

FASTENERS



Professional Quality Products

2008



PINS

BUSHINGS

RETAINER RINGS

KEYSTOCK

WOODRUFF KEYS

SPRINGS



A wide range of consumables, packaged to support a convenient shopping experience

| | |
|-------------------------------------|----|
| Clevis Pins | 82 |
| Universal Clevis Pins | 82 |
| Spring Pin Dynapaks | 82 |
| Cotter Pin Dynapaks | 82 |
| Socket Set Screw Dynapaks | 82 |
| Nylon Insert Locknut Dynapaks | 82 |
| KEYSTOCK | |
| Square Keystock | 83 |
| Rectangular Keystock | 83 |
| Step Keystock | 83 |
| Machinery Bushings | 83 |
| SPRINGS | |
| Expansion Springs | 84 |
| Drawbar Spring | 85 |
| Compression Springs | 86 |
| RETAINER RINGS | |
| External "E" Retainer Rings | 87 |
| Internal Retainer Rings | 88 |
| External Retainer Rings | 88 |

The word "FASTENERS" in a bold, black, sans-serif font, positioned in the lower right quadrant of the page. The background of the entire page is a light yellow color with faint, semi-transparent images of various fasteners like springs, pins, and rings.



CLEVIS PINS

10 pcs/pkg.

| Part# | Dia. | A | B | Part# | Dia. | A | B |
|-------|-------|--------|--------|-------|-------|--------|--------|
| 22500 | 1/4" | 1" | 1-1/4" | 22521 | 3/8" | 1-3/4" | 2" |
| 22501 | 1/4" | 1-1/4" | 1-1/2" | 22522 | 3/8" | 2" | 2-1/4" |
| 22502 | 1/4" | 1-1/2" | 1-3/4" | 22523 | 3/8" | 2-1/4" | 2-1/2" |
| 22503 | 1/4" | 1-3/4" | 2" | 22528 | 7/16" | 1-1/4" | 1-1/2" |
| 22504 | 1/4" | 2" | 2-1/4" | 22529 | 7/16" | 1-1/2" | 1-3/4" |
| 22505 | 1/4" | 2-1/4" | 2-1/2" | 22530 | 7/16" | 1-3/4" | 2" |
| 22509 | 5/16" | 1" | 1-1/4" | 22531 | 7/16" | 2" | 2-1/4" |
| 22510 | 5/16" | 1-1/4" | 1-1/2" | 22532 | 7/16" | 2-1/4" | 2-1/2" |
| 22511 | 5/16" | 1-1/2" | 1-3/4" | 22536 | 1/2" | 1" | 1-1/4" |
| 22512 | 5/16" | 1-3/4" | 2" | 22537 | 1/2" | 1-1/4" | 1-1/2" |
| 22513 | 5/16" | 2" | 2-1/4" | 22538 | 1/2" | 1-1/2" | 1-3/4" |
| 22514 | 5/16" | 2-1/4" | 2-1/2" | 22539 | 1/2" | 1-3/4" | 2" |
| 22518 | 3/8" | 1" | 1-1/4" | 22540 | 1/2" | 2" | 2-1/4" |
| 22519 | 3/8" | 1-1/4" | 1-1/2" | 22541 | 1/2" | 2-1/4" | 2-1/2" |
| 22520 | 3/8" | 1-1/2" | 1-3/4" | | | | |

Clevis Pin Dynapaks

| Part# | Contents | Part# | Contents | Part# | Contents |
|-------|-----------|-------|-----------|-------|-----------|
| 92500 | 5 x 22500 | 92511 | 5 x 22511 | 92522 | 3 x 22522 |
| 92502 | 5 x 22502 | 92513 | 5 x 22513 | 92529 | 2 x 22529 |
| 92504 | 5 x 22504 | 92518 | 3 x 22518 | 92538 | 2 x 22538 |
| 92509 | 5 x 22509 | 92520 | 3 x 22520 | 92540 | 2 x 22540 |

UNIVERSAL CLEVIS PINS

| Part# | Dia. | L | Qty | Part# | Dia. | L | Qty |
|-------|-------|----|-----|-------|------|--------|-----|
| 22545 | 1/4" | 2" | 5 | 22551 | 1/2" | 2-1/2" | 5 |
| 22546 | 5/16" | 2" | 5 | 22553 | 1/2" | 3" | 5 |
| 22547 | 3/8" | 2" | 5 | 22554 | 5/8" | 3" | 5 |
| 22549 | 1/2" | 2" | 5 | 22555 | 3/4" | 3" | 5 |

SPRING PINS DYNAPAKS

| Part# | Dia. | L | Qty | Part# | Dia. | L | Qty |
|-------|-------|--------|-----|-------|-------|--------|-----|
| 92562 | 1/8" | 1" | 10 | 92573 | 1/4" | 1" | 10 |
| 92564 | 1/8" | 2" | 10 | 92574 | 1/4" | 1-1/2" | 5 |
| 92566 | 5/32" | 1" | 10 | 92576 | 1/4" | 2" | 5 |
| 92567 | 5/32" | 1-1/2" | 10 | 92579 | 5/16" | 1-1/2" | 5 |
| 92569 | 3/16" | 1" | 10 | 92581 | 5/16" | 2" | 5 |
| 92570 | 3/16" | 1-1/2" | 10 | 92585 | 3/8" | 2" | 5 |

COTTER PINS DYNAPAKS

| Part# | Description | Qty | Part# | Description | Qty |
|-------|----------------|-----|-------|----------------|-----|
| 92650 | 1/16" x 1" | 50 | 92661 | 3/16" x 1" | 15 |
| 92651 | 3/32" x 1" | 50 | 92662 | 3/16" x 1-1/2" | 15 |
| 92653 | 1/8" x 1" | 50 | 92663 | 3/16" x 2" | 15 |
| 92654 | 1/8" x 1-1/2" | 25 | 92665 | 1/4" x 1-1/2" | 10 |
| 92657 | 5/32" x 1" | 25 | 92666 | 1/4" x 2" | 10 |
| 92658 | 5/32" x 1-1/2" | 25 | 92670 | 5/16" x 2" | 8 |

