER | EYE DIAMETER | W.L.L. |
|--------------------------------|-----------------|---------------|--------------|--------|
| <input type="checkbox"/> 55900 | 3/4" | up to 3/16" | 3/16" | 65 lb |
| <input type="checkbox"/> 55901 | 1" | up to 1/4" | 1/4" | 110 lb |
| <input type="checkbox"/> 55902 | 1-1/4" | up to 3/8" | 3/8" | 165 lb |
| <input type="checkbox"/> 55903 | 1-1/2" | up to 3/8" | 3/8" | 220 lb |
| <input type="checkbox"/> 55904 | 2" | up to 1/2" | 1/2" | 330 lb |

Sizes are approximate. Specifications subject to change without notice.



Double Fixed - Die Cast Awning Pulleys

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| PART# | PULLEY DIAMETER | ROPE DIAMETER | EYE DIAMETER | W.L.L. |
|-------|-----------------|---------------|--------------|--------|
| 55906 | 3/4" | up to 3/16" | 3/16" | 65 lb |
| 55907 | 1" | up to 1/4" | 3/16" | 110 lb |
| 55908 | 1-1/2" | up to 3/8" | 3/8" | 220 lb |
| 55909 | 2" | up to 1/2" | 1/2" | 330 lb |



Single Swivel - Die Cast Awning Pulleys

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| PART# | PULLEY DIAMETER | ROPE DIAMETER | EYE DIAMETER | W.L.L. |
|-------|-----------------|---------------|--------------|--------|
| 55915 | 3/4" | up to 3/16" | 1/2" | 65 lb |
| 55916 | 1" | up to 1/4" | 7/16" | 110 lb |
| 55917 | 1-1/4" | up to 3/8" | 13/16" | 165 lb |
| 55918 | 1-1/2" | up to 3/8" | 13/16" | 220 lb |
| 55919 | 2" | up to 1/2" | 13/16" | 330 lb |



Double Swivel - Die Cast Awning Pulleys

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| PART# | PULLEY DIAMETER | ROPE DIAMETER | EYE DIAMETER | W.L.L. |
|-------|-----------------|---------------|--------------|--------|
| 55925 | 3/4" | up to 3/16" | 7/16" | 65 lb |
| 55926 | 1" | up to 1/4" | 7/16" | 110 lb |
| 55927 | 1-1/4" | up to 3/8" | 13/16" | 165 lb |
| 55928 | 1-1/2" | up to 3/8" | 13/16" | 220 lb |



Swivel - Steel Pulley Blocks

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| PART# | SHEAVE DIAMETER | LENGTH | ROPE DIAMETER | EYE DIAMETER | W.L.L. |
|-------|-----------------|--------|---------------|--------------|--------|
| 55800 | 1-1/2" | 3-1/2" | up to 3/8" | 3/8" | 460 lb |
| 55801 | 2" | 4" | up to 3/8" | 3/8" | 480 lb |
| 55802 | 2-1/2" | 4-1/2" | up to 3/8" | 3/8" | 550 lb |
| 55803 | 3" | 4-3/4" | up to 1/2" | 3/8" | 650 lb |



Fixed - Steel Pulley Blocks

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-
-

| PART# | SHEAVE DIAMETER | LENGTH | ROPE DIAMETER | EYE DIAMETER | W.L.L. |
|-------|-----------------|--------|---------------|--------------|--------|
| 55810 | 1-1/2" | 3-1/4" | up to 3/8" | 1/2" | 420 lb |
| 55811 | 2" | 3-3/4" | up to 3/8" | 1/2" | 480 lb |
| 55812 | 2-1/2" | 4-1/4" | up to 3/8" | 1/2" | 550 lb |
| 55813 | 3" | 4-3/4" | up to 3/8" | 3/4" | 650 lb |



Sizes are approximate. Specifications subject to change without notice.



Swivel Eye - Steel Pulley Blocks (Deuer Type)

| PART# | DIAMETER | LENGTH | MAXIMUM CABLE DIAMETER | EYE DIAMETER | W.L.L. |
|-------|----------|--------|------------------------|--------------|--------|
| 55850 | 1-1/2" | 3-1/2" | 3/16" | 3/8" | 460 lb |
| 55851 | 2" | 4-1/2" | 3/16" | 3/8" | 480 lb |
| 55852 | 2-1/2" | 5" | 1/4" | 3/8" | 550 lb |
| 55853 | 3" | 4-3/4" | 1/4" | 3/8" | 650 lb |



Fixed Eye - Steel Pulley Blocks (Deuer Type)

| PART# | DIAMETER | LENGTH | MAXIMUM CABLE DIAMETER | EYE DIAMETER | W.L.L. |
|-------|----------|--------|------------------------|--------------|--------|
| 55860 | 1-1/2" | 3-1/4" | 3/16" | 1/2" | 420 lb |
| 55861 | 2" | 3-3/4" | 3/16" | 1/2" | 480 lb |
| 55862 | 2-1/2" | 4-1/4" | 1/4" | 1/2" | 550 lb |
| 55863 | 3" | 4-3/4" | 1/4" | 3/4" | 650 lb |



Double Hook With Swivel Eye - Steel Pulley Blocks (Deuer Type)

| PART# | DIAMETER | LENGTH | MAXIMUM CABLE DIAMETER | W.L.L. |
|--------------------------------|----------|--------|------------------------|--------|
| <input type="checkbox"/> 55870 | 1-1/2" | 5" | 3/16" | 460 lb |
| <input type="checkbox"/> 55871 | 2" | 5-1/2" | 3/16" | 480 lb |
| <input type="checkbox"/> 55872 | 2-1/2" | 6" | 1/4" | 550 lb |
| <input type="checkbox"/> 55873 | 3" | 7-1/2" | 1/4" | 650 lb |



Single Hook - Steel Pulley Blocks (Deuer Type)

| PART# | DIAMETER | LENGTH | MAXIMUM CABLE DIAMETER | W.L.L. |
|-------|----------|--------|------------------------|--------|
| 55880 | 1-1/2" | 5" | 3/16" | 460 lb |
| 55881 | 2" | 5-1/2" | 3/16" | 480 lb |
| 55882 | 2-1/2" | 6" | 1/4" | 550 lb |
| 55883 | 3" | 7-1/2" | 1/4" | 650 lb |

Sizes are approximate. Specifications subject to change without notice.



Replacement Sheaves

For heavy duty pulley blocks. Bronze bushing bore.

| PART# | SHEAVE DIAMETER | BORE SIZE | W.L.L. |
|-------|-----------------|-----------|--------|
| 55890 | 1-1/2" | 5/16" | 460 lb |
| 55891 | 2" | 5/16" | 480 lb |
| 55892 | 2-1/2" | 5/16" | 550 lb |
| 55893 | 3" | 5/16" | 650 lb |
| 55840 | 1-1/2" | 5/16" | 420 lb |
| 55841 | 2" | 5/16" | 480 lb |
| 55842 | 2-1/2" | 5/16" | 550 lb |
| 55843 | 3" | 7/16" | 650 lb |



Stake Hooks - Stake Rack Hardware

Ductile iron. Clear zinc plated finish. Rockwell hardness: 5.4 – 18 (HRC).

| PART# | DESCRIPTION | PIN LENGTH | PIN DIAMETER |
|-------|-------------|------------|--------------|
| 23050 | Left-Hand | 3" | 9/16" |
| 23051 | Right-Hand | 3" | 9/16" |
| 23052 | Left-Hand | 6" | 9/16" |
| 23053 | Right-Hand | 6" | 9/16" |



Stake Eye - Stake Rack Hardware

| PART# | EYE INSIDE DIAMETER |
|-------|---------------------|
| 23054 | 5/8" |



Stake Pocket

| PART# | DESCRIPTION |
|--------|---|
| 102395 | Stake pocket, 1-1/2" x 3-1/4" opening x 2-1/4" high powder coat finish, black |



S-Hooks

Clear zinc plated finish.

| BAG PACKAGE | | DYNAPAK PACKAGE | | WIRE DIAMETER | OVERALL LENGTH |
|-------------|------------------|-----------------|------------------|----------------|----------------|
| PART# | PACKAGE QUANTITY | PART # | PACKAGE QUANTITY | | |
| 66230 | 10 | 96230 | 10 | 0.093" (3/32") | 1" |
| 66232 | 10 | 96232 | 10 | 0.105" (7/64") | 1-3/32" |
| 66234 | 10 | 96234 | 10 | 0.120" (1/8") | 1-3/8" |
| 66235 | 10 | 96235 | 10 | 0.162" (5/32") | 1-1/2" |
| 66236 | 10 | 96236 | 6 | 0.141" (9/64") | 2-1/8" |
| 66238 | 10 | 96238 | 6 | 0.250" (1/4") | 2-5/8" |
| 66239 | 10 | 96239 | 6 | 0.188" (3/16") | 3" |





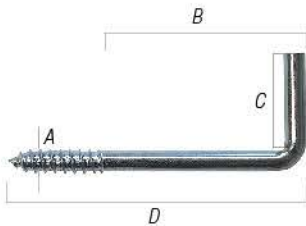
Sizes are approximate. Specifications subject to change without notice.



Tarp Hooks

Zinc plated formed steel.

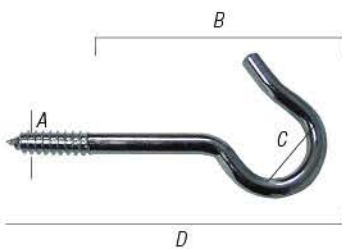
| PART# | WIRE DIAMETER | OVERALL LENGTH | PACKAGE QUANTITY |
|--|---------------|----------------|------------------|
|  66423 | 3/8" | 3-1/2" | 10 |
|  66424 | 1/4" | 2-1/2" | 10 |



Cornice Hooks

Clear zinc plated finish.

| PART# | A | B | C | D | PACKAGE QUANTITY |
|--------------|-------|--------|--------|----------|------------------|
| 65040 | 9/32" | 1-3/4" | 1" | 3-1/16" | 10 |
| 65041 | 3/16" | 1-5/8" | 7/8" | 2-5/8" | 10 |
| 65042 | 5/32" | 1-3/8" | 13/16" | 2-1/4" | 10 |
| 65043 | 1/8" | 1-1/8" | 11/16" | 1-13/16" | 10 |
| 65044 | 3/32" | 3/4" | 1/2" | 1-3/8" | 10 |



Screw Hooks

Clear zinc plated finish.

| PART# | A | A (DECIMAL) | B | C | C (DECIMAL) | D | PACKAGE QUANTITY |
|--------------|-------|-------------|---------|---------|-------------|----------|------------------|
| 65070 | 1/4" | 0.25" | 3-1/16" | 1-1/32" | 1.03 | 4-5/16" | 10 |
| 65071 | 7/32" | 0.21" | 3-3/16" | 1" | 25.4 | 4-7/16" | 10 |
| 65072 | 3/16" | 0.19" | 2-5/8" | 27/32" | 84.38 | 3-7/8" | 10 |
| 65073 | 5/32" | 0.158" | 2-1/8" | 11/16" | 17.44 | 3-3/8" | 10 |
| 65074 | 1/8" | 0.138" | 2-9/16" | 1/2" | 13.2 | 2-9/16" | 10 |
| 65075 | 7/64" | 0.112" | 2-1/16" | 13/32" | 0.41 | 2-1/16" | 10 |
| 65076 | 3/32" | 0.086" | 1-1/16" | 9/32" | 0.28 | 1-11/16" | 10 |
| 65077 | 5/64" | 0.073" | 3/4" | 15/16" | 0.94 | 1-5/16" | 10 |

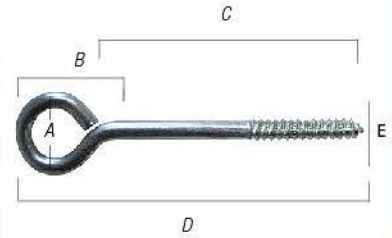
Sizes are approximate. Specifications subject to change without notice.



Lagscrew Eyebolts

Clear zinc plated finish.

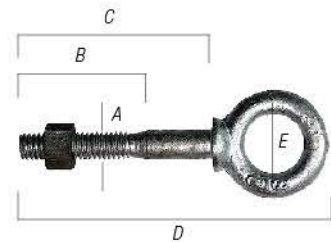
| | PART# | A | B | C | D | E | PACKAGE QUANTITY |
|--|--------------|-------|----------|--------|--------|------|------------------|
| | 65161 | 1/4" | 1-5/16" | 2-3/4" | 3-3/4" | 1/2" | 10 |
| | 65162 | 1/4" | 1-7/8" | 4" | 5" | 1/2" | 10 |
| | 65163 | 5/16" | 1-7/8" | 2-3/4" | 4" | 5/8" | 10 |
| | 65164 | 5/16" | 1-7/8" | 4-3/4" | 6" | 5/8" | 10 |
| | 65165 | 3/8" | 1-15/16" | 3" | 4-1/2" | 3/4" | 10 |
| | 65166 | 3/8" | 2-7/8" | 6-1/2" | 8" | 3/4" | 10 |



Shoulder Eyebolts

Forged steel. Galvanized finish. Supplied with nut. Sold individually.

