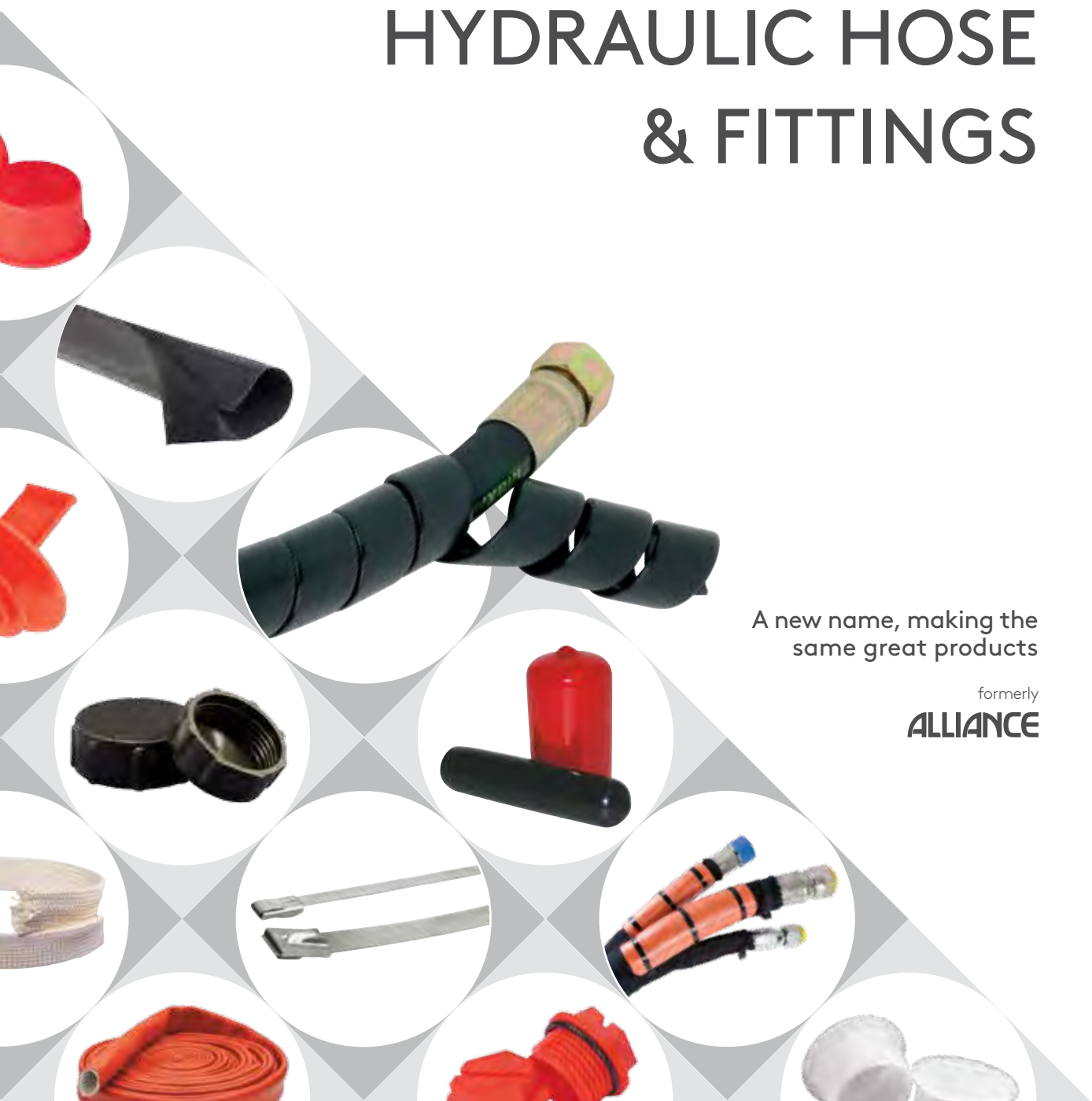




ESSENTRA

SOLUTIONS FOR HYDRAULIC HOSE & FITTINGS

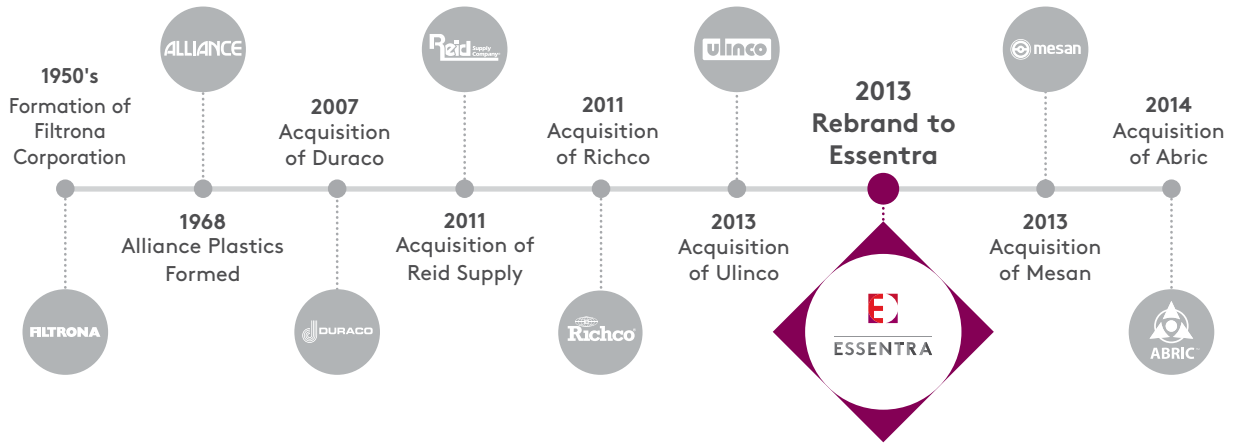


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SPIRALGUARD

- Exceptional anti-crushing performance
- High abrasion resistance
- Good resistance to UV rays
- Easy to fit - reduces risk of industrial injury
- Excellent recovery memory
- Proven in arduous conditions





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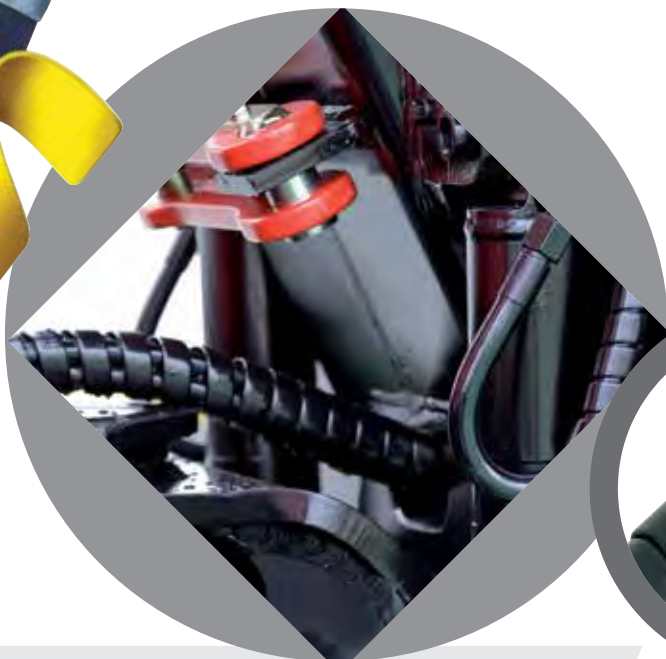
**SHIPS
TODAY**



SPIRALGUARD from Essentra



- HDPE - offering a thinner lightweight product while still maintaining industrial strength and quality
- Radial cut from extruded tube - helps to induce natural product memory and flexibility
- Double cut for a smooth finish and easy fitting




















What SPIRALGUARD can offer you



| Product Benefit | High Quality Hose Protection | |
|---|------------------------------|-------------|
| | SPIRALGUARD | Competitors |
| Industrial strength and abrasion resistance | ✓ | ✓ |
| Flexible and easy to fit | ✓ | X |
| Product memory to that of a round pipe | ✓ | X |
| Light weight and easy to manoeuvre | ✓ | X |
| Good resistance to UV rays | ✓ | ✓ |
| Easy installation - including retro fit | ✓ | X |
| Maximum hose coverage and protection | ✓ | X |
| Flexible to 25x nominal pipe diameter | ✓ | X |
| Minimal friction on hose across all sizes | ✓ | X |

See Pages 6-7

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|-----------------------------------|--|---|
| Hose Protection 6 - 10 |  |  |
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Spiralguard® Features:

- Excellent recovery memory to maximize the covering of the hose
- Exceptional anti-crushing performance
- High abrasion resistance
- Good resistance to UV rays
- Easy to fit - reduces risk of industrial injury
- Suitable for wrapping single hoses or multiple-hose looms
- Proven in arduous conditions
- Conveniently coiled and packed incartons for easy storage



How to calculate quantity of Spiralguard® required

$$\frac{\text{Outside diameter of hose}}{\text{Inside diameter of Spiralguard®}} \times \text{Length (ft) of hose to be covered}$$

Example O.D. of Hose: **.93"** SGX75HA I.D. = **.75"** Length to wrap = **25 Feet**
.93"/.75" = 1.24 X 25 = 31 Feet Required

TO PROTECT ONE WIRE BRAID HOSE

| SGX | | SGX Fras | TFG | TSL | FPS |
|-----------------------|------------------------|------------|---------|----------|-----------|
| Heavy Duty Page 98 | Medium Duty Page 98 | Page 98 | Page 99 | Page 100 | Page 101 |
| — | — | — | TFG08HA | TSL067A | FPS5/16A |
| — | — | SGX16FRASA | TFG12HA | TSL067A | FPS1/2A |
| SGX16HA | SGX16MA | SGX16FRASA | TFG16HA | TSL067A | FPS1/2A |
| SGX16HA | SGX16MA | SGX20FRASA | TFG16HA | TSL067A | FPS5/8A |
| SGX20HA | SGX20MA | SGX20FRASA | TFG20HA | TSL067A | FPS3/4A |
| SGX25HA | SGX25MA | SGX25FRASA | TFG25HA | TSL079A | FPS7/8A |
| SGX25HA | SGX25MA | SGX32FRASA | TFG25HA | TSL091A | FPS1A |
| SGX32HA | SGX32MA | SGX32FRASA | TFG32HA | TSL106A | FPS1A |
| SGX39HA | SGX39MA | SGX40FRASA | TFG35HA | TSL122A | FPS1-1/4A |
| SGX50HA | SGX50MA | SGX50FRASA | TFG44HA | TSL157A | FPS2A |
| SGX59HA | SGX59MA | SGX63FRASA | TFG50HA | TSL185A | FPS2A |
| SGX75HA | SGX75MA | SGX75FRASA | TFG56HA | TSL136A | FPS2-1/2A |

TO PROTECT TWO WIRE BRAID HOSE

| SGX | | SGX Fras | TFG | TSL | FPS |
|-----------------------|------------------------|------------|---------|----------|-----------|
| Heavy Duty Page 98 | Medium Duty Page 98 | Page 98 | Page 99 | Page 100 | Page 101 |
| — | — | SGX16FRASA | TFG12HA | TSL067A | FPS1/2A |
| SGX16HA | SGX16MA | SGX16FRASA | TFG16HA | TSL067A | FPS1/2A |
| SGX16HA | SGX16MA | SGX20FRASA | TFG16HA | TSL067A | FPS5/8A |
| SGX16HA | SGX16MA | SGX20FRASA | TFG20HA | TSL067A | FPS3/4A |
| SGX25HA | SGX25MA | SGX25FRASA | TFG25HA | TSL067A | FPS3/4A |
| SGX25HA | SGX25MA | SGX25FRASA | TFG25HA | TSL079A | FPS7/8A |
| SGX25HA | SGX25MA | SGX32FRASA | TFG32HA | TSL098A | FPS1A |
| SGX32HA | SGX32MA | SGX32FRASA | TFG35HA | TSL106A | FPS1A |
| SGX45HA | SGX39MA | SGX50FRASA | TFG45HA | TSL142A | FPS1-1/2A |
| SGX50HA | SGX50MA | SGX63FRASA | TFG56HA | TSL185A | FPS2A |
| SGX59HA | SGX50MA | SGX63FRASA | TFG59HA | TSL217A | FPS2A |
| SGX75HA | SGX75MA | SGX75FRASA | TFG82HA | TSL260A | FPS2-1/2A |



SGX Series TECTORGUARD™ Heavy & Medium Duty Hose Guards

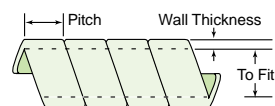


Specifications:

- Material: High-Density Polyethylene
- Color: Refer to Chart

Features:

- TECTORGUARD™ protects against cuts, abrasions, crushing and ultraviolet rays that regularly destroy your expensive hoses
- Easy and safe to install either before or after the hose assembly is mounted
- The heavy-duty, double-beveled design on the inside and outside edge prevents snagging or cutting during installation



Heavy Duty - Heavy Abrasion

| Black Item No. | Price Per Roll | Yellow Item No. | To Fit | | Wall Thickness | | Pitch | | Roll Length | |
|----------------|----------------|-----------------|--------|-------|----------------|-------|--------|-----|-------------|---|
| | | | In | In | In | mm | In | mm | Ft | m |
| SGX16HA | 175.73 | — | 0.492 | 0.069 | 1.75 | 0.490 | 12.45 | 100 | 30.48 | |
| SGX20HA | 195.28 | — | 0.668 | 0.086 | 2.18 | 0.610 | 15.49 | 100 | 30.48 | |
| SGX25HA | 234.34 | SGX25HB | 0.750 | 0.110 | 2.79 | 0.950 | 24.13 | 100 | 30.48 | |
| SGX32HA | 283.16 | SGX32HB | 1.014 | 0.118 | 2.99 | 1.040 | 26.42 | 100 | 30.48 | |
| SGX39HA | 331.96 | SGX39HB | 1.250 | 0.132 | 3.35 | 1.350 | 34.29 | 100 | 30.48 | |
| SGX45HA | 400.33 | SGX45HB | 1.500 | 0.140 | 3.55 | 1.500 | 38.10 | 100 | 30.48 | |
| SGX50HA | 214.82 | — | 1.600 | 0.150 | 3.81 | 1.530 | 38.88 | 50 | 15.24 | |
| SGX59HA | 585.85 | — | 2.000 | 0.160 | 4.06 | 1.600 | 40.64 | 100 | 30.48 | |
| SGX75HA | 400.33 | SGX75HB | 2.457 | 0.209 | 5.30 | 1.610 | 40.89 | 50 | 15.24 | |
| SGX90HA | 351.50 | SGX90HC | 3.064 | 0.218 | 5.53 | 1.970 | 50.04 | 35 | 10.66 | |
| SGX102HA | 263.63 | SGX102HB | 3.500 | 0.250 | 6.35 | 1.950 | 49.53 | 25 | 7.62 | |
| SGX114HA | 273.41 | SGX114HB | 4.000 | 0.250 | 6.35 | 2.100 | 53.34 | 20 | 6.09 | |
| SGX165HA | 283.16 | SGX165HB | 6.000 | 0.250 | 6.35 | 4.000 | 101.60 | 15 | 4.57 | |

Medium Duty - Flexible with Medium Abrasion

| Item No. | To Fit | | Wall Thickness | | Pitch | | Color | Roll Length | |
|----------|--------|-------|----------------|-------|-------|-------|-------|-------------|---|
| | In | In | In | mm | In | mm | | Ft | m |
| SGX16MA | 0.492 | 0.045 | 1.14 | 0.490 | 12.45 | Black | 100 | 30.48 | |
| SGX20MA | 0.668 | 0.052 | 1.32 | 0.610 | 15.49 | Black | 100 | 30.48 | |
| SGX25MA | 0.750 | 0.062 | 1.57 | 0.800 | 20.32 | Black | 100 | 30.48 | |
| SGX32MA | 1.014 | 0.071 | 1.80 | 1.040 | 26.42 | Black | 100 | 30.48 | |
| SGX39MA | 1.250 | 0.080 | 2.03 | 1.350 | 34.29 | Black | 100 | 30.48 | |
| SGX50MA | 1.600 | 0.090 | 2.28 | 1.530 | 38.86 | Black | 50 | 15.24 | |
| SGX75MA | 2.457 | 0.125 | 3.17 | 1.610 | 40.89 | Black | 50 | 15.24 | |
| SGX90MA | 3.064 | 0.131 | 3.32 | 1.970 | 50.04 | Black | 35 | 10.66 | |

See page 6 for Application Wizard

SGX FRAS Series SPIRALGUARD™ Flame Retardant Antistatic Series



Specifications:

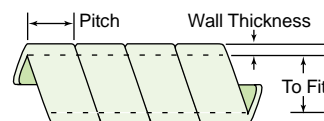
- Material: High-Density Polyethylene
- Color: Dark Gray

Features:

- Exceptional anti-crushing performance
- High abrasion resistance
- Good resistance to UV rays
- Reduces risk of industrial injury
- Suitable for wrapping single or multiple hoses
- Proven in arduous conditions
- Suitable for the protection of most types of hydraulic, pneumatic and industrial hose assemblies across a wide range of industries: mining, quarrying, drilling, tunnelling, forestry, welding, manufacturing, agricultural, automotive, marine sub-sea, offshore oil and gas construction



SPIRALGUARD
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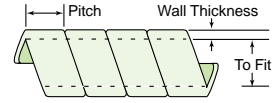
### Approvals and Certifications:

- Tested and approved in accordance with the former British Coal specification 182:1986, satisfying the requirements of the non-metallics scheme for use underground
- Tested and approved by Mine Safety Laboratory, Department of Mineral Resources NSW to AS2660 FRAS Compliance – 1991 International Standard: ISO6805
- Patented product US6286557B1

| Item No.    | To Fit |       | Wall Thickness |       | Pitch |       | Roll Length |   |
|-------------|--------|-------|----------------|-------|-------|-------|-------------|---|
|             | In     | In    | In             | mm    | In    | mm    | Ft          | m |
| SGX16FRASA  | 0.472  | 0.089 | 2.25           | 0.510 | 12.95 | 65.62 | 20          |   |
| SGX20FRASA  | 0.591  | 0.098 | 2.50           | 0.610 | 15.49 | 65.62 | 20          |   |
| SGX25FRASA  | 0.748  | 0.108 | 2.75           | 0.750 | 19.05 | 65.62 | 20          |   |
| SGX32FRASA  | 0.906  | 0.138 | 3.50           | 0.900 | 22.86 | 65.62 | 20          |   |
| SGX40FRASA  | 1.201  | 0.167 | 4.25           | 1.140 | 28.96 | 65.62 | 20          |   |
| SGX50FRASA  | 1.496  | 0.167 | 4.25           | 1.420 | 36.07 | 65.62 | 20          |   |
| SGX63FRASA  | 1.850  | 0.217 | 5.50           | 1.550 | 39.37 | 65.62 | 20          |   |
| SGX75FRASA  | 2.402  | 0.236 | 6.00           | 1.730 | 43.94 | 65.62 | 20          |   |
| SGX90FRASA  | 2.776  | 0.276 | 7.00           | 2.000 | 50.80 | 65.62 | 20          |   |
| SGX110FRASA | 3.307  | 0.295 | 7.50           | 2.200 | 55.88 | 32.81 | 10          |   |

# HOSE PROTECTION

## TFG Series Lightweight & Flexible



- Specifications:
- Material: Cellulose Acetate
  - Color: Black

- Features:
- Unique profile will cover much more hose surface during a bending process than any other wrap
  - The inner core assures flexibility while the external profile assures resistance to abrasion and to electrical conductivity
  - Lightweight and flexible
  - Crush resistant
  - Excellent memory