SOCKET SET SCREWS DYNAPAKS

| Part# | Size | Qty | Part# | Size | Qty |
|-------|-----------------|-----|-------|-----------------|-----|
| 92301 | 10 x 1/4" NC | 10 | 92316 | 5/16" x 3/8" NC | 10 |
| 92302 | 10 x 5/16" NC | 10 | 92317 | 5/16" x 1/2" NC | 10 |
| 92306 | 1/4" x 1/4" NC | 10 | 92323 | 3/8" x 3/8" NC | 10 |
| 92307 | 1/4" x 5/16" NC | 10 | 92324 | 3/8" x 1/2" NC | 10 |
| 92308 | 1/4" x 3/8" NC | 10 | | | |

NYLON INSERT LOCKNUTS DYNAPAKS

| Part# | Size | Qty | Part# | Size | Qty |
|-------|----------|-----|-------|----------|-----|
| 92430 | 1/4" NC | 5 | 92433 | 7/16" NC | 5 |
| 92431 | 5/16" NC | 5 | 92434 | 1/2" NC | 2 |
| 92432 | 3/8" NC | 5 | | | |

Sizes are approximate. Specifications subject to change without notice.

KEYSTOCK

Supplied in 12" lengths only. Cold-drawn C-1018 steel.
Zinc plated finish. Rockwell "B" hardness: 82

Square Keystock

| Part# | W | H | Qty | Part# | W | H | Qty | Part# | W | H | Qty |
|-------|-------|-------|-----|-------|-------|-------|-----|-------|------|------|-----|
| 22750 | 1/8" | 1/8" | 5 | 22754 | 3/8" | 3/8" | 5 | 22760 | 3/4" | 3/4" | 2 |
| 22751 | 3/16" | 3/16" | 5 | 22755 | 7/16" | 7/16" | 5 | 22761 | 7/8" | 7/8" | 1 |
| 22752 | 1/4" | 1/4" | 5 | 22756 | 1/2" | 1/2" | 5 | 22763 | 1" | 1" | 1 |
| 22753 | 5/16" | 5/16" | 5 | 22758 | 5/8" | 5/8" | 2 | | | | |

Rectangular Keystock

| Part# | W | H | Qty | Part# | W | H | Qty | Part# | W | H | Qty |
|-------|------|-------|-----|-------|-------|-------|-----|-------|-------|------|-----|
| 22782 | 1/4" | 3/16" | 5 | 22789 | 5/16" | 7/16" | 5 | 22795 | 7/16" | 1/2" | 5 |
| 22785 | 1/4" | 5/16" | 5 | 22791 | 3/8" | 7/16" | 5 | 22796 | 1/2" | 5/8" | 2 |
| 22786 | 1/4" | 3/8" | 5 | 22792 | 3/8" | 1/2" | 5 | | | | |

Step Keystock

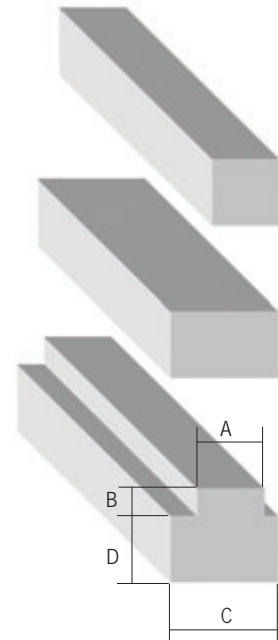
| Part# | A | B | C | D | Qty | Part# | A | B | C | D | Qty |
|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|
| 22821 | 3/16" | 3/32" | 1/4" | 3/32" | 2 | 22825 | 3/8" | 3/16" | 7/16" | 5/32" | 2 |
| 22822 | 1/4" | 1/8" | 5/16" | 1/8" | 2 | 22826 | 3/8" | 3/16" | 1/2" | 3/16" | 2 |
| 22823 | 1/4" | 1/8" | 3/8" | 3/16" | 2 | 22827 | 7/16" | 5/32" | 1/2" | 1/4" | 2 |
| 22824 | 5/16" | 5/32" | 3/8" | 3/16" | 2 | 22828 | 1/2" | 1/4" | 5/8" | 1/4" | 2 |

MACHINERY BUSHINGS

Mid steel. Plain finish.

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

* 18 Gauge (L) = 3/64"
14 Gauge (M) = 5/64"
10 Gauge (H) = 1/8"



Fasteners

Machinery Bushing Merchandiser available!

A selection of light, medium & heavy thickness Machinery Bushings in a 12" x 24" display board.

390 pieces / 39 part numbers
DYN 00235K

SEE PAGE **7**



Sizes are approximate. Specifications subject to change without notice.



SPRINGS

Extension Springs

S.A.E. 1060-1090 spring steel.
Phosphate & oil finish.