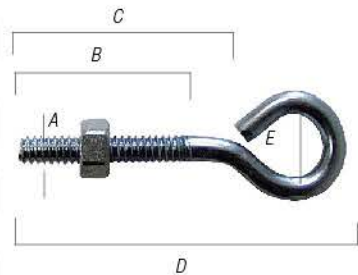
| | PART# | A | B | C | D | E | W.L.L. |
|--|--------------|-------|--------|--------|--------|--------|----------|
| | 66100 | 1/4" | 1-1/2" | 2" | 3" | 1/2" | 500 lb |
| | 66101 | 5/16" | 1-1/2" | 2-1/4" | 3-1/2" | 5/8" | 800 lb |
| | 66102 | 3/8" | 1-1/2" | 2-1/2" | 4" | 3/4" | 1,200 lb |
| | 66103 | 1/2" | 1-1/2" | 3-1/4" | 5-1/4" | 1" | 2,200 lb |
| | 66104 | 5/8" | 1-3/4" | 4" | 6-1/2" | 1-1/4" | 3,500 lb |
| | 66105 | 1/4" | 2-1/2" | 4" | 5" | 1/2" | 500 lb |
| | 66106 | 5/16" | 2-1/2" | 4-1/4" | 5-1/2" | 5/8" | 800 lb |
| | 66107 | 3/8" | 2-1/2" | 6" | 7-1/2" | 3/4" | 1,200 lb |
| | 66108 | 1/2" | 3" | 6" | 7-3/4" | 1" | 2,200 lb |



Eyebolts

Wire Formed. Supplied with Nut. Zinc plated finish.

| | PART# | A | B | C | D | E | PACKAGE QUANTITY |
|--|--------------|-------|---------|--------|--------|--------|------------------|
| | 65102 | 3/16" | 1" | 1-3/8" | 2" | 3/8" | 10 |
| | 65104 | 3/16" | 1-5/8" | 1-3/4" | 2-1/2" | 3/8" | 10 |
| | 65106 | 1/4" | 1" | 1" | 2" | 9/16" | 10 |
| | 65107 | 1/4" | 1-3/8" | 1-1/2" | 2-1/2" | 9/16" | 10 |
| | 65108 | 1/4" | 1-3/4" | 2" | 3" | 9/16" | 10 |
| | 65109 | 1/4" | 2-3/4" | 3" | 4" | 9/16" | 10 |
| | 65110 | 1/4" | 3" | 4" | 5" | 9/16" | 10 |
| | 65111 | 1/4" | 3" | 5" | 6" | 9/16" | 10 |
| | 65112 | 5/16" | 1-3/4" | 2" | 3-1/4" | 3/4" | 10 |
| | 65113 | 5/16" | 2-3/16" | 2-1/2" | 4" | 3/4" | 10 |
| | 65114 | 5/16" | 3" | 3-1/2" | 5" | 3/4" | 10 |
| | 65115 | 5/16" | 3" | 4-1/2" | 6" | 3/4" | 10 |
| | 65117 | 3/8" | 2" | 2-1/4" | 4" | 1" | 10 |
| | 65118 | 3/8" | 3" | 3-1/4" | 5" | 1" | 10 |
| | 65119 | 3/8" | 3" | 4-1/4" | 6" | 1" | 10 |
| | 65120 | 3/8" | 3" | 6-1/4" | 8" | 1" | 10 |
| | 65123 | 1/2" | 3" | 3-3/4" | 6" | 1-1/4" | 10 |
| | 65124 | 1/2" | 3" | 5-3/4" | 8" | 1-1/4" | 10 |



Sizes are approximate. Specifications subject to change without notice.

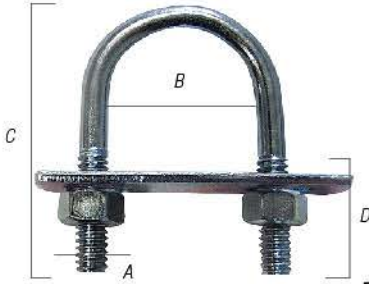
Legend: 12x24 24x24 Plan-0-Gram Rack/End Cap Other



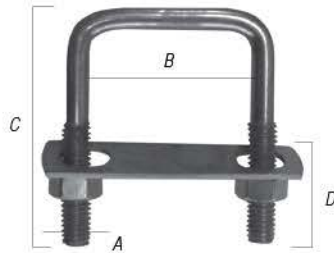


U-Bolts - Round

Q235 Steel-Grade 2. Supplied with 3/32" mounting plate & nuts. Clear zinc plated. 10 pieces per package. UNC threading (coarse).



| PART# | A | B | C | D | THREADS / INCH | PIPE |
|-------|-------|--------|----------|--------|----------------|--------|
| 65140 | 1/4" | 1-1/8" | 2" | 1" | 20 | 3/4" |
| 65141 | 1/4" | 1-3/8" | 2-3/4" | 1-1/4" | 20 | 1" |
| 65142 | 1/4" | 2" | 3-1/2" | 1-3/4" | 20 | 1-1/2" |
| 65143 | 5/16" | 1-3/8" | 2-1/2" | 1" | 18 | 1" |
| 65144 | 5/16" | 1-3/8" | 3-11/16" | 2-3/8" | 18 | 1" |
| 65145 | 5/16" | 1-3/4" | 3" | 1-1/2" | 18 | 1-1/4" |
| 65146 | 5/16" | 1-3/4" | 4-3/16" | 2-3/4" | 18 | 1-1/4" |
| 65147 | 5/16" | 2" | 3" | 1-1/2" | 18 | 1-1/2" |
| 65148 | 5/16" | 2" | 3-3/4" | 2-1/8" | 18 | 1-1/2" |
| 65149 | 5/16" | 2-1/2" | 3-1/2" | 1-1/2" | 18 | 2" |
| 65150 | 5/16" | 2-1/2" | 4-3/16" | 2-3/8" | 18 | 2" |
| 65151 | 3/8" | 2-1/2" | 3-5/8" | 1-3/4" | 16 | 2" |
| 65152 | 3/8" | 3" | 4-1/8" | 1-3/4" | 16 | 2-1/2" |
| 65153 | 3/8" | 3-1/2" | 4-5/8" | 2" | 16 | 3" |



U-Bolts - Square

Q235 Steel-Grade 2. Supplied with 3/32" mounting plate & nuts. Clear zinc plated. 5 pieces per package. UNC Threading (coarse).

| PART# | A | B | C | D |
|-------|------|----|----|--------|
| 65181 | 3/8" | 2" | 3" | 1-1/2" |
| 65182 | 3/8" | 2" | 5" | 3" |
| 65184 | 3/8" | 4" | 3" | 1-1/2" |
| 65185 | 3/8" | 4" | 5" | 3" |
| 65187 | 3/8" | 6" | 5" | 3" |
| 65188 | 3/8" | 6" | 7" | 3-3/4" |



65172



65177



65178

Mounting Rings

Clear zinc plated. 10 pieces per package.

| PART# | DESCRIPTION | PIN DIAMETER | THREAD LENGTH | RING I.D. | ADDITIONAL INFORMATION |
|-------|--------------------------------|--------------|---------------|-----------|----------------------------------|
| 65172 | 4-1/4" Eyebolt Length | 3/8" | 2-1/2" | 2" | Supplied with nut |
| 65177 | 4-1/2" Lagscrew Eyebolt Length | 5/16" | 2" | 2" | N/A |
| 65178 | 2" x 1-9/16" Mounting Plate | | | 2" | Mounting holes are 1/4" Diameter |

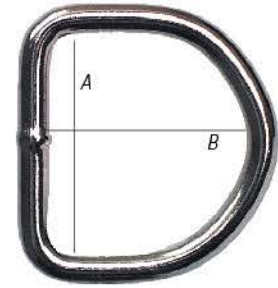
Sizes are approximate. Specifications subject to change without notice.

D-Rings

| | PART# | WIRE DIAMETER | A | B | PACKAGE QUANTITY |
|--|--------------|---------------|---------|--------|------------------|
| | 66173 | 1/8" | 1" | 7/8" | 10 |
| | 66174 | 1/8" | 1-1/8" | 7/8" | 10 |
| | 66175 | 5/32" | 1-5/16" | 1" | 10 |
| | 66176 | 5/32" | 1-5/8" | 1-1/8" | 10 |

Heavy Duty D-Rings

| | PART# | WIRE DIAMETER | A | B | PACKAGE QUANTITY |
|--|--------------|---------------|----|--------|------------------|
| | 66178 | 5/16" | 2" | 1-3/4" | 10 |
| | 66179 | 3/8" | 2" | 1-7/8" | 10 |



Split Key Rings

| | PART# | WIRE DIAMETER | INSIDE DIAMETER | OUTSIDE DIAMETER | PACKAGE QUANTITY |
|--|--------------|---------------|-----------------|------------------|------------------|
| | 66180 | 0.066" | 5/8" | 3/4" | 10 |
| | 66182 | 0.075" | 27/32" | 1" | 10 |
| | 66184 | 0.087" | 1-5/64" | 1-1/4" | 10 |



Harness Ring

| | PART# | WIRE DIAMETER | INSIDE DIAMETER | OUTSIDE DIAMETER | PACKAGE QUANTITY |
|--|--------------|---------------|-----------------|------------------|------------------|
| | 66390 | 3/16" | 1-1/4" | 1-5/8" | 5 |



Welded Steel Ring

| | PART# | WIRE DIAMETER | INSIDE DIAMETER | OUTSIDE DIAMETER | W.L.L. | PACKAGE QUANTITY |
|--|--------------|---------------|-----------------|------------------|--------|------------------|
| | 66410 | 1/4" | 1" | 1-1/2" | 200 lb | 10 |
| | 66411 | 5/16" | 1-1/8" | 1-3/4" | 250 lb | 10 |
| | 66412 | 7/32" | 1-9/16" | 2" | 200 lb | 10 |



Hook & Eye Turnbuckles (Wire Formed Ends)

For light duty applications. Zinc die cast bodies. Zinc plated steel wire formed ends. 10 pieces per package.

| | PART# | THREAD | OVERALL LENGTH CLOSED | OVERALL LENGTH OPEN | A | B | C | W.L.L. | U.L.L. |
|--|--------------|--------|-----------------------|---------------------|-------|-------|----------|--------|----------|
| | 66206 | 7/32" | 4-1/2" | 6-1/2" | 3/8" | 5/16" | 2" | 120 lb | 350. lb |
| | 66207 | 1/4" | 5-3/8" | 7-11/16" | 7/16" | 3/8" | 2-3/8" | 190 lb | 570 lb |
| | 66208 | 5/16" | 6-1/2" | 9-5/16" | 7/16" | 9/16" | 2-13/16" | 290 lb | 875 lb |
| | 66209 | 3/8" | 7-1/2" | 10-5/8" | 5/8" | 9/16" | 3-1/8" | 375 lb | 1,125 lb |



Sizes are approximate. Specifications subject to change without notice.

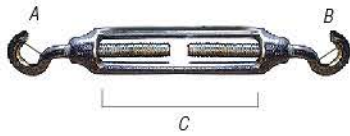
Legend: 12x24 24x24 Plan-O-Gram Rack/End Cap Other





Hook & Hook Turnbuckles (Wire Formed Ends)

For light duty applications. Zinc die cast bodies. Zinc plated steel wire formed ends. 10 pieces per package.



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| PART# | THREAD | OVERALL LENGTH CLOSED | OVERALL LENGTH OPEN | A, B | C | W.L.L. | U.L.L. |
|-------|--------|-----------------------|---------------------|-------|----------|--------|----------|
| 66216 | 7/32" | 4-1/2" | 6-1/2" | 5/16" | 2" | 120 lb | 350 lb |
| 66217 | 1/4" | 5-1/2" | 7-9/16" | 7/16" | 2-3/8" | 190 lb | 570 lb |
| 66218 | 5/16" | 6-1/2" | 6-1/4" | 7/16" | 2-13/16" | 340 lb | 1,020 lb |
| 66219 | 3/8" | 7" | 10-5/8" | 1/2" | 3-1/8" | 400 lb | 1,200 lb |

Eye & Eye

For light duty applications. Zinc die cast bodies. Zinc plated steel wire formed ends. 10 pieces per package.

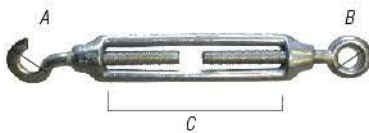


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| PART# | THREAD | OVERALL LENGTH CLOSED | OVERALL LENGTH OPEN | A, B | C | W.L.L. | U.L.L. |
|-------|--------|-----------------------|---------------------|-------|--------|--------|----------|
| 66226 | 3/16" | 4-1/2" | 6-1/2" | 3/8" | 2" | 120 lb | 350 lb |
| 66227 | 1/4" | 5-1/2" | 7-9/16" | 3/8" | 2-3/8" | 190 lb | 570 lb |
| 66228 | 5/16" | 6-1/2" | 9-1/4" | 7/16" | 2-3/4" | 340 lb | 1,020 lb |
| 66229 | 3/8" | 7" | 10-5/8" | 1/2" | 3-1/8" | 400 lb | 1,200 lb |

Hook & Eye Turnbuckles (Malleable Iron)

Malleable iron bodies and forged steel ends. Hot dipped galvanized finish.



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| PART# | THREAD | OVERALL LENGTH CLOSED | OVERALL LENGTH OPEN | A, B | C | W.L.L. | U.L.L. |
|-------|--------|-----------------------|---------------------|--------|---------|----------|----------|
| 66210 | 6mm | 5-3/16" | 8-1/16" | 3/8" | 2-3/4" | 132 lb | 396 lb |
| 66211 | 8mm | 6-1/2" | 9-1/16" | 7/16" | 3-9/16" | 264 lb | 792 lb |
| 66212 | 10mm | 7-5/16" | 10-1/4" | 15/32" | 3-3/4" | 396 lb | 1,188 lb |
| 66213 | 12mm | 10-7/16" | 16" | 19/32" | 5-1/2" | 726 lb | 2,178 lb |
| 66214 | 16mm | 13-3/8" | 19-11/16" | 3/4" | 7-1/8" | 1,320 lb | 3,960 lb |
| 66215 | 20mm | 15-3/4" | 22-1/16" | 1" | 8-1/4" | 1,980 lb | 5,940 lb |

Hook & Hook Turnbuckles (Forged Steel)

Forged steel bodies & ends. Hot dipped galvanized finish. Features a lock nut on each end. Meets Spec. FF-T791b, Type 1, Form 1, Class 5.



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| PART# | THREAD | OVERALL LENGTH CLOSED | OVERALL LENGTH OPEN | A, B | C | W.L.L. | U.L.L. |
|-------|--------|-----------------------|---------------------|--------|--------|----------|-----------|
| 66800 | 1/4" | 8" | 12" | 7/16" | 4" | 400 lb | 2,000 lb |
| 66801 | 5/16" | 9-1/4" | 13-3/4" | 1/2" | 4-1/2" | 700 lb | 3,500 lb |
| 66802 | 3/8" | 11-3/4" | 17-3/4" | 9/16" | 6" | 1,000 lb | 5,000 lb |
| 66803 | 1/2" | 13-3/8" | 20-3/8" | 11/16" | 6" | 1,500 lb | 7,500 lb |
| 66804 | 1/2" | 16-3/8" | 26-3/8" | 11/16" | 9" | 1,500 lb | 7,500 lb |
| 66805 | 1/2" | 19-3/8" | 32-3/8" | 11/16" | 12" | 1,500 lb | 7,500 lb |
| 66806 | 5/8" | 15-1/4" | 22-1/2" | 7/8" | 6" | 2,250 lb | 11,250 lb |
| 66807 | 5/8" | 18-1/4" | 28-1/2" | 7/8" | 9" | 2,250 lb | 11,250 lb |
| 66808 | 5/8" | 21-1/4" | 34-1/2" | 7/8" | 12" | 2,250 lb | 11,250 lb |
| 66809 | 3/4" | 17-1/4" | 24-3/4" | 1" | 6" | 3,000 lb | 15,000 lb |
| 66810 | 3/4" | 20-1/4" | 30-3/4" | 1" | 9" | 3,000 lb | 15,000 lb |
| 66811 | 3/4" | 23-1/4" | 36-3/4" | 1" | 12" | 3,000 lb | 15,000 lb |

Sizes are approximate. Specifications subject to change without notice.