See page 6 for Application Wizard

| Item No. | To Fit |       | Wall Thickness |       | Pitch |    | Roll Length |   |
|----------|--------|-------|----------------|-------|-------|----|-------------|---|
|          | In     | In    | mm             | mm    | In    | mm | Ft          | m |
| TFG08HA  | 0.250  | 0.050 | 1.27           | 0.250 | 6.35  | 40 | 12.19       |   |
| TFG12HA  | 0.370  | 0.050 | 1.27           | 0.250 | 6.35  | 40 | 12.19       |   |
| TFG16HA  | 0.500  | 0.070 | 1.78           | 0.500 | 12.70 | 40 | 12.19       |   |
| TFG20HA  | 0.620  | 0.070 | 1.78           | 0.500 | 12.70 | 40 | 12.19       |   |
| TFG25HA  | 0.750  | 0.090 | 2.29           | 0.620 | 15.74 | 40 | 12.19       |   |
| TFG32HA  | 1.000  | 0.090 | 2.29           | 0.620 | 15.74 | 40 | 12.19       |   |
| TFG35HA  | 1.100  | 0.090 | 2.29           | 1.000 | 25.40 | 40 | 12.19       |   |
| TFG39HA  | 1.250  | 0.090 | 2.29           | 1.000 | 25.40 | 40 | 12.19       |   |
| TFG44HA  | 1.380  | 0.090 | 2.29           | 1.000 | 25.40 | 40 | 12.19       |   |

| Item No. | To Fit |       | Wall Thickness |       | Pitch |    | Roll Length |   |
|----------|--------|-------|----------------|-------|-------|----|-------------|---|
|          | In     | In    | mm             | mm    | In    | mm | Ft          | m |
| TFG45HA  | 1.500  | 0.090 | 2.29           | 1.000 | 25.40 | 40 | 12.19       |   |
| TFG50HA  | 1.600  | 0.090 | 2.29           | 1.000 | 25.40 | 40 | 12.19       |   |
| TFG56HA  | 1.750  | 0.110 | 2.79           | 1.400 | 35.56 | 40 | 12.19       |   |
| TFG59HA  | 2.000  | 0.130 | 3.30           | 1.400 | 35.56 | 40 | 12.19       |   |
| TFG82HA  | 2.560  | 0.150 | 3.81           | 1.400 | 35.56 | 25 | 7.62        |   |
| TFG90HA  | 3.000  | 0.150 | 3.81           | 1.400 | 35.56 | 25 | 7.62        |   |
| TFG95HA  | 3.150  | 0.150 | 3.81           | 1.400 | 35.56 | 25 | 7.62        |   |
| TFG102HA | 3.500  | 0.150 | 3.81           | 1.000 | 25.40 | 25 | 7.62        |   |
| TFG114HA | 4.000  | 0.150 | 3.81           | 1.260 | 32.00 | 25 | 7.62        |   |

## THP Series Point of Contact Protectors

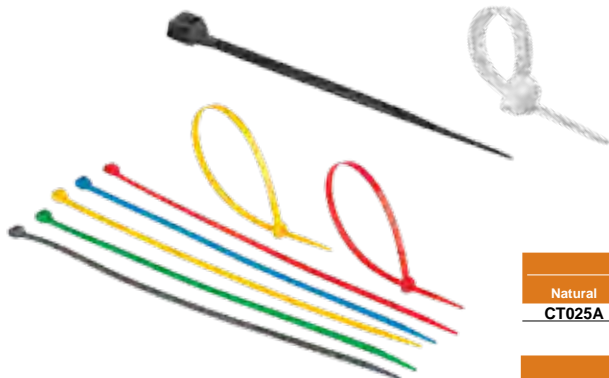
- Specifications:
- Material: PVC
  - Color: Refer to Chart

- Features:
- Protects hose and wire abrasion caused by points of contact wear with frames or other abrasive surfaces
  - Material is very durable and has a high wear factor
  - Molded in grooves prevent the slipping and wear of cable ties
  - Easy to assemble and remove
  - Typically used on hydraulic hoses, fuel and oil lines, brake systems, wiring harnesses and battery cables
  - The THPSD4B is to be used on 1/2" hoses and smaller since it is designed with a smaller radius



| Item No. | Item No. |        | Length In |
|----------|----------|--------|-----------|
|          | Black    | Yellow |           |
| THPSD4B  | —        | —      | 4         |
| THP4B    | THP4A    | THP4C  | 4         |
| THP6B    | THP6A    | THP6C  | 6         |
| THP8B    | THP8A    | THP8C  | 8         |
| THP10B   | THP10A   | THP10C | 10        |
| THP12B   | THP12A   | THP12C | 12        |

Each THP Assembly Requires 3 Ties



- Specifications:
- Material: UL Approved 94V-2 Nylon 6/6
  - Color: Refer to Chart
  - Service Temperature: -40°F to 185°F (-40°C to 85°C)

- Features:
- Complies with MS-3367 and MIL-S-23190E
  - RoHS Compliant

| Item No. |        |        |        |        |        |        |
|----------|--------|--------|--------|--------|--------|--------|
| Natural  | Black  | Green  | Red    | Yellow | Blue   | Silver |
| CT025A   | CT025B | CT025G | CT025K | CT025Y | CT025L | CT025S |

| Length | Width | Maximum Bundle Dia. |     | Minimum Tensile Strength |     | Classification | Bulk Pack Qty. |          |     |
|--------|-------|---------------------|-----|--------------------------|-----|----------------|----------------|----------|-----|
|        |       | In                  | mm  | Lbs                      | kgs |                |                |          |     |
| 11-7/8 | 300   | 0.189               | 4.8 | 3.350                    | 85  | 50             | 222            | Standard | 100 |

See pages 15 & 16 for additional cable ties.





## TQS Series Quick Assemble Hose Sleeves



### Features:

- Excellent for use in the field or for applications where the winding of spiral-formed products is very difficult
- Resistant to heat, ozone and abrasion
- Special innovative Python® hook-and-loop design closure promotes a quick and easy bundling of hose groups
- Close quarter operator protection from hose failures
- Easy assembly and removal
- Containment of hoses and tighter bundling
- Professional appearance – enhances the aesthetics of your equipment

### Specifications:

- Material: Nylon with a Urethane Coating on one Side
- Color: Black

| Item No. | Bundle O.D. |        | Flat Width |        | Roll Length |       |
|----------|-------------|--------|------------|--------|-------------|-------|
|          | In          | mm     | In         | mm     | Ft          | m     |
| TQS2A    | 2           | 50.80  | 7.750      | 196.85 | 150         | 45.72 |
| TQS3A    | 3           | 76.20  | 10.900     | 276.86 | 150         | 45.72 |
| TQS4A    | 4           | 101.60 | 14.000     | 355.60 | 150         | 45.72 |
| TQS5A    | 5           | 127.00 | 17.250     | 438.15 | 150         | 45.72 |

| Item No. | Bundle O.D. |        | Flat Width |        | Roll Length |       |
|----------|-------------|--------|------------|--------|-------------|-------|
|          | In          | mm     | In         | mm     | Ft          | m     |
| TQS6A    | 6           | 152.40 | 20.380     | 517.65 | 150         | 45.72 |
| TQS7A    | 7           | 177.80 | 23.500     | 596.90 | 150         | 45.72 |
| TQS8A    | 8           | 203.20 | 26.620     | 676.15 | 150         | 45.72 |

## Quick Assemble Cable or Hose Sleeve

### Specifications:

- Material: Sleeve - Polyester  
Hook and Loop - Polyamide
- Color: Black

### Features:

- Lightweight but high strength and abrasion resistance
- Easy assembly and removal
- Breakouts are simple by bringing out through the hook and loop



| Item No. | I.D.  |    | Spread Width |     | Roll Length |    |
|----------|-------|----|--------------|-----|-------------|----|
|          | In    | mm | In           | mm  | Ft          | m  |
| 900328   | 0.787 | 20 | 3.149        | 80  | 82          | 25 |
| 900329   | 0.984 | 25 | 3.740        | 95  | 82          | 25 |
| 900330   | 1.181 | 30 | 4.527        | 115 | 82          | 25 |
| 900331   | 1.377 | 35 | 5.118        | 130 | 82          | 25 |
| 900332   | 1.574 | 40 | 5.748        | 146 | 82          | 25 |
| 900333   | 1.771 | 45 | 6.377        | 162 | 82          | 25 |
| 900334   | 1.968 | 50 | 7.007        | 178 | 82          | 25 |

## TSL Series Mining Safety Approved Sleeves



### Specifications:

- Material: Polyamide 6 Yarn
- Color: Black

### Features:

- Protects people, environment and machinery against any possible hydraulic hose oil leakage or spills
- Very dense, yet not bulky
- Optimum UV and abrasion protection
- High degree of burst resistance
- Effective in reducing the concentrated stream of pinhole leaks
- Good leakage containment

### Approvals and Certifications:

- M.S.H.A. Approval #M.S.H.A. IC-234/0
- Meets FED-STD-191 test method 5309 for abrasion resistance
- Meets ASTM D6770 for abrasion resistance of textile webbing

| Item No. | Min Round I.D. |       | Max Round |       | External Flattened Width |       | Roll Length |       |
|----------|----------------|-------|-----------|-------|--------------------------|-------|-------------|-------|
|          | In             | mm    | In        | mm    | In                       | mm    | Ft          | m     |
| TSL067A  | 0.680          | 17.27 | 0.840     | 21.34 | 1.180                    | 29.97 | 300         | 91.44 |
| TSL079A  | 0.790          | 20.06 | 0.950     | 24.13 | 1.340                    | 34.03 | 300         | 91.44 |
| TSL091A  | 0.910          | 23.11 | 1.030     | 26.16 | 1.540                    | 39.11 | 300         | 91.44 |
| TSL098A  | 0.980          | 24.89 | 1.100     | 27.94 | 1.650                    | 41.91 | 300         | 91.44 |
| TSL106A  | 1.060          | 26.92 | 1.180     | 29.97 | 1.770                    | 44.95 | 300         | 91.44 |
| TSL122A  | 1.220          | 30.98 | 1.340     | 34.04 | 2.050                    | 52.07 | 300         | 91.44 |
| TSL142A  | 1.420          | 36.06 | 1.540     | 39.12 | 2.390                    | 60.71 | 300         | 91.44 |
| TSL157A  | 1.570          | 39.87 | 1.730     | 43.94 | 2.600                    | 66.04 | 300         | 91.44 |

| Item No. | Min Round I.D. |        | Max Round |        | External Flattened Width |        | Roll Length |       |
|----------|----------------|--------|-----------|--------|--------------------------|--------|-------------|-------|
|          | In             | mm     | In        | mm     | In                       | mm     | Ft          | m     |
| TSL173A  | 1.730          | 43.94  | 1.890     | 48.01  | 2.830                    | 71.88  | 300         | 91.44 |
| TSL185A  | 1.850          | 46.99  | 2.010     | 51.05  | 3.030                    | 76.96  | 300         | 91.44 |
| TSL217A  | 2.190          | 55.63  | 2.350     | 59.69  | 3.500                    | 88.90  | 300         | 91.44 |
| TSL236A  | 2.380          | 60.45  | 2.540     | 64.52  | 3.820                    | 97.02  | 300         | 91.44 |
| TSL260A  | 2.620          | 66.54  | 2.780     | 70.61  | 4.210                    | 106.93 | 300         | 91.44 |
| TSL287A  | 2.880          | 73.15  | 3.040     | 77.22  | 4.650                    | 118.11 | 300         | 91.44 |
| TSL366A  | 3.660          | 92.96  | 3.820     | 97.03  | 5.870                    | 149.09 | 300         | 91.44 |
| TSL441A  | 4.410          | 112.01 | 4.570     | 116.08 | 7.050                    | 179.07 | 300         | 91.44 |

# HOSE PROTECTION

## Hook and Loop Braided Cable or Hose Wrap

### Specifications:

- Material: Polyester and Polyolefin
- Color: Black

### Features:

- Provides excellent abrasion resistance and noise reduction
- Can be easily installed over connectors, fittings, splices, cables and hoses



| Item No. | Nominal Size |    | Max Bundle Dia. |    | Hook & Loop Width |    | Roll Length |    |
|----------|--------------|----|-----------------|----|-------------------|----|-------------|----|
|          | In           | mm | In              | mm | In                | mm | Ft          | m  |
| 900346   | 0.512        | 13 | 0.315           | 8  | 0.394             | 10 | 164         | 50 |
| 900347   | 0.748        | 19 | 0.472           | 12 | 0.394             | 10 | 164         | 50 |
| 900348   | 1.260        | 32 | 0.787           | 20 | 0.787             | 20 | 164         | 50 |
| 900349   | 2.008        | 51 | 1.260           | 32 | 0.787             | 20 | 164         | 50 |
| 900350   | 2.520        | 64 | 1.575           | 40 | 0.787             | 20 | 164         | 50 |

## Hose & Cable Protection Sleeve

### Specifications:

- Material: Polyester
- Color: Black

### Features:

- Lightweight but high strength and abrasion resistance
- Protects people, environment and machinery against hydraulic hose ruptures



| Item No. | Flattened Width |     | Round I.D. |     | Roll Length |      |
|----------|-----------------|-----|------------|-----|-------------|------|
|          | In              | mm  | In         | mm  | Ft          | m    |
| 900343   | 0.787           | 20  | 0.472      | 12  | 100         | 30.5 |
| 900344   | 0.984           | 25  | 0.591      | 15  | 100         | 30.5 |
| 900345   | 1.181           | 30  | 0.748      | 19  | 100         | 30.5 |
| 900346   | 1.378           | 35  | 0.866      | 22  | 100         | 30.5 |
| 900347   | 1.575           | 40  | 0.984      | 25  | 100         | 30.5 |
| 900348   | 1.772           | 45  | 1.102      | 28  | 100         | 30.5 |
| 900349   | 1.969           | 50  | 1.220      | 31  | 100         | 30.5 |
| 900350   | 2.362           | 60  | 1.496      | 38  | 100         | 30.5 |
| 900351   | 2.756           | 70  | 1.732      | 44  | 100         | 30.5 |
| 900352   | 3.150           | 80  | 1.969      | 50  | 100         | 30.5 |
| 900353   | 3.543           | 90  | 2.244      | 57  | 100         | 30.5 |
| 900354   | 3.937           | 100 | 2.362      | 60  | 100         | 30.5 |
| 900355   | 4.528           | 115 | 2.756      | 70  | 50          | 15.0 |
| 900356   | 5.709           | 145 | 3.543      | 90  | 50          | 15.0 |
| 900357   | 6.929           | 176 | 4.331      | 110 | 50          | 15.0 |
| 900358   | 7.874           | 200 | 4.921      | 125 | 50          | 15.0 |

## FPS Series

### Fire Protection Sleeve

#### Specifications:

- Material: Outer Sleeve - Proprietary Iron Oxide Red Silicone Rubber  
Inner Sleeve - Knitted high bulk glass fiber

#### Features:

- Has excellent elasticity great for protecting or bundling hoses, tubes, and cables in a variety of hostile environments
- The insulation properties provide close quartered personnel with effective protection against burns from hot hoses and reduce heat energy loss
- Withstands intense radiant heat and flame
  - Continuous exposure up to 500°F(260°C)
  - 15-20 minutes up to 2000°F(1090°C)
  - 15-30 seconds up to 3000°F(1650°C)
- Immediately sheds splash
  - Withstands repeated exposures to molten steel, molten aluminum and molten glass up to 3000°F(1650°C)



| Item No. | I.D.  | Roll Length Ft |
|----------|-------|----------------|
| FPS1/4A  | 1/4"  | 50             |
| FPS5/16A | 5/16" | 50             |
| FPS3/8A  | 3/8"  | 50             |
| FPS1/2A  | 1/2"  | 50             |
| FPS5/8A  | 5/8"  | 50             |
| FPS3/4A  | 3/4"  | 50             |
| FPS7/8A  | 7/8"  | 50             |
| FPS1A    | 1"    | 50             |

| Item No.  | I.D.   | Roll Length Ft |
|-----------|--------|----------------|
| FPS1-1/4A | 1-1/4" | 50             |
| FPS1-1/2A | 1-1/2" | 50             |
| FPS2A     | 2"     | 50             |
| FPS2-1/2A | 2-1/2" | 50             |
| FPS3A     | 3"     | 50             |
| FPS3-1/2A | 3-1/2" | 50             |
| FPS4A     | 4"     | 50             |



## MTS Series Self-Bonding Silicone Tape

### Specifications:

- Material: Red Silicone on a Mylar film
- -65°F (-54°C) to 500°F (260°C)

### Features:

- Self-bonding – no adhesive (Sticks only to itself)
- Form fitting, making it an excellent solution for odd shapes
- Waterproof seal after 24-hour self-bonding cure
- Excellent electrical properties: dielectric strength of 300 VPM min at 356°F
- Applications: high-temperature cures, powder coating, e-coating, plating, anodizing and electrical harness wrapping



| Item No. | Roll Width |       | Roll Length |    | Thickness Milis |
|----------|------------|-------|-------------|----|-----------------|
|          | In         | mm    | Yds         | m  |                 |
| MTS2010A | 1"         | 25.40 | 12          | 11 | 20              |
| MTS4010A | 1"         | 25.40 | 12          | 11 | 40              |

## Thermal Protection Sleeve

### Specifications:

- Material: Nomex™ Fiber
- Color: Natural

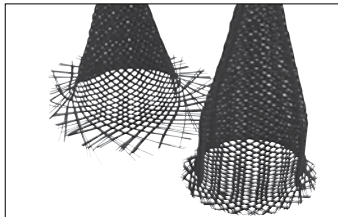
### Features:

- Provides thermal protection and high abrasion resistance
- Soft feel and smooth appearance makes installation easy
- Cuts easily with standard scissors
- Operating Range: -320°F to 662°F (-196°C to 350°C)



| Item No. | Nominal Size |    | Expansion Range |       |     |       | Roll Length |   |
|----------|--------------|----|-----------------|-------|-----|-------|-------------|---|
|          | In           | mm | In              | mm    | Ft  | m     | Ft          | m |
| 900365   | 0.118        | 3  | 0.039           | 0.157 | 100 | 30.48 |             |   |
| 900366   | 0.236        | 6  | 0.196           | 0.314 | 100 | 30.48 |             |   |
| 900367   | 0.314        | 8  | 0.236           | 0.393 | 100 | 30.48 |             |   |
| 900368   | 0.393        | 10 | 0.275           | 0.511 | 100 | 30.48 |             |   |
| 900369   | 0.472        | 12 | 0.314           | 0.629 | 100 | 30.48 |             |   |
| 900370   | 0.591        | 15 | 0.393           | 0.787 | 100 | 30.48 |             |   |
| 900371   | 0.787        | 20 | 0.551           | 1.023 | 100 | 30.48 |             |   |
| 900372   | 0.984        | 25 | 0.708           | 1.299 | 100 | 30.48 |             |   |
| 900373   | 1.181        | 30 | 0.787           | 1.535 | 100 | 30.48 |             |   |
| 900374   | 1.574        | 40 | 1.181           | 2.047 | 100 | 30.48 |             |   |
| 900375   | 1.968        | 50 | 1.574           | 2.559 | 100 | 30.48 |             |   |

## Scissor Cut Sleeve



### Specifications:

- Material: Polyester
- Color: Black

### Features:

- Can be cut with scissors and maintain a frayless end
- Perfect when used in the field where a hot knife is not available
- Excellent abrasion resistance
- Typically used with cables or wires

| Item No. | Nominal Size |    | Expansion Range |        |        |        | Roll Length |       |
|----------|--------------|----|-----------------|--------|--------|--------|-------------|-------|
|          | In           | mm | Min In          | Min mm | Max In | Max mm | Ft          | m     |
| 900289   | 0.125        | 3  | 0.039           | 1      | 0.197  | 5      | 200         | 60.98 |
| 900290   | 0.250        | 6  | 0.118           | 3      | 0.315  | 8      | 200         | 60.98 |
| 900291   | 0.312        | 8  | 0.197           | 5      | 0.394  | 10     | 100         | 30.49 |
| 900292   | 0.375        | 10 | 0.276           | 7      | 0.472  | 12     | 100         | 30.49 |
| 900293   | 0.500        | 12 | 0.315           | 8      | 0.551  | 14     | 100         | 30.49 |
| 900294   | 0.625        | 15 | 0.394           | 10     | 0.709  | 18     | 100         | 30.49 |
| 900295   | 0.750        | 20 | 0.551           | 14     | 0.906  | 23     | 50          | 15.24 |
| 900296   | 1.000        | 25 | 0.709           | 18     | 1.102  | 28     | 50          | 15.24 |
| 900297   | 1.250        | 30 | 0.787           | 20     | 1.378  | 35     | 50          | 15.24 |
| 900298   | 1.500        | 40 | 1.181           | 30     | 1.654  | 42     | 50          | 15.24 |
| 900299   | 1.750        | 45 | 1.378           | 35     | 1.890  | 48     | 50          | 15.24 |
| 900300   | 2.000        | 50 | 1.575           | 40     | 2.126  | 54     | 50          | 15.24 |
| 900301   | 2.500        | 64 | 1.772           | 45     | 2.756  | 70     | 50          | 15.24 |
| 900302   | 3.000        | 76 | 2.520           | 64     | 3.150  | 80     | 50          | 15.24 |

## Textile Heatshrink Sleeve

### Specifications:

- Material: Polyester and Polyolefin
- Color: Black
- Shrink Ratio: 2:1
- Min. Shrink Temperature: 176°F (80°C)
- Min. Full Recovery Temperature: 248°F (120°C)