| Part# | Ref. # | Wire (in.) | O.D. (in.) | Overall Length (in.) | Body Length (in.) | Max. Stretch (in.) | Load Rate (lb./in.) | Max. Load (lb.) | Qty |
|-------|--------|------------|------------|----------------------|-------------------|--------------------|---------------------|-----------------|-----|
| 24001 | C-1 | 0.015 | 0.125 | 1.5 | 0.125 | 2 | 0.65 | 1.4 | 2 |
| 24005 | C-5 | 0.02 | 0.156 | 1.5 | 1.188 | 1.7 | 1.5 | 2.7 | 2 |
| 24013 | C-13 | 0.023 | 0.218 | 1.5 | 1.064 | 2.4 | 1.1 | 2.9 | 2 |
| 24019 | C-19 | 0.035 | 0.25 | 1.5 | 1 | 1.1 | 6.4 | 8.4 | 2 |
| 24023 | C-23 | 0.025 | 0.281 | 1.5 | 0.938 | 3.4 | 0.74 | 2.8 | 2 |
| 24025 | C-25 | 0.02 | 0.312 | 1.5 | 0.876 | 7.7 | 0.17 | 1.4 | 2 |
| 24029 | C-29 | 0.028 | 0.343 | 1.5 | 0.814 | 3.2 | 0.81 | 3.6 | 2 |
| 24031 | C-31 | 0.028 | 0.437 | 1.5 | 0.626 | 4.4 | 0.54 | 2.5 | 2 |
| 24033 | C-33 | 0.047 | 0.437 | 1.5 | 0.626 | 1.6 | 6.2 | 11 | 2 |
| 24051 | C-51 | 0.014 | 0.125 | 1.875 | 1.625 | 3.3 | 0.35 | 1.3 | 2 |
| 24055 | C-55 | 0.02 | 0.156 | 1.875 | 1.563 | 2.7 | 1.1 | 2.2 | 2 |
| 24063 | C-63 | 0.023 | 0.218 | 1.875 | 1.439 | 3.4 | 0.79 | 2.9 | 2 |
| 24067 | C-67 | 0.02 | 0.25 | 1.875 | 1.375 | 6.4 | 0.25 | 1.7 | 2 |
| 24069 | C-69 | 0.035 | 0.25 | 1.875 | 1.375 | 1.5 | 4.7 | 8.4 | 2 |
| 24073 | C-73 | 0.025 | 0.281 | 1.875 | 1.313 | 2.8 | 0.54 | 4.7 | 2 |
| 24077 | C-77 | 0.025 | 0.343 | 1.875 | 1.189 | 6.8 | 0.31 | 2.3 | 2 |
| 24081 | C-81 | 0.028 | 0.437 | 1.875 | 1 | 7.8 | 0.3 | 2.5 | 2 |
| 24083 | C-83 | 0.047 | 0.437 | 1.875 | 1 | 2.3 | 4.3 | 11 | 2 |
| 24103 | C-103 | 0.018 | 0.125 | 2.5 | 2.25 | 2.2 | 0.96 | 2.5 | 2 |
| 24105 | C-105 | 0.02 | 0.156 | 2.5 | 2.188 | 3 | 0.81 | 2.7 | 2 |
| 24111 | C-111 | 0.025 | 0.187 | 2.5 | 2.126 | 2.5 | 1.5 | 4.2 | 2 |
| 24115 | C-115 | 0.016 | 0.25 | 2.5 | 2 | 15 | 0.5 | 0.87 | 2 |
| 24117 | C-117 | 0.02 | 0.25 | 2.5 | 2 | 9 | 0.17 | 1.7 | 2 |
| 24119 | C-119 | 0.035 | 0.25 | 2.5 | 2 | 2.1 | 3.5 | 8.4 | 2 |
| 24131 | C-131 | 0.028 | 0.437 | 2.5 | 1.626 | 13 | 0.18 | 2.5 | 2 |
| 24133 | C-133 | 0.047 | 0.437 | 2.5 | 1.665 | 3.4 | 3 | 11 | 2 |
| 24135 | C-135 | 0.062 | 0.437 | 2 | 1.126 | 0.87 | 17 | 19 | 2 |
| 24139 | C-139 | 0.054 | 0.437 | 3.5 | 2.626 | 2.5 | 4 | 12 | 2 |
| 24141 | C-141 | 0.072 | 0.625 | 2.5 | 1.375 | 1.5 | 10 | 19 | 2 |
| 24143 | C-143 | 0.054 | 0.562 | 3 | 1.875 | 3.4 | 2.3 | 9.2 | 2 |
| 24155 | C-155 | 0.028 | 0.312 | 3 | 2.375 | 7.8 | 0.41 | 3.5 | 2 |
| 24157 | C-157 | 0.025 | 0.25 | 3.25 | 2.75 | 6.4 | 0.44 | 3.1 | 2 |
| 24161 | C-161 | 0.035 | 0.437 | 2.75 | 1.875 | 5.9 | 0.5 | 3.3 | 2 |
| 24163 | C-163 | 0.047 | 0.437 | 3.5 | 2.626 | 3.6 | 2 | 8.4 | 2 |
| 24165 | C-165 | 0.08 | 0.5 | 1.625 | 0.625 | 2 | 66 | 35 | 2 |
| 24171 | C-171 | 0.105 | 0.75 | 2 | 0.5 | 2.59 | 92 | 60 | 2 |
| 24173 | C-173 | 0.105 | 0.75 | 2.25 | 0.75 | 3 | 68 | 60 | 2 |
| 24175 | C-175 | 0.105 | 0.75 | 2.437 | 0.9375 | 3.3 | 47 | 50 | 2 |
| 24177 | C-177 | 0.105 | 0.75 | 2.625 | 1.125 | 3.625 | 38 | 50 | 2 |
| 24179 | C-179 | 0.072 | 0.562 | 2.875 | 1.75 | 4.475 | 11 | 22 | 2 |
| 24181 | C-181 | 0.072 | 0.625 | 3.25 | 2 | 5.6 | 6.4 | 19 | 2 |
| 24183 | C-183 | 0.047 | 0.562 | 4 | 2.91 | 11.6 | 0.76 | 6.5 | 2 |
| 24185 | C-185 | 0.062 | 0.75 | 3.5 | 2 | 9 | 1.7 | 11 | 2 |
| 24187 | C-187 | 0.105 | 0.75 | 2.875 | 1.375 | | 39 | 60 | 2 |
| 24189 | C-189 | 0.105 | 0.75 | 3.125 | 1.625 | 4.3 | 33 | 50 | 2 |
| 24191 | C-191 | 0.105 | 0.75 | 3.75 | 2.25 | 6 | 26 | 50 | 2 |
| 24193 | C-193 | 0.035 | 0.375 | 4 | 3.25 | 11.3 | 0.47 | 3.9 | 2 |
| 24205 | C-205 | 0.035 | 0.25 | 5 | 4.5 | 8.5 | 1.4 | 6 | 2 |
| 24209 | C-209 | 0.028 | 0.375 | 4.5 | 3.75 | 18 | 0.15 | 2.9 | 2 |
| 24215 | C-215 | 0.041 | 0.375 | 3.75 | 3 | 7.5 | 1.4 | 6.5 | 2 |
| 24219 | C-219 | 0.041 | 0.468 | 4.5 | 3.564 | 13 | 0.54 | 5.2 | 2 |
| 24221 | C-221 | 0.062 | 0.5 | 4.5 | 3.5 | 7.7 | 4.1 | 16 | 2 |
| 24223 | C-223 | 0.072 | 0.5 | 5 | 4 | 7.3 | 8.2 | 25 | 2 |
| 24227 | C-227 | 0.091 | 0.687 | 4.75 | 3.875 | 7.25 | 11 | 35 | 2 |
| 24231 | C-231 | 0.072 | 0.562 | 6 | 4.876 | 9.8 | 4.6 | 22 | 2 |
| 24233 | C-233 | 0.035 | 0.25 | 6 | 5.5 | 10.3 | 1.1 | 6 | 2 |
| 24235 | C-235 | 0.028 | 0.312 | 6 | 5.375 | 21 | 0.23 | 3.9 | 2 |
| 24239 | C-239 | 0.047 | 0.375 | 6.5 | 5.75 | 11.5 | 1.6 | 10 | 2 |
| 24243 | C-243 | 0.054 | 0.625 | 6.5 | 5.25 | 17.5 | 0.65 | 8.3 | 2 |
| 24251 | C-251 | 0.105 | 1.125 | 16 | 13.75 | 38 | 1.2 | 31 | 1 |