Hook & Eye Turnbuckles (Forged Steel)

Forged steel bodies & ends. Hot dipped galvanized finish. Features a lock nut on each end. Meets Spec. FF-T791b, Type 1, Form 1, Class 6.

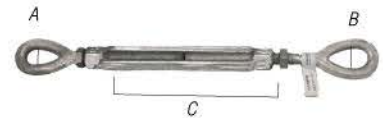
| | PART# | THREAD | OVERALL LENGTH CLOSED | OVERALL LENGTH OPEN | A | B | C | W.L.L. | U.L.L. |
|--------------------------|-------|--------|-----------------------|---------------------|--------|--------|--------|----------|-----------|
| <input type="checkbox"/> | 66820 | 1/4" | 8" | 12" | 11/32" | 7/16" | 3-3/4" | 400 lb | 2,000 lb |
| <input type="checkbox"/> | 66821 | 5/16" | 9-1/2" | 13-1/2" | 7/16" | 1/2" | 4-1/2" | 700 lb | 3,500 lb |
| <input type="checkbox"/> | 66822 | 3/8" | 12" | 18" | 17/32" | 9/16" | 6" | 1,000 lb | 5,000 lb |
| <input type="checkbox"/> | 66823 | 1/2" | 13-5/8" | 20-5/8" | 23/32" | 11/16" | 6" | 1,500 lb | 7,500 lb |
| | 66824 | 1/2" | 16-5/8" | 26-5/8" | 23/32" | 11/16" | 9" | 1,500 lb | 7,500 lb |
| | 66825 | 1/2" | 19-5/8" | 32-5/8" | 23/32" | 11/16" | 12" | 1,500 lb | 7,500 lb |
| | 66826 | 5/8" | 15-1/2" | 22-3/4" | 7/8" | 29/32" | 6" | 2,250 lb | 11,250 lb |
| | 66827 | 5/8" | 18-1/2" | 28-3/4" | 7/8" | 29/32" | 9" | 2,250 lb | 11,250 lb |
| | 66828 | 5/8" | 21-1/2" | 34-3/4" | 7/8" | 29/32" | 12" | 2,250 lb | 11,250 lb |
| | 66829 | 3/4" | 17-1/2" | 25" | 1" | | 6" | 3,000 lb | 15,000 lb |
| | 66880 | 3/4" | 20-1/2" | 31" | 1" | | 9" | 3,000 lb | 15,000 lb |
| | 66881 | 3/4" | 23-1/2" | 31" | 1" | | 12" | 3,000 lb | 15,000 lb |



Eye & Eye Turnbuckles (Forged Steel)

Forged steel bodies & ends. Hot dipped galvanized finish. Features a lock nut on each end. Meets Spec. FF-T791b, Type 1, Form 1, Class 4.

| | PART# | THREAD | OVERALL LENGTH CLOSED | OVERALL LENGTH OPEN | A, B | C | W.L.L. | U.L.L. |
|--------------------------|-------|--------|-----------------------|---------------------|--------|--------|----------|-----------|
| <input type="checkbox"/> | 66830 | 1/4" | 8-1/4" | 12-1/4" | 11/32" | 4" | 500 lb | 2,500 lb |
| <input type="checkbox"/> | 66831 | 5/16" | 9-5/8" | 14-1/8" | 7/16" | 4-1/2" | 800 lb | 4,000 lb |
| <input type="checkbox"/> | 66832 | 3/8" | 12-1/8" | 18-1/8" | 17/32" | 6" | 1,200 lb | 6,000 lb |
| <input type="checkbox"/> | 66833 | 1/2" | 14" | 21" | 23/32" | 6" | 2,200 lb | 11,000 lb |



Jaw & Jaw Turnbuckles (Forged Steel)

Forged steel bodies & ends. Hot dipped galvanized finish. Features a lock nut on each end. Meets Spec. FF-T791b, Type 1, Form 1, Class 6.

| | PART# | THREAD | OVERALL LENGTH CLOSED | OVERALL LENGTH OPEN | A, B | C | W.L.L. | U.L.L. |
|--------------------------|-------|--------|-----------------------|---------------------|--------|--------|----------|-----------|
| <input type="checkbox"/> | 66840 | 1/4" | 8" | 12" | 7/16" | 4" | 500 lb | 2,500 lb |
| <input type="checkbox"/> | 66841 | 5/16" | 9-1/2" | 14" | 1/2" | 4-1/2" | 800 lb | 4,000 lb |
| <input type="checkbox"/> | 66842 | 3/8" | 11-3/8" | 17-3/8" | 17/32" | 6" | 1,200 lb | 6,000 lb |
| <input type="checkbox"/> | 66843 | 1/2" | 13" | 20" | 21/32" | 6" | 2,200 lb | 11,000 lb |
| | 66844 | 1/2" | 16" | 26" | 21/32" | 9" | 2,200 lb | 11,000 lb |
| | 66845 | 1/2" | 19" | 32" | 21/32" | 12" | 2,200 lb | 11,000 lb |
| | 66846 | 5/8" | 14-7/8" | 22-1/8" | 25/32" | 6" | 3,500 lb | 17,500 lb |
| | 66847 | 5/8" | 17-7/8" | 28-1/8" | 25/32" | 9" | 3,500 lb | 17,500 lb |
| | 66848 | 5/8" | 20-7/8" | 34-1/8" | 25/32" | 12" | 3,500 lb | 17,500 lb |
| | 66849 | 3/4" | 16-5/8" | 24-1/8" | 15/16" | 6" | 5,200 lb | 26,000 lb |
| | 66850 | 3/4" | 19-5/8" | 30-1/8" | 15/16" | 9" | 5,200 lb | 26,000 lb |
| | 66851 | 3/4" | 22-5/8" | 36-1/8" | 15/16" | 12" | 5,200 lb | 26,000 lb |



Sizes are approximate. Specifications subject to change without notice.

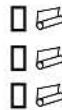
Legend: 12x24 24x24 Plan-O-Gram Rack/End Cap Other





Stainless Steel Bolt Snaps

| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|--------|----------------|------------------|
| 64100 | 1/2" | 9/32" | 3-3/16" | 5 |
| 64101 | 3/4" | 11/32" | 3-1/2" | 5 |



Stainless Steel Security Snaps

| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | W.L.L. | PACKAGE QUANTITY |
|-------|---------------------|------|----------------|--------|------------------|
| 64102 | 5/8" | 3/8" | 3-3/8" | 100 lb | 5 |
| 64103 | 3/4" | 1/2" | 3-7/8" | 200 lb | 5 |
| 64104 | 7/8" | 1/2" | 4-5/8" | 300 lb | 5 |



Stainless Steel Spring Snaps

| PART# | EYE INSIDE DIAMETER | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|----------------|------------------|
| 64105 | 1/4" | 1-7/8" | 5 |
| 64106 | 3/8" | 2-5/8" | 5 |
| 64107 | 1/2" | 3-7/8" | 5 |



Stainless Steel Boat Snaps

| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|-------|----------------|------------------|
| 64108 | 1/2" | 1/4" | 2" | 5 |
| 64109 | 5/8" | 7/16" | 2-3/4" | 5 |
| 64110 | 3/4" | 9/16" | 3-1/4" | 5 |
| 64111 | 3/4" | 5/8" | 3-7/8" | 5 |



Aluminum Spring Snap

Zinc plated.

| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|------|----------------|------------------|
| 64112 | 1/2" | 1/4" | 2-3/8" | 5 |

66137



Safety Lanyard Snaps

| PART# | TYPE | A | B | W.L.L. | U.L.L. |
|--------|--------------|---------|------|----------|----------|
| 66137 | Single latch | 1-1/16" | 3/4" | 1,000 lb | 5,000 lb |
| 66137S | Double latch | 1-1/16" | 1" | 1,000 lb | 5,000 lb |

66137S

Sizes are approximate. Specifications subject to change without notice.

Bull Snap

Zinc die cast and nickel plated.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|--------------|---------------------|------|----------------|------------------|
| 66330 | 1" | 5/8" | 4-1/8" | 5 |



Solid Snap Hook

Forged steel.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|--------------|---------------------|------|----------------|------------------|
| 66331 | 11/16" | 5/8" | 3-1/2" | 5 |



Cap Snap

Zinc plated.

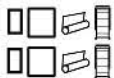


| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|--------------|---------------------|------|----------------|------------------|
| 66332 | 1" | 3/8" | 3-5/8" | 5 |



Swivel Eye Snaps

Zinc plated.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|--------------|---------------------|-------|----------------|------------------|
| 66334 | 3/4" | 7/16" | 3-1/4" | 5 |
| 66335 | 7/8" | 7/16" | 3-1/2" | 5 |



Dog Lead Snap

Zinc plated.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|--------------|---------------------|------|----------------|------------------|
| 66336 | 3/8" | 1/4" | 2-1/2" | 5 |



Sizes are approximate. Specifications subject to change without notice.





Trigger Snaps

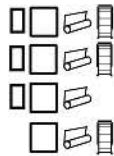
Zinc plated.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|------|----------------|------------------|
| 66339 | 5/8" | 1/2" | 2-1/2" | 5 |
| 66344 | 3/4" | 1/2" | 2-3/4" | 5 |
| 66348 | 3/4" | 3/8" | 2-1/2" | 5 |
| 66349 | 3/4" | 1" | 3-1/2" | 5 |
| 66350 | 3/4" | 3/4" | 3-7/8" | 5 |

Bolt Snaps

Zinc plated.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|--------|----------------|------------------|
| 66340 | 1/2" | 11/16" | 3-3/8" | 5 |
| 66343 | 1/2" | 3/4" | 3-1/2" | 5 |
| 66354 | 1/4" | 7/16" | 2-1/8" | 5 |
| 66342 | 3/8" | 7/16" | 3-1/2" | 5 |

Bolt Snaps

Solid Brass.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|-------|----------------|------------------|
| 66360 | 1/2" | 9/16" | 3" | 5 |

Bolt Snaps

Brass.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|------|----------------|------------------|
| 66361 | 1" | 1/2" | 3-1/2" | 5 |

Bolt Snaps

Nickel Plated.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|------|----------------|------------------|
| 66366 | 9/16" | 3/4" | 3-1/4" | 5 |

Sizes are approximate. Specifications subject to change without notice.



Open Eye Snaps

Zinc Plated.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|--------------|---------------------|------|----------------|------------------|
| 66341 | 13/16" | 1/2" | 3-9/16" | 5 |



Loop Snaps

Zinc Plated.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|--------------|---------------------|------|----------------|------------------|
| 66346 | 3/4" | 1/2" | 3-1/8" | 5 |



| | | | | |
|--------------|----|------|----------|---|
| 66347 | 1" | 1/2" | 2-15/16" | 5 |
|--------------|----|------|----------|---|

Swivel Loop Snaps

Nickel Plated.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|--------------|---------------------|------|----------------|------------------|
| 66352 | 3/4" | 3/8" | 3-1/4" | 5 |



| | | | | |
|--------------|----|------|--------|---|
| 66353 | 1" | 3/8" | 3-1/4" | 5 |
|--------------|----|------|--------|---|

Open Decoy Snaps

Zinc Die Cast.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|--------------|---------------------|------|----------------|------------------|
| 66355 | 1/2" | 1/4" | 2-1/2" | 5 |



Spring Snap

Zinc Die Cast.



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|--------------|---------------------|-------|----------------|------------------|
| 66351 | 1" | 7/16" | 3-1/8" | 5 |



Baby Square Eye Snaps



| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|--------------|---------------------|------|----------------|------------------|
| 66365 | 5/8" | 1/4" | 1-7/8" | 5 |



Swivel Snaps

Zinc Plated.



| PART# | EYE INSIDE DIAMETER | SNAP EYE | OVERALL LENGTH | PACKAGE QUANTITY |
|--------------|---------------------|----------|----------------|------------------|
| 66367 | 1/2" | -- | 2" | 5 |



| | | | | |
|--------------|------|----|---------|---|
| 66368 | 5/8" | -- | 2-7/16" | 5 |
|--------------|------|----|---------|---|



| | | | | |
|--------------|------|----|--------|---|
| 66369 | 3/4" | -- | 2-5/8" | 5 |
|--------------|------|----|--------|---|



| | | | | |
|--------------|----|----|----|---|
| 66370 | 1" | -- | 3" | 5 |
|--------------|----|----|----|---|



| | | | | |
|--------------|------|----|--------|---|
| 66371 | 3/8" | -- | 1-3/4" | 5 |
|--------------|------|----|--------|---|

Nickel Plated.

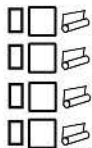


| | | | | |
|--------------|------|--------|--------|---|
| 66372 | 3/8" | 11/16" | 2-3/8" | 5 |
|--------------|------|--------|--------|---|



Sizes are approximate. Specifications subject to change without notice.





Lever Snaps

Nickel Plated.

| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|-------|----------------|------------------|
| 66374 | 5/8" | 1/2" | 3-1/4" | 5 |
| 66375 | 3/4" | 7/16" | 3-1/2" | 5 |
| 66376 | 1" | 3/8" | 3-1/2" | 5 |
| 66377 | 1-1/8" | 9/16" | 4-7/16" | 5 |



Security Snaps

| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|-------|----------------|------------------|
| 66380 | 7/8" | 9/16" | 3-7/8" | 5 |
| 66381 | 1-1/8" | 9/16" | 5-1/8" | 5 |



Swivel Security Snaps

| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|-----|----------------|------------------|
| 66394 | 1" | 1" | 4-1/8" | 5 |



Panic Snap

Zinc plated.

| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|-----|----------------|------------------|
| 66338 | 1/2" | 1" | 4-1/16" | 5 |



Eye Bull Snaps

Nickel Plated.

| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|-------|----------------|------------------|
| 66385 | 3/4" | 9/16" | 3-3/4" | 5 |



Flat Spring Snap - Simplex

| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|-------|----------------|------------------|
| 66356 | 11/16" | 5/16" | 4-3/8" | 5 |
| 66387 | 1/2" | 1/4" | 2-3/4" | 5 |



Bronze Animal Snap

| PART# | EYE INSIDE DIAMETER | GAP | OVERALL LENGTH | PACKAGE QUANTITY |
|-------|---------------------|-------|----------------|------------------|
| 66392 | 1" | 9/16" | 4-1/2" | 5 |

Sizes are approximate. Specifications subject to change without notice.