### Features:

- Provides excellent abrasion resistance and noise reduction
- Can be easily installed over connectors, fittings, splices, cables and hoses



| Item No. | Nominal Size |    | As Supplied I.D. |    | After Recovery I.D. |      | Roll Length |       |
|----------|--------------|----|------------------|----|---------------------|------|-------------|-------|
|          | In           | mm | In               | mm | In                  | mm   | Ft          | m     |
| 900317   | 0.375        | 10 | 0.393            | 10 | 0.196               | 5.0  | 100         | 30.49 |
| 900318   | 0.500        | 12 | 0.472            | 12 | 0.236               | 6.0  | 100         | 30.49 |
| 900319   | 0.750        | 20 | 0.787            | 20 | 0.393               | 10.0 | 100         | 30.49 |
| 900320   | 1.000        | 25 | 0.984            | 25 | 0.492               | 12.5 | 100         | 30.49 |
| 900321   | 1.250        | 30 | 1.181            | 30 | 0.59                | 15.0 | 100         | 30.49 |
| 900322   | 1.338        | 34 | 1.338            | 34 | 0.669               | 17.0 | 100         | 30.49 |
| 900323   | 1.500        | 40 | 1.574            | 40 | 0.787               | 20.0 | 100         | 30.49 |
| 900324   | 2.000        | 50 | 1.968            | 50 | 0.984               | 25.0 | 100         | 30.49 |
| 900325   | 2.375        | 60 | 2.362            | 60 | 1.181               | 30.0 | 100         | 30.49 |
| 900326   | 2.750        | 70 | 2.755            | 70 | 1.377               | 35.0 | 100         | 30.49 |
| 900327   | 3.125        | 80 | 3.149            | 80 | 1.574               | 40.0 | 100         | 30.49 |

## Expandable Sleeve



### Specifications:

- Material: Polyester
- Color: Black

### Features:

- The open weave construction allows for easy installation reducing assembly cost
- Cut and abrasion resistant with high thermal properties
- Flame-retardant, chemical resistant, and halogen free
- Used on wire harnessing applications where durability and low cost are essential
- Typically used with cables or wires

| Item No. | Nominal Size |    | Expansion Range |        |        |        | Roll Length |       |
|----------|--------------|----|-----------------|--------|--------|--------|-------------|-------|
|          | In           | mm | Min In          | Min mm | Max In | Max mm | Ft          | m     |
| 900303   | 0.125        | 3  | 0.039           | 1      | 0.236  | 6      | 200         | 60.98 |
| 900304   | 0.250        | 6  | 0.118           | 3      | 0.354  | 9      | 200         | 60.98 |
| 900305   | 0.312        | 8  | 0.197           | 5      | 0.630  | 16     | 100         | 30.49 |
| 900306   | 0.375        | 10 | 0.276           | 7      | 0.748  | 19     | 100         | 30.49 |
| 900307   | 0.500        | 12 | 0.315           | 8      | 0.945  | 24     | 100         | 30.49 |
| 900308   | 0.625        | 15 | 0.394           | 10     | 1.063  | 27     | 100         | 30.49 |
| 900309   | 0.750        | 20 | 0.551           | 14     | 1.181  | 30     | 50          | 15.24 |
| 900310   | 1.000        | 25 | 0.709           | 18     | 1.378  | 35     | 50          | 15.24 |
| 900311   | 1.250        | 30 | 0.787           | 20     | 1.969  | 50     | 50          | 15.24 |
| 900312   | 1.500        | 40 | 1.181           | 30     | 2.362  | 60     | 50          | 15.24 |
| 900313   | 1.750        | 45 | 1.378           | 35     | 2.953  | 75     | 50          | 15.24 |
| 900314   | 2.000        | 50 | 1.575           | 40     | 3.150  | 80     | 50          | 15.24 |
| 900315   | 2.500        | 64 | 1.772           | 45     | 4.134  | 105    | 50          | 15.24 |
| 900316   | 3.000        | 76 | 2.520           | 64     | 4.724  | 120    | 50          | 15.24 |



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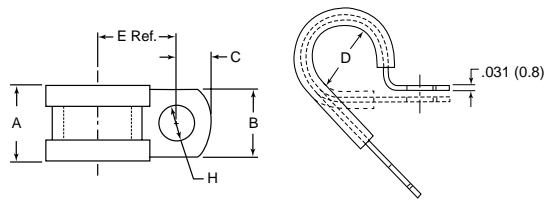
## SPN / SPNW Steel Clamp with Rubber Cushion

### Specifications:

- Material: Cold Rolled Steel, Zinc Electroplated, Elastomer Cushion
- Color: Steel with Black Cushion

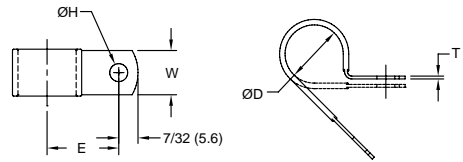
### Features:

- Provides electrical insulation and vibration absorption
- Ideal for long-life applications



| Item No. | D Holding Ø |      | B     |      | A     |      | H Hole Ø |      | E Ref. |      | C     |     | Pack Qty. | Bulk Pack Qty. |
|----------|-------------|------|-------|------|-------|------|----------|------|--------|------|-------|-----|-----------|----------------|
|          | In          | mm   | In    | mm   | In    | mm   | In       | mm   | In     | mm   | In    | mm  |           |                |
| SPN-3    | 0.188       | 4.8  | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 0.500  | 12.7 | 0.260 | 6.6 | 1         | 500            |
| SPN-4    | 0.250       | 6.4  | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 0.530  | 13.5 | 0.260 | 6.6 | 1         | 500            |
| SPNW-4   | 0.250       | 6.4  | 0.625 | 15.9 | 0.750 | 19.1 | 0.406    | 10.3 | 0.530  | 13.5 | 0.313 | 7.9 | 1         | 100            |
| SPN-5    | 0.313       | 7.9  | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 0.560  | 14.2 | 0.260 | 6.6 | 1         | 500            |
| SPNW-5   | 0.313       | 7.9  | 0.625 | 15.9 | 0.750 | 19.1 | 0.406    | 10.3 | 0.560  | 14.2 | 0.313 | 7.9 | 1         | 100            |
| SPN-6    | 0.375       | 9.5  | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 0.590  | 15   | 0.260 | 6.6 | 1         | 500            |
| SPNW-6   | 0.375       | 9.5  | 0.625 | 15.9 | 0.750 | 19.1 | 0.406    | 10.3 | 0.590  | 15   | 0.313 | 7.9 | 1         | 100            |
| SPN-7    | 0.438       | 11.1 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 0.620  | 15.7 | 0.260 | 6.6 | 1         | 500            |
| SPNW-7   | 0.438       | 11.1 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406    | 10.3 | 0.620  | 15.7 | 0.313 | 7.9 | 1         | 100            |
| SPN-8    | 0.500       | 12.7 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 0.650  | 16.5 | 0.260 | 6.6 | 1         | 500            |
| SPNW-8   | 0.500       | 12.7 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406    | 10.3 | 0.650  | 16.5 | 0.313 | 7.9 | 1         | 100            |
| SPN-9    | 0.563       | 14.3 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 0.750  | 19.1 | 0.260 | 6.6 | 1         | 500            |
| SPNW-9   | 0.563       | 14.3 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406    | 10.3 | 0.750  | 19.1 | 0.260 | 6.6 | 1         | 500            |
| SPN-10   | 0.625       | 15.9 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 0.780  | 19.8 | 0.260 | 6.6 | 1         | 500            |
| SPNW-10  | 0.625       | 15.9 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406    | 10.3 | 0.780  | 19.8 | 0.313 | 7.9 | 1         | 100            |
| SPN-11   | 0.688       | 17.5 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 0.810  | 20.6 | 0.260 | 6.6 | 1         | 500            |
| SPNW-11  | 0.688       | 17.5 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406    | 10.3 | 0.810  | 20.6 | 0.313 | 7.9 | 1         | 100            |
| SPN-12   | 0.750       | 19.1 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 0.840  | 21.3 | 0.260 | 6.6 | 1         | 500            |
| SPN-14   | 0.875       | 22.2 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 0.900  | 22.9 | 0.260 | 6.6 | 1         | 100            |
| SPNW-14  | 0.875       | 22.2 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406    | 10.3 | 0.900  | 22.9 | 0.313 | 7.9 | 1         | 100            |
| SPN-16   | 1.000       | 25.4 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 0.960  | 24.4 | 0.260 | 6.6 | 1         | 100            |
| SPNW-16  | 1.000       | 25.4 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406    | 10.3 | 0.960  | 24.4 | 0.313 | 7.9 | 1         | 100            |
| SPN-18   | 1.125       | 28.6 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 1.050  | 26.7 | 0.260 | 6.6 | 1         | 100            |
| SPN-20   | 1.250       | 31.8 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266    | 6.7  | 1.110  | 28.2 | 0.260 | 6.6 | 1         | 100            |
| SPNW-20  | 1.250       | 31.8 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406    | 10.3 | 1.110  | 28.2 | 0.313 | 7.9 | 1         | 100            |

## NE Aluminum Clamp with Vinyl Coating



### Specifications:

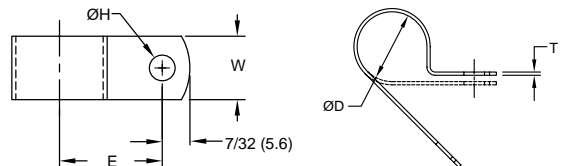
- Material: Aluminum Alloy 5052 H-32, TPV Coating
- Color: Aluminum with Black Coating

### Features:

- Vinyl coating allows a more permanent solution for protecting cables against vibration
- Screw mount area is bare to ensure firm tightening

| Item No. | Holding Ø D |      | Ø H Hole |     | E Ref. |      | T    |     | W   |      | Pack Qty. | Bulk Pack Qty. |
|----------|-------------|------|----------|-----|--------|------|------|-----|-----|------|-----------|----------------|
|          | In          | mm   | In       | mm  | In     | mm   | In   | mm  | In  | mm   |           |                |
| NE3      | 3/16        | 4.8  | .204     | 5.2 | .50    | 12.7 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| NE4      | 1/4         | 6.4  | .204     | 5.2 | .53    | 13.5 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| NE5      | 5/16        | 7.9  | .204     | 5.2 | .56    | 14.2 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| NE6      | 3/8         | 9.5  | .204     | 5.2 | .59    | 15.0 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| NE7      | 7/16        | 11.1 | .204     | 5.2 | .62    | 15.7 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| NE8      | 1/2         | 12.7 | .204     | 5.2 | .65    | 16.5 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| NE9      | 9/16        | 14.3 | .204     | 5.2 | .75    | 19.1 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| NE10     | 5/8         | 15.9 | .204     | 5.2 | .78    | 19.8 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| NE11     | 11/16       | 17.5 | .204     | 5.2 | .81    | 20.6 | 1/16 | 1.6 | 1/2 | 12.7 | 1         | 500            |
| NE12     | 3/4         | 19.1 | .204     | 5.2 | .84    | 21.3 | 1/16 | 1.6 | 1/2 | 12.7 | 1         | 500            |
| NE14     | 7/8         | 22.2 | .204     | 5.2 | .90    | 22.9 | 1/16 | 1.6 | 1/2 | 12.7 | 1         | 500            |
| NE16     | 1           | 25.4 | .204     | 5.2 | .96    | 24.4 | 1/16 | 1.6 | 1/2 | 12.7 | 1         | 500            |
| NE18     | 1-1/8       | 28.6 | .204     | 5.2 | 1.05   | 26.7 | 1/16 | 1.6 | 1/2 | 12.7 | 1         | 500            |
| NE20     | 1-1/4       | 31.8 | .204     | 5.2 | 1.11   | 28.2 | 1/16 | 1.6 | 1/2 | 12.7 | 1         | 500            |

## AL Aluminum Clamp



### Specifications:

- Material: Aluminum Alloy 5052 H-32
- Color: Aluminum

| Item No. | Holding Ø D |      | Ø H Hole |     | E Ref. |      | T    |     | W   |      | Pack Qty. | Bulk Pack Qty. |
|----------|-------------|------|----------|-----|--------|------|------|-----|-----|------|-----------|----------------|
|          | In          | mm   | In       | mm  | In     | mm   | In   | mm  | In  | mm   |           |                |
| AL2A     | 1/8         | 3.2  | .204     | 5.2 | .46    | 11.7 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| AL3A     | 3/16        | 4.8  | .204     | 5.2 | .50    | 12.7 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| AL4A     | 1/4         | 6.4  | .204     | 5.2 | .53    | 13.5 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| AL5A     | 5/16        | 7.9  | .204     | 5.2 | .56    | 14.2 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| AL6A     | 3/8         | 9.5  | .204     | 5.2 | .59    | 15.0 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| AL7A     | 7/16        | 11.1 | .204     | 5.2 | .62    | 15.7 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| AL8A     | 1/2         | 12.7 | .204     | 5.2 | .65    | 16.5 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| AL9A     | 9/16        | 14.3 | .204     | 5.2 | .75    | 19.1 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| AL10A    | 5/8         | 15.9 | .204     | 5.2 | .78    | 19.8 | 1/32 | 0.8 | 3/8 | 9.5  | 1         | 1000           |
| AL11     | 11/16       | 17.5 | .204     | 5.2 | .81    | 20.6 | 1/32 | 0.8 | 1/2 | 12.7 | 1         | 500            |
| AL12     | 3/4         | 19.1 | .204     | 5.2 | .84    | 21.3 | 1/32 | 0.8 | 1/2 | 12.7 | 1         | 500            |
| AL14     | 7/8         | 22.2 | .204     | 5.2 | .90    | 22.9 | 1/32 | 0.8 | 1/2 | 12.7 | 1         | 500            |
| AL16     | 1           | 25.4 | .204     | 5.2 | .96    | 24.4 | 1/16 | 1.6 | 1/2 | 12.7 | 1         | 500            |
| AL18     | 1-1/8       | 28.6 | .204     | 5.2 | 1.05   | 26.7 | 1/16 | 1.6 | 1/2 | 12.7 | 1         | 500            |
| AL20     | 1-1/4       | 31.8 | .204     | 5.2 | 1.11   | 28.2 | 1/16 | 1.6 | 1/2 | 12.7 | 1         | 500            |

# HOSE & TUBING CLAMPS

## Hose Clamps



- All hose clamps have rounded edges to protect the hose
- Three piece interlock construction-no spot welds to corrode
- Easily installed with screwdriver, nut driver, or socket wrench

| Partial Stainless |           | All 300 Stainless |            | All 316 Stainless |          | Clamp Diameter Fractional Min. | Clamp Diameter Fractional Max. | Clamp Diameter Metric Min. | Clamp Diameter Metric Max. | SAE # | Bulk Pack Qty |
|-------------------|-----------|-------------------|------------|-------------------|----------|--------------------------------|--------------------------------|----------------------------|----------------------------|-------|---------------|
| Item No.          | Item No.  | Price Each        | Item No.   | Item No.          | Item No. |                                |                                |                            |                            |       |               |
| <b>5/16" Band</b> |           |                   |            |                   |          |                                |                                |                            |                            |       |               |
| HCL-M4P           | HCL-M4HSP | 6.93              | HCL-M4HSPX |                   |          | 7/32                           | 5/8                            | 5.6                        | 15.9                       | 4     | 10            |
| HCL-M6P           | HCL-M6HSP | 7.18              | HCL-M6HSPX |                   |          | 5/16                           | 7/8                            | 7.9                        | 22.2                       | 6     | 10            |
| HCL-M8P           | —         | —                 | —          |                   |          | 7/16                           | 1                              | 11.1                       | 25.4                       | 8     | 10            |
| <b>1/2" Band</b>  |           |                   |            |                   |          |                                |                                |                            |                            |       |               |
| HCL-6H            | HCL-6HSP  | 7.80              | HCL-6HSPX  |                   |          | 3/8                            | 7/8                            | 9.5                        | 22.2                       | 6     | 10            |
| HCL-8H            | HCL-8HSP  | 8.95              | HCL-8HSPX  |                   |          | 7/16                           | 1                              | 11.1                       | 25.4                       | 8     | 10            |
| HCL-10H           | HCL-10HSP | 9.42              | HCL-10HSPX |                   |          | 9/16                           | 1 1/16                         | 14.3                       | 27.0                       | 10    | 10            |
| HCL-12H           | HCL-12HSP | 9.64              | HCL-12HSPX |                   |          | 9/16                           | 1 1/4                          | 14.3                       | 31.7                       | 12    | 10            |
| HCL-16H           | HCL-16HSP | 10.78             | HCL-16HSPX |                   |          | 1 1/16                         | 1 1/2                          | 17.5                       | 38.1                       | 16    | 10            |
| HCL-20H           | HCL-20HSP | 11.97             | HCL-20HSPX |                   |          | 3/4                            | 1 3/4                          | 19.1                       | 44.4                       | 20    | 10            |
| HCL-24H           | HCL-24HSP | 11.47             | HCL-24HSPX |                   |          | 1 1/16                         | 2                              | 27.0                       | 50.8                       | 24    | 10            |
| HCL-28H           | HCL-28HSP | 11.68             | HCL-28HSPX |                   |          | 1 1/16                         | 2 1/4                          | 33.3                       | 57.2                       | 28    | 10            |
| HCL-32H           | HCL-32HSP | 12.13             | HCL-32HSPX |                   |          | 1 1/16                         | 2 1/2                          | 39.7                       | 63.5                       | 32    | 10            |
| HCL-36H           | HCL-36HSP | 12.47             | HCL-36HSPX |                   |          | 1 13/16                        | 2 3/4                          | 46.0                       | 69.9                       | 36    | 10            |
| HCL-40H           | HCL-40HSP | 13.20             | HCL-40HSPX |                   |          | 2 1/16                         | 3                              | 52.4                       | 76.2                       | 40    | 10            |
| HCL-44H           | HCL-44HSP | 13.57             | HCL-44HSPX |                   |          | 2 5/16                         | 3 1/4                          | 58.7                       | 82.6                       | 44    | 10            |
| HCL-48H           | HCL-48HSP | 14.13             | HCL-48HSPX |                   |          | 2 9/16                         | 3 1/2                          | 65.1                       | 88.9                       | 48    | 10            |
| HCL-52H           | HCL-52HSP | 14.81             | HCL-52HSPX |                   |          | 2 13/16                        | 3 3/4                          | 71.4                       | 95.3                       | 52    | 10            |
| HCL-56H           | HCL-56HSP | 15.22             | —          |                   |          | 3 1/16                         | 4                              | 77.8                       | 101.6                      | 56    | 10            |
| HCL-64H           | HCL-64HSP | 15.54             | HCL-64HSPX |                   |          | 3 9/16                         | 4 1/2                          | 90.5                       | 114.3                      | 64    | 10            |
| HCL-80H           | HCL-80HSP | 18.17             | HCL-80HSPX |                   |          | 4 5/8                          | 5 1/2                          | 117.5                      | 139.7                      | 80    | 10            |
| HCL-96H           | HCL-96HSP | 22.33             | HCL-96HSPX |                   |          | 4 1/2                          | 6 1/2                          | 104.0                      | 152.4                      | 96    | 10            |

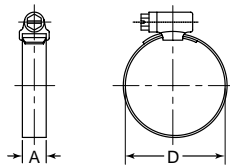
**Partial Stainless** - Stainless steel band and housing with carbon screw. Recommended for most applications.

**All 300 Stainless** - 300 series stainless steel band, housing and screw. Highly corrosion resistant and low in magnetic permeability.

**All 316 Stainless** - Marine grade 316 stainless steel band, housing and screw. Recommended in highly corrosive and salt-water environments. Non-magnetic.