Sizes are approximate. Specifications subject to change without notice.

SPRINGS (...continued)

Extension Springs (...continued)

| Part# | Ref. # | Wire (in.) | O.D. (in.) | Overall Length (in.) | Body Length (in.) | Max. Stretch (in.) | Load Rate (lb./in.) | Max. Load (lb.) | Qty |
|-------|--------|------------|------------|----------------------|-------------------|--------------------|---------------------|-----------------|-----|
| 24253 | C-253 | 0.054 | 0.562 | 16.5 | 15.375 | 41.5 | 0.32 | 9.2 | 1 |
| 24257 | C-257 | 0.091 | 0.812 | 4.5 | 3.375 | 7.8 | 7.1 | 29 | 2 |
| 24259 | C-259 | 0.12 | 0.812 | 4 | 2.375 | 1.3 | 39 | 66 | 2 |
| 24261 | C-261 | 0.12 | 1.062 | 5.5 | 3.375 | 9.7 | 9.5 | 49 | 1 |
| 24263 | C-263 | 0.091 | 0.875 | 6 | 4.875 | 11.6 | 3.9 | 26 | 1 |
| 24265 | C-265 | 0.105 | 1.062 | 7 | 4.875 | 14.5 | 3.7 | 33 | 1 |
| 24267 | C-267 | 0.162 | 1.25 | 6.5 | 4 | 9.5 | 26 | 100 | 1 |
| 24269 | C-269 | 0.135 | 1 | 7 | 5 | 10 | 18 | 75 | 1 |
| 24271 | C-271 | 0.08 | 1.062 | 8.5 | 6.375 | 27.5 | 0.69 | 15 | 1 |
| 24273 | C-273 | 0.148 | 1.125 | 8.5 | 6.25 | 12.9 | 15 | 87 | 1 |
| 24275 | C-275 | 0.091 | 1.125 | 7.5 | 6.312 | 20.5 | 1.3 | 20 | 1 |
| 24277 | C-277 | 0.091 | 0.65 | 6.5 | 5.5 | 10.5 | 5.9 | 31 | 1 |
| 24281 | C-281 | 0.062 | 0.375 | 5.5 | 5 | 7.4 | 8.9 | 23 | 2 |
| 24285 | C-285 | 0.035 | 0.375 | 5 | 4.25 | 16 | 0.43 | 5.4 | 2 |
| 24287 | C-287 | 0.032 | 0.312 | 5 | 4.375 | 14.8 | 0.48 | 5.2 | 2 |
| 24289 | C-289 | 0.035 | 0.312 | 5 | 4.375 | 12.4 | 0.79 | 6.6 | 2 |
| 24293 | C-293 | 0.062 | 0.375 | 6.75 | 6 | 2.5 | 6.8 | 23 | 1 |
| 24301 | C-301 | 0.135 | 1.5 | 11.5 | 8.5 | 26.5 | 2.7 | 47 | 1 |
| 24303 | C-303 | 0.105 | 1 | 12 | 10 | 24 | 2.4 | 35 | 1 |
| 24307 | C-307 | 0.135 | 1.062 | 12 | 9.875 | 19 | 7.7 | 69 | 1 |
| 24311 | C-311 | 0.041 | 0.437 | 10.25 | 9.375 | 27 | 0.28 | 5.5 | 1 |
| 24313 | C-313 | 0.047 | 0.5 | 8.5 | 7.5 | 22.5 | 0.46 | 7.2 | 1 |
| 24315 | C-315 | 0.047 | 0.437 | 8.5 | 7.626 | 18 | 0.73 | 8.4 | 1 |
| 24317 | C-317 | 0.091 | 0.625 | 8.5 | 7.25 | 12.3 | 7.7 | 39 | 1 |
| 24319 | C-319 | 0.054 | 0.562 | 8.5 | 7.376 | 20 | 0.64 | 9.2 | 1 |
| 24321 | C-321 | 0.062 | 0.625 | 8.5 | 7.75 | 19.5 | 0.95 | 13 | 1 |
| 24323 | C-323 | 0.08 | 0.625 | 8.5 | 7.25 | 14 | 3.9 | 27 | 1 |
| 24325 | C-325 | 0.062 | 0.875 | 8.5 | 6.75 | 32 | 0.33 | 8.8 | 1 |
| 24329 | C-329 | 0.105 | 0.875 | 8.5 | 6.75 | 14 | 5.4 | 41 | 1 |
| 24333 | C-333 | 0.135 | 0.875 | 9 | 7.25 | 12 | 20 | 87 | 1 |
| 24337 | C-337 | 0.12 | 1 | 8.5 | 6.5 | 13 | 7.7 | 52 | 1 |
| 24339 | C-339 | 0.148 | 1.25 | 10 | 7.5 | 16.5 | 9.2 | 77 | 1 |

Fasteners

Drawbar Spring

Part# *Description*
24900 S.A.E. 1060-1090 spring steel. Phosphate & oil finish.

| Ref. # | Wire (in.) | O.D. (in.) | Overall Length (in.) | Load Rate (lb./in.) | Max. Load (lb.) |
|--------|------------|------------|----------------------|---------------------|-----------------|
| 4001 | 0.227 | 1-9/16 | 7-1/4 | 152.78 | 330.31 |



Spring Merchandiser available!