Steel Snap Links

Formed steel with clear zinc plated finish.

| | PART# | WIRE DIAMETER | GAP | LENGTH | W.L.L. | U.L.L. | PACKAGE QUANTITY |
|---|-------|---------------|-------|--------|----------|----------|------------------|
|  | 66419 | 3/16" | 1/4" | 2" | 220 lb | 550 lb | 10 |
|  | 66420 | 1/4" | 5/16" | 2-3/8" | 260 lb | 650 lb | 10 |
|  | 66421 | 5/16" | 3/8" | 3-1/8" | 500 lb | 1,250 lb | 10 |
|  | 66422 | 3/8" | 1/2" | 4" | 770 lb | 1,925 lb | 10 |
|  | 66425 | 7/16" | 5/8" | 4-3/4" | 900 lb | 2,250 lb | 5 |
|  | 66426 | 1/2" | 3/4" | 5-3/8" | 1,200 lb | 3,000 lb | 5 |



Aluminum Snap Links

For decorative and light applications. Multi-coloured.

| | PART# | WIRE DIAMETER | GAP | LENGTH | PACKAGE QUANTITY |
|---|-------|---------------|------|---------|------------------|
|  | 66427 | 3/16" | 1/2" | 1-5/16" | 10 |
|  | 66428 | 1/4" | 5/8" | 2-7/16" | 10 |
|  | 66429 | 5/16" | 7/8" | 3-1/8" | 10 |



Stainless Steel Snap Links

304 Stainless steel material.

| | PART# | WIRE DIAMETER | GAP | LENGTH | W.L.L. | PACKAGE QUANTITY |
|---|-------|---------------|-------|----------|--------|------------------|
|  | 64070 | 3/16" | 1/4" | 1-15/16" | 100 lb | 5 |
|  | 64071 | 1/4" | 5/16" | 2-3/8" | 140 lb | 5 |
|  | 64072 | 5/16" | 3/8" | 3-1/8" | 250 lb | 5 |
|  | 64073 | 3/8" | 1/2" | 4" | 400 lb | 5 |



Carabiner with Magnet

| | PART# | BASE DIAMETER | GAP | BREAKAWAY CAPACITY | MATERIAL |
|---|-------|---------------|-------|--------------------|----------------------|
|  | 66700 | 1-1/4" | 9/16" | 75 lbs | Stainless Steel #304 |



Galvanized Dock Rope Cleat

| PART# | DESCRIPTION | PACKAGE QUANTITY |
|-------|-------------------------------|------------------|
| 12262 | Galvanized steel material, 6" | 5 |



Black Nylon Dock Rope Cleat

| PART# | DESCRIPTION | PACKAGE QUANTITY |
|-------|-------------------------------------|------------------|
| 12264 | Rugged black nylon construction, 4" | 5 |



Sizes are approximate. Specifications subject to change without notice.





General Hardware

Square Keystock

Supplied in 12" lengths only. Carbon steel. Zinc plated finish. Thickness tolerance ± 0.1 mm; length tolerance ± 0.3 mm.



| | PART# | WIDTH | HEIGHT | QTY. |
|-----|-------|-------|--------|-----------|
| ooo | 22750 | 1/8" | 1/8" | Pkg. of 5 |
| ooo | 22751 | 3/16" | 3/16" | Pkg. of 5 |
| ooo | 22752 | 1/4" | 1/4" | Pkg. of 5 |
| ooo | 22753 | 5/16" | 5/16" | Pkg. of 5 |
| ooo | 22754 | 3/8" | 3/8" | Pkg. of 5 |
| ooo | 22755 | 7/16" | 7/16" | Pkg. of 5 |
| ooo | 22756 | 1/2" | 1/2" | Pkg. of 5 |
| ooo | 22758 | 5/8" | 5/8" | Pkg. of 2 |
| | 22760 | 3/4" | 3/4" | Pkg. of 2 |
| | 22761 | 7/8" | 7/8" | Pkg. of 1 |
| | 22763 | 1" | 1" | Pkg. of 1 |

Rectangular Keystock

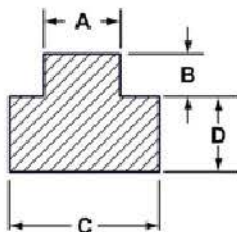
Supplied in 12" lengths only. Carbon steel. Zinc plated finish. Thickness tolerance ± 0.1 mm; length tolerance ± 0.1 mm.



| | PART# | WIDTH | HEIGHT | QTY. |
|-----|-------|-------|--------|-----------|
| ooo | 22782 | 1/4" | 3/16" | Pkg. of 5 |
| ooo | 22785 | 1/4" | 5/16" | Pkg. of 5 |
| ooo | 22786 | 1/4" | 3/8" | Pkg. of 5 |
| ooo | 22789 | 5/16" | 3/8" | Pkg. of 5 |
| ooo | 22791 | 3/8" | 7/16" | Pkg. of 5 |
| ooo | 22792 | 3/8" | 1/2" | Pkg. of 5 |
| ooo | 22795 | 7/16" | 1/2" | Pkg. of 5 |
| ooo | 22796 | 1/2" | 5/8" | Pkg. of 2 |

Step Keystock

Supplied in 12" lengths only. Carbon steel. Zinc plated finish. Thickness tolerance ± 0.1 mm; length tolerance ± 0.1 mm.



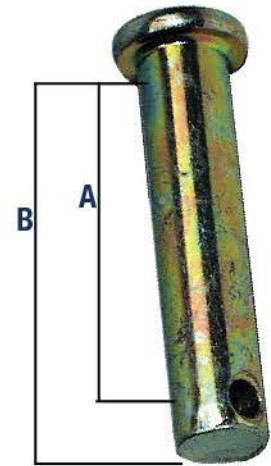
| | PART# | A | B | C | D | QTY. |
|-----|-------|-------|-------|-------|-------|-----------|
| ooo | 22821 | 3/16" | 3/32" | 1/4" | 3/32" | Pkg. of 2 |
| ooo | 22822 | 1/4" | 1/8" | 5/16" | 1/8" | Pkg. of 2 |
| ooo | 22823 | 1/4" | 1/8" | 3/8" | 3/16" | Pkg. of 2 |
| ooo | 22824 | 5/16" | 5/32" | 3/8" | 3/16" | Pkg. of 2 |
| ooo | 22825 | 3/8" | 3/16" | 7/16" | 5/32" | Pkg. of 2 |
| ooo | 22826 | 3/8" | 3/16" | 1/2" | 3/16" | Pkg. of 2 |
| ooo | 22827 | 7/16" | 5/32" | 1/2" | 1/4" | Pkg. of 2 |
| ooo | 22828 | 1/2" | 1/4" | 5/8" | 5/16" | Pkg. of 2 |

Sizes are approximate. Specifications subject to change without notice.

Clevis Pins

Yellow zinc dichromate finish. Hole is 1/4" from end of pin.
 Package quantity 10 pcs. Made of C1020 steel*.

| PART# | PIN DIA. | HOLE DIA. (MM) | A | B | PART# | PIN DIA. | HOLE DIA. (MM) | A | B |
|-------|----------|----------------|--------|--------|-------|----------|----------------|--------|--------|
| 22500 | 1/4" | 2.6 | 1" | 1-1/4" | 22521 | 3/8" | 3.8 | 1-3/4" | 2" |
| 22501 | 1/4" | 2.6 | 1-1/4" | 1-1/2" | 22522 | 3/8" | 3.8 | 2" | 2-1/4" |
| 22502 | 1/4" | 2.6 | 1-1/2" | 1-3/4" | 22523 | 3/8" | 3.8 | 2-1/4" | 2-1/2" |
| 22503 | 1/4" | 2.6 | 1-3/4" | 2" | 22528 | 7/16" | 3.8 | 1-1/4" | 1-1/2" |
| 22504 | 1/4" | 2.6 | 2" | 2-1/4" | 22529 | 7/16" | 3.8 | 1-1/2" | 1-3/4" |
| 22505 | 1/4" | 2.6 | 2-1/4" | 2-1/2" | 22530 | 7/16" | 3.8 | 1-3/4" | 2" |
| 22509 | 5/16" | 3.5 | 1" | 1-1/4" | 22531 | 7/16" | 3.8 | 2" | 2-1/4" |
| 22510 | 5/16" | 3.5 | 1-1/4" | 1-1/2" | 22532 | 7/16" | 3.8 | 2-1/4" | 2-1/2" |
| 22511 | 5/16" | 3.5 | 1-1/2" | 1-3/4" | 22536 | 1/2" | 3.8 | 1" | 1-1/4" |
| 22512 | 5/16" | 3.5 | 1-3/4" | 2" | 22537 | 1/2" | 3.8 | 1-1/4" | 1-1/2" |
| 22513 | 5/16" | 3.5 | 2" | 2-1/4" | 22538 | 1/2" | 3.8 | 1-1/2" | 1-3/4" |
| 22514 | 5/16" | 3.5 | 2-1/4" | 2-1/2" | 22539 | 1/2" | 3.8 | 1-3/4" | 2" |
| 22518 | 3/8" | 3.8 | 1" | 1-1/4" | 22540 | 1/2" | 3.8 | 2" | 2-1/4" |
| 22519 | 3/8" | 3.8 | 1-1/4" | 1-1/2" | 22541 | 1/2" | 3.8 | 2-1/4" | 2-1/2" |
| 22520 | 3/8" | 3.8 | 1-1/2" | 1-3/4" | | | | | |



Clevis Pin Dynapaks

| PART# | CONTENTS | QTY. | A | B | PART# | CONTENTS | QTY. | A | B |
|--------------------------------|----------|-----------|---------|--------|-------|----------|-----------|---------|--------|
| <input type="checkbox"/> 92500 | 22500 | Pkg. of 5 | 1/4" | 1" | 92518 | 22518 | Pkg. of 3 | 3-3/8" | 1" |
| <input type="checkbox"/> 92502 | 22502 | Pkg. of 5 | 1/4" | 1-1/2" | 92520 | 22520 | Pkg. of 3 | 3-3/8" | 1-1/2" |
| <input type="checkbox"/> 92504 | 22504 | Pkg. of 5 | 5-1/4" | 2" | 92522 | 22522 | Pkg. of 3 | 3-3/8" | 2" |
| <input type="checkbox"/> 92509 | 22509 | Pkg. of 5 | 5-5/16" | 1" | 92529 | 22529 | Pkg. of 2 | 2-7/16" | 1-1/2" |
| <input type="checkbox"/> 92511 | 22511 | Pkg. of 5 | 5-5/16" | 1-1/5" | 92538 | 22538 | Pkg. of 2 | 2-1/2" | 1-1/2" |
| <input type="checkbox"/> 92513 | 22513 | Pkg. of 5 | 5-5/16" | 2" | 92540 | 22540 | Pkg. of 2 | 2-1/2" | 2" |



Adjustable Clevis Pins

A quick replacement pin, the universal clevis pin features a series of holes making it adaptable to varying lengths. Use the diameter that fits your application and cut off the excess length. Easily replaces bolts, cotter pins or rivets on all types of equipment. Yellow zinc dichromate finish. First pin hole is 1/4" from the end of the pin.

| PART# | PIN DIAMETER | HOLE DIA. (MM) | OVERALL LENGTH | QTY. | PART# | PIN DIAMETER | HOLE DIA. (MM) | OVERALL LENGTH | QTY. |
|-------|--------------|----------------|----------------|-----------|-------|--------------|----------------|----------------|-----------|
| 22545 | 1/4" | 2.6 | 2" | Pkg. of 5 | 22551 | 1/2" | 3.8 | 2-1/2" | Pkg. of 5 |
| 22546 | 5/16" | 3.5 | 2" | Pkg. of 5 | 22552 | 7/16" | 3.8 | 3" | Pkg. of 5 |
| 22547 | 3/8" | 3.8 | 2" | Pkg. of 5 | 22553 | 1/2" | 3.8 | 3" | Pkg. of 5 |
| 22548 | 7/16" | 3.8 | 2" | Pkg. of 5 | 22554 | 5/8" | 3.8 | 3" | Pkg. of 5 |
| 22549 | 1/2" | 3.8 | 2" | Pkg. of 5 | 22555 | 3/4" | 3.8 | 3" | Pkg. of 5 |
| 22550 | 7/16" | 3.8 | 2-1/2" | Pkg. of 5 | | | | | |



* 1020 is a general purpose low tensile low hardenability carbon steel generally supplied in the cold drawn or turned and polished condition, with a typical tensile strength range 410 - 790 Mpa, and Brinell hardness range 119 - 235. Characterized by excellent weldability, very good machinability with reasonable strength and very good ductility.

Sizes are approximate. Specifications subject to change without notice.

Legend: 12x24 24x24 Plan-O-Gram Rack/End Cap Other



General Hardware



Machinery Bushings

Machinery bushings reduce wear between moving parts, prevent marring of fine finishes and can be used as spacers for sprockets, pulleys and gears on new or old equipment. Made of low carbon, mild steel with plain finish.