## WDHC Series

### Worm Drive or Worm Gear Hose Clamps



#### Specifications:

- Material: Refer to Chart

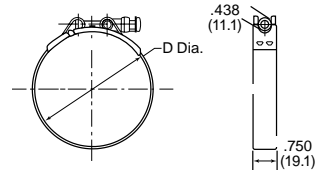
#### Features:

- Can be used with the TSL or TQS series sleeves
- Band detaches from the housing so you can install or remove them without disconnecting the hose or tube
- Screw is same material as band

| Item No.     | Item No.        | SAE # | Dia Range D |          |        | Bulk Pack Qty |
|--------------|-----------------|-------|-------------|----------|--------|---------------|
| Carbon Steel | Stainless Steel |       | Min (In)    | Max (In) | A (In) |               |
| WDHC04A      | WDHC04B         | 4     | 0.250       | 0.625    | 0.320  | 100           |
| WDHC06A      | WDHC06B         | 6     | 0.438       | 0.750    | 0.320  | 100           |
| WDHC08A      | WDHC08B         | 8     | 0.500       | 0.875    | 0.320  | 100           |
| WDHC10A      | WDHC10B         | 10    | 0.500       | 1.063    | 0.500  | 50            |
| WDHC12A      | WDHC12B         | 12    | 0.500       | 1.250    | 0.500  | 50            |
| WDHC16A      | WDHC16B         | 16    | 1.063       | 1.500    | 0.500  | 50            |
| WDHC20A      | WDHC20B         | 20    | 0.750       | 1.750    | 0.500  | 50            |
| WDHC24A      | WDHC24B         | 24    | 1.000       | 2.000    | 0.500  | 25            |
| WDHC28A      | WDHC28B         | 28    | 1.250       | 2.250    | 0.500  | 25            |
| WDHC32A      | WDHC32B         | 32    | 1.500       | 2.500    | 0.500  | 25            |
| WDHC36A      | WDHC36B         | 36    | 1.750       | 2.750    | 0.500  | 25            |
| WDHC44A      | WDHC44B         | 44    | 2.250       | 3.250    | 0.500  | 25            |
| WDHC48A      | WDHC48B         | 48    | 2.500       | 3.500    | 0.500  | 20            |
| WDHC52A      | WDHC52B         | 52    | 2.750       | 3.750    | 0.500  | 20            |
| WDHC56A      | WDHC56B         | 56    | 3.000       | 4.000    | 0.500  | 20            |
| WDHC60A      | WDHC60B         | 60    | 3.250       | 4.250    | 0.500  | 20            |
| WDHC64A      | WDHC64B         | 64    | 2.500       | 4.500    | 0.500  | 20            |
| WDHC72A      | WDHC72B         | 72    | 3.000       | 5.000    | 0.500  | 10            |
| WDHC80A      | WDHC80B         | 80    | 3.500       | 5.500    | 0.500  | 10            |
| WDHC88A      | WDHC88B         | 88    | 4.000       | 6.000    | 0.500  | 10            |
| WDHC96A      | WDHC96B         | 96    | 4.500       | 6.500    | 0.500  | 10            |

## TBC Series

### T-Bolt Hose Clamps



#### Specifications:

- All components 301 stainless
- Bolt: 1/4 - 28 inch
- Nut: 7/16 inch hex, nylon insert

#### Features:

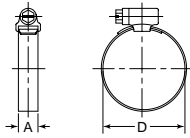
- Designed to provide a dependable seal on large diameter applications where high vibration occurs

| Item No. | SAE Size | Diameter Range D |          | Bulk Pack Qty |
|----------|----------|------------------|----------|---------------|
|          |          | Min (In)         | Max (In) |               |
| TBC15A   | —        | 1.375            | 1.562    | 25            |
| TBC17A   | —        | 1.625            | 1.875    | 25            |
| TBC28A   | 28       | 1.750            | 1.937    | 25            |
| TBC32A   | 32       | 1.875            | 2.187    | 25            |
| TBC36A   | 36       | 2.125            | 2.312    | 25            |
| TBC40A   | 40       | 2.250            | 2.437    | 25            |
| TBC44A   | 44       | 2.375            | 2.562    | 25            |
| TBC48A   | 48       | 2.375            | 2.687    | 10            |
| TBC52A   | 52       | 2.500            | 2.812    | 10            |
| TBC56A   | 56       | 2.625            | 2.937    | 10            |
| TBC60A   | 60       | 2.750            | 3.062    | 10            |
| TBC64A   | 64       | 2.875            | 3.187    | 10            |
| TBC68A   | 68       | 3.000            | 3.312    | 10            |
| TBC76A   | 76       | 3.250            | 3.562    | 10            |
| TBC84A   | 84       | 3.500            | 3.812    | 10            |
| TBC92A   | 92       | 3.750            | 4.062    | 10            |
| TBC100A  | 100      | 4.000            | 4.312    | 5             |
| TBC108A  | 108      | 4.250            | 4.562    | 5             |
| TBC116A  | 116      | 4.500            | 4.812    | 5             |
| TBC124A  | 124      | 4.750            | 5.062    | 5             |
| TBC132A  | 132      | 5.000            | 5.312    | 5             |
| TBC140A  | 140      | 5.250            | 5.562    | 5             |
| TBC148A  | 148      | 5.500            | 5.812    | 5             |
| TBC156A  | 156      | 5.750            | 6.062    | 5             |
| TBC172A  | 172      | 6.250            | 6.562    | 5             |
| TBC188A  | 188      | 6.750            | 7.062    | 5             |
| TBC204A  | 204      | 7.250            | 7.562    | 2             |

# HOSE STRAPS & CLAMPS



## MHC Series Mini Worm Gear Hose Clamps



### Specifications:

- Band and Housing: Stainless steel
- Screw: 1/4 inch hex-head. Plated carbon steel

### Features:

- To be used on small hose applications
- Low profile housing and thin band make them easier to install or remove in confined areas

| Item No. | SAE Size | Diameter Range D |          | A (In) | Bulk Pack Qty |
|----------|----------|------------------|----------|--------|---------------|
|          |          | Min (In)         | Max (In) |        |               |
| MHC04A   | 4        | 0.250            | 0.625    | 0.312  | 100           |
| MHC05A   | 5        | 0.250            | 0.687    | 0.312  | 100           |
| MHC06A   | 6        | 0.312            | 0.875    | 0.312  | 100           |
| MHC08A   | 8        | 0.375            | 1.000    | 0.312  | 100           |
| MHC10A   | 10       | 0.375            | 1.062    | 0.312  | 100           |
| MHC12A   | 12       | 0.500            | 1.250    | 0.312  | 50            |
| MHC16A   | 16       | 0.500            | 1.500    | 0.312  | 50            |
| MHC20A   | 20       | 0.750            | 1.750    | 0.312  | 50            |

| Item No. | SAE Size | Diameter Range D |          | A (In) | BulkPack Qty |
|----------|----------|------------------|----------|--------|--------------|
|          |          | Min (In)         | Max (In) |        |              |
| MHC24A   | 24       | 1.000            | 2.000    | 0.312  | 50           |
| MHC28A   | 28       | 1.250            | 2.250    | 0.312  | 20           |
| MHC30A   | 30       | 1.375            | 2.375    | 0.312  | 25           |
| MHC32A   | 32       | 1.500            | 2.500    | 0.312  | 25           |
| MHC36A   | 36       | 1.750            | 2.750    | 0.312  | 25           |
| MHC44A   | 44       | 2.250            | 3.250    | 0.312  | 20           |
| MHC48A   | 48       | 2.500            | 3.500    | 0.312  | 20           |

## TCS & THCS Series Standard & Hanging Cinch Straps



### Specifications:

- Material:
  - Standard: Nylon 22, Delrin Buckles
  - Heavy Duty: Woven Nylon Webbing, Nickel-Plated Steel Buckles
- Color: Black

### Features:

- Add, remove or adjust hose bundles in minutes.
- Cuts normal installation time by 50%
- The hook and loop design holds hoses securely while allowing natural hose expansion and contraction movement without damage
- The grommet on the THCS strap can be attached to any convenient bulkhead or mounting surface
- Excellent UV and weather resistance

### Cinch Straps

| Item No.<br>Standard | Item No.<br>Heavy | Bundle Diameter |        |
|----------------------|-------------------|-----------------|--------|
|                      |                   | In              | mm     |
| TCS4A                | TCS4HA            | 1.270           | 32.25  |
| TCS8A                | TCS8HA            | 2.540           | 64.51  |
| TCS12A               | TCS12HA           | 3.820           | 97.02  |
| TCS16A               | TCS16HA           | 5.100           | 129.54 |
| TCS20A               | TCS20HA           | 6.370           | 161.79 |

### Hanging Cinch Straps

| Item No.<br>Standard | Item No.<br>Heavy | Bundle Diameter |        |
|----------------------|-------------------|-----------------|--------|
|                      |                   | In              | mm     |
| THCS1A               | —                 | 0.320           | 8.12   |
| THCS4A               | THCS4HA           | 1.270           | 32.25  |
| THCS8A               | THCS8HA           | 2.540           | 64.51  |
| THCS12A              | THCS12HA          | 3.820           | 97.02  |
| THCS16A              | THCS16HA          | 5.100           | 129.54 |
| THCS20A              | THCS20HA          | 6.370           | 161.79 |

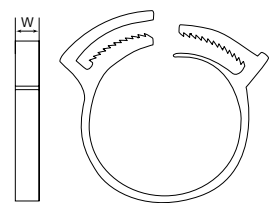
## THC & SHC Series Quick Assemble Hose Clamps



### Specifications:

- Material: THC Series - UL94V-2 Nylon 6/6  
SHC Series - UL94 HB Nylon 6/6
- Color: THC Series: Black  
SHC Series: White

| Item No. | Bundle Range  |             | W     |     |
|----------|---------------|-------------|-------|-----|
|          | In            | mm          | In    | mm  |
| THC1A    | 0.260 - 0.315 | 6.6 - 8.0   | 0.197 | 5.0 |
| THC2A    | 0.315 - 0.362 | 8.0 - 9.2   | 0.197 | 5.0 |
| SHC-23   | 0.359 - 0.390 | 9.1 - 9.9   | 0.220 | 5.6 |
| THC3A    | 0.362 - 0.413 | 9.2 - 10.5  | 0.197 | 5.0 |
| SHC-26   | 0.390 - 0.468 | 9.9 - 11.9  | 0.220 | 5.6 |
| THC4A    | 0.413 - 0.472 | 10.5 - 12.0 | 0.236 | 6.0 |
| SHC-30   | 0.468 - 0.531 | 11.9 - 13.5 | 0.220 | 5.6 |
| THC6A    | 0.504 - 0.591 | 12.8 - 15.0 | 0.276 | 7.0 |
| SHC-32   | 0.531 - 0.593 | 13.5 - 15.1 | 0.220 | 5.6 |
| THC7A    | 0.591 - 0.677 | 15.0 - 17.2 | 0.276 | 7.0 |
| SHC-38   | 0.593 - 0.674 | 15.1 - 16.7 | 0.220 | 5.6 |
| THC8A    | 0.670 - 0.728 | 17.0 - 18.5 | 0.276 | 7.0 |
| SHC-44   | 0.687 - 0.812 | 17.5 - 20.6 | 0.220 | 5.6 |
| THC9A    | 0.717 - 0.807 | 18.2 - 20.5 | 0.276 | 7.0 |
| SHC-50   | 0.750 - 0.875 | 19.1 - 22.2 | 0.220 | 5.6 |
| THC10A   | 0.807 - 0.906 | 20.5 - 23.0 | 0.276 | 7.0 |
| THC11A   | 0.866 - 0.984 | 22.0 - 25.0 | 0.276 | 7.0 |
| SHC-56   | 0.875 - 1.000 | 22.2 - 25.4 | 0.220 | 5.6 |
| SHC-62   | 0.953 - 1.093 | 24.2 - 27.8 | 0.310 | 7.9 |
| THC12A   | 0.984 - 1.102 | 25.0 - 28.0 | 0.276 | 7.0 |



### Features:

- Quick and easy assembly or removal
- Adjustable locking range to fit various diameters
- Excellent for securing the ends of textile covers to the hose assembly

| Item No. | Bundle Range  |             | W     |      |
|----------|---------------|-------------|-------|------|
|          | In            | mm          | In    | mm   |
| THC13A   | 1.063 - 1.181 | 27.0 - 30.0 | 0.295 | 7.5  |
| SHC-68   | 1.093 - 1.187 | 26.2 - 30.2 | 0.310 | 7.9  |
| THC14A   | 1.161 - 1.280 | 29.5 - 32.5 | 0.295 | 7.5  |
| THC15A   | 1.280 - 1.398 | 32.5 - 35.5 | 0.315 | 8.00 |
| SHC-80   | 1.250 - 1.437 | 31.8 - 36.5 | 0.310 | 7.9  |
| THC16A   | 1.378 - 1.516 | 35.0 - 38.5 | 0.315 | 8.0  |
| SHC-92   | 1.406 - 1.625 | 35.7 - 41.3 | 0.360 | 9.1  |
| THC17A   | 1.496 - 1.634 | 38.0 - 41.5 | 0.315 | 8.0  |
| THC18A   | 1.614 - 1.752 | 41.0 - 44.5 | 0.315 | 8.0  |
| THC19A   | 1.732 - 1.870 | 44.0 - 47.5 | 0.315 | 8.0  |
| THC20A   | 1.850 - 1.988 | 47.0 - 50.5 | 0.315 | 8.0  |
| THC21A   | 1.969 - 2.106 | 50.0 - 53.5 | 0.315 | 8.0  |
| THC22A   | 2.087 - 2.244 | 53.0 - 57.0 | 0.315 | 8.0  |
| SHC-134  | 2.125 - 2.375 | 54.0 - 60.3 | 0.400 | 10.2 |
| THC23A   | 2.224 - 2.382 | 56.5 - 60.5 | 0.315 | 8.0  |
| THC24A   | 2.362 - 2.559 | 60.0 - 65.0 | 0.315 | 8.0  |
| THC25A   | 2.598 - 2.756 | 66.0 - 70.0 | 0.315 | 8.0  |
| THC26A   | 2.756 - 2.953 | 70.0 - 75.0 | 0.315 | 8.0  |
| THC27A   | 2.992 - 3.150 | 76.0 - 80.0 | 0.315 | 8.0  |
| THC28A   | 3.150 - 3.346 | 80.0 - 85.0 | 0.315 | 8.0  |

# CABLE TIES

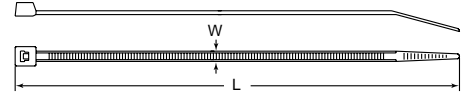
## CT / WITA Nylon Locking Cable Tie

### Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table
- Service Temperature: -40°F to 185°F (-40°C to 85°C)

### Features:

- Complies with MS-3367 & MIL-S-23190E
- UL 181B-C for UL non-metallic air ducts and connectors on CT080A, CT080B, CT082A & CT082B: recommended for use with R-6 & R-8 flex ducts



| Item No.    |        | L Ref. |        | W Ref. |       | Max Bundle Ø |        | Tensile Strength |     | Classification | Bulk Pack Qty. |      |
|-------------|--------|--------|--------|--------|-------|--------------|--------|------------------|-----|----------------|----------------|------|
| Natural     | Black  | In     | mm     | In     | mm    | In           | mm     | Lbs              | N   |                |                |      |
| CT001A      | CT001B | YI     | 3.000  | 75.0   | 0.095 | 2.4          | 0.710  | 18.0             | 18  | 80             | Miniature      | 100  |
| CT002A      | CT002B | YI     | 3.750  | 96.0   | 0.098 | 2.4          | 0.910  | 23.0             | 18  | 80             | Miniature      | 100  |
| WITA-18SF-M | -      | YI     | 3.850  | 97.8   | 0.100 | 2.5          | 0.870  | 22.0             | 18  | 80             | Miniature      | 1000 |
| CT003A      | CT003B | YI     | 4.000  | 100.0  | 0.098 | 2.4          | 0.980  | 25.0             | 18  | 80             | Miniature      | 100  |
| WITA-18R-M  | -      | YI     | 4.720  | 120.0  | 0.100 | 2.5          | 1.060  | 26.9             | 18  | 80             | Miniature      | 1000 |
| CT004A      | CT004B | YI     | 4.750  | 120.0  | 0.098 | 2.5          | 1.180  | 30.0             | 18  | 80             | Miniature      | 100  |
| CT005A      | CT005B | YI     | 5.500  | 142.0  | 0.098 | 2.5          | 1.380  | 35.0             | 18  | 80             | Miniature      | 100  |
| WITA-18L-M  | -      | YI     | 5.900  | 150.0  | 0.100 | 2.5          | 1.460  | 37.1             | 18  | 80             | Miniature      | 1000 |
| CT006A      | CT006B | YI     | 6.500  | 165.0  | 0.098 | 2.5          | 1.730  | 44.0             | 18  | 80             | Miniature      | 100  |
| WITA-18V-M  | -      | YI     | 7.870  | 200.0  | 0.100 | 2.5          | 2.130  | 54.1             | 18  | 80             | Miniature      | 1000 |
| CT007A      | CT007B | YI     | 8.000  | 203.0  | 0.098 | 2.5          | 2.170  | 55.0             | 18  | 80             | Miniature      | 100  |
| WITA-18X-M  | -      | YI     | 15.750 | 400.0  | 0.100 | 2.5          | 4.560  | 116.0            | 18  | 80             | Miniature      | 1000 |
| CT008A      | CT008B | YI     | 4.750  | 120.0  | 0.126 | 3.2          | 1.180  | 40.0             | 40  | 178            | Intermediate   | 100  |
| CT009A      | CT009B | YI     | 5.500  | 142.0  | 0.126 | 3.2          | 1.380  | 40.0             | 40  | 178            | Intermediate   | 100  |
| WITA-40R-C  | -      | YI     | 5.910  | 150.0  | 0.140 | 3.6          | 1.480  | 37.6             | 40  | 178            | Intermediate   | 100  |
| WITA-40R-M  | -      | YI     | 5.910  | 150.0  | 0.140 | 3.6          | 1.480  | 37.6             | 40  | 178            | Intermediate   | 1000 |
| CT010A      | CT010B | YI     | 6.000  | 150.0  | 0.142 | 3.6          | 1.540  | 39.0             | 40  | 178            | Intermediate   | 100  |
| CT020A      | CT020B | YI     | 7.000  | 180.0  | 0.141 | 3.6          | 1.930  | 49.0             | 40  | 178            | Intermediate   | 100  |
| WITA-40L-M  | -      | YI     | 7.870  | 200.0  | 0.140 | 3.6          | 2.050  | 52.0             | 40  | 178            | Intermediate   | 1000 |
| CT011A      | CT011B | YI     | 8.000  | 203.0  | 0.126 | 3.2          | 2.170  | 40.0             | 40  | 178            | Intermediate   | 100  |
| CT012A      | CT012C | YI     | 8.000  | 203.0  | 0.142 | 3.6          | 2.170  | 55.0             | 40  | 178            | Intermediate   | 100  |
| WITA-40XL-M | -      | YI     | 8.070  | 205.0  | 0.140 | 3.6          | 2.100  | 53.3             | 40  | 178            | Intermediate   | 1000 |
| CT013A      | CT013B | YI     | 10.000 | 250.0  | 0.142 | 3.6          | 2.910  | 74.0             | 40  | 178            | Intermediate   | 100  |
| CT014A      | CT014B | YI     | 10.500 | 265.0  | 0.142 | 3.6          | 3.070  | 78.0             | 40  | 178            | Intermediate   | 100  |
| CT015A      | CT015B | YI     | 11.500 | 292.0  | 0.142 | 3.6          | 3.350  | 85.0             | 40  | 178            | Intermediate   | 100  |
| WITA-40VL-M | -      | YI     | 11.810 | 300.0  | 0.140 | 3.6          | 3.270  | 83.0             | 40  | 178            | Intermediate   | 1000 |
| CT016A      | CT016B | YI     | 13.000 | 330.0  | 0.142 | 3.6          | 3.780  | 96.0             | 40  | 178            | Intermediate   | 100  |
| CT017A      | CT017B | YI     | 14.500 | 368.0  | 0.142 | 3.6          | 4.020  | 102.0            | 40  | 178            | Intermediate   | 100  |
| CT018A      | CT018B | YI     | 4.750  | 120.0  | 0.189 | 4.8          | 1.180  | 30.0             | 50  | 222            | Standard       | 100  |
| WITA-50S-M  | -      | YI     | 6.300  | 160.0  | 0.180 | 4.6          | 1.520  | 38.7             | 50  | 222            | Standard       | 1000 |
| CT019A      | CT019B | YI     | 6.500  | 160.0  | 0.189 | 4.8          | 1.650  | 42.0             | 50  | 222            | Standard       | 100  |
| CT021A      | CT021B | YI     | 7.500  | 190.0  | 0.189 | 4.8          | 2.050  | 52.0             | 50  | 222            | Standard       | 100  |
| WITA-50R-M  | -      | YI     | 7.900  | 200.7  | 0.180 | 4.6          | 1.950  | 49.5             | 50  | 222            | Standard       | 1000 |
| CT022A      | CT022B | YI     | 8.000  | 203.0  | 0.181 | 4.6          | 2.170  | 55.0             | 50  | 222            | Standard       | 100  |
| CT023A      | CT023B | YI     | 10.000 | 250.0  | 0.189 | 4.8          | 2.910  | 74.0             | 50  | 222            | Standard       | 100  |
| CT024A      | CT024B | YI     | 11.000 | 280.0  | 0.189 | 4.8          | 3.190  | 81.0             | 50  | 222            | Standard       | 100  |
| WITA-50RL-M | -      | YI     | 11.020 | 280.0  | 0.190 | 4.8          | 3.030  | 77.0             | 50  | 222            | Standard       | 1000 |
| CT025A      | CT025B | YI     | 11.875 | 300.0  | 0.189 | 4.8          | 3.350  | 85.0             | 50  | 222            | Standard       | 100  |
| CT026A      | CT026B | YI     | 12.250 | 310.0  | 0.189 | 4.8          | 3.500  | 89.0             | 50  | 222            | Standard       | 100  |
| CT027A      | CT027B | YI     | 14.500 | 368.0  | 0.189 | 4.8          | 4.020  | 102.0            | 50  | 222            | Standard       | 100  |
| CT028A      | CT028B | YI     | 15.250 | 385.0  | 0.189 | 4.8          | 4.570  | 116.0            | 50  | 222            | Standard       | 100  |
| WITA-50L-M  | -      | YI     | 15.750 | 400.0  | 0.180 | 4.6          | 4.450  | 113.0            | 50  | 222            | Standard       | 1000 |
| CT029A      | CT029B | YI     | 17.000 | 432.0  | 0.189 | 4.8          | 4.920  | 125.0            | 50  | 222            | Standard       | 100  |
| CT030A      | CT030B | YI     | 17.750 | 450.0  | 0.189 | 4.8          | 5.120  | 130.0            | 50  | 222            | Standard       | 100  |
| CT031A      | CT031B | YI     | 19.687 | 500.0  | 0.189 | 4.8          | 5.910  | 150.0            | 50  | 222            | Standard       | 100  |
| CT033A      | CT033B | -      | 21.687 | 550.0  | 0.189 | 4.8          | 6.540  | 166.0            | 50  | 222            | Standard       | 100  |
| WITA-50XL-C | -      | YI     | 25.000 | 635.0  | 0.190 | 4.8          | 7.480  | 190.0            | 50  | 222            | Standard       | 100  |
| CT063A      | CT063B | -      | 36.000 | 914.0  | 0.189 | 4.8          | 10.630 | 270.0            | 50  | 222            | Standard       | 100  |
| CT064A      | CT064B | -      | 4.750  | 120.0  | 0.299 | 7.6          | 1.180  | 30.0             | 120 | 534            | Heavy Duty     | 100  |
| CT065A      | CT065B | -      | 6.000  | 150.0  | 0.299 | 7.6          | 1.540  | 39.0             | 120 | 534            | Heavy Duty     | 100  |
| CT066A      | CT066B | YI     | 8.000  | 203.0  | 0.299 | 7.6          | 2.170  | 55.0             | 120 | 534            | Heavy Duty     | 100  |
| WITA-120S-D | -      | YI     | 8.600  | 218.0  | 0.300 | 7.6          | 2.010  | 51.0             | 120 | 534            | Heavy Duty     | 500  |
| CT067A      | CT067B | YI     | 9.437  | 240.0  | 0.299 | 7.6          | 2.600  | 66.0             | 120 | 534            | Heavy Duty     | 100  |
| CT068A      | CT068B | YI     | 11.000 | 280.0  | 0.299 | 7.6          | 3.070  | 78.0             | 120 | 534            | Heavy Duty     | 100  |
| CT069A      | CT069B | YI     | 11.750 | 300.0  | 0.299 | 7.6          | 3.460  | 88.0             | 120 | 534            | Heavy Duty     | 100  |
| CT070A      | CT070B | YI     | 13.500 | 340.0  | 0.299 | 7.6          | 3.900  | 99.0             | 120 | 534            | Heavy Duty     | 100  |
| CT071A      | CT071B | -      | 15.000 | 380.0  | 0.252 | 6.4          | 4.330  | 110.0            | 100 | 445            | Heavy Duty     | 100  |
| CT072A      | CT072B | YI     | 15.000 | 380.0  | 0.299 | 7.6          | 4.330  | 110.0            | 120 | 534            | Heavy Duty     | 100  |
| WITA-120R-D | -      | YI     | 15.750 | 400.0  | 0.310 | 7.8          | 4.450  | 113.0            | 120 | 534            | Heavy Duty     | 500  |
| CT073A      | CT073B | YI     | 17.750 | 450.0  | 0.315 | 8.0          | 5.240  | 133.0            | 120 | 534            | Heavy Duty     | 100  |
| WITA-120L-D | -      | YI     | 21.650 | 550.0  | 0.310 | 7.8          | 6.380  | 162.0            | 120 | 534            | Heavy Duty     | 500  |
| CT074A      | CT074B | YI     | 21.687 | 550.0  | 0.315 | 8.0          | 6.540  | 166.0            | 175 | 778            | Heavy Duty     | 100  |
| WITA-175R-L | -      | YI     | 24.000 | 610.0  | 0.350 | 9.0          | 7.020  | 178.0            | 175 | 778            | Heavy Duty     | 50   |
| CT075A      | CT075B | YI     | 24.000 | 610.0  | 0.354 | 9.0          | 7.280  | 185.0            | 175 | 778            | Heavy Duty     | 100  |
| CT076A      | CT076B | YI     | 27.000 | 685.0  | 0.354 | 9.0          | 8.270  | 210.0            | 175 | 778            | Heavy Duty     | 100  |
| CT077A      | CT077B | YI     | 28.000 | 710.0  | 0.354 | 9.0          | 8.660  | 220.0            | 175 | 778            | Heavy Duty     | 100  |
| CT078A      | CT078B | YI     | 30.000 | 762.0  | 0.354 | 9.0          | 9.290  | 236.0            | 175 | 778            | Heavy Duty     | 100  |
| CT079A      | CT079B | YI     | 32.000 | 812.0  | 0.354 | 9.0          | 9.690  | 246.0            | 175 | 778            | Heavy Duty     | 100  |
| CT080A      | CT080B | YI     | 36.000 | 914.0  | 0.354 | 9.0          | 10.630 | 270.0            | 175 | 778            | Heavy Duty     | 100  |
| WITA-175L-Q | -      | YI     | 36.000 | 914.0  | 0.350 | 9.0          | 10.910 | 277.0            | 175 | 778            | Heavy Duty     | 25   |
| CT081A      | CT081B | YI     | 46.000 | 1168.0 | 0.354 | 9.0          | 14.170 | 360.0            | 175 | 778            | Heavy Duty     | 100  |
| CT082A      | CT082B | YI     | 48.000 | 1219.0 | 0.354 | 9.0          | 15.000 | 380.0            | 175 | 778            | Heavy Duty     | 100  |
| CT084A      | CT084B | YI     | 59.000 | 1500.0 | 0.354 | 9.0          | 18.270 | 464.0            | 175 | 778            | Heavy Duty     | 100  |