Extension and Compression Springs in two 24" x 24" display boards. An expansion board completes the selection.

127 pieces / 95 part numbers
DYN 00242K

34 pieces / 34 part numbers
DYN 00244K

SEE PAGE **8**



Sizes are approximate. Specifications subject to change without notice.



SPRINGS (...continued)

Compression Springs

S.A.E. 1060-1090 spring steel. Phosphate & oil finish.

| Part# | Ref. # | Wire (in.) | O.D. (in.) | Overall Length (in.) | Solid Height (in.) | Total Coils | Load Rate (lb./in.) | Max. Load (lb.) | Qty |
|-------|--------|------------|------------|----------------------|--------------------|-------------|---------------------|-----------------|-----|
| 24500 | C-500 | 0.023 | 0.156 | 0.562 | 0.28 | 11 | 19 | 4.5 | 6 |
| 24510 | C-510 | 0.035 | 0.25 | 0.5 | 0.26 | 7 | 42 | 6.2 | 6 |
| 24516 | C-516 | 0.011 | 0.156 | 1 | 0.14 | 12 | 0.73 | 0.57 | 6 |
| 24520 | C-520 | 0.016 | 0.187 | 0.875 | 0.27 | 16 | 1.3 | 0.81 | 6 |
| 24526 | C-526 | 0.028 | 0.187 | 1 | 0.48 | 17 | 15 | 6.3 | 6 |
| 24530 | C-530 | 0.02 | 0.218 | 1 | 0.24 | 11 | 3.3 | 2.2 | 6 |
| 24532 | C-532 | 0.013 | 0.187 | 1 | 0.14 | 10 | 0.99 | 0.78 | 6 |
| 24550 | C-550 | 0.016 | 0.187 | 1 | 0.2 | 12 | 2 | 1.3 | 6 |
| 24554 | C-554 | 0.02 | 0.25 | 1 | 0.2 | 9 | 2.8 | 1.9 | 6 |
| 24556 | C-556 | 0.026 | 0.312 | 0.625 | 0.18 | 7 | 7 | 3.1 | 6 |
| 24562 | C-562 | 0.035 | 0.25 | 1 | 0.46 | 12 | 21 | 8.9 | 6 |
| 24566 | C-566 | 0.032 | 0.375 | 0.75 | 0.22 | 6 | 7.7 | 3.2 | 6 |
| 24570 | C-570 | 0.014 | 0.125 | 1.375 | 0.34 | 27 | 1.6 | 1.4 | 6 |
| 24576 | C-576 | 0.016 | 0.156 | 1.375 | 0.35 | 21 | 1.8 | 1.6 | 6 |
| 24578 | C-578 | 0.013 | 0.187 | 1.375 | 0.18 | 12 | 0.71 | 0.78 | 6 |
| 24580 | C-580 | 0.028 | 0.187 | 1.375 | 0.65 | 23 | 11 | 6.3 | 6 |
| 24582 | C-582 | 0.016 | 0.187 | 1.375 | 0.26 | 15 | 1.4 | 1.3 | 6 |
| 24600 | C-600 | 0.02 | 0.218 | 1.375 | 0.31 | 15 | 2.4 | 2.2 | 4 |
| 24604 | C-604 | 0.023 | 0.218 | 1.375 | 0.39 | 16 | 3.9 | 3.3 | 4 |
| 24608 | C-608 | 0.02 | 0.25 | 1.375 | 0.25 | 12 | 2 | 1.9 | 4 |
| 24612 | C-612 | 0.028 | 0.281 | 1.375 | 0.43 | 15 | 4.4 | 4.1 | 4 |
| 24614 | C-614 | 0.041 | 0.312 | 1.25 | 0.62 | 15 | 17 | 8.3 | 4 |
| 24624 | C-624 | 0.041 | 0.375 | 1.125 | 0.46 | 10 | 13 | 7 | 4 |
| 24632 | C-632 | 0.041 | 0.437 | 1.062 | 0.36 | 8 | 11 | 6.1 | 4 |
| 24650 | C-650 | 0.013 | 0.218 | 1.75 | 0.247 | 18 | 0.29 | 0.44 | 4 |