- 18 Gauge (l = light) = 0.042/0.054, 3/64"
- 14 Gauge (m = medium) = 0.068/0.082, 5/64"
- 10 Gauge (h = heavy) = 0.126/0.142, 1/8"
- Tolerances - O.D. +0.010/0.010 I.D. +0.010 / -0.000



Reference Chart Available

See end of catalogue

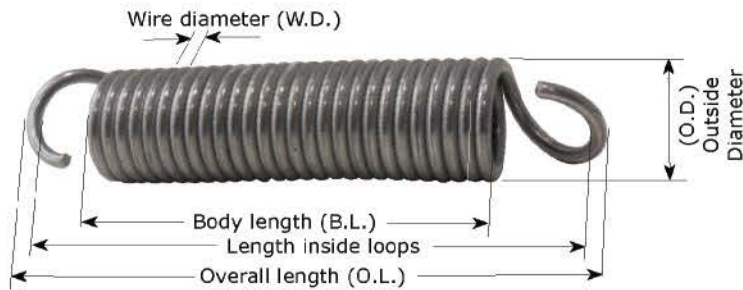
| | PART# | IND# | INSIDE DIA. | OUTSIDE DIA. | GAUGE | QTY. |
|---|-------|-------|-------------|--------------|-------|------------|
| □ | 22700 | M-16L | 9/16" | 1" | 18 | Pkg. of 10 |
| □ | 22701 | M-18L | 5/8" | 1-1/8" | 18 | Pkg. of 10 |
| □ | 22702 | M-18M | 5/8" | 1-1/8" | 14 | Pkg. of 10 |
| □ | 22703 | M-20L | 3/4" | 1-1/4" | 18 | Pkg. of 10 |
| □ | 22704 | M-20M | 3/4" | 1-1/4" | 14 | Pkg. of 10 |
| □ | 22705 | M-20H | 3/4" | 1-1/4" | 10 | Pkg. of 10 |
| □ | 22706 | M-22L | 7/8" | 1-3/8" | 18 | Pkg. of 10 |
| □ | 22707 | M-22M | 7/8" | 1-3/8" | 14 | Pkg. of 10 |
| □ | 22708 | M-24L | 1" | 1-1/2" | 18 | Pkg. of 10 |
| □ | 22709 | M-24M | 1" | 1-1/2" | 14 | Pkg. of 10 |
| □ | 22710 | M-24H | 1" | 1-1/2" | 10 | Pkg. of 10 |
| □ | 22711 | M-28L | 1-1/8" | 1-3/4" | 18 | Pkg. of 10 |
| □ | 22712 | M-28M | 1-1/8" | 1-3/4" | 14 | Pkg. of 10 |
| □ | 22713 | M-28H | 1-1/8" | 1-3/4" | 10 | Pkg. of 10 |
| □ | 22714 | M-30L | 1-1/4" | 1-7/8" | 18 | Pkg. of 10 |
| □ | 22715 | M-30M | 1-1/4" | 1-7/8" | 14 | Pkg. of 10 |
| □ | 22716 | M-30H | 1-1/4" | 1-7/8" | 10 | Pkg. of 10 |
| □ | 22717 | M-34L | 1-3/8" | 2-1/8" | 18 | Pkg. of 10 |
| □ | 22718 | M-34M | 1-3/8" | 2-1/8" | 14 | Pkg. of 10 |
| □ | 22719 | M-34H | 1-3/8" | 2-1/8" | 10 | Pkg. of 10 |
| □ | 22720 | M-36L | 1-1/2" | 2-1/4" | 18 | Pkg. of 10 |
| □ | 22721 | M-36M | 1-1/2" | 2-1/4" | 14 | Pkg. of 10 |
| □ | 22722 | M-36H | 1-1/2" | 2-1/4" | 10 | Pkg. of 10 |
| □ | 22723 | M-38M | 1-5/8" | 2-3/8" | 14 | Pkg. of 10 |
| □ | 22724 | M-38H | 1-5/8" | 2-3/8" | 10 | Pkg. of 10 |
| □ | 22725 | M-40M | 1-3/4" | 2-1/2" | 14 | Pkg. of 10 |
| □ | 22726 | M-40H | 1-3/4" | 2-1/2" | 10 | Pkg. of 10 |
| □ | 22727 | M-46M | 1-7/8" | 2-7/8" | 14 | Pkg. of 10 |
| □ | 22728 | M-46H | 1-7/8" | 2-7/8" | 10 | Pkg. of 10 |
| □ | 22729 | M-48M | 2" | 3" | 14 | Pkg. of 10 |
| □ | 22730 | M-48H | 2" | 3" | 10 | Pkg. of 10 |
| □ | 22731 | M-50M | 2-1/8" | 3-1/8" | 14 | Pkg. of 10 |
| □ | 22732 | M-50H | 2-1/8" | 3-1/8" | 10 | Pkg. of 10 |
| □ | 22733 | M-52M | 2-1/4" | 3-1/4" | 14 | Pkg. of 10 |
| □ | 22734 | M-52H | 2-1/4" | 3-1/4" | 10 | Pkg. of 10 |
| □ | 22735 | M-54M | 2-3/8" | 3-3/8" | 14 | Pkg. of 10 |
| □ | 22736 | M-54H | 2-3/8" | 3-3/8" | 10 | Pkg. of 10 |
| □ | 22737 | M-56M | 2-1/2" | 3-1/2" | 14 | Pkg. of 10 |
| □ | 22738 | M-56H | 2-1/2" | 3-1/2" | 10 | Pkg. of 10 |

Sizes are approximate. Specifications subject to change without notice.

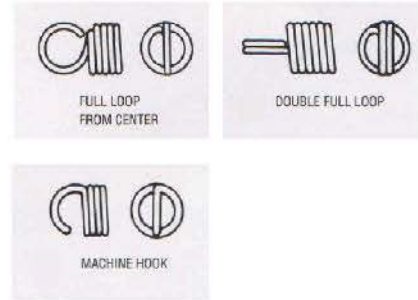


Packaged Extension Springs

ASTM A227, A228 or A764
 Carbon spring steel zinc plated finish.



EXTENSION SPRING ENDS:



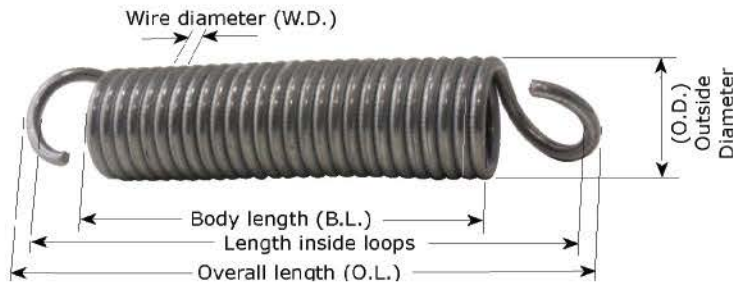
| | PART# | REF# | WIRE DIA. | OUTSIDE DIA. | OVERALL LENGTH | BODY LENGTH | MAXIMUM STRETCH | LOAD RATE (LB/IN) | MAX LOAD (LB) | END TYPE | TYPE LOOP | PKG. QTY. |
|--------------------------|-------|-------|-----------|--------------|----------------|-------------|-----------------|-------------------|---------------|----------|-----------|-----------|
| <input type="checkbox"/> | 24001 | C-1 | 0.015" | 0.125" | 1.5" | 1.25" | 2" | 0.65 | 1.4 | loop | B | 2 |
| <input type="checkbox"/> | 24005 | C-5 | 0.02" | 0.156" | 1.5" | 1.188" | 1.7" | 1.50 | 2.7 | loop | B | 2 |
| <input type="checkbox"/> | 24013 | C-13 | 0.023" | 0.218" | 1.5" | 1.064" | 2.4" | 1.10 | 2.9 | loop | B | 2 |
| <input type="checkbox"/> | 24019 | C-19 | 0.035" | 0.25" | 1.5" | 1" | 1.1" | 6.40 | 8.4 | loop | B | 2 |
| <input type="checkbox"/> | 24023 | C-23 | 0.025" | 0.281" | 1.5" | 0.938" | 3.4" | 0.74 | 2.8 | loop | B | 2 |
| <input type="checkbox"/> | 24025 | C-25 | 0.02" | 0.312" | 1.5" | 0.876" | 7.7" | 0.17 | 1.4 | loop | B | 2 |
| <input type="checkbox"/> | 24029 | C-29 | 0.028" | 0.343" | 1.5" | 0.814" | 3.2" | 0.81 | 3.6 | loop | B | 2 |
| <input type="checkbox"/> | 24031 | C-31 | 0.028" | 0.437" | 1.5" | 0.626" | 4.4" | 0.54 | 2.5 | loop | B | 2 |
| <input type="checkbox"/> | 24033 | C-33 | 0.047" | 0.437" | 1.5" | 0.626" | 1.6" | 6.20 | 11 | loop | B | 2 |
| <input type="checkbox"/> | 24051 | C-51 | 0.014" | 0.125" | 1.875" | 1.625" | 3.3" | 0.35 | 1.3 | loop | B | 2 |
| <input type="checkbox"/> | 24055 | C-55 | 0.02" | 0.156" | 1.875" | 1.563" | 2.7" | 1.10 | 2.2 | loop | B | 2 |
| <input type="checkbox"/> | 24063 | C-63 | 0.023" | 0.218" | 1.875" | 1.439" | 3.4" | 0.79 | 2.9 | loop | B | 2 |
| <input type="checkbox"/> | 24067 | C-67 | 0.02" | 0.25" | 1.875" | 1.375" | 6.4" | 0.25 | 1.7 | loop | B | 2 |
| <input type="checkbox"/> | 24069 | C-69 | 0.035" | 0.25" | 1.875" | 1.375" | 1.5" | 4.70 | 8.4 | loop | B | 2 |
| <input type="checkbox"/> | 24073 | C-73 | 0.025" | 0.281" | 1.875" | 1.313" | 2.8" | 0.54 | 4.7 | loop | B | 2 |
| <input type="checkbox"/> | 24077 | C-77 | 0.025" | 0.344" | 1.875" | 1.189" | 6.8" | 0.31 | 2.3 | loop | B | 2 |
| <input type="checkbox"/> | 24081 | C-81 | 0.028" | 0.437" | 1.875" | 1" | 7.8" | 0.30 | 2.5 | loop | B | 2 |
| <input type="checkbox"/> | 24083 | C-83 | 0.047" | 0.437" | 1.875" | 1" | 2.3" | 4.30 | 11 | loop | B | 2 |
| <input type="checkbox"/> | 24103 | C-103 | 0.018" | 0.125" | 2.5" | 2.25" | 2.2" | 0.96 | 2.5 | loop | B | 2 |
| <input type="checkbox"/> | 24105 | C-105 | 0.02" | 0.156" | 2.5" | 2.188" | 3" | 0.81 | 2.7 | loop | B | 2 |
| <input type="checkbox"/> | 24111 | C-111 | 0.025" | 0.187" | 2.5" | 2.126" | 2.5" | 1.50 | 4.2 | loop | B | 2 |
| <input type="checkbox"/> | 24115 | C-115 | 0.016" | 0.25" | 2.5" | 2" | 15" | 0.50 | 0.87 | loop | B | 2 |
| <input type="checkbox"/> | 24117 | C-117 | 0.02" | 0.25" | 2.5" | 2" | 9" | 0.17 | 1.7 | loop | B | 2 |
| <input type="checkbox"/> | 24119 | C-119 | 0.035" | 0.25" | 2.5" | 2" | 2.1" | 3.50 | 8.4 | loop | B | 2 |
| <input type="checkbox"/> | 24131 | C-131 | 0.028" | 0.437" | 2.5" | 1.626" | 13" | 0.18 | 2.5 | loop | B | 2 |
| <input type="checkbox"/> | 24133 | C-133 | 0.047" | 0.437" | 2.5" | 1.665" | 3.4" | 3.00 | 11 | loop | B | 2 |
| <input type="checkbox"/> | 24135 | C-135 | 0.062" | 0.437" | 2" | 1.126" | 0.87" | 17.00 | 19 | loop | B | 2 |
| <input type="checkbox"/> | 24139 | C-139 | 0.054" | 0.437" | 3.5" | 2.626" | 2.5" | 4.00 | 12 | loop | B | 2 |
| <input type="checkbox"/> | 24141 | C-141 | 0.072" | 0.625" | 2.5" | 1.375" | 1.5" | 10.00 | 19 | loop | B | 2 |

continued on next page

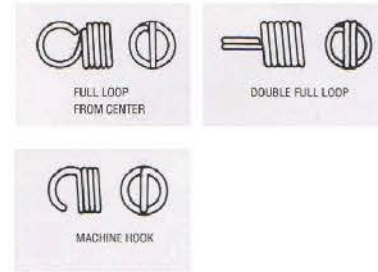
Sizes are approximate. Specifications subject to change without notice.



Packaged Extension Springs Continued



EXTENSION SPRING ENDS:



| | PART# | REF# | WIRE DIA. | OUTSIDE DIA. | OVERALL LENGTH | BODY LENGTH | MAXIMUM STRETCH | LOAD RATE (LB/IN) | MAX LOAD (LB) | END TYPE | PKG. QTY. |
|--------------------------|-------|-------|-----------|--------------|----------------|-------------|-----------------|-------------------|---------------|--------------------|-----------|
| <input type="checkbox"/> | 24143 | C-143 | 0.054" | 0.562" | 3" | 1.875" | 3.4" | 2.30 | 9.2 | loop | 2 |
| <input type="checkbox"/> | 24155 | C-155 | 0.028" | 0.312" | 3" | 2.375" | 7.8" | 0.41 | 3.5 | loop | 2 |
| <input type="checkbox"/> | 24157 | C-157 | 0.025" | 0.25" | 3.25" | 2.75" | 6.4" | 0.44 | 3.1 | loop | 2 |
| <input type="checkbox"/> | 24161 | C-161 | 0.034" | 0.437" | 2.75" | 1.875" | 5.9" | 5.00 | 3.3 | loop | 2 |
| <input type="checkbox"/> | 24163 | C-163 | 0.047" | 0.437" | 3.5" | 2.626" | 3.6" | 2.00 | 8.4 | loop | 2 |
| <input type="checkbox"/> | 24165 | C-165 | 0.08" | 0.5" | 1.625" | 0.625" | 2" | 66.00 | 35 | loop | 2 |
| <input type="checkbox"/> | 24171 | C-171 | 0.105" | 0.75" | 2" | 0.5" | 2.59" | 92.00 | 60 | hook | 2 |
| <input type="checkbox"/> | 24173 | C-173 | 0.105" | 0.75" | 2.25" | 0.75" | 3" | 68.00 | 60 | hook | 2 |
| <input type="checkbox"/> | 24175 | C-175 | 0.105" | 0.75" | 2.437" | 0.9375" | 3.3" | 47.00 | 50 | hook | 2 |
| <input type="checkbox"/> | 24177 | C-177 | 0.105" | 0.75" | 2.625" | 1.125" | 3.625" | 38.00 | 50 | hook | 2 |
| <input type="checkbox"/> | 24179 | C-179 | 0.072" | 0.562" | 2.875" | 1.75" | 4.475" | 11.00 | 22 | loop | 2 |
| <input type="checkbox"/> | 24181 | C-181 | 0.072" | 0.625" | 3.25" | 2" | 5.6" | 6.40 | 19 | loop | 2 |
| <input type="checkbox"/> | 24183 | C-183 | 0.047" | 0.562" | 4" | 2.91" | 11.6" | 0.76 | 6.5 | loop | 2 |
| <input type="checkbox"/> | 24185 | C-185 | 0.062" | 0.75" | 3.5" | 2" | 9" | 1.70 | 11 | loop | 2 |
| <input type="checkbox"/> | 24187 | C-187 | 0.105" | 0.75" | 2.875" | 1.375" | N/A | 39.00 | 60 | hook | 2 |
| <input type="checkbox"/> | 24189 | C-189 | 0.105" | 0.75" | 3.125" | 1.625" | 4.3" | 33.00 | 50 | hook | 2 |
| <input type="checkbox"/> | 24191 | C-191 | 0.105" | 0.75" | 3.75" | 2.25" | 6" | 26.00 | 50 | hook | 2 |
| <input type="checkbox"/> | 24193 | C-193 | 0.034" | 0.375" | 4" | 3.25" | 11.3" | 0.47 | 3.9 | loop | 2 |
| <input type="checkbox"/> | 24205 | C-205 | 0.034" | 0.25" | 5" | 4.5" | 8.5" | 1.40 | 6 | loop | 2 |
| <input type="checkbox"/> | 24209 | C-209 | 0.028" | 0.375" | 4.5" | 3.75" | 18" | 0.15 | 2.9 | loop | 2 |
| <input type="checkbox"/> | 24215 | C-215 | 0.041" | 0.375" | 3.75" | 3" | 7.5" | 1.40 | 6.5 | loop | 2 |
| <input type="checkbox"/> | 24219 | C-219 | 0.041" | 0.468" | 4.5" | 3.564" | 13" | 0.54 | 5.2 | loop | 2 |
| <input type="checkbox"/> | 24221 | C-221 | 0.062" | 0.5" | 4.5" | 3.5" | 7.7" | 4.10 | 16 | loop | 2 |
| <input type="checkbox"/> | 24223 | C-223 | 0.072" | 0.5" | 5" | 4" | 7.3" | 8.20 | 25 | loop | 2 |
| <input type="checkbox"/> | 24227 | C-227 | 0.091" | 0.687" | 4.75" | 3.875" | 7.25" | 11.00 | 35 | hook | 2 |
| <input type="checkbox"/> | 24231 | C-231 | 0.072" | 0.562" | 6" | 4.876" | 9.8" | 4.60 | 22 | loop | 2 |
| <input type="checkbox"/> | 24233 | C-233 | 0.034" | 0.25" | 6" | 5.5" | 10.3" | 1.10 | 6 | loop | 2 |
| <input type="checkbox"/> | 24235 | C-235 | 0.028" | 0.312" | 6" | 5.375" | 21" | 0.23 | 3.9 | loop | 2 |
| <input type="checkbox"/> | 24239 | C-239 | 0.047" | 0.375" | 6.5" | 5.75" | 11.5" | 1.60 | 10 | loop | 2 |
| <input type="checkbox"/> | 24243 | C-243 | 0.054" | 0.625" | 6.5" | 5.25" | 17.5" | 0.65 | 8.3 | loop | 2 |
| <input type="checkbox"/> | 24251 | C-251 | 0.105" | 1.125" | 16" | 13.75" | 38" | 1.20 | 31 | hook | 1 |
| <input type="checkbox"/> | 24253 | C-253 | 0.054" | 0.562" | 16.5" | 15.375" | 41.5" | 0.32 | 9.2 | double loop closed | 1 |

continued on next page

Sizes are approximate. Specifications subject to change without notice.



Packaged Extension Springs Continued

| | PART# | REF# | WIRE DIA. | OUTSIDE DIA. | OVERALL LENGTH | BODY LENGTH | MAXIMUM STRETCH | LOAD RATE (LB/IN) | MAX LOAD (LB) | END TYPE | PKG. QTY. |
|--------------------------|-------|-------|-----------|--------------|----------------|-------------|-----------------|-------------------|---------------|--------------------|-----------|
| <input type="checkbox"/> | 24257 | C-257 | 0.091" | 0.812" | 4.5" | 3.375" | 7.8" | 7.10 | 29 | hook | 2 |
| <input type="checkbox"/> | 24259 | C-259 | 0.12" | 0.812" | 4" | 2.375" | 1.3" | 39.00 | 66 | hook | 2 |
| <input type="checkbox"/> | 24261 | C-261 | 0.12" | 1.062" | 5.5" | 3.375" | 9.7" | 9.50 | 49 | hook | 1 |
| <input type="checkbox"/> | 24263 | C-263 | 0.091" | 0.875" | 6" | 4.875" | 11.6" | 3.90 | 26 | hook | 1 |
| <input type="checkbox"/> | 24265 | C-265 | 0.105" | 1.062" | 7" | 4.875" | 14.5" | 3.7 | 33 | hook | 1 |
| <input type="checkbox"/> | 24267 | C-267 | 0.162" | 1.25" | 6.5" | 4" | 9.5" | 26 | 100 | hook | 1 |
| <input type="checkbox"/> | 24269 | C-269 | 0.135" | 1" | 7" | 5" | 10" | 18 | 75 | double loop closed | 1 |
| <input type="checkbox"/> | 24271 | C-271 | 0.08" | 1.062" | 8.5" | 6.375" | 27.5" | 0.69 | 15 | hook | 1 |
| <input type="checkbox"/> | 24273 | C-273 | 0.148" | 1.125" | 8.5" | 6.25" | 12.9" | 15 | 87 | hook | 1 |
| <input type="checkbox"/> | 24275 | C-275 | 0.091" | 1.125" | 7.5" | 6.312" | 20.5" | 1.3 | 20 | hook | 1 |
| <input type="checkbox"/> | 24277 | C-277 | 0.091" | 0.65" | 6.5" | 5.5" | 10.5" | 5.9 | 31 | hook | 1 |
| <input type="checkbox"/> | 24281 | C-281 | 0.062" | 0.375" | 5.5" | 5" | 7.4" | 8.9 | 23 | loop | 2 |
| <input type="checkbox"/> | 24285 | C-285 | 0.035" | 0.375" | 5" | 4.25" | 16" | 0.43 | 5.4 | loop | 2 |
| <input type="checkbox"/> | 24287 | C-287 | 0.032" | 0.312" | 5" | 4.375" | 14.8" | 0.48 | 5.2 | loop | 2 |
| <input type="checkbox"/> | 24289 | C-289 | 0.035" | 0.312" | 5" | 4.375" | 12.4" | 0.79 | 6.6 | loop | 2 |
| <input type="checkbox"/> | 24293 | C-293 | 0.062" | 0.375" | 6.75" | 6" | 2.5" | 6.8 | 23 | loop | 1 |
| <input type="checkbox"/> | 24301 | C-301 | 0.135" | 1.5" | 11.5" | 8.5" | 26.5" | 2.7 | 47 | double loop closed | 1 |
| <input type="checkbox"/> | 24303 | C-303 | 0.105" | 1" | 12" | 10" | 24" | 2.4 | 35 | hook | 1 |
| <input type="checkbox"/> | 24307 | C-307 | 0.135" | 1.062" | 12" | 9.875" | 19" | 7.7 | 69 | hook | 1 |
| <input type="checkbox"/> | 24311 | C-311 | 0.041" | 0.437" | 10.25" | 9.375" | 27" | 0.28 | 5.5 | loop | 1 |
| <input type="checkbox"/> | 24313 | C-313 | 0.047" | 0.5" | 8.5" | 7.5" | 22.5" | 0.46 | 7.2 | loop | 1 |
| <input type="checkbox"/> | 24315 | C-315 | 0.047" | 0.437" | 8.5" | 7.626" | 18" | 0.73 | 8.4 | loop | 1 |
| <input type="checkbox"/> | 24317 | C-317 | 0.091" | 0.625" | 8.5" | 7.25" | 12.3" | 7.7 | 39 | loop | 1 |
| <input type="checkbox"/> | 24319 | C-319 | 0.054" | 0.562" | 8.5" | 7.376" | 20" | 0.64 | 9.2 | loop | 1 |
| <input type="checkbox"/> | 24321 | C-321 | 0.062" | 0.625" | 8.5" | 7.75" | 19.5" | 0.95 | 13 | loop | 1 |
| <input type="checkbox"/> | 24323 | C-323 | 0.08" | 0.625" | 8.5" | 7.25" | 14" | 3.9 | 27 | loop | 1 |
| <input type="checkbox"/> | 24325 | C-325 | 0.062" | 0.875" | 8.5" | 6.75" | 32" | 0.33 | 8.8 | hook | 1 |
| <input type="checkbox"/> | 24329 | C-329 | 0.105" | 0.875" | 8.5" | 6.75" | 14" | 5.4 | 41 | hook | 1 |
| <input type="checkbox"/> | 24333 | C-333 | 0.135" | 0.875" | 9" | 7.25" | 12" | 20 | 87 | hook | 1 |
| <input type="checkbox"/> | 24337 | C-337 | 0.12" | 1" | 8.5" | 6.5" | 13" | 7.7 | 52 | hook | 1 |
| <input type="checkbox"/> | 24339 | C-339 | 0.148" | 1.25" | 10" | 7.5" | 16.5" | 9.2 | 77 | hook | 1 |

Drawbar Spring

ASTM A227, A228 or A764 - Carbon spring steel zinc plated finish

| | PART# | REF# | WIRE DIAMETER | OUTSIDE DIAMETER | OVERALL LENGTH | LOAD RATE (LB/IN) | MAXIMUM LOAD (LB) |
|--------------------------|-------|------|---------------|------------------|----------------|-------------------|-------------------|
| <input type="checkbox"/> | 24900 | 4001 | 0.227" | 1-9/16" | 7-1/4" | 152.78 | 330.31 |



Sizes are approximate. Specifications subject to change without notice.

Legend: 12x24 24x24 Plan-O-Gram Rack/End Cap Other

DYNALINE

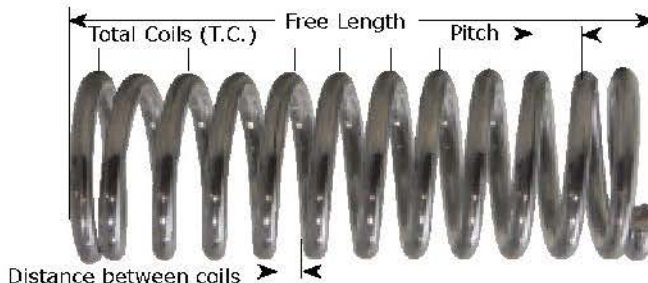
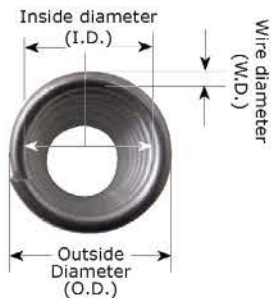


General Hardware



Packaged Compression Springs

S.A.E. 1060-1090 spring steel. Phosphate and oil finish.
Retail package with UPC barcode label.



General Hardware



| | PART# | REF# | WIRE DIA. | OUTSIDE DIA. | OVERALL LENGTH | SOLID HEIGHT | TOTAL COILS | LOAD RATE (LB/IN) | MAX LOAD (LB) | PKG. QTY. |
|--------------------------|-------|-------|-----------|--------------|----------------|--------------|-------------|-------------------|---------------|-----------|
| <input type="checkbox"/> | 24500 | C-500 | 0.023" | 0.156" | 0.562" | 0.28 | 11 | 19.00 | 4.5 | 6 |
| <input type="checkbox"/> | 24510 | C-510 | 0.035" | 0.25" | 0.5" | 0.26 | 7 | 42.00 | 6.2 | 6 |
| <input type="checkbox"/> | 24516 | C-516 | 0.011" | 0.156" | 1" | 0.14 | 12 | 0.73 | 0.57 | 6 |
| <input type="checkbox"/> | 24520 | C-520 | 0.016" | 0.187" | 0.875" | 0.27 | 16 | 1.30 | 0.81 | 6 |
| <input type="checkbox"/> | 24526 | C-526 | 0.028" | 0.187" | 1" | 0.48 | 17 | 15.00 | 6.3 | 6 |
| <input type="checkbox"/> | 24530 | C-530 | 0.02" | 0.218" | 1" | 0.24 | 11 | 3.30 | 2.2 | 6 |
| <input type="checkbox"/> | 24532 | C-532 | 0.013" | 0.187" | 1" | 0.14 | 10 | 0.99 | 0.78 | 6 |
| <input type="checkbox"/> | 24550 | C-550 | 0.016" | 0.187" | 1" | 0.2 | 12 | 2.00 | 1.3 | 6 |
| <input type="checkbox"/> | 24554 | C-554 | 0.02" | 0.25" | 1" | 0.2 | 9 | 2.80 | 1.9 | 6 |
| <input type="checkbox"/> | 24556 | C-556 | 0.026" | 0.312" | 0.625" | 0.18 | 7 | 7.00 | 3.1 | 6 |
| <input type="checkbox"/> | 24562 | C-562 | 0.035" | 0.25" | 1" | 0.46 | 12 | 21.00 | 8.9 | 6 |
| <input type="checkbox"/> | 24566 | C-566 | 0.032" | 0.375" | 0.75" | 0.22 | 6 | 7.70 | 3.2 | 6 |
| <input type="checkbox"/> | 24570 | C-570 | 0.014" | 0.125" | 1.375" | 0.34 | 27 | 1.60 | 1.4 | 6 |
| <input type="checkbox"/> | 24576 | C-576 | 0.016" | 0.156" | 1.375" | 0.35 | 21 | 1.80 | 1.6 | 6 |
| <input type="checkbox"/> | 24578 | C-578 | 0.013" | 0.187" | 1.375" | 0.18 | 12 | 0.71 | 0.78 | 6 |
| <input type="checkbox"/> | 24580 | C-580 | 0.028" | 0.187" | 1.375" | 0.65 | 23 | 11.00 | 6.3 | 6 |
| <input type="checkbox"/> | 24582 | C-582 | 0.016" | 0.187" | 1.375" | 0.26 | 15 | 1.40 | 1.3 | 6 |
| <input type="checkbox"/> | 24600 | C-600 | 0.02" | 0.218" | 1.375" | 0.31 | 15 | 2.40 | 2.2 | 4 |
| <input type="checkbox"/> | 24604 | C-604 | 0.023" | 0.218" | 1.375" | 0.39 | 16 | 3.90 | 3.3 | 4 |
| <input type="checkbox"/> | 24608 | C-608 | 0.02" | 0.25" | 1.375" | 0.25 | 12 | 2.00 | 1.9 | 4 |
| <input type="checkbox"/> | 24612 | C-612 | 0.028" | 0.281" | 1.375" | 0.43 | 15 | 4.40 | 4.1 | 4 |
| <input type="checkbox"/> | 24614 | C-614 | 0.041" | 0.312" | 1.25" | 0.62 | 15 | 17.00 | 8.3 | 4 |
| <input type="checkbox"/> | 24624 | C-624 | 0.041" | 0.375" | 1.125" | 0.46 | 10 | 13.00 | 7 | 4 |
| <input type="checkbox"/> | 24632 | C-632 | 0.041" | 0.437" | 1.062" | 0.36 | 8 | 11.00 | 6.1 | 4 |
| <input type="checkbox"/> | 24650 | C-650 | 0.013" | 0.218" | 1.75" | 0.247 | 18 | 0.29 | 0.44 | 4 |
| <input type="checkbox"/> | 24652 | C-652 | 0.028" | 0.218" | 1.375" | 0.53 | 18 | 8.10 | 5.5 | 4 |
| <input type="checkbox"/> | 24660 | C-660 | 0.016" | 0.312" | 1.75" | 0.2 | 12 | 0.39 | 0.61 | 4 |
| <input type="checkbox"/> | 24664 | C-664 | 0.047" | 0.343" | 1.5" | 0.71 | 15 | 23.00 | 11 | 4 |
| <input type="checkbox"/> | 24668 | C-668 | 0.026" | 0.375" | 1.5" | 0.26 | 10 | 1.70 | 2.2 | 4 |
| <input type="checkbox"/> | 24672 | C-672 | 0.035" | 0.375" | 1.75" | 0.54 | 16 | 3.70 | 4.2 | 4 |
| <input type="checkbox"/> | 24676 | C-676 | 0.032" | 0.437" | 2.125" | 0.39 | 12 | 2.00 | 2.8 | 4 |
| <input type="checkbox"/> | 24680 | C-680 | 0.047" | 0.312" | 2" | 1.14 | 24 | 18.00 | 12 | 4 |