## CTSS Stainless Steel Locking Tie

### Specifications:

- Material: See Table
- Temperature Range: -112°F to 1000°F (-80°C to 538°C)

### Features:

- Self locking, can be installed by hand
- Excellent resistance to chemicals
- 304 Stainless Steel is an economical choice for light duty applications
- 316 Stainless Steel has superior corrosion resistance for rugged conditions



| Item No.            |                     | Length |     | Width |     | Tensile Strength |      | Pack Qty. | Bulk Pack Qty. |
|---------------------|---------------------|--------|-----|-------|-----|------------------|------|-----------|----------------|
| 304 Stainless Steel | 316 Stainless Steel | In     | mm  | In    | mm  | Lbs              | N    |           |                |
| CTSS0152A           | CTSS0152B           | 6.000  | 152 | 0.181 | 4.6 | 96               | 427  | 1         | 100            |
| CTSS0201A           | CTSS0201B           | 7.910  | 201 | 0.181 | 4.6 | 96               | 427  | 1         | 100            |
| CTSS0360A           | CTSS0360B           | 14.170 | 360 | 0.181 | 4.6 | 96               | 427  | 1         | 100            |
| CTSS0520A           | CTSS0520B           | 20.500 | 520 | 0.181 | 4.6 | 96               | 427  | 1         | 100            |
| CTSS0679A           | CTSS0679B           | 26.730 | 679 | 0.181 | 4.6 | 96               | 427  | 1         | 100            |
| CTSS2201A           | CTSS2201B           | 7.910  | 201 | 0.311 | 7.9 | 242              | 1076 | 1         | 100            |
| CTSS2362A           | CTSS2362B           | 14.250 | 362 | 0.311 | 7.9 | 242              | 1076 | 1         | 100            |
| CTSS2520A           | CTSS2520B           | 20.500 | 520 | 0.311 | 7.9 | 242              | 1076 | 1         | 100            |
| CTSS2679A           | CTSS2679B           | 26.750 | 679 | 0.311 | 7.9 | 242              | 1076 | 1         | 100            |
| CTSS2840A           | CTSS2840B           | 33.000 | 838 | 0.311 | 7.9 | 242              | 1076 | 1         | 100            |

## CTCS PVC Coated Stainless Steel Cable Tie

### Specifications:

- Material 316 Grade Stainless Steel with Black PVC coating
- Temperature Range: -112°F to 302°F (-80°C - 150°C)

### Features:

- Coated version offers edge protection and prevents corrosion between metals



| Item No.  | Length |       | Width |     | Max Bundle Ø |       | Tensile Strength |      | Pack Qty. | Bulk Pack Qty. |
|-----------|--------|-------|-------|-----|--------------|-------|------------------|------|-----------|----------------|
|           | In     | mm    | In    | mm  | In           | mm    | Lbs              | N    |           |                |
| CTCS0150B | 5.91   | 150.0 | 0.181 | 4.6 | 1.18         | 30.0  | 112.5            | 500  | 1         | 100            |
| CTCS0200B | 7.87   | 200.0 | 0.181 | 4.6 | 1.97         | 50.0  | 112.5            | 500  | 1         | 100            |
| CTCS0360B | 14.17  | 360.0 | 0.181 | 4.6 | 3.94         | 100.0 | 112.5            | 500  | 1         | 100            |
| CTCS0520B | 20.47  | 520.0 | 0.181 | 4.6 | 6.14         | 156.0 | 112.5            | 500  | 1         | 100            |
| CTCS0680B | 26.77  | 680.0 | 0.181 | 4.6 | 8.15         | 207.0 | 112.5            | 500  | 1         | 100            |
| CTCS1200B | 7.87   | 200.0 | 0.311 | 7.9 | 1.97         | 50.0  | 250.8            | 1115 | 1         | 100            |
| CTCS1360B | 14.17  | 360.0 | 0.311 | 7.9 | 3.94         | 100.0 | 250.8            | 1115 | 1         | 100            |
| CTCS1520B | 20.47  | 520.0 | 0.311 | 7.9 | 6.14         | 156.0 | 250.8            | 1115 | 1         | 100            |
| CTCS1680B | 26.77  | 680.0 | 0.311 | 7.9 | 8.15         | 207.0 | 250.8            | 1115 | 1         | 100            |
| CTCS1840B | 33.07  | 840.0 | 0.311 | 7.9 | 9.84         | 250.0 | 250.8            | 1115 | 1         | 100            |

## CTLS / CTLC Stainless Steel Ladder Tie

### Specifications:

- Material: 316 Grade Stainless Steel available with Black PVC coating
- Uncoated Temperature Range: -112°F to 1000°F (-80°C - 538°C)
- Coated Temperature Range, Operating Temperature: -40°F (-40°C) to 250°F (120°C) {Intermittent up to 300°F (150°C)}

### Features:

- Self locking design is easy to install
- Coated version offers protection between different metals
- Tensile strength up to 454 lbs



| Item No.  |           | Length |       | Width |      | Max Bundle Ø |       | Tensile Strength |      | Pack Qty. | Bulk Pack Qty. |
|-----------|-----------|--------|-------|-------|------|--------------|-------|------------------|------|-----------|----------------|
| Uncoated  | Coated    | In     | mm    | In    | mm   | In           | mm    | Lbs              | N    |           |                |
| CTLS0150B | CTLC0150B | 5.910  | 150.0 | 0.280 | 7.0  | 1.890        | 48.0  | 225              | 1000 | 1         | 100            |
| CTLS0225B | CTLC0225B | 8.860  | 225.0 | 0.280 | 7.0  | 2.800        | 71.0  | 225              | 1000 | 1         | 100            |
| CTLS0300B | CTLC0300B | 11.810 | 300.0 | 0.280 | 7.0  | 3.820        | 97.0  | 225              | 1000 | 1         | 100            |
| CTLS0450B | CTLC0450B | 17.720 | 450.0 | 0.280 | 7.0  | 5.710        | 145.0 | 225              | 1000 | 1         | 100            |
| CTLS0610B | CTLC0610B | 24.020 | 610.0 | 0.280 | 7.0  | 7.600        | 193.0 | 225              | 1000 | 1         | 100            |
| CTLS1150B | CTLC1150B | 5.910  | 150.0 | 0.470 | 12.0 | 1.890        | 48.0  | 454              | 2019 | 1         | 100            |
| CTLS1225B | CTLC1225B | 8.860  | 225.0 | 0.470 | 12.0 | 2.800        | 71.0  | 454              | 2019 | 1         | 100            |
| CTLS1300B | CTLC1300B | 11.810 | 300.0 | 0.470 | 12.0 | 3.820        | 97.0  | 454              | 2019 | 1         | 100            |
| CTLS1450B | CTLC1450B | 17.720 | 450.0 | 0.470 | 12.0 | 5.710        | 145.0 | 454              | 2019 | 1         | 100            |
| CTLS1610B | CTLC1610B | 24.020 | 610.0 | 0.470 | 12.0 | 7.600        | 193.0 | 454              | 2019 | 1         | 100            |

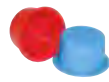


# APPLICATION WIZARDS

## Tube & Hydraulic Fittings

### Caps

#### Non-Threaded Caps Choices



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**TS Series**  
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**DM Series**  
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#### Threaded Cap Choices

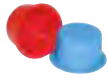
**TCUNF Series**  
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**G Series**  
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| Your Application |              |              | Non-Threaded Cap Choices |           |           | Threaded Cap Choices |              |          |
|------------------|--------------|--------------|--------------------------|-----------|-----------|----------------------|--------------|----------|
| Thread Size      | Tubing OD In | Fitting Size | Numbered Series          | E Series  | TS Series | DM Series            | TCUNF Series | G Series |
| 5/16"-24         | 1/8          | -2           | 008A                     | —         | —         | DM0304-1/2A          | —            | —        |
| 3/8"-24          | 3/16         | -3           | 011A                     | E3/8A     | TS3A      | DM0360-1/2A          | 10251A       | G1A      |
| 7/16"-20         | 1/4          | -4           | 013A                     | E7/16A    | TS4A      | DM0437-1/2A          | 10332A       | G2A      |
| 1/2"-20          | 5/16         | -5           | 017A                     | E1/2A     | TS5A      | DM0490-1/2A          | 10528A       | G5A      |
| 9/16"-18         | 3/8          | -6           | 020A                     | E9/16A    | TS6A      | DM0544-1/2A          | 11041A       | G8A      |
| 5/8"-18          | 3/8          | —            | 021A                     | E5/8A     | TS10348A  | DM0600-1A            | 10653A       | G11A     |
| 11/16"-16        | —            | -7           | 026A                     | E11/16B   | TS7A      | DM0665-1A            | —            | —        |
| 3/4"-16          | 1/2          | -8           | 028A                     | E3/4A     | TS8A      | DM0725-1A            | 12847A       | G14A     |
| 13/16"-16        | —            | -9           | 030A                     | E13/16A   | TS9A      | DM0750-1A            | 12825A       | —        |
| 7/8"-14          | 5/8          | -10          | 035A                     | E7/8A     | TS10A     | DM0843-1A            | 11089A       | G17A     |
| 1"-14            | —            | -11          | 041A                     | E1A       | TS11A     | DM0985-1A            | 12826A       | G21A     |
| 1-1/16"-12       | 3/4          | -12          | 042A                     | E1-1/16A  | TS12A     | DM1000-1A            | 10685A       | G22A     |
| 1-3/16"-12       | 7/8          | -13          | 1040A                    | E1-3/16B  | TS13A     | DM1125-1A            | 10163A       | G25A     |
| 1-5/16"-12       | 1            | -16          | 049A                     | E1-5/16B  | TS16A     | DM1250-1A            | 10151A       | G27A     |
| 1-7/16"-12       | —            | -17          | 053A                     | E1-7/16B  | TS17A     | DM1375-1A            | 10185A       | —        |
| 1-5/8"-12        | 1-1/4        | -20          | 056A                     | E1-5/8B   | TS20A     | DM1593-1A            | 11053A       | G30A     |
| 1-11/16"-12      | —            | -21          | 056A                     | E1-11/16B | TS21A     | DM1625-1A            | —            | —        |
| 1-7/8"-12        | 1-1/2        | -24          | 062A                     | E1-7/8B   | TS24A     | DM1875-1A            | 11804A       | —        |
| 2-1/4"-12        | 1-3/4        | -28          | 072A                     | —         | —         | DM2156-1A            | —            | —        |

### Plugs

#### Non-Threaded Plug Choices



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**TPUNF Series**  
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#### Threaded Plug Choices



**BL Series**  
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**BLM Series**  
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**BLWF Series**  
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| Your Application |              |              | Non-Threaded Plug Choices |           |              | Threaded Plug Choices |            |             |
|------------------|--------------|--------------|---------------------------|-----------|--------------|-----------------------|------------|-------------|
| Thread Size      | Tubing OD In | Fitting Size | Numbered Series           | CP Series | TPUNF Series | BL Series             | BLM Series | BLWF Series |
| 5/16"-24         | 1/8          | -2           | 005A                      | CP5A      | 10709A       | —                     | —          | —           |
| 3/8"-24          | 3/16         | -3           | 007A                      | CP7A      | 10692A       | —                     | —          | —           |
| 7/16"-20         | 1/4          | -4           | 008A                      | CP8A      | 10763A       | BL3A                  | BLM3B      | BLWF100A    |
| 1/2"-20          | 5/16         | -5           | 010A                      | CP10A     | 10696A       | B4A                   | BLM4B      | BLWF105A    |
| 9/16"-18         | 3/8          | -6           | 013A                      | CP14A     | 10668A       | BL5A                  | BLM5B      | BLWF110A    |
| 5/8"-18          | 3/8          | —            | 014A                      | CP15B     | 10940A       | BL6A                  | BLM6B      | —           |
| 3/4"-16          | 1/2          | -8           | 021A                      | CP19A     | 10875A       | BL7A                  | BLM7B      | BLWF115A    |
| 7/8"-14          | 5/8          | -10          | 026A                      | CP24A     | 10326A       | BL8A                  | BLM8B      | BLWF120A    |
| 1"-14            | —            | —            | 030A                      | CP31A     | 12785A       | B9A                   | BLM9B      | —           |
| 1-1/16"-12       | 3/4          | -12          | 035A                      | CP35A     | 10460A       | BL10A                 | BLM10B     | BLWF125A    |
| 1-3/16"-12       | 7/8          | -13          | 041A                      | CP40A     | 11506A       | BL11A                 | BLM11B     | BLWF130A    |
| 1-5/16"-12       | 1            | -16          | 044A                      | CP44A     | 10671A       | BL12A                 | BLM12B     | BLWF135A    |
| 1-5/8"-12        | 1-1/4        | -20          | 052A                      | CP55A     | 11752A       | BL13A                 | BLM13B     | BLWF140A    |
| 2-1/4"-12        | 1-3/4        | -28          | 066A                      | CP61A     | —            | —                     | —          | —           |

### Metric Threads

### Caps



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**A & AR Series**  
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**TC Metric Series**  
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**QFC Series**  
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| Your Application | Numbered Series | DM Series   | A & AR Series | TC Metric Series | QFC Series |
|------------------|-----------------|-------------|---------------|------------------|------------|
| M4               | 004A            | DM0148-1/2A | A5/32W/RA     | —                | —          |
| M5               | 005A            | DM0187-1/2A | —             | —                | —          |
| M6               | 006A            | DM0224-1/2A | —             | —                | —          |
| M8 x 1           | 009A            | DM0304-1/2A | A5/16W/RA     | 12100A           | QFC145A    |
| M10 x 1          | 012A            | DM0375-1/2A | AR100A        | 12101A           | QFC146A    |
| M12 x 1          | 014A            | DM0460-1/2A | A1/2BA        | 12102A           | —          |
| M12 x 1.5        | 1015A           | DM0460-1/2A | A1/2BA        | 12103A           | QFC147A    |
| M14 x 1.5        | 018A            | DM0531-1/2A | —             | 12104A           | QFC148A    |
| M16 x 1.5        | 022A            | DM0600-1A   | A5/8W/RA      | 12105A           | QFC149A    |
| M18 x 1.5        | 027A            | DM0687-1A   | A11/16W/RA    | 12106A           | QFC150A    |
| M20 x 1.5        | 030A            | DM0750-1A   | AR125A        | 12107A           | QFC152A    |
| M22 x 1.5        | 035A            | DM0843-1A   | AR130A        | 12108A           | QFC153A    |
| M24 x 1.5        | 040A            | DM0937-1A   | A15/16A       | 12109A           | QFC154A    |
| M25 x 1.5        | 041A            | —           | A63/64A       | 12110A           | QFC155A    |
| M26 x 1.5        | 041A            | DM1000-1A   | A1W/RA        | 12111A           | —          |
| M27              | 042A            | DM1062-1A   | A1-1/16W/RA   | —                | —          |
| M28 x 1.5        | 044A            | DM1090-1A   | —             | 12967A           | QFC157A    |
| M30 x 2          | 1050A           | DM1125-1A   | —             | 12122A           | QFC158A    |
| M35              | 051A            | DM1375-1A   | —             | —                | —          |
| M39              | 055A            | DM1500-1A   | A1-3/8A       | —                | —          |
| M42 x 2          | 056A            | DM1625-1A   | A1-1/2A       | —                | —          |
| M45              | 058A            | DM1750-1A   | A1-5/8A       | 12124A           | —          |
| M48              | 064A            | DM1875-1A   | A1-3/4A       | —                | —          |
| M52 x 2          | 1085A           | DM2125-1A   | A1-7/8A       | —                | —          |
| M58              | 075A            | DM2250-1A   | —             | 12126A           | —          |
|                  |                 |             | A2-1/4A       | —                | —          |