| 24652 | C-652 | 0.028 | 0.218 | 1.375 | 0.53 | 18 | 8.1 | 5.5 | 4 |
| 24660 | C-660 | 0.016 | 0.312 | 1.75 | 0.2 | 12 | 0.39 | 0.61 | 4 |
| 24664 | C-664 | 0.047 | 0.343 | 1.5 | 0.71 | 15 | 23 | 11 | 4 |
| 24668 | C-668 | 0.026 | 0.375 | 1.5 | 0.26 | 10 | 1.7 | 2.2 | 4 |
| 24672 | C-672 | 0.035 | 0.375 | 1.75 | 0.54 | 16 | 3.7 | 4.2 | 4 |
| 24676 | C-676 | 0.032 | 0.437 | 2.125 | 0.39 | 12 | 2 | 2.8 | 4 |
| 24680 | C-680 | 0.047 | 0.312 | 2 | 1.14 | 24 | 18 | 12 | 4 |
| 24690 | C-690 | 0.041 | 0.437 | 2.25 | 0.67 | 16 | 4.9 | 6.1 | 2 |
| 24692 | C-692 | 0.041 | 0.625 | 1.5 | 0.37 | 9 | 3.4 | 3.8 | 2 |
| 24700 | C-700 | 0.062 | 0.5 | 1 | 0.54 | 8 | 45 | 17 | 2 |
| 24702 | C-702 | 0.054 | 0.562 | 1 | 0.38 | 7 | 16 | 9.5 | 2 |
| 24704 | C-704 | 0.041 | 0.5 | 1.5 | 0.45 | 10 | 5.3 | 5.4 | 2 |
| 24706 | C-706 | 0.072 | 0.562 | 1.375 | 0.74 | 10 | 45 | 22 | 2 |
| 24712 | C-712 | 0.091 | 0.687 | 1.25 | 0.75 | 8 | 89 | 35 | 2 |
| 24714 | C-714 | 0.062 | 0.375 | 2.25 | 1.46 | 22 | 34 | 22 | 2 |
| 24720 | C-720 | 0.062 | 0.5 | 1.75 | 0.85 | 14 | 24 | 17 | 2 |
| 24722 | C-722 | 0.047 | 0.5 | 2 | 0.635 | 13 | 7.19 | n/a | 2 |
| 24724 | C-724 | 0.054 | 0.437 | 2 | 0.89 | 16 | 16 | 13 | 2 |
| 24730 | C-730 | 0.047 | 0.406 | 2.75 | 1.12 | 23 | 7.3 | 9.7 | 2 |
| 24736 | C-736 | 0.072 | 0.5 | 2.75 | 1.48 | 19 | 28 | 25 | 2 |
| 24740 | C-740 | 0.08 | 0.625 | 2.5 | 1.14 | 14 | 32 | 27 | 2 |
| 24742 | C-742 | 0.054 | 0.625 | 2.75 | 0.77 | 14 | 5.8 | 9.1 | 2 |
| 24750 | C-750 | 0.08 | 0.75 | 2 | 0.78 | 10 | 25 | 23 | 2 |
| 24752 | C-752 | 0.08 | 0.937 | 2 | 0.67 | 8 | 17 | 19 | 2 |
| 24756 | C-756 | 0.041 | 0.718 | 3.5 | 0.47 | 11 | 1.5 | 3.8 | 2 |
| 24766 | C-766 | 0.054 | 0.562 | 3 | 0.96 | 17 | 6.3 | 10 | 2 |
| 24768 | C-768 | 0.105 | 0.812 | 2.25 | 1.26 | 11 | 54.94 | n/a | 2 |
| 24782 | C-782 | 0.08 | 0.625 | 3 | 1.34 | 16 | 26 | 27 | 2 |
| 24792 | C-792 | 0.105 | 0.875 | 3 | 1.39 | 14 | 34 | 43 | 2 |
| 24802 | C-802 | 0.148 | 1.375 | 4.375 | 1.83 | 13 | 36 | 72 | 1 |
| 24806 | C-806 | 0.148 | 1.5 | 3.25 | 1.26 | 9 | 43 | 67 | 1 |
| 24814 | C-814 | 0.135 | 1.375 | 2.5 | 0.98 | 8 | 48 | 55 | 1 |
| 24818 | C-818 | 0.12 | 1.125 | 4 | 1.72 | 13 | 26 | 48 | 2 |
| 24822 | C-822 | 0.148 | 0.937 | 4 | 2.63 | 12 | 89 | 103 | 2 |
| 24702 | C-702 | 0.054 | 0.562 | 1 | 0.38 | 7 | 16 | 9.5 | 2 |