Sizes are approximate. Specifications subject to change without notice.

Packaged Compression Springs Continued

| PART# | REF# | WIRE DIA. | OUTSIDE DIA. | OVERALL LENGTH | SOLID HEIGHT | TOTAL COILS | LOAD RATE (LB/IN) | MAX LOAD (LB) | PKG. QTY. |
|--------------------------------|-------|-----------|--------------|----------------|--------------|-------------|-------------------|---------------|-----------|
| <input type="checkbox"/> 24690 | C-690 | 0.041" | 0.437" | 2.25" | 0.67 | 16 | 4.90 | 6.1 | 2 |
| <input type="checkbox"/> 24692 | C-692 | 0.041" | 0.625" | 1.5" | 0.37 | 9 | 3.40 | 3.8 | 2 |
| <input type="checkbox"/> 24700 | C-700 | 0.062" | 0.5" | 1" | 0.54 | 8 | 45.00 | 17 | 2 |
| <input type="checkbox"/> 24702 | C-702 | 0.054" | 0.562" | 1" | 0.38 | 7 | 16 | 9.5 | 2 |
| <input type="checkbox"/> 24704 | C-704 | 0.041" | 0.5" | 1.5" | 0.45 | 10 | 5.30 | 5.4 | 2 |
| <input type="checkbox"/> 24706 | C-706 | 0.072" | 0.562" | 1.375" | 0.74 | 10 | 45 | 22 | 2 |
| <input type="checkbox"/> 24712 | C-712 | 0.091" | 0.687" | 1.25" | 0.75 | 8 | 89 | 35 | 2 |
| <input type="checkbox"/> 24714 | C-714 | 0.062" | 0.375" | 2.25" | 1.46 | 22 | 34 | 22 | 2 |
| <input type="checkbox"/> 24720 | C-720 | 0.062" | 0.5" | 1.75" | 0.85 | 14 | 24 | 17 | 2 |
| <input type="checkbox"/> 24722 | C-722 | 0.047" | 0.5" | 2" | 0.635 | 13 | 7.19 | N/A | 2 |
| <input type="checkbox"/> 24724 | C-724 | 0.054" | 0.437" | 2" | 0.89 | 16 | 16 | 13 | 2 |
| <input type="checkbox"/> 24730 | C-730 | 0.047" | 0.406" | 2.75" | 1.12 | 23 | 7.30 | 9.7 | 2 |
| <input type="checkbox"/> 24736 | C-736 | 0.072" | 0.5" | 2.75" | 1.48 | 19 | 28 | 25 | 2 |
| <input type="checkbox"/> 24740 | C-740 | 0.08" | 0.625" | 2.5" | 1.14 | 14 | 32 | 27 | 2 |
| <input type="checkbox"/> 24742 | C-742 | 0.054" | 0.625" | 2.75" | 0.77 | 14 | 5.80 | 9.1 | 2 |
| <input type="checkbox"/> 24750 | C-750 | 0.08" | 0.75" | 2" | 0.78 | 10 | 25 | 23 | 2 |
| <input type="checkbox"/> 24752 | C-752 | 0.08" | 0.937" | 2" | 0.67 | 8 | 17 | 19 | 2 |
| <input type="checkbox"/> 24756 | C-756 | 0.041" | 0.718" | 3.5" | 0.47 | 11 | 1.50 | 3.8 | 2 |
| <input type="checkbox"/> 24766 | C-766 | 0.054" | 0.562" | 3" | 0.96 | 17 | 6.30 | 10 | 2 |
| <input type="checkbox"/> 24768 | C-768 | 0.105" | 0.812" | 2.25" | 1.26 | 11 | 54.94 | N/A | 2 |
| <input type="checkbox"/> 24782 | C-782 | 0.08" | 0.625" | 3" | 1.34 | 16 | 26 | 27 | 2 |
| <input type="checkbox"/> 24792 | C-792 | 0.105" | 0.875" | 3" | 1.39 | 14 | 34 | 43 | 2 |
| <input type="checkbox"/> 24802 | C-802 | 0.148" | 1.375" | 4.375" | 1.83 | 13 | 36 | 72 | 1 |
| <input type="checkbox"/> 24806 | C-806 | 0.148" | 1.5" | 3.25" | 1.26 | 9 | 43 | 67 | 1 |
| <input type="checkbox"/> 24814 | C-814 | 0.135" | 1.375" | 2.5" | 0.98 | 8 | 48 | 55 | 1 |
| <input type="checkbox"/> 24818 | C-818 | 0.12" | 1.125" | 4" | 1.72 | 13 | 26 | 48 | 2 |
| <input type="checkbox"/> 24822 | C-822 | 0.148" | 0.937" | 4" | 2.63 | 12 | 89 | 103 | 2 |
| <input type="checkbox"/> 24826 | C-826 | 0.12" | 1" | 3.5" | 1.71 | 15 | 36 | 54 | 2 |
| <input type="checkbox"/> 24830 | C-830 | 0.12" | 1.125" | 3" | 1 | 10 | 22 | 34 | 2 |
| <input type="checkbox"/> 24832 | C-832 | 0.12" | 1" | 3" | 1.41 | 12 | 45 | 54 | 2 |
| <input type="checkbox"/> 24834 | C-834 | 0.12" | 1.187" | 2.75" | 1.2 | 9 | 35 | 46 | 2 |
| <input type="checkbox"/> 24836 | C-836 | 0.08" | 0.875" | 4" | 1.28 | 15 | 9 | 20 | 2 |
| <input type="checkbox"/> 24838 | C-838 | 0.08" | 0.75" | 3.5" | 1.38 | 16 | 14 | 23 | 2 |
| <input type="checkbox"/> 24850 | C-850 | 0.091" | 0.625" | 5" | 2.64 | 29 | 29 | 38 | 2 |
| <input type="checkbox"/> 24856 | C-856 | 0.091" | 0.75" | 6" | 2.78 | 30 | 13 | 32 | 2 |
| <input type="checkbox"/> 24858 | C-858 | 0.072" | 0.687" | 6" | 2.16 | 29 | 6.20 | 18 | 2 |
| <input type="checkbox"/> 24864 | C-864 | 0.091" | 0.875" | 6" | 2.18 | 23 | 9.30 | 28 | 1 |
| <input type="checkbox"/> 24874 | C-874 | 0.12" | 1.375" | 6" | 1.08 | 14 | 13 | 40 | 1 |
| <input type="checkbox"/> 24878 | C-878 | 0.08" | 0.625" | 9" | 3.72 | 45 | 8.40 | 27 | 1 |
| <input type="checkbox"/> 24892 | C-892 | 0.162" | 1.125" | 7" | 4 | 24 | 49 | 111 | 1 |



General Hardware

Sizes are approximate. Specifications subject to change without notice.

Legend: 12x24 24x24 Plan-O-Gram Rack/End Cap Other



What are retaining rings?

Retaining Rings are precision engineered components that are designed to be applied on shafts or in bores and provide a shoulder that accurately positions, locates and retains other parts of an assembly. Many different types of retaining rings have been developed over the years, each a solution to a specific problem. Different types of rings are available to solve issues such as: tolerance take-up, clearance diameter, thrust load capacity, flexible installation, rpm capacity, impact loading, non-removable lock-rings, groove-less push-on fastening and radial installation.

As an engineering concept, the retaining ring is still relatively young and has certainly not yet reached its peak of utilization as a retaining device.

How are retaining rings used?

Retaining Rings work by creating a shoulder that can hold components in place. The retaining shoulder is created when the ring attaches itself to the bore or shaft, typically by snapping into a groove.

Ordinarily (however not always) a groove is dug into the shaft or bore, and this groove becomes the seat for the retaining ring.

Retaining rings are designed such that their contact diameter has some interference fit with the groove in which they fit. This creates a "snug" fit between the ring and groove. The term used to describe the amount of interference fit is "cling".

Cling causes the retaining ring to fit tightly and securely against its groove bottom. Without cling a ring would have a loose fit and would "rattle" in its groove. This lack of cling would decrease the retention capacity of the ring because a "cling-less" ring is free to move radially, creating weak retention points that will ultimately cause the assembly to fail.

Another key factor is the width of the groove. The groove width is slightly larger than the rings thickness, thus creating a snug axial fit. The tight axial fit along with the cling to the groove bottom create a rigid shoulder which can retain thrust loads.

E Retainer Rings

The universally used radially assembled circlip for shafts. The groove is gripped by 3 tabs. Applications in vehicle construction, optical and electronic industry, and light mechanical industry. Cross reference to 1000, 1500, 5133,ms-16633 series. S.A.E. 1060-1090 Spring steel. Phosphate & oil finish. 10 pieces per pkg.



Reference Chart Available

See end of catalogue

| PART# | IND# | SHAFT DECIMAL | SHAFT FRACTION | RING OUTSIDE DIA. | RING THICKNESS | GROOVE DIA. | GROOVE DEPTH | GROOVE WIDTH | WEIGHT (LB) /100 PIECES |
|--|------|---------------|----------------|-------------------|----------------|-------------|--------------|--------------|-------------------------|
|  22860 | 12 | 0.125 | 1/8" | 0.23 | 0.015 | 0.10 | 0.02 | 0.02 | 0.0087 |
|  22861 | 18 | 0.188 | 3/16" | 0.335 | 0.025 | 0.15 | 0.02 | 0.029 | 0.029 |
|  22862 | 25 | 0.25 | 1/4" | 0.527 | 0.025 | 0.21 | 0.02 | 0.029 | 0.076 |
|  22863 | 31 | 0.312 | 5/16" | 0.5 | 0.025 | 0.25 | 0.03 | 0.029 | 0.057 |
|  22864 | 37 | 0.375 | 3/8" | 0.66 | 0.035 | 0.30 | 0.04 | 0.039 | 0.15 |
|  22865 | 43 | 0.438 | 7/16" | 0.687 | 0.035 | 0.34 | 0.05 | 0.039 | 0.15 |
|  22866 | 50 | 0.5 | 1/2" | 0.8 | 0.042 | 0.40 | 0.05 | 0.046 | 0.25 |
|  22867 | 62 | 0.625 | 5/8" | 0.94 | 0.042 | 0.49 | 0.07 | 0.046 | 0.32 |
|  22868 | 75 | 0.75 | 3/4" | 1.12 | 0.05 | 0.58 | 0.09 | 0.056 | 0.58 |
|  22869 | 87 | 0.875 | 7/8" | 1.3 | 0.05 | 0.68 | 0.10 | 0.056 | 0.76 |
|  22870 | 98 | 0.984 | 1" | 1.5 | 0.05 | 0.84 | 0.08 | 0.056 | 0.92 |
|  22871 | 118 | 1.188 | 1-3/16" | 1.626 | 0.062 | 1.08 | 0.05 | 0.068 | 1.13 |
|  22872 | 137 | 1.375 | 1-3/8" | 1.875 | 0.062 | 1.23 | 0.07 | 0.068 | 1.54 |

Sizes are approximate. Specifications subject to change without notice.