Metric Threads

Plugs



Numbered Series  
Pages 18 - 19



BP Series  
Page 33



TP Metric Series  
Page 42



TSSP Series  
Page 40



SF Series  
Page 37

| Your Application |                 |           |           |             |           |
|------------------|-----------------|-----------|-----------|-------------|-----------|
| Thread Size      | Numbered Series | BP Series | TP Metric | TSSP Series | SF Series |
| M6               | 002A            | BP1012A   | —         | —           | —         |
| M8 x 1           | 005A            | BP1018A   | 12011A    | 462836A     | —         |
| M10 x 1          | 007A            | BP1026A   | 12012A    | 462837A     | 10530A    |
| M12 x 1          | 010A            | BP1038A   | 12013A    | —           | 12363A    |
| M12 x 1.5        | 009A            | BP1034A   | 12017A    | 462838A     | 12363A    |
| M14 x 1.5        | 012A            | BP1044A   | 12018A    | 462839A     | 12363A    |
| M16 x 1.5        | 015A            | BP1056A   | 12019A    | 462840A     | 12364A    |
| M18 x 1.5        | 018A            | BP1060A   | 10458A    | 462841A     | 10314B    |
| M20 x 1.5        | 022A            | BP1068A   | 12020A    | 462842A     | 12365A    |
| M22 x 1.5        | 026A            | BP1074A   | 10128A    | 462843A     | 12366A    |
| M24 x 1.5        | 028A            | BP1086A   | 12021A    | —           | 12621A    |
| M26 x 1.5        | 030A            | BP1092A   | 12023A    | —           | 12367A    |
| M27              | 035A            | BP1100A   | —         | —           | —         |
| M28              | 040A            | BP1102A   | —         | —           | 12368A    |
| M30              | 041A            | BP1106A   | —         | —           | —         |
| M32              | 044A            | BP1112A   | —         | —           | 12369A    |
| M33              | 044A            | BP1114A   | —         | —           | —         |
| M36 x 2          | 045A            | BP1116A   | —         | —           | 12622A    |
| M38              | 048A            | BP1126A   | —         | —           | —         |
| M42 x 2          | 053A            | BP1134A   | —         | —           | 12598A    |
| M52 x 2          | 1080A           | BP1142A   | —         | —           | —         |

Non-Threaded Studs

Caps



Numbered Series  
Pages 18 - 19



A Series  
Page 23

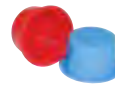


DM Series  
Pages 21 - 22

| T0 Fit OD |       |       | Numbered Series | A Series    | DM Series   |
|-----------|-------|-------|-----------------|-------------|-------------|
| In        | Dec   | mm    |                 |             |             |
| 1/8       | 0.125 | 3.17  | 002A            | A1/8W/RA    | DM0125-1/2A |
| 3/16      | 0.187 | 4.75  | 005A            | A3/16W/RA   | DM0187-1/2A |
| 1/4       | 0.250 | 6.35  | 007A            | A1/4W/RA    | DM0250-1/2A |
| 5/16      | 0.312 | 7.92  | 009A            | A5/16W/RA   | DM0313-1/2A |
| 3/8       | 0.375 | 9.53  | 011A            | A3/8W/RA    | DM0375-1/2A |
| 7/16      | 0.437 | 11.10 | 014A            | A7/16W/RA   | DM0437-1/2A |
| 1/2       | 0.500 | 12.70 | 1020A           | A1/2W/RA    | DM0500-1A   |
| 9/16      | 0.562 | 14.27 | 020A            | A9/16W/RA   | DM0562-1A   |
| 5/8       | 0.625 | 15.88 | 022A            | A5/8W/RA    | DM0625-1A   |
| 11/16     | 0.687 | 17.45 | 026A            | A11/16W/RA  | DM0687-1A   |
| 3/4       | 0.750 | 19.05 | 028A            | A3/4W/RA    | DM0750-1A   |
| 13/16     | 0.812 | 20.62 | 031A            | A13/16W/RA  | DM0812-1A   |
| 7/8       | 0.875 | 22.23 | 039A            | A7/8W/RA    | DM0875-1A   |
| 15/16     | 0.937 | 23.80 | 040A            | A15/16A     | DM0937-1A   |
| 1         | 1.000 | 25.40 | 041A            | A1W/RA      | DM1000-1A   |
| 1-1/16    | 1.062 | 26.97 | 042A            | A1-1/16W/RA | DM1062-1A   |
| 1-1/8     | 1.125 | 28.58 | 1040A           | A1-1/8A     | DM1125-1A   |
| 1-3/16    | 1.187 | 30.15 | 045A            | A1-3/16W/RA | DM1187-1A   |
| 1-1/4     | 1.250 | 31.75 | 048A            | A1-1/4A     | DM1250-1A   |
| 1-5/16    | 1.312 | 33.32 | 051A            | A1-5/16W/RA | DM1312-1A   |
| 1-3/8     | 1.375 | 34.93 | 052A            | A1-3/8A     | DM1375-1A   |
| 1-7/16    | 1.437 | 36.50 | 053A            | A1-7/16A    | DM1437-1A   |
| 1-1/2     | 1.500 | 38.10 | 055A            | A1-1/2A     | DM1500-1A   |
| 1-9/16    | 1.562 | 39.67 | 055A            | A1-9/16A    | —           |
| 1-5/8     | 1.625 | 41.28 | 056A            | A1-5/8A     | DM1625-1A   |
| 1-11/16   | 1.687 | 42.85 | 057A            | A1-11/16A   | DM1687-1A   |
| 1-3/4     | 1.750 | 44.45 | 059A            | A1-3/4A     | DM1750-1A   |
| 1-13/16   | 1.812 | 46.02 | 060A            | —           | DM1812-1A   |
| 1-7/8     | 1.875 | 47.63 | 062A            | A1-7/8A     | DM1875-1A   |
| 1-15/16   | 1.937 | 49.20 | 063A            | —           | DM1937-1A   |
| 2         | 2.000 | 50.80 | 065A            | A2A         | DM2000-1A   |

Non-Threaded Holes

Plugs



Numbered Series  
Pages 18 - 19



FT Series  
Page 34



CP Series  
Page 34

| T0 Fit OD |       |       | Numbered Series | FT Series | CP Series |
|-----------|-------|-------|-----------------|-----------|-----------|
| In        | Dec   | mm    |                 |           |           |
| 1/8       | 0.125 | 3.17  | 001A            | 10874A    | —         |
| 3/16      | 0.187 | 4.75  | 1000A           | 12665A    | —         |
| 1/4       | 0.250 | 6.35  | 003A            | 12667A    | CP4A      |
| 5/16      | 0.312 | 7.92  | 006A            | 12668A    | CP6A      |
| 3/8       | 0.375 | 9.53  | 008A            | 12670A    | CP8A      |
| 7/16      | 0.437 | 11.10 | 010A            | 12671A    | CP10A     |
| 1/2       | 0.500 | 12.70 | 012A            | 12673A    | CP12A     |
| 9/16      | 0.562 | 14.27 | 014A            | 12675A    | CP14A     |
| 5/8       | 0.625 | 15.88 | 017A            | 12677A    | CP16A     |
| 11/16     | 0.687 | 17.45 | 020A            | 12679A    | CP19A     |
| 3/4       | 0.750 | 19.05 | 023A            | 12680A    | CP23A     |
| 13/16     | 0.812 | 20.62 | 026A            | 12683A    | CP24A     |
| 7/8       | 0.875 | 22.23 | 028A            | 12684A    | CP29A     |
| 15/16     | 0.937 | 23.80 | 030A            | 12686A    | CP31A     |
| 1         | 1.000 | 25.40 | 035A            | 12688A    | CP35A     |
| 1 1/16    | 1.062 | 26.97 | 040A            | 12689A    | CP37A     |
| 1 1/8     | 1.125 | 28.58 | 041A            | 12691A    | CP40A     |
| 1 3/16    | 1.187 | 30.15 | 042A            | 12692A    | CP42A     |
| 1 1/4     | 1.250 | 31.75 | 044A            | —         | CP44A     |
| 1 5/16    | 1.312 | 33.32 | 045A            | —         | CP46A     |
| 1 3/8     | 1.375 | 34.93 | 1055A           | —         | CP49A     |
| 1 7/16    | 1.437 | 36.50 | 048A            | —         | CP49A     |
| 1 1/2     | 1.500 | 38.10 | 051A            | —         | CP51A     |
| 1 9/16    | 1.562 | 39.67 | 052A            | 12693A    | CP55A     |
| 1 5/8     | 1.625 | 41.28 | 055A            | —         | CP56A     |
| 1 11/16   | 1.687 | 42.85 | 056A            | —         | CP56A     |
| 1 3/4     | 1.750 | 44.45 | 1065A           | —         | CP59A     |
| 1 13/16   | 1.812 | 46.02 | 057A            | 12694A    | CP59A     |
| 1 7/8     | 1.875 | 47.63 | 1070A           | —         | CP57A     |
| 1 15/16   | 1.937 | 49.20 | 1075A           | —         | CP57A     |
| 2         | 2.000 | 50.80 | 1080A           | —         | —         |

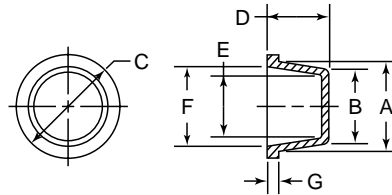






# TAPERED CAPS & PLUGS

## LF Series Wide Flange Caps or Plugs



### Specifications:

- Material: Low-Density Polyethylene
- Color: Refer to Chart

### Features:

- Wider flange assures added protection on bearing surfaces
- Wider flange keeps plug from being accidentally pushed down thru the mating part
- The tapered design allows the part to plug multiple inner diameters or cap multiple outside diameters

### To Assure Proper Fit:



Plugs



Caps

Plug dimension "A" should be approx. 1% larger than the inner diameter of the part.  
Minimum of .020"

Cap dimension "E" should be approx. 1% smaller than the outside diameter of the part.  
Minimum of .020"

| Item No. | Use as a Plug |       |       |       | Use as a Cap |       |       |       | Color | Bulk Pack Qty. |       |       |       |      |        |      |
|----------|---------------|-------|-------|-------|--------------|-------|-------|-------|-------|----------------|-------|-------|-------|------|--------|------|
|          | A             | B     | C     | D     | E            | F     | G     |       |       |                |       |       |       |      |        |      |
|          | In            | mm    | In    | mm    | In           | mm    | In    | mm    | In    | mm             |       |       |       |      |        |      |
| LF2A     | 0.240         | 6.10  | 0.173 | 4.39  | 0.562        | 14.27 | 0.465 | 11.81 | 0.111 | 2.82           | 0.177 | 4.50  | 0.090 | 2.29 | Blue   | 5500 |
| LF3A     | 0.290         | 7.37  | 0.236 | 5.99  | 0.485        | 12.32 | 0.402 | 10.21 | 0.146 | 3.71           | 0.245 | 6.22  | 0.090 | 2.29 | Blue   | 5000 |
| LF5A     | 0.374         | 9.50  | 0.307 | 7.80  | 0.724        | 18.39 | 0.404 | 10.26 | 0.248 | 6.30           | 0.303 | 7.70  | 0.030 | 0.76 | Red    | 5000 |
| LF6A     | 0.418         | 10.62 | 0.367 | 9.32  | 0.740        | 18.80 | 0.402 | 10.21 | 0.298 | 7.57           | 0.354 | 8.99  | 0.090 | 2.29 | Blue   | 5000 |
| LF7A     | 0.447         | 11.35 | 0.397 | 10.08 | 0.795        | 20.19 | 0.402 | 10.21 | 0.328 | 8.33           | 0.383 | 9.73  | 0.090 | 2.29 | Blue   | 5000 |
| LF8A     | 0.475         | 12.07 | 0.427 | 10.85 | 0.812        | 20.62 | 0.402 | 10.21 | 0.356 | 9.04           | 0.422 | 10.72 | 0.090 | 2.29 | Blue   | 4750 |
| LF9A     | 0.509         | 12.93 | 0.440 | 11.18 | 0.820        | 20.83 | 0.465 | 11.81 | 0.375 | 9.53           | 0.450 | 11.43 | 0.090 | 2.29 | Blue   | 7500 |
| LF10A    | 0.547         | 13.89 | 0.481 | 12.22 | 0.870        | 22.10 | 0.460 | 11.68 | 0.409 | 10.39          | 0.493 | 12.52 | 0.090 | 2.29 | Blue   | 7000 |
| LF11A    | 0.616         | 15.65 | 0.530 | 13.46 | 0.940        | 23.88 | 0.470 | 11.94 | 0.470 | 11.94          | 0.570 | 14.48 | 0.090 | 2.29 | Blue   | 5000 |
| LF11XA   | 0.631         | 16.03 | 0.565 | 14.35 | 0.950        | 24.13 | 0.491 | 12.47 | 0.500 | 12.70          | 0.580 | 14.73 | 0.090 | 2.29 | Blue   | 5000 |
| LF12A    | 0.659         | 16.74 | 0.580 | 14.99 | 0.983        | 24.97 | 0.527 | 13.39 | 0.518 | 13.16          | 0.605 | 15.37 | 0.090 | 2.29 | Blue   | 4500 |
| LF12XA   | 0.687         | 17.45 | 0.610 | 15.49 | 1.031        | 26.19 | 0.527 | 13.39 | 0.548 | 13.92          | 0.635 | 16.13 | 0.090 | 2.29 | Blue   | 4500 |
| LF13XA   | 0.710         | 18.03 | 0.655 | 16.64 | 1.062        | 26.97 | 0.528 | 13.41 | 0.585 | 14.86          | 0.647 | 16.43 | 0.090 | 2.29 | Yellow | 4000 |
| LF13A    | 0.725         | 18.42 | 0.628 | 15.95 | 1.062        | 26.97 | 0.528 | 13.41 | 0.558 | 14.17          | 0.667 | 16.94 | 0.090 | 2.29 | Yellow | 5000 |
| LF15A    | 0.775         | 19.69 | 0.690 | 17.53 | 1.125        | 28.58 | 0.559 | 14.20 | 0.620 | 15.75          | 0.721 | 18.31 | 0.090 | 2.29 | Blue   | 3500 |
| LF15XA   | 0.812         | 20.62 | 0.725 | 18.42 | 1.140        | 28.96 | 0.580 | 14.99 | 0.662 | 16.81          | 0.765 | 19.43 | 0.090 | 2.29 | Blue   | 3000 |
| LF16A    | 0.870         | 22.10 | 0.755 | 19.18 | 1.185        | 30.10 | 0.580 | 14.99 | 0.693 | 17.60          | 0.808 | 20.52 | 0.090 | 2.29 | Blue   | 3000 |
| LF17A    | 0.920         | 23.37 | 0.820 | 20.83 | 1.250        | 31.75 | 0.621 | 15.77 | 0.741 | 18.82          | 0.865 | 21.97 | 0.090 | 2.29 | Blue   | 2300 |
| LF18A    | 0.975         | 24.77 | 0.867 | 22.02 | 1.281        | 32.54 | 0.650 | 16.51 | 0.805 | 20.45          | 0.913 | 23.19 | 0.090 | 2.29 | Blue   | 4000 |
| LF19A    | 1.020         | 25.90 | 0.950 | 24.13 | 1.344        | 34.13 | 0.715 | 18.16 | 0.875 | 22.22          | 0.957 | 24.30 | 0.090 | 2.29 | Blue   | 1500 |
| LF20A    | 1.105         | 28.07 | 0.984 | 24.99 | 1.437        | 36.50 | 0.746 | 18.95 | 0.920 | 23.37          | 1.040 | 26.42 | 0.090 | 2.29 | Blue   | 3000 |
| LF21A    | 1.323         | 33.60 | 1.197 | 30.40 | 1.862        | 47.29 | 0.643 | 16.33 | 1.094 | 27.79          | 1.209 | 30.71 | 0.045 | 1.14 | Red    | 1400 |
| LF22A    | 1.382         | 35.10 | 1.237 | 31.42 | 1.687        | 42.85 | 0.746 | 18.95 | 1.167 | 29.64          | 1.312 | 33.32 | 0.090 | 2.29 | Blue   | 2000 |
| LF23XA   | 1.466         | 37.24 | 1.312 | 33.32 | 1.845        | 46.86 | 0.775 | 19.69 | 1.250 | 31.75          | 1.425 | 36.20 | 0.120 | 3.05 | Blue   | 1700 |
| LF24A    | 1.604         | 40.74 | 1.450 | 36.83 | 1.938        | 49.23 | 0.745 | 18.92 | 1.380 | 35.05          | 1.550 | 39.37 | 0.120 | 3.05 | Blue   | 1500 |
| LF26A    | 1.764         | 44.81 | 1.630 | 41.40 | 2.252        | 57.20 | 0.784 | 19.91 | 1.563 | 39.70          | 1.693 | 43.00 | 0.035 | 0.90 | Red    | 700  |
| LF28A    | 1.890         | 48.01 | 1.730 | 43.94 | 2.312        | 58.72 | 0.745 | 18.92 | 1.650 | 41.91          | 1.825 | 46.36 | 0.120 | 3.05 | Blue   | 1100 |
| LF30A    | 2.043         | 51.89 | 1.858 | 47.19 | 2.835        | 72.01 | 1.004 | 25.50 | 1.752 | 44.50          | 1.917 | 48.69 | 0.059 | 1.50 | Red    | 400  |
| LF32A    | 2.075         | 52.71 | 1.902 | 48.31 | 2.500        | 63.50 | 1.059 | 26.90 | 1.823 | 46.30          | 1.996 | 50.70 | 0.059 | 1.50 | Red    | 1000 |
| LF34A    | 2.130         | 54.10 | 2.028 | 51.51 | 2.626        | 66.70 | 0.768 | 19.50 | 1.953 | 49.61          | 2.047 | 51.99 | 0.039 | 1.00 | Red    | 500  |
| LF36A    | 2.402         | 61.01 | 2.146 | 54.51 | 3.012        | 76.50 | 1.024 | 26.00 | 2.055 | 52.20          | 2.323 | 59.00 | 0.039 | 1.00 | Red    | 300  |
| LF38A    | 2.614         | 66.40 | 2.441 | 62.00 | 3.267        | 83.00 | 1.152 | 29.26 | 2.323 | 59.00          | 2.531 | 64.30 | 0.050 | 1.27 | Red    | 250  |

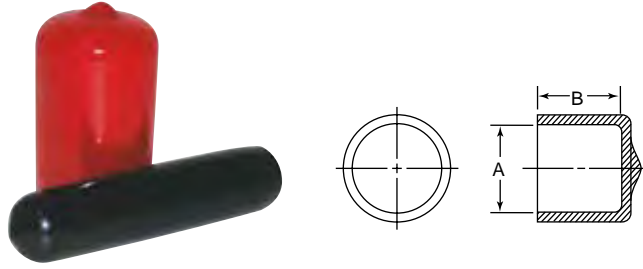
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**DM & DMS Series  
Round Vinyl End Caps**



**Specifications:**

- Material: Vinyl (PVC)
- Color: DM – Black – 75 Durometer  
DMS – Bright Red – 63 Durometer
- Temperature Range: Up to 350°F (177°C)

**Features:**

- Flexible material can stretch onto larger dimensions for a snug fit without tearing, splitting or shredding
- Typically used to protect threaded or non-threaded tubing, rods, pipe or paper tubes
- Glossy and attractive finish makes this part ideal for use as a decorative end cap
- Bright-red colored parts are highly visible



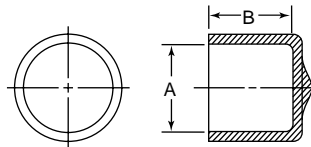
See pages 18 & 19 for Application Wizards.