Sizes are approximate. Specifications subject to change without notice.

SPRINGS (...continued)

Compression Springs (...continued)

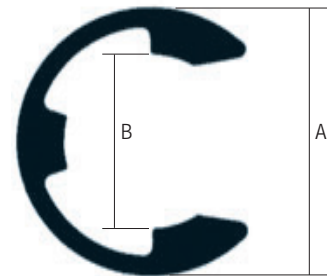
| Part# | Ref. # | Wire (in.) | O.D. (in.) | Overall Length (in.) | Solid Height (in.) | Total Coils | Load Rate (lb./in.) | Max. Load (lb.) | Qty |
|-------|--------|---------------|---------------|----------------------------|--------------------------|----------------|---------------------------|-----------------------|-----|
| 24704 | C-704 | 0.041 | 0.5 | 1.5 | 0.45 | 10 | 5.3 | 5.4 | 2 |
| 24706 | C-706 | 0.072 | 0.562 | 1.375 | 0.74 | 10 | 45 | 22 | 2 |
| 24712 | C-712 | 0.091 | 0.687 | 1.25 | 0.75 | 8 | 89 | 35 | 2 |
| 24714 | C-714 | 0.062 | 0.375 | 2.25 | 1.46 | 22 | 34 | 22 | 2 |
| 24720 | C-720 | 0.062 | 0.5 | 1.75 | 0.85 | 14 | 24 | 17 | 2 |
| 24722 | C-722 | 0.047 | 0.5 | 2 | 0.635 | 13 | 7.19 | n/a | 2 |
| 24724 | C-724 | 0.054 | 0.437 | 2 | 0.89 | 16 | 16 | 13 | 2 |
| 24730 | C-730 | 0.047 | 0.406 | 2.75 | 1.12 | 23 | 7.3 | 9.7 | 2 |
| 24736 | C-736 | 0.072 | 0.5 | 2.75 | 1.48 | 19 | 28 | 25 | 2 |
| 24740 | C-740 | 0.08 | 0.625 | 2.5 | 1.14 | 14 | 32 | 27 | 2 |
| 24742 | C-742 | 0.054 | 0.625 | 2.75 | 0.77 | 14 | 5.8 | 9.1 | 2 |
| 24750 | C-750 | 0.08 | 0.75 | 2 | 0.78 | 10 | 25 | 23 | 2 |
| 24752 | C-752 | 0.08 | 0.937 | 2 | 0.67 | 8 | 17 | 19 | 2 |
| 24756 | C-756 | 0.041 | 0.718 | 3.5 | 0.47 | 11 | 1.5 | 3.8 | 2 |
| 24766 | C-766 | 0.054 | 0.562 | 3 | 0.96 | 17 | 6.3 | 10 | 2 |
| 24768 | C-768 | 0.105 | 0.812 | 2.25 | 1.26 | 11 | 54.94 | n/a | 2 |
| 24782 | C-782 | 0.08 | 0.625 | 3 | 1.34 | 16 | 26 | 27 | 2 |
| 24792 | C-792 | 0.105 | 0.875 | 3 | 1.39 | 14 | 34 | 43 | 2 |
| 24802 | C-802 | 0.148 | 1.375 | 4.375 | 1.83 | 13 | 36 | 72 | 1 |
| 24806 | C-806 | 0.148 | 1.5 | 3.25 | 1.26 | 9 | 43 | 67 | 1 |
| 24814 | C-814 | 0.135 | 1.375 | 2.5 | 0.98 | 8 | 48 | 55 | 1 |
| 24818 | C-818 | 0.12 | 1.125 | 4 | 1.72 | 13 | 26 | 48 | 2 |
| 24822 | C-822 | 0.148 | 0.937 | 4 | 2.63 | 12 | 89 | 103 | 2 |
| 24826 | C-826 | 0.12 | 1 | 3.5 | 1.71 | 15 | 36 | 54 | 2 |
| 24830 | C-830 | 0.12 | 1.125 | 3 | 1 | 10 | 22 | 34 | 2 |
| 24832 | C-832 | 0.12 | 1 | 3 | 1.41 | 12 | 45 | 54 | 2 |
| 24834 | C-834 | 0.12 | 1.187 | 2.75 | 1.2 | 9 | 35 | 46 | 2 |
| 24836 | C-836 | 0.08 | 0.875 | 4 | 1.28 | 15 | 9 | 20 | 2 |
| 24838 | C-838 | 0.08 | 0.75 | 3.5 | 1.38 | 16 | 14 | 23 | 2 |
| 24850 | C-850 | 0.091 | 0.625 | 5 | 2.64 | 29 | 29 | 38 | 2 |
| 24856 | C-856 | 0.091 | 0.75 | 6 | 2.78 | 30 | 13 | 32 | 2 |
| 24858 | C-858 | 0.072 | 0.687 | 6 | 2.16 | 29 | 6.2 | 18 | 2 |
| 24864 | C-864 | 0.091 | 0.875 | 6 | 2.18 | 23 | 9.3 | 28 | 1 |
| 24874 | C-874 | 0.12 | 1.375 | 6 | 1.08 | 14 | 13 | 40 | 1 |
| 24878 | C-878 | 0.08 | 0.625 | 9 | 3.72 | 45 | 8.4 | 27 | 1 |
| 24892 | C-892 | 0.162 | 1.125 | 7 | 4 | 24 | 49 | 111 | 1 |

RETAINER RINGS

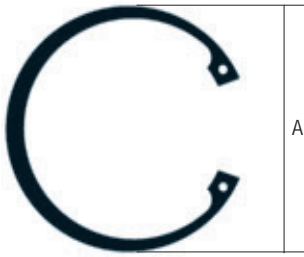
External "E" Retainer Rings

Cross reference to 1000, 1500, 5133, MS-16633 series.
S.A.E. 1060-1090 spring steel.
Phosphate & oil finish.

| Part# | Dia. | A | B | Thickness | Qty |
|-------|---------|--------|--------|-----------|-----|
| 22860 | 1/8" | 0.230" | 0.094" | 0.015" | 10 |
| 22861 | 3/16" | 0.335" | 0.145" | 0.025" | 10 |
| 22862 | 1/4" | 0.527" | 0.207" | 0.025" | 10 |
| 22863 | 5/16" | 0.500" | 0.243" | 0.025" | 10 |
| 22864 | 3/8" | 0.660" | 0.300" | 0.035" | 10 |
| 22865 | 7/16" | 0.687" | 0.337" | 0.035" | 10 |
| 22866 | 1/2" | 0.800" | 0.392" | 0.042" | 10 |
| 22867 | 5/8" | 0.940" | 0.480" | 0.042" | 10 |
| 22868 | 3/4" | 1.120" | 0.574" | 0.050" | 10 |
| 22869 | 7/8" | 1.300" | 0.668" | 0.050" | 10 |
| 22870 | 63/64" | 1.500" | 0.822" | 0.050" | 10 |
| 22871 | 1-3/16" | 1.626" | 1.066" | 0.062" | 10 |
| 22872 | 1-3/8" | 1.870" | 1.213" | 0.062" | 10 |



Sizes are approximate. Specifications subject to change without notice.



RETAINER RINGS (...continued)

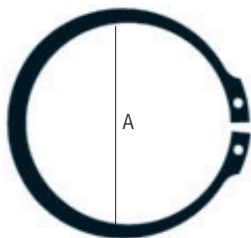
Internal Retainer Rings

Cross reference to 1300, 3000, 5000, HO, MS-16625 series.
S.A.E. 1060-1090 spring steel.
Phosphate & oil finish.