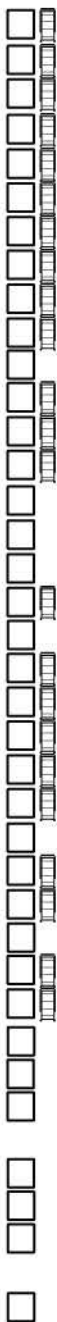


General Hardware

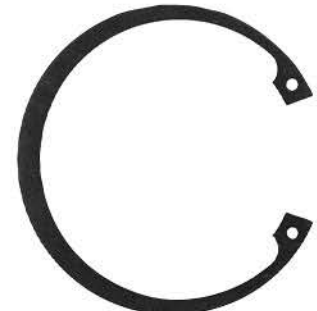


Internal Retainer Rings

The universally applicable rings for shafts and bores. Applications in all branches of industry and machine, instrument and vehicle construction. Cross reference to 1300, 3000, 5000, HO, MS-16625 series. S.A.E. 1060-1090 Spring steel. Phosphate and oil finish.



| PART# | IND# | BORE DECIMAL | BORE FRACTION | RING OUTSIDE DIAMETER | RING THICKNESS | GROOVE DIAMETER | GROOVE DEPTH | GROOVE WIDTH | PKG. QTY. |
|-------|------|--------------|---------------|-----------------------|----------------|-----------------|--------------|--------------|-----------|
| 22873 | 25 | 0.25 | 1/4" | 0.28 | 0.015 | 0.27 | 0.01 | 0.02 | 10 |
| 22874 | 31 | 0.312 | 5/16" | 0.346 | 0.015 | 0.33 | 0.01 | 0.02 | 10 |
| 22875 | 37 | 0.375 | 3/8" | 0.415 | 0.025 | 0.40 | 0.01 | 0.029 | 10 |
| 22876 | 43 | 0.438 | 7/16" | 0.482 | 0.025 | 0.46 | 0.01 | 0.029 | 10 |
| 22878 | 50 | 0.5 | 1/2" | 0.548 | 0.035 | 0.53 | 0.02 | 0.039 | 10 |
| 22879 | 56 | 0.562 | 9/16" | 0.62 | 0.035 | 0.60 | 0.02 | 0.039 | 10 |
| 22880 | 62 | 0.625 | 5/8" | 0.694 | 0.035 | 0.67 | 0.02 | 0.039 | 10 |
| 22881 | 68 | 0.688 | 11/16" | 0.763 | 0.035 | 0.73 | 0.02 | 0.039 | 10 |
| 22882 | 75 | 0.75 | 3/4" | 0.831 | 0.035 | 0.80 | 0.02 | 0.039 | 10 |
| 22884 | 87 | 0.875 | 7/8" | 0.971 | 0.042 | 0.93 | 0.03 | 0.046 | 10 |
| 22885 | 93 | 0.938 | 15/16" | 1.041 | 0.042 | 1.00 | 0.03 | 0.046 | 10 |
| 22886 | 100 | 1 | 1" | 1.111 | 0.042 | 1.07 | 0.03 | 0.046 | 10 |
| 22888 | 106 | 1.062 | 1-1/16" | 1.18 | 0.05 | 1.13 | 0.03 | 0.056 | 10 |
| 22889 | 112 | 1.125 | 1-1/8" | 1.249 | 0.05 | 1.20 | 0.04 | 0.056 | 10 |
| 22890 | 118 | 1.188 | 1-3/16" | 1.319 | 0.05 | 1.26 | 0.04 | 0.056 | 10 |
| 22891 | 125 | 1.25 | 1-1/4" | 1.388 | 0.05 | 1.33 | 0.04 | 0.056 | 10 |
| 22892 | 131 | 1.312 | 1-5/16" | 1.456 | 0.05 | 1.40 | 0.04 | 0.056 | 10 |
| 22893 | 137 | 1.375 | 1-3/8" | 1.526 | 0.05 | 1.46 | 0.04 | 0.056 | 10 |
| 22894 | 143 | 1.438 | 1-7/16" | 1.596 | 0.05 | 1.53 | 0.05 | 0.056 | 10 |
| 22895 | 150 | 1.5 | 1-1/2" | 1.66 | 0.05 | 1.59 | 0.05 | 0.056 | 10 |
| 22896 | 156 | 1.562 | 1-9/16" | 1.734 | 0.062 | 1.66 | 0.05 | 0.068 | 10 |
| 22897 | 162 | 1.625 | 1-5/8" | 1.804 | 0.062 | 1.73 | 0.05 | 0.068 | 10 |
| 22900 | 175 | 1.75 | 1-3/4" | 1.942 | 0.062 | 1.86 | 0.05 | 0.068 | 10 |
| 22901 | 181 | 1.812 | 1-13/16" | 2.012 | 0.062 | 1.92 | 0.06 | 0.068 | 10 |
| 22902 | 187 | 1.875 | 1-7/8" | 2.072 | 0.062 | 1.99 | 0.06 | 0.068 | 10 |
| 22903 | 193 | 1.938 | 1-15/16" | 2.141 | 0.062 | 2.06 | 0.06 | 0.068 | 10 |
| 22904 | 200 | 2 | 2" | 2.21 | 0.062 | 2.12 | 0.06 | 0.068 | 10 |
| 22905 | 206 | 2.062 | 2-1/16" | 2.28 | 0.078 | 2.19 | 0.06 | 0.086 | 5 |
| 22906 | 212 | 2.125 | 2-1/8" | 2.35 | 0.078 | 2.25 | 0.06 | 0.086 | 5 |
| 22907 | 225 | 2.25 | 2-1/4" | 2.49 | 0.078 | 2.38 | 0.07 | 0.086 | 5 |
| 22908 | 237 | 2.375 | 2-3/8" | 2.63 | 0.078 | 2.52 | 0.07 | 0.086 | 5 |
| 22909 | 244 | 2.44 | 2-7/16" | 2.702 | 0.078 | 2.58 | 0.07 | 0.086 | 5 |
| 22910 | 250 | 2.5 | 2-1/2" | 2.775 | 0.078 | 2.65 | 0.07 | 0.086 | 5 |
| 22911 | 262 | 2.625 | 2-5/8" | 2.91 | 0.093 | 2.78 | 0.08 | 0.103 | 5 |
| 22912 | 268 | 2.688 | 2-11/16" | 2.98 | 0.093 | 2.85 | 0.08 | 0.103 | 5 |
| 22913 | 275 | 2.75 | 2-3/4" | 3.05 | 0.093 | 2.91 | 0.08 | 0.103 | 5 |
| 22914 | 281 | 2.812 | 2-13/16" | 3.121 | 0.093 | 2.98 | 0.08 | 0.103 | 5 |
| 22915 | 287 | 2.875 | 2-7/8" | 3.191 | 0.093 | 3.05 | 0.09 | 0.103 | 2 |
| 22916 | 300 | 3 | 3" | 3.325 | 0.093 | 3.18 | 0.09 | 0.103 | 2 |
| 22917 | 325 | 3.25 | 3-1/4" | 3.623 | 0.109 | 3.45 | 0.10 | 0.12 | 2 |
| 22918 | 350 | 3.5 | 3-1/2" | 3.89 | 0.109 | 3.71 | 0.11 | 0.12 | 2 |
| 22919 | 400 | 4 | 4" | 4.424 | 0.109 | 4.24 | 0.12 | 0.12 | 2 |
| 22920 | 450 | 4.5 | 4-1/2" | 4.94 | 0.109 | 4.74 | 0.12 | 0.12 | 2 |
| 22921 | 500 | 5 | 5" | 5.485 | 0.109 | 5.26 | 0.13 | 0.12 | 2 |
| 22922 | 550 | 5.5 | 5-1/2" | 6.066 | 0.125 | 5.77 | 0.14 | 0.139 | 2 |
| 22923 | 600 | 6 | 6" | 6.62 | 0.125 | 6.27 | 0.14 | 0.139 | 2 |



Reference Chart Available
See end of catalogue

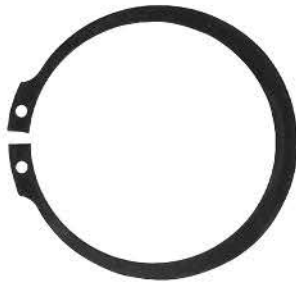
Sizes are approximate. Specifications subject to change without notice.



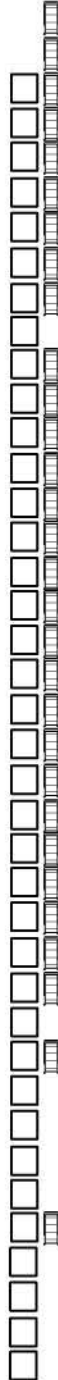
External Retainer Rings (Basic)

The universally applicable rings for shafts and bores. Applications in all branches of industry and machine, instrument and vehicle construction. Cross reference to 1300, 3000, 5000, HO, MS-16625 series. S.A.E. 1060-1090 spring steel. Phosphate and oil finish.

| PART# | IND# | SHAFT DECIMAL | SHAFT FRACTION | RING OUTSIDE DIAMETER | RING THICKNESS | GROOVE DIAMETER | GROOVE DEPTH | GROOVE WIDTH | PKG. QTY. |
|-------|------|---------------|----------------|-----------------------|----------------|-----------------|--------------|--------------|-----------|
| 22924 | 18 | 0.188 | 3/16" | 0.168 | 0.015 | 0.18 | 0.01 | 0.018 | 10 |
| 22925 | 25 | 0.25 | 1/4" | 0.225 | 0.025 | 0.23 | 0.01 | 0.029 | 10 |
| 22926 | 31 | 0.312 | 5/16" | 0.281 | 0.025 | 0.29 | 0.01 | 0.029 | 10 |
| 22928 | 37 | 0.375 | 3/8" | 0.338 | 0.025 | 0.35 | 0.01 | 0.029 | 10 |
| 22929 | 43 | 0.438 | 7/16" | 0.395 | 0.025 | 0.41 | 0.01 | 0.029 | 10 |
| 22931 | 50 | 0.5 | 1/2" | 0.461 | 0.035 | 0.47 | 0.02 | 0.039 | 10 |
| 22932 | 56 | 0.562 | 9/16" | 0.521 | 0.035 | 0.53 | 0.02 | 0.039 | 10 |
| 22933 | 59 | 0.594 | 19/32" | 0.55 | 0.035 | 0.56 | 0.02 | 0.039 | 10 |
| 22934 | 62 | 0.625 | 5/8" | 0.579 | 0.035 | 0.59 | 0.02 | 0.039 | 10 |
| 22935 | 66 | 0.672 | 43/64" | 0.621 | 0.035 | 0.63 | 0.02 | 0.039 | 10 |
| 22936 | 68 | 0.688 | 11/16" | 0.635 | 0.042 | 0.65 | 0.02 | 0.046 | 10 |
| 22937 | 75 | 0.75 | 3/4" | 0.693 | 0.042 | 0.70 | 0.02 | 0.046 | 10 |
| 22938 | 81 | 0.812 | 13/16" | 0.751 | 0.042 | 0.76 | 0.03 | 0.046 | 10 |
| 22939 | 87 | 0.875 | 7/8" | 0.81 | 0.042 | 0.82 | 0.03 | 0.046 | 10 |
| 22940 | 93 | 0.938 | 15/16" | 0.867 | 0.042 | 0.88 | 0.03 | 0.046 | 10 |
| 22942 | 100 | 1 | 1" | 0.925 | 0.042 | 0.94 | 0.03 | 0.046 | 10 |
| 22944 | 106 | 1.062 | 1-1/16" | 0.982 | 0.05 | 1.00 | 0.03 | 0.056 | 10 |
| 22945 | 112 | 1.125 | 1-1/8" | 1.041 | 0.05 | 1.06 | 0.03 | 0.056 | 10 |
| 22946 | 118 | 1.188 | 1-3/16" | 1.098 | 0.05 | 1.12 | 0.04 | 0.056 | 10 |
| 22947 | 125 | 1.25 | 1-1/4" | 1.156 | 0.05 | 1.18 | 0.04 | 0.056 | 10 |
| 22948 | 131 | 1.312 | 1-5/16" | 1.214 | 0.05 | 1.23 | 0.04 | 0.056 | 10 |
| 22949 | 137 | 1.375 | 1-3/8" | 1.272 | 0.05 | 1.29 | 0.04 | 0.056 | 10 |
| 22950 | 143 | 1.438 | 1-7/16" | 1.333 | 0.05 | 1.35 | 0.04 | 0.056 | 10 |
| 22951 | 150 | 1.5 | 1-1/2" | 1.387 | 0.05 | 1.41 | 0.05 | 0.056 | 10 |
| 22952 | 156 | 1.562 | 1-9/16" | 1.446 | 0.062 | 1.47 | 0.05 | 0.068 | 10 |
| 22953 | 162 | 1.625 | 1-5/8" | 1.503 | 0.062 | 1.53 | 0.05 | 0.068 | 10 |
| 22954 | 168 | 1.688 | 1-11/16" | 1.56 | 0.062 | 1.59 | 0.05 | 0.068 | 10 |
| 22955 | 175 | 1.75 | 1-3/4" | 1.618 | 0.062 | 1.65 | 0.05 | 0.068 | 10 |
| 22956 | 187 | 1.875 | 1-7/8" | 1.735 | 0.062 | 1.77 | 0.05 | 0.06 | 10 |
| 22957 | 196 | 1.969 | 1-31/32" | 1.819 | 0.062 | 1.86 | 0.06 | 0.068 | 10 |
| 22958 | 200 | 2 | 2" | 1.85 | 0.062 | 1.89 | 0.06 | 0.068 | 10 |
| 22960 | 212 | 2.125 | 2-1/8" | 1.964 | 0.078 | 2.00 | 0.06 | 0.086 | 5 |
| 22962 | 225 | 2.25 | 2-1/4" | 2.081 | 0.078 | 2.12 | 0.07 | 0.086 | 5 |
| 22963 | 237 | 2.375 | 2-3/8" | 2.197 | 0.078 | 2.24 | 0.07 | 0.086 | 5 |
| 22964 | 243 | 2.438 | 2-7/16" | 2.255 | 0.078 | 2.30 | 0.07 | 0.086 | 5 |
| 22965 | 250 | 2.5 | 2-1/2" | 2.313 | 0.078 | 2.36 | 0.07 | 0.086 | 5 |
| 22966 | 262 | 2.625 | 2-5/8" | 2.428 | 0.078 | 2.48 | 0.07 | 0.086 | 5 |
| 22967 | 275 | 2.75 | 2-3/4" | 2.543 | 0.093 | 2.60 | 0.07 | 0.103 | 2 |
| 22968 | 287 | 2.875 | 2-7/8" | 2.659 | 0.093 | 2.72 | 0.08 | 0.1 | 2 |
| 22970 | 300 | 3 | 3" | 2.775 | 0.093 | 2.84 | 0.08 | 0.1 | 2 |
| 22971 | 350 | 3.5 | 3-1/2" | 3.237 | 0.109 | 3.32 | 0.09 | 0.12 | 2 |
| 22972 | 400 | 4 | 4" | 3.7 | 0.109 | 3.79 | 0.10 | 0.12 | 2 |
| 22973 | 450 | 4.5 | 4-1/2" | 4.223 | 0.109 | 4.31 | 0.10 | 0.12 | 2 |
| 22974 | 500 | 5 | 5" | 4.692 | 0.109 | 4.79 | 0.11 | 0.12 | 2 |
| 22975 | 600 | 6 | 6" | 5.631 | 0.125 | 5.75 | 0.13 | 0.139 | 2 |



Reference Chart Available
See end of catalogue



Sizes are approximate. Specifications subject to change without notice.