| A = To Fit |       | Item No.        |               |                   | Color | Bulk Pack Qty. |      |        |
|------------|-------|-----------------|---------------|-------------------|-------|----------------|------|--------|
| In         | mm    | B Length        |               |                   |       | 1/2"           | 1"   | 1-1/2" |
|            |       | 1/2" (12.70 mm) | 1" (25.40 mm) | 1-1/2" (38.10 mm) |       |                |      |        |
| 0.078      | 1.98  | DM0080-1/2A     | DM0080-1A     | —                 | Black | 5000           | 5000 | —      |
| 0.094      | 2.38  | DM0093-1/2A     | DM0093-1A     | —                 | Black | 5000           | 5000 | —      |
| 0.109      | 2.78  | DM0110-1/2A     | DM0110-1A     | —                 | Black | 5000           | 5000 | —      |
| 0.125      | 3.18  | DM0125-1/2A     | DM0125-1A     | —                 | Black | 5000           | 5000 | —      |
| 0.125      | 3.18  | —               | DMS0125-1A    | —                 | Red   | —              | 5000 | —      |
| 0.141      | 3.57  | DM0140-1/2A     | DM0140-1A     | DM0140-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.141      | 3.57  | —               | DMS0140-1A    | —                 | Red   | —              | 5000 | —      |
| 0.148      | 3.76  | DM0148-1/2A     | DM0148-1A     | DM0148-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.156      | 3.97  | DM0156-1/2A     | DM0156-1A     | DM0156-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.172      | 4.37  | DM0172-1/2A     | DM0172-1A     | DM0172-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.172      | 4.37  | —               | DMS0172-1A    | —                 | Red   | —              | 5000 | —      |
| 0.180      | 4.57  | DM0180-1/2A     | DM0180-1A     | DM0180-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.187      | 4.75  | DM0187-1/2A     | DM0187-1A     | DM0187-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.187      | 4.75  | —               | DMS0187-1A    | —                 | Red   | —              | 5000 | —      |
| 0.203      | 5.16  | DM0203-1/2A     | DM0203-1A     | DM0203-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.203      | 5.16  | —               | DMS0203-1A    | —                 | Red   | —              | 5000 | —      |
| 0.207      | 5.26  | DM0207-1/2A     | DM0207-1A     | DM0207-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.218      | 5.54  | DM0218-1/2A     | DM0218-1A     | DM0218-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.224      | 5.69  | DM0224-1/2A     | DM0224-1A     | DM0224-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.230      | 5.84  | DM0230-1/2A     | DM0230-1A     | DM0230-1-1/2A     | Black | 5000           | 7500 | 5000   |
| 0.234      | 5.95  | DM0234-1/2A     | DM0234-1A     | DM0234-1-1/2A     | Black | 5000           | 5000 | 3000   |
| 0.234      | 5.95  | —               | DMS0234-1A    | —                 | Red   | —              | 5000 | —      |
| 0.240      | 6.10  | DM0240-1/2A     | DM0240-1A     | DM0240-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.250      | 6.35  | DM0250-1/2A     | DM0250-1A     | DM0250-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.250      | 6.35  | DMS0250-1/2A    | DMS0250-1A    | —                 | Red   | 5000           | 5000 | —      |
| 0.281      | 7.14  | DM0281-1/2A     | DM0281-1A     | DM0281-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.281      | 7.14  | DMS0281-1/2A    | DMS0281-1A    | —                 | Red   | 5000           | 5000 | —      |
| 0.290      | 7.37  | DM0290-1/2A     | DM0290-1A     | DM0290-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.304      | 7.72  | DM0304-1/2A     | DM0304-1A     | DM0304-1-1/2A     | Black | 5000           | 5000 | 2500   |
| 0.313      | 7.94  | DM0313-1/2A     | DM0313-1A     | DM0313-1-1/2A     | Black | 5000           | 5000 | 4000   |
| 0.313      | 7.94  | DMS0313-1/2A    | DMS0313-1A    | —                 | Red   | 5000           | 5000 | —      |
| 0.343      | 8.71  | DM0343-1/2A     | DM0343-1A     | DM0343-1-1/2A     | Black | 5000           | 5000 | 4000   |
| 0.343      | 8.71  | —               | DMS0343-1A    | —                 | Red   | —              | 5000 | —      |
| 0.360      | 9.14  | DM0360-1/2A     | DM0360-1A     | DM0360-1-1/2A     | Black | 5000           | 5000 | 2500   |
| 0.375      | 9.53  | DM0375-1/2A     | DM0375-1A     | DM0375-1-1/2A     | Black | 5000           | 5000 | 2500   |
| 0.375      | 9.53  | DMS0375-1/2A    | DMS0375-1A    | —                 | Red   | 5000           | 5000 | —      |
| 0.406      | 10.32 | DM0406-1/2A     | DM0406-1A     | DM0406-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.420      | 10.66 | DM0420-1/2A     | DM0420-1A     | DM0420-1-1/2A     | Black | 5000           | 5000 | 5000   |
| 0.437      | 11.10 | DM0437-1/2A     | DM0437-1A     | DM0437-1-1/2A     | Black | 5000           | 5000 | 4000   |
| 0.437      | 11.10 | DMS0437-1/2A    | DMS0437-1A    | DMS0437-1-1/2A    | Red   | 5000           | 5000 | 4000   |
| 0.460      | 11.68 | DM0460-1/2A     | DM0460-1A     | DM0460-1-1/2A     | Black | 5000           | 3000 | 1500   |
| 0.470      | 11.94 | DM0470-1/2A     | DM0470-1A     | DM0470-1-1/2A     | Black | 5000           | 5000 | 3000   |
| 0.470      | 11.94 | —               | DMS0470-1A    | —                 | Red   | —              | 5000 | —      |
| 0.490      | 12.45 | DM0490-1/2A     | DM0490-1A     | DM0490-1-1/2A     | Black | 5000           | 3000 | 1500   |
| 0.500      | 12.70 | DM0500-1/2A     | DM0500-1A     | DM0500-1-1/2A     | Black | 5000           | 5000 | 2500   |
| 0.500      | 12.70 | DMS0500-1/2A    | DMS0500-1A    | DMS0500-1-1/2A    | Red   | 5000           | 5000 | 2500   |
| 0.523      | 13.28 | DM0523-1/2A     | DM0523-1A     | DM0523-1-1/2A     | Black | 5000           | 2500 | 2500   |
| 0.531      | 13.49 | DM0531-1/2A     | DM0531-1A     | DM0531-1-1/2A     | Black | 5000           | 5000 | 2500   |
| 0.531      | 13.49 | —               | DMS0531-1A    | —                 | Red   | —              | 5000 | —      |
| 0.544      | 13.82 | DM0544-1/2A     | DM0544-1A     | DM0544-1-1/2A     | Black | 5000           | 5000 | 2500   |
| 0.544      | 13.82 | —               | DMS0544-1A    | —                 | Red   | —              | 5000 | —      |
| 0.562      | 14.27 | DM0562-1/2A     | DM0562-1A     | DM0562-1-1/2A     | Black | 5000           | 2500 | 3000   |
| 0.562      | 14.27 | DMS0562-1/2A    | DMS0562-1A    | DMS0562-1-1/2A    | Red   | 5000           | 2500 | 3000   |
| 0.587      | 14.90 | DM0587-1/2A     | DM0587-1A     | DM0587-1-1/2A     | Black | 5000           | 2500 | 1200   |
| 0.600      | 15.24 | DM0600-1/2A     | DM0600-1A     | DM0600-1-1/2A     | Black | 5000           | 2000 | 1200   |
| 0.625      | 15.88 | DM0625-1/2A     | DM0625-1A     | DM0625-1-1/2A     | Black | 5000           | 2500 | 1250   |
| 0.625      | 15.88 | DMS0625-1/2A    | DMS0625-1A    | DMS0625-1-1/2A    | Red   | 5000           | 2500 | 1250   |
| 0.640      | 16.26 | DM0640-1/2A     | DM0640-1A     | DM0640-1-1/2A     | Black | 5000           | 5000 | 2500   |
| 0.665      | 16.89 | DM0665-1/2A     | DM0665-1A     | DM0665-1-1/2A     | Black | 5000           | 2500 | 2500   |
| 0.687      | 17.45 | DM0687-1/2A     | DM0687-1A     | DM0687-1-1/2A     | Black | 5000           | 2500 | 1500   |
| 0.687      | 17.45 | DMS0687-1/2A    | DMS0687-1A    | DMS0687-1-1/2A    | Red   | 5000           | 2500 | 1500   |
| 0.725      | 18.42 | DM0725-1/2A     | DM0725-1A     | DM0725-1-1/2A     | Black | 5000           | 2500 | 1000   |
| 0.750      | 19.05 | DM0750-1/2A     | DM0750-1A     | DM0750-1-1/2A     | Black | 5000           | 2500 | 500    |
| 0.750      | 19.05 | DMS0750-1/2A    | DMS0750-1A    | DMS0750-1-1/2A    | Red   | 5000           | 2500 | 500    |
| 0.812      | 20.62 | DM0812-1/2A     | DM0812-1A     | DM0812-1-1/2A     | Black | 2500           | 2500 | 1000   |
| 0.812      | 20.62 | DMS0812-1/2A    | DMS0812-1A    | DMS0812-1-1/2A    | Red   | 2500           | 2500 | 1000   |
| 0.843      | 21.41 | DM0843-1/2A     | DM0843-1A     | DM0843-1-1/2A     | Black | 5000           | 2500 | 1200   |
| 0.843      | 21.41 | —               | DMS0843-1A    | —                 | Red   | —              | 2500 | —      |



# PUSH-FIT CAPS

## DM & DMS Series Round Vinyl End Caps (continued)



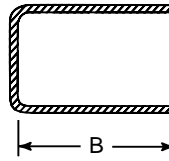
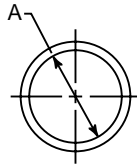
See pages 18 & 19 for Application Wizards.

| A = To Fit |        | Item No.        |               |                   | Color | Bulk Pack Qty. |      |        |
|------------|--------|-----------------|---------------|-------------------|-------|----------------|------|--------|
| In         | mm     | 1/2" (12.70 mm) | 1" (25.40 mm) | 1-1/2" (38.10 mm) |       | 1/2"           | 1"   | 1-1/2" |
| 0.875      | 22.23  | DM0875-1/2A     | DM0875-1A     | DM0875-1-1/2A     | Black | 5000           | 2500 | 1250   |
| 0.875      | 22.23  | DMS0875-1/2A    | DMS0875-1A    | DMS0875-1-1/2A    | Red   | 5000           | 2500 | 1250   |
| 0.937      | 23.80  | DM0937-1/2A     | DM0937-1A     | DM0937-1-1/2A     | Black | 2500           | 2500 | 1000   |
| 0.937      | 23.80  | —               | DMS0937-1A    | —                 | Red   | —              | 2500 | —      |
| 0.985      | 25.02  | DM0985-1/2A     | DM0985-1A     | DM0985-1-1/2A     | Black | 2500           | 1500 | 1250   |
| 1.000      | 25.40  | DM1000-1/2A     | DM1000-1A     | DM1000-1-1/2A     | Black | 2500           | 2000 | 1250   |
| 1.000      | 25.40  | DMS1000-1/2A    | DMS1000-1A    | DMS1000-1-1/2A    | Red   | 2500           | 2000 | 1250   |
| 1.062      | 26.97  | DM1062-1/2A     | DM1062-1A     | DM1062-1-1/2A     | Black | 3000           | 1500 | 1250   |
| 1.062      | 26.97  | —               | DMS1062-1A    | —                 | Red   | —              | 1500 | —      |
| 1.090      | 27.69  | DM1090-1/2A     | DM1090-1A     | DM1090-1-1/2A     | Black | 2000           | 1000 | 500    |
| 1.125      | 28.58  | DM1125-1/2A     | DM1125-1A     | DM1125-1-1/2A     | Black | 1000           | 1000 | 500    |
| 1.125      | 28.58  | DMS1125-1/2A    | DMS1125-1A    | DMS1125-1-1/2A    | Red   | 1000           | 1000 | 500    |
| 1.187      | 30.15  | DM1187-1/2A     | DM1187-1A     | DM1187-1-1/2A     | Black | 2500           | 1000 | 1000   |
| 1.187      | 30.15  | —               | DMS1187-1A    | —                 | Red   | —              | 1000 | —      |
| 1.250      | 31.75  | DM1250-1/2A     | DM1250-1A     | DM1250-1-1/2A     | Black | 2500           | 1000 | 700    |
| 1.250      | 31.75  | DMS1250-1/2A    | DMS1250-1A    | DMS1250-1-1/2A    | Red   | 2500           | 1000 | 700    |
| 1.312      | 33.32  | DM1312-1/2A     | DM1312-1A     | DM1312-1-1/2A     | Black | 2000           | 1000 | 500    |
| 1.375      | 34.93  | DM1375-1/2A     | DM1375-1A     | DM1375-1-1/2A     | Black | 2000           | 1000 | 650    |
| 1.375      | 34.93  | —               | DMS1375-1A    | —                 | Red   | —              | 1000 | —      |
| 1.437      | 36.50  | DM1437-1/2A     | DM1437-1A     | DM1437-1-1/2A     | Black | 1000           | 1000 | 600    |
| 1.500      | 38.10  | DM1500-1/2A     | DM1500-1A     | DM1500-1-1/2A     | Black | 1000           | 1000 | 600    |
| 1.500      | 38.10  | DMS1500-1/2A    | DMS1500-1A    | DMS1500-1-1/2A    | Red   | 1000           | 1000 | 600    |
| 1.593      | 40.46  | DM1593-1/2A     | DM1593-1A     | DM1593-1-1/2A     | Black | 1700           | 1000 | 500    |
| 1.625      | 41.28  | DM1625-1/2A     | DM1625-1A     | DM1625-1-1/2A     | Black | 500            | 750  | 500    |
| 1.625      | 41.28  | —               | DMS1625-1A    | DMS1625-1-1/2A    | Red   | —              | 750  | 500    |
| 1.687      | 42.85  | DM1687-1/2A     | DM1687-1A     | DM1687-1-1/2A     | Black | 1000           | 500  | 400    |
| 1.687      | 42.85  | —               | DMS1687-1A    | —                 | Red   | —              | 500  | —      |
| 1.750      | 44.45  | DM1750-1/2A     | DM1750-1A     | DM1750-1-1/2A     | Black | 1000           | 500  | 500    |
| 1.750      | 44.45  | —               | DMS1750-1A    | DMS1750-1-1/2A    | Red   | —              | 500  | 500    |
| 1.812      | 46.02  | DM1812-1/2A     | DM1812-1A     | DM1812-1-1/2A     | Black | 1000           | 500  | 400    |
| 1.875      | 47.63  | DM1875-1/2A     | DM1875-1A     | DM1875-1-1/2A     | Black | 700            | 625  | 400    |
| 1.875      | 47.63  | —               | DMS1875-1A    | —                 | Red   | —              | 625  | —      |
| 1.937      | 49.19  | DM1937-1/2A     | DM1937-1A     | DM1937-1-1/2A     | Black | 1000           | 550  | 400    |
| 2.000      | 50.80  | DM2000-1/2A     | DM2000-1A     | DM2000-1-1/2A     | Black | 1000           | 550  | 400    |
| 2.000      | 50.80  | DMS2000-1/2A    | DMS2000-1A    | DMS2000-1-1/2A    | Red   | 1000           | 550  | 400    |
| 2.125      | 53.98  | DM2125-1/2A     | DM2125-1A     | DM2125-1-1/2A     | Black | 500            | 400  | 300    |
| 2.125      | 53.98  | —               | DMS2125-1A    | —                 | Red   | —              | 400  | —      |
| 2.156      | 54.76  | DM2156-1/2A     | DM2156-1A     | DM2156-1-1/2A     | Black | 1000           | 550  | 250    |
| 2.250      | 57.15  | DM2250-1/2A     | DM2250-1A     | DM2250-1-1/2A     | Black | 250            | 500  | 300    |
| 2.250      | 57.15  | —               | DMS2250-1A    | DMS2250-1-1/2A    | Red   | —              | 500  | 300    |
| 2.375      | 60.33  | DM2375-1/2A     | DM2375-1A     | DM2375-1-1/2A     | Black | 500            | 350  | 250    |
| 2.460      | 62.48  | DM2460-1/2A     | DM2460-1A     | DM2460-1-1/2A     | Black | 1000           | 350  | 200    |
| 2.500      | 63.50  | DM2500-1/2A     | DM2500-1A     | DM2500-1-1/2A     | Black | 500            | 300  | 200    |
| 2.500      | 63.50  | —               | DMS2500-1A    | DMS2500-1-1/2A    | Red   | —              | 300  | 200    |
| 2.625      | 66.68  | DM2625-1/2A     | DM2625-1A     | DM2625-1-1/2A     | Black | 500            | 250  | 250    |
| 2.687      | 68.25  | DM2687-1/2A     | DM2687-1A     | DM2687-1-1/2A     | Black | 400            | 250  | 200    |
| 2.750      | 69.85  | DM2750-1/2A     | DM2750-1A     | DM2750-1-1/2A     | Black | 500            | 250  | 250    |
| 2.750      | 69.85  | —               | DMS2750-1A    | —                 | Red   | —              | 250  | —      |
| 2.875      | 73.03  | DM2875-1/2A     | DM2875-1A     | DM2875-1-1/2A     | Black | 500            | 250  | 200    |
| 3.000      | 76.20  | DM3000-1/2A     | DM3000-1A     | DM3000-1-1/2A     | Black | 500            | 300  | 200    |
| 3.000      | 76.20  | —               | DMS3000-1A    | DMS3000-1-1/2A    | Red   | —              | 300  | 200    |
| 3.125      | 79.38  | —               | DM3125-1A     | DM3125-1-1/2A     | Black | —              | 250  | 150    |
| 3.125      | 79.38  | —               | DMS3125-1A    | —                 | Red   | —              | 250  | 150    |
| 3.250      | 82.55  | —               | DM3250-1A     | DM3250-1-1/2A     | Black | —              | 100  | 100    |
| 3.250      | 82.55  | —               | DMS3250-1A    | —                 | Red   | —              | 100  | —      |
| 3.375      | 85.73  | —               | DM3375-1A     | DM3375-1-1/2A     | Black | —              | 200  | 150    |
| 3.500      | 88.90  | DM3500-1/2A     | DM3500-1A     | DM3500-1-1/2A     | Black | —              | 175  | 100    |
| 3.500      | 88.90  | —               | DMS3500-1A    | —                 | Red   | —              | 175  | —      |
| 3.625      | 92.08  | —               | DM3625-1A     | DM3625-1-1/2A     | Black | —              | 150  | 100    |
| 3.750      | 95.25  | —               | DM3750-1A     | DM3750-1-1/2A     | Black | —              | 100  | 100    |
| 3.750      | 95.25  | —               | DMS3750-1A    | —                 | Red   | —              | 100  | —      |
| 3.825      | 97.16  | —               | DM3825-1A     | DM3825-1-1/2A     | Black | —              | 150  | 100    |
| 3.875      | 98.43  | —               | DM3875-1A     | DM3875-1-1/2A     | Black | —              | 100  | 100    |
| 4.000      | 101.60 | DM4000-1/2A     | DM4000-1A     | DM4000-1-1/2A     | Black | —              | 150  | 100    |
| 4.000      | 101.60 | —               | DMS4000-1A    | DMS4000-1-1/2A    | Red   | —              | 150  | 100    |
| 4.125      | 104.78 | —               | DM4125-1A     | DM4125-1-1/2A     | Black | —              | 100  | 100    |
| 4.187      | 106.35 | —               | DM4187-1A     | DM4187-1-1/2A     | Black | —              | 100  | 100    |
| 4.250      | 107.95 | —               | DM4250-1A     | DM4250-1-1/2A     | Black | —              | 150  | 100    |
| 4.375      | 111.13 | —               | DM4375-1A     | DM4375-1-1/2A     | Black | —              | 100  | 50     |
| 4.500      | 114.30 | DM4500-1/2A     | DM4500-1A     | DM4500-1-1/2A     | Black | —              | 150  | 75     |
| 4.750      | 120.65 | —               | DM4750-1A     | DM4750-1-1/2A     | Black | —              | 85   | 100    |
| 5.000      | 127.00 | —               | DM5000-1A     | DM5000-1-1/2A     | Black | —              | 125  | 50     |
| 5.187      | 131.75 | —               | DM5187-1A     | DM5187-1-1/2A     | Black | —              | 50   | 50     |
| 5.375      | 136.53 | —               | DM5375-1A     | DM5375-1-1/2A     | Black | —              | 100  | 50     |
| 5.500      | 139.70 | DM5500-1/2A     | DM5500-1A     | DM5500-1-1/2A     | Black | —              | 50   | 50     |
| 5.750      | 146.05 | —               | DM5750-1A     | DM5750-1-1/2A     | Black | —              | 50   | 50     |
| 6.000      | 152.40 | —               | DM6000-1A     | DM6000-1-1/2A     | Black | —              | 50   | 50     |
| 6.250      | 158.75 | —               | DM6250-1A     | DM6250-1-1/2A     | Black | —              | 50   | 50     |
| 6.500      | 165.10 | DM6500-1/2A     | DM6500-1A     | DM6500-1-1/2A     | Black | —              | 50   | 50     |
| 6.750      | 171.45 | —               | DM6750-1A     | DM6750-1-1/2A     | Black | —              | 25   | 50     |
| 7.000      | 177.80 | —               | DM7000-1A     | DM7000-1-1/2A     | Black | —              | 25   | 25     |
| 7.250      | 184.15 | —               | DM7250-1A     | DM7250-1-1/2A     | Black | —              | 50   | 50     |
| 7.500      | 190.50 | —               | DM7500-1A     | DM7500-1-1/2A     | Black | —              | 50   | 25     |
| 7.750      | 196.85 | —               | DM7750-1A     | DM7750-1-1/2A     | Black | —              | 50   | 50     |
| 8.000      | 203.20 | —               | DM8000-1A     | DM8000-1-1/2A     | Black | —              | 50   | 25     |