| Part# | Dia. | A | Thick. | Qty | Part# | Dia. | A | Thick. | Qty |
|-------|---------|--------|--------|-----|-------|----------|--------|--------|-----|
| 22873 | 1/4" | 0.280" | 0.015" | 10 | 22901 | 1-13/16" | 2.012" | 0.062" | 10 |
| 22874 | 5/16" | 0.346" | 0.015" | 10 | 22902 | 1-7/8" | 2.072" | 0.062" | 10 |
| 22875 | 3/8" | 0.415" | 0.025" | 10 | 22903 | 1-15/16" | 2.141" | 0.062" | 10 |
| 22876 | 7/16" | 0.482" | 0.025" | 10 | 22904 | 2" | 2.210" | 0.062" | 10 |
| 22878 | 1/2" | 0.548" | 0.035" | 10 | 22905 | 2-1/16" | 2.280" | 0.078" | 5 |
| 22879 | 9/16" | 0.620" | 0.035" | 10 | 22906 | 2-1/8" | 2.350" | 0.078" | 5 |
| 22880 | 5/8" | 0.694" | 0.035" | 10 | 22907 | 2-1/4" | 2.490" | 0.078" | 5 |
| 22881 | 11/16" | 0.763" | 0.035" | 10 | 22908 | 2-3/8" | 2.630" | 0.078" | 5 |
| 22882 | 3/4" | 0.831" | 0.035" | 10 | 22909 | 2-7/16" | 2.702" | 0.078" | 5 |
| 22884 | 7/8" | 0.971" | 0.042" | 10 | 22910 | 2-1/2" | 2.775" | 0.078" | 5 |
| 22885 | 15/16" | 1.041" | 0.042" | 10 | 22911 | 2-5/8" | 2.910" | 0.093" | 5 |
| 22886 | 1" | 1.111" | 0.042" | 10 | 22912 | 2-11/16" | 2.980" | 0.093" | 5 |
| 22888 | 1-1/16" | 1.180" | 0.050" | 10 | 22913 | 2-3/4" | 3.050" | 0.093" | 5 |
| 22889 | 1-1/8" | 1.249" | 0.050" | 10 | 22914 | 2-13/16" | 3.121" | 0.093" | 5 |
| 22890 | 1-3/16" | 1.319" | 0.050" | 10 | 22915 | 2-7/8" | 3.191" | 0.093" | 2 |
| 22891 | 1-1/4" | 1.388" | 0.050" | 10 | 22916 | 3" | 3.325" | 0.093" | 2 |
| 22892 | 1-5/16" | 1.456" | 0.050" | 10 | 22917 | 3-1/4" | 3.623" | 0.109" | 2 |
| 22893 | 1-3/8" | 1.526" | 0.050" | 10 | 22918 | 3-1/2" | 3.890" | 0.109" | 2 |
| 22894 | 1-7/16" | 1.596" | 0.050" | 10 | 22919 | 4" | 4.424" | 0.109" | 2 |
| 22895 | 1-1/2" | 1.660" | 0.050" | 10 | 22920 | 4-1/2" | 4.940" | 0.109" | 2 |
| 22896 | 1-9/16" | 1.734" | 0.062" | 10 | 22921 | 5" | 5.485" | 0.109" | 2 |
| 22897 | 1-5/8" | 1.804" | 0.062" | 10 | 22922 | 5-1/2" | 6.066" | 0.125" | 2 |
| 22900 | 1-3/4" | 1.942" | 0.062" | 10 | 22923 | 6" | 6.620" | 0.125" | 2 |

External Retainer Rings

Cross reference to 1400, 3100, 5100, SH, MS-16624 series.
S.A.E. 1060-1090 spring steel.
Phosphate & oil finish.



| Part# | Dia. | A | Thick. | Qty | Part# | Dia. | A | Thick. | Qty |
|-------|---------|--------|--------|-----|-------|----------|--------|--------|-----|
| 22924 | 3/16" | 0.168" | 0.015" | 10 | 22951 | 1-1/2" | 1.387" | 0.056" | 10 |
| 22925 | 1/4" | 0.225" | 0.025" | 10 | 22952 | 1-9/16" | 1.446" | 0.062" | 10 |
| 22926 | 5/16" | 0.281" | 0.025" | 10 | 22953 | 1-5/8" | 1.503" | 0.062" | 10 |
| 22928 | 3/8" | 0.338" | 0.025" | 10 | 22954 | 1-11/16" | 1.560" | 0.062" | 10 |
| 22929 | 7/16" | 0.395" | 0.025" | 10 | 22955 | 1-3/4" | 1.618" | 0.062" | 10 |
| 22931 | 1/2" | 0.461" | 0.035" | 10 | 22956 | 1-7/8" | 1.735" | 0.062" | 10 |
| 22932 | 9/16" | 0.521" | 0.035" | 10 | 22957 | 1-31/32" | 1.819" | 0.062" | 10 |
| 22933 | 19/32" | 0.550" | 0.035" | 10 | 22958 | 2" | 1.850" | 0.062" | 10 |
| 22934 | 5/8" | 0.579" | 0.035" | 10 | 22960 | 2-1/8" | 1.964" | 0.078" | 5 |
| 22935 | — | 0.621" | 0.035" | 10 | 22962 | 2-1/4" | 2.081" | 0.078" | 5 |
| 22936 | 11/16" | 0.635" | 0.042" | 10 | 22963 | 2-3/8" | 2.197" | 0.078" | 5 |
| 22937 | 3/4" | 0.693" | 0.042" | 10 | 22964 | 2-7/16" | 2.255" | 0.078" | 5 |
| 22938 | 13/16" | 0.751" | 0.042" | 10 | 22965 | 2-1/2" | 2.312" | 0.078" | 5 |
| 22939 | 7/8" | 0.810" | 0.042" | 10 | 22966 | 2-5/8" | 2.428" | 0.078" | 5 |
| 22940 | 15/16" | 0.867" | 0.042" | 10 | 22967 | 2-3/4" | 2.543" | 0.093" | 2 |
| 22942 | 1" | 0.925" | 0.042" | 10 | 22968 | 2-7/8" | 2.659" | 0.093" | 2 |
| 22944 | 1-1/16" | 0.982" | 0.050" | 10 | 22970 | 3" | 2.775" | 0.093" | 2 |
| 22945 | 1-1/8" | 1.041" | 0.050" | 10 | 22971 | 3-1/2" | 3.277" | 0.109" | 2 |
| 22946 | 1-3/16" | 1.098" | 0.050" | 10 | 22972 | 4" | 3.700" | 0.109" | 2 |
| 22947 | 1-1/4" | 1.156" | 0.050" | 10 | 22973 | 4-1/2" | 4.223" | 0.109" | 2 |
| 22948 | 1-5/16" | 1.214" | 0.050" | 10 | 22974 | 5" | 4.692" | 0.125" | 2 |
| 22949 | 1-3/8" | 1.272" | 0.050" | 10 | 22975 | 6" | 5.631" | 0.125" | 2 |
| 22950 | 1-7/16" | 1.333" | 0.050" | 10 | | | | | |

Sizes are approximate. Specifications subject to change without notice.



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