A & AR Series  
Round End Caps

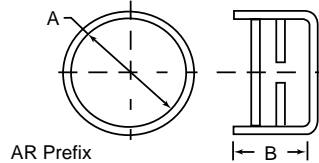


Specifications:

- Material: Low-Density Polyethylene
- Color: Refer to Chart

Features:

- Designed to protect outside diameters matching cap I.D. (A) dimension
- Parts with a W/R have an internal molded ring for extra gripping power
- Parts with AR Prefix have internal ribs for superior retention



See pages 18 & 19 for Application Wizards.

| Item No.    | A     |       | B     |       | Color   | Bulk Pack Qty. |
|-------------|-------|-------|-------|-------|---------|----------------|
|             | In    | mm    | In    | mm    |         |                |
| A3/32W/RA   | 0.094 | 2.38  | 0.625 | 15.88 | Blue    | 5000           |
| A1/8W/RA    | 0.125 | 3.18  | 0.625 | 15.88 | Blue    | 5000           |
| A5/32W/RA   | 0.156 | 3.97  | 0.625 | 15.88 | Blue    | 5000           |
| A3/16W/RA   | 0.187 | 4.76  | 0.625 | 15.88 | Blue    | 5000           |
| A1/4W/RA    | 0.250 | 6.35  | 0.875 | 22.23 | Blue    | 5000           |
| L1/4A       | 0.250 | 6.35  | 1.750 | 44.45 | Blue    | 7500           |
| AS9/32A     | 0.281 | 7.14  | 0.500 | 12.70 | Blue    | 6500           |
| A9/32A      | 0.281 | 7.14  | 0.875 | 22.23 | Blue    | 6500           |
| AC5/16W/RA  | 0.295 | 7.49  | 0.875 | 22.23 | Blue    | 6000           |
| A5/16W/RA   | 0.313 | 7.94  | 0.875 | 22.23 | Blue    | 5000           |
| L5/16A      | 0.313 | 7.94  | 1.750 | 44.45 | Blue    | 4500           |
| A3/8W/RA    | 0.375 | 9.53  | 0.875 | 22.23 | Blue    | 4250           |
| L3/8A       | 0.375 | 9.53  | 1.750 | 44.45 | Blue    | 3800           |
| AR100A      | 0.390 | 9.91  | 0.630 | 16.00 | Red     | 10000          |
| AS7/16A     | 0.437 | 11.11 | 0.500 | 12.70 | Blue    | 6000           |
| A7/16W/RA   | 0.437 | 11.11 | 0.875 | 22.23 | Blue    | 7000           |
| AR105A      | 0.450 | 11.43 | 0.630 | 16.00 | Red     | 10000          |
| A1/2BA      | 0.470 | 11.94 | 0.875 | 22.23 | Blue    | 5000           |
| A1/2A       | 0.495 | 12.57 | 0.875 | 22.23 | Blue    | 5000           |
| AS1/2A      | 0.500 | 12.70 | 0.500 | 12.70 | Blue    | 5000           |
| A1/2W/RA    | 0.500 | 12.70 | 0.875 | 22.23 | Blue    | 5000           |
| AS9/16A     | 0.563 | 14.29 | 0.563 | 14.29 | Blue    | 6500           |
| A9/16A      | 0.563 | 14.29 | 0.875 | 22.23 | Blue    | 4000           |
| A9/16W/RA   | 0.563 | 14.29 | 0.875 | 22.23 | Blue    | 4000           |
| AR110A      | 0.580 | 14.73 | 0.787 | 20.00 | Red     | 5000           |
| AS5/8A      | 0.625 | 15.88 | 0.375 | 9.53  | Blue    | 4250           |
| A5/8W/RA    | 0.625 | 15.88 | 0.875 | 22.23 | Blue    | 3500           |
| AR115A      | 0.630 | 16.00 | 0.787 | 20.00 | Red     | 5000           |
| AS11/16W/RA | 0.687 | 17.46 | 0.750 | 19.05 | Blue    | 4000           |
| A11/16A     | 0.687 | 17.46 | 0.875 | 22.23 | Blue    | 3000           |
| A11/16W/RA  | 0.687 | 17.46 | 0.875 | 22.23 | Blue    | 3000           |
| A23/32A     | 0.720 | 18.29 | 1.310 | 33.27 | Blue    | 1700           |
| K505A       | 0.720 | 18.29 | 1.500 | 38.10 | Blue    | 2800           |
| K505W/RA    | 0.720 | 18.29 | 1.500 | 38.10 | Natural | 2800           |
| AR120A      | 0.727 | 18.47 | 0.787 | 20.00 | Red     | 2500           |
| AS3/4A      | 0.750 | 19.05 | 0.375 | 9.53  | Blue    | 6000           |
| A3/4A       | 0.750 | 19.05 | 0.875 | 22.23 | Blue    | 5000           |
| A3/4W/RA    | 0.750 | 19.05 | 0.875 | 22.23 | Blue    | 5000           |
| AR125A      | 0.787 | 20.00 | 0.787 | 20.00 | Red     | 2000           |
| AS13/16W/RA | 0.813 | 20.64 | 0.344 | 8.73  | Blue    | 6000           |
| A13/16A     | 0.813 | 20.64 | 0.875 | 22.23 | Blue    | 4500           |
| A13/16W/RA  | 0.813 | 20.64 | 0.875 | 22.23 | Blue    | 4500           |
| AR130A      | 0.866 | 22.00 | 0.787 | 20.00 | Red     | 2500           |
| AS7/8W/RA   | 0.875 | 22.23 | 0.500 | 12.70 | Blue    | 3500           |
| A7/8W/RA    | 0.875 | 22.23 | 0.875 | 22.23 | Blue    | 4000           |
| L7/8A       | 0.875 | 22.23 | 1.750 | 44.45 | Blue    | 2000           |

| Item No.     | A     |        | B     |       | Color  | Bulk Pack Qty. |
|--------------|-------|--------|-------|-------|--------|----------------|
|              | In    | mm     | In    | mm    |        |                |
| A15/16A      | 0.937 | 23.81  | 0.813 | 20.64 | Blue   | 3500           |
| AR135A       | 0.961 | 24.41  | 0.827 | 21.01 | Red    | 2000           |
| A63/64A      | 0.980 | 24.89  | 1.310 | 33.27 | Blue   | 2000           |
| AS1A         | 1.000 | 25.40  | 0.375 | 9.53  | Blue   | 4000           |
| A1A          | 1.000 | 25.40  | 0.750 | 19.05 | Blue   | 3500           |
| A1W/RA       | 1.000 | 25.40  | 0.750 | 19.05 | Blue   | 3500           |
| AL1A         | 1.000 | 25.40  | 1.000 | 25.40 | Blue   | 2500           |
| L1B          | 1.000 | 25.40  | 1.750 | 45.72 | Blue   | 1400           |
| A1-1/16A     | 1.063 | 26.99  | 0.875 | 22.23 | Blue   | 3000           |
| A1-1/16W/RA  | 1.063 | 26.99  | 0.875 | 22.23 | Blue   | 3000           |
| AR140A       | 1.102 | 28.00  | 1.043 | 26.50 | Red    | 1000           |
| A1-1/8A      | 1.125 | 28.58  | 0.875 | 22.23 | Blue   | 2500           |
| A1-3/16W/RA  | 1.187 | 30.16  | 1.000 | 25.40 | Blue   | 2000           |
| AR145A       | 1.200 | 30.48  | 1.043 | 26.50 | Red    | 800            |
| AS1-1/4A     | 1.250 | 31.75  | 0.625 | 15.88 | Blue   | 3000           |
| A1-1/4A      | 1.250 | 31.75  | 0.875 | 22.23 | Blue   | 2000           |
| A1-5/16A     | 1.313 | 33.34  | 0.875 | 22.23 | Blue   | 2000           |
| A1-5/16W/RA  | 1.313 | 33.34  | 0.875 | 22.23 | Blue   | 2000           |
| A1-3/8A      | 1.375 | 34.93  | 0.875 | 22.23 | Blue   | 1800           |
| AR150A       | 1.378 | 35.00  | 1.043 | 26.50 | Red    | 800            |
| A1-7/16A     | 1.437 | 36.51  | 0.875 | 22.23 | Blue   | 1600           |
| AR155A       | 1.444 | 36.68  | 1.031 | 26.19 | Red    | 500            |
| A1-1/2A      | 1.500 | 38.10  | 0.875 | 22.23 | Blue   | 1500           |
| A1-9/16A     | 1.563 | 39.69  | 1.000 | 25.40 | Blue   | 1200           |
| A1-5/8A      | 1.625 | 41.27  | 1.000 | 25.40 | Blue   | 1900           |
| A1-11/16A    | 1.688 | 42.87  | 0.875 | 22.23 | Blue   | 1200           |
| A1-3/4A      | 1.750 | 44.45  | 0.875 | 22.23 | Blue   | 1200           |
| A1-7/8A      | 1.875 | 47.63  | 0.875 | 22.23 | Blue   | 1000           |
| A2A          | 2.000 | 50.80  | 0.875 | 22.23 | Blue   | 1000           |
| A2-1/8A      | 2.125 | 53.98  | 0.875 | 22.23 | Blue   | 900            |
| AR160A       | 2.125 | 54.00  | 1.094 | 27.80 | Red    | 300            |
| A2-1/4A      | 2.250 | 57.15  | 1.250 | 31.75 | Blue   | 450            |
| A2-3/8A      | 2.375 | 60.33  | 0.875 | 22.23 | Blue   | 700            |
| A2-1/2A      | 2.500 | 63.50  | 0.875 | 22.23 | Blue   | 600            |
| AS2-9/16A    | 2.563 | 65.09  | 0.375 | 9.53  | Blue   | 1200           |
| A2-19/32W/RA | 2.575 | 65.40  | 1.000 | 25.40 | Blue   | 500            |
| A2-5/8A      | 2.615 | 66.42  | 1.000 | 25.40 | Blue   | 425            |
| A2-3/4A      | 2.725 | 69.22  | 1.090 | 27.68 | Blue   | 450            |
| A3A          | 2.980 | 75.69  | 1.000 | 25.40 | Blue   | 400            |
| A3-1/8A      | 3.125 | 79.38  | 1.375 | 34.93 | Blue   | 250            |
| A3-1/4A      | 3.250 | 82.55  | 1.875 | 47.63 | Blue   | 150            |
| A3-1/2A      | 3.500 | 88.90  | 1.000 | 25.40 | Blue   | 300            |
| A3-3/4A      | 3.740 | 94.99  | 1.000 | 25.40 | Blue   | 225            |
| A4A          | 3.990 | 101.34 | 1.000 | 25.40 | Blue   | 200            |
| A4-1/8A      | 4.115 | 104.52 | 1.000 | 25.40 | Blue   | 200            |
| AR165A       | 4.331 | 110.00 | 1.362 | 34.60 | Yellow | 150            |

3"  
to  
59"

# CABLE TIES

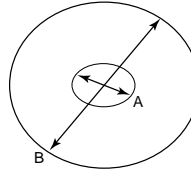
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# PUSH-FIT CAPS

## MCP Series Stretch Fit Cover Caps



### Specifications:

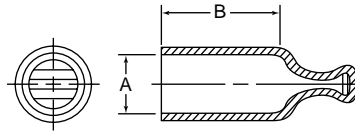
- Material: Polyethylene
- Color: Refer to Chart

### Features:

- Capable of covering a wide range of part diameters and shapes with one part
- Protects against dirt and moisture during storage and shipping
- Reusable

| Item No. |         | A= Elastic Dia. |        | B= Flat Overall Dia. |        | Bulk Pack Qty. |
|----------|---------|-----------------|--------|----------------------|--------|----------------|
| Blue     | Clear   | In              | mm     | In                   | mm     |                |
| MCP050B  | MCP050N | 1.00            | 25.40  | 3.00                 | 76.20  | 1000           |
| MCP100B  | MCP100N | 1.22            | 30.99  | 3.78                 | 96.01  | 1000           |
| MCP105B  | MCP105N | 1.25            | 50.80  | 8.00                 | 203.20 | 500            |
| MCP110B  | MCP110N | 1.50            | 38.10  | 4.50                 | 114.30 | 1000           |
| MCP120B  | MCP120N | 2.00            | 50.80  | 5.75                 | 146.05 | 1000           |
| MCP125B  | MCP125N | 2.50            | 63.50  | 10.00                | 254.00 | 500            |
| MCP130B  | MCP130N | 2.44            | 61.98  | 8.66                 | 219.96 | 500            |
| MCP140B  | MCP140N | 3.07            | 77.98  | 9.45                 | 240.03 | 500            |
| MCP145B  | MCP145N | 3.50            | 88.90  | 18.00                | 457.20 | 300            |
| MCP150B  | MCP150N | 4.25            | 107.95 | 13.00                | 330.20 | 250            |
| MCP155B  | MCP155N | 5.75            | 146.05 | 24.00                | 609.60 | 200            |
| MCP160B  | MCP160N | 5.00            | 127.00 | 15.95                | 405.13 | 250            |
| MCP165B  | MCP165N | 6.50            | 165.10 | 32.00                | 812.80 | 100            |

## DMPC Series Easy-Pull Vinyl Caps



### Specifications:

- Material: Vinyl (PVC)
- Color: Black
- Temperature Range: Up to 350°F (177°C)

### Features:

- The curved pull-tab design provides more surface contact area requiring less gripping force during installation and removal
- Flexible material can stretch onto larger dimensions for a snug fit without tearing, splitting or shredding
- Glossy and attractive finish makes this part ideal for use as a decorative end cap

| A = To Fit |       | Item No.        |               |                   | Bulk Pack Qty. |      |        |
|------------|-------|-----------------|---------------|-------------------|----------------|------|--------|
| In         | mm    | B Length        |               |                   | 1/2"           | 1"   | 1-1/2" |
|            |       | 1/2" (12.70 mm) | 1" (25.40 mm) | 1-1/2" (38.10 mm) |                |      |        |
| 0.187      | 4.75  | DMPC0180-1/2A   | DMPC0180-1A   | —                 | 5000           | 5000 | —      |
| 0.218      | 5.54  | DMPC0207-1/2A   | DMPC0207-1A   | —                 | 5000           | 5000 | —      |
| 0.250      | 6.35  | DMPC0240-1/2A   | DMPC0240-1A   | —                 | 5000           | 5000 | —      |
| 0.302      | 7.67  | DMPC0302-1/2A   | DMPC0302-1A   | DMPC0302-1-1/2A   | 7500           | 5000 | 2500   |
| 0.320      | 8.13  | DMPC0320-1/2A   | DMPC0320-1A   | DMPC0320-1-1/2A   | 5000           | 5000 | 2500   |
| 0.343      | 8.71  | DMPC0343-1/2A   | DMPC0343-1A   | DMPC0343-1-1/2A   | 5000           | 3000 | 2500   |
| 0.375      | 9.53  | DMPC0365-1/2A   | DMPC0365-1A   | DMPC0365-1-1/2A   | 5000           | 3000 | 2000   |
| 0.406      | 10.32 | DMPC0396-1/2A   | DMPC0396-1A   | DMPC0396-1-1/2A   | 5000           | 5000 | 2500   |
| 0.420      | 10.67 | DMPC0420-1/2A   | DMPC0420-1A   | DMPC0420-1-1/2A   | 5000           | 5000 | 2500   |
| 0.437      | 11.10 | DMPC0427-1/2A   | DMPC0427-1A   | DMPC0427-1-1/2A   | 5000           | 4000 | 2500   |
| 0.450      | 11.43 | DMPC0450-1/2A   | DMPC0450-1A   | DMPC0450-1-1/2A   | 5000           | 4000 | 2500   |
| 0.472      | 11.99 | DMPC0470-1/2A   | DMPC0470-1A   | DMPC0470-1-1/2A   | 5000           | 4000 | 2500   |
| 0.500      | 12.70 | DMPC0490-1/2A   | DMPC0490-1A   | DMPC0490-1-1/2A   | 5000           | 4000 | 2000   |
| 0.531      | 13.49 | DMPC0521-1/2A   | DMPC0521-1A   | DMPC0521-1-1/2A   | 5000           | 4000 | 2500   |
| 0.562      | 14.27 | DMPC0552-1/2A   | DMPC0552-1A   | DMPC0552-1-1/2A   | 2500           | 2500 | 2500   |
| 0.593      | 15.06 | DMPC0590-1/2A   | DMPC0590-1A   | DMPC0590-1-1/2A   | 2500           | 1900 | 1500   |
| 0.600      | 15.24 | DMPC0600-1/2A   | DMPC0600-1A   | DMPC0600-1-1/2A   | 5000           | 2500 | 2500   |
| 0.615      | 15.62 | DMPC0615-1/2A   | DMPC0615-1A   | DMPC0615-1-1/2A   | 5000           | 2500 | 2000   |
| 0.625      | 15.88 | DMPC0625-1/2A   | DMPC0625-1A   | DMPC0625-1-1/2A   | 2500           | 1350 | 1500   |
| 0.655      | 16.64 | DMPC0655-1/2A   | DMPC0655-1A   | DMPC0655-1-1/2A   | 2000           | 2500 | 1500   |
| 0.677      | 17.20 | DMPC0677-1/2A   | DMPC0677-1A   | DMPC0677-1-1/2A   | 5000           | 2500 | 1500   |
| 0.687      | 17.45 | DMPC0687-1/2A   | DMPC0687-1A   | DMPC0687-1-1/2A   | 2500           | 2000 | 1500   |
| 0.708      | 17.98 | DMPC0708-1/2A   | DMPC0708-1A   | DMPC0708-1-1/2A   | 2500           | 2000 | 1500   |
| 0.750      | 19.05 | DMPC0740-1/2A   | DMPC0740-1A   | DMPC0740-1-1/2A   | 4000           | 2500 | 1500   |
| 0.812      | 20.62 | DMPC0812-1/2A   | DMPC0812-1A   | DMPC0812-1-1/2A   | 2500           | 2000 | 750    |
| 0.875      | 22.23 | DMPC0865-1/2A   | DMPC0865-1A   | DMPC0865-1-1/2A   | 1500           | 1500 | 750    |
| 0.937      | 23.79 | DMPC0937-1/2A   | DMPC0937-1A   | DMPC0937-1-1/2A   | 1500           | 1500 | 750    |
| 1.000      | 25.40 | DMPC0990-1/2A   | DMPC0990-1A   | DMPC0990-1-1/2A   | 1500           | 1500 | 750    |
| 1.060      | 26.92 | —               | DMPC1060-1A   | DMPC1060-1-1/2A   | —              | 1000 | 700    |
| 1.125      | 28.58 | —               | DMPC1125-1A   | DMPC1125-1-1/2A   | —              | 1000 | 700    |
| 1.250      | 31.75 | —               | DMPC1230-1A   | DMPC1230-1-1/2A   | —              | 1000 | 700    |
| 1.500      | 38.10 | —               | DMPC1500-1A   | DMPC1500-1-1/2A   | —              | 700  | 250    |
| 1.625      | 41.28 | —               | DMPC1605-1A   | DMPC1605-1-1/2A   | —              | 550  | 350    |



**FEC Series**  
Flexible End Caps

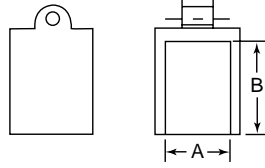


Specifications:

- Material: Thermoplastic Rubber
- Color: Black

Features:

- Flexible material can stretch onto larger diameters for a snug fit
- Recommended for use wherever resistance to acid is required



| Item No. | A     |       | B     |       | Bulk Pack Qty. |
|----------|-------|-------|-------|-------|----------------|
|          | In    | mm    | In    | mm    |                |
| 12200B   | 0.197 | 5.00  | 0.925 | 23.50 | 10000          |
| 12201B   | 0.236 | 6.00  | 0.984 | 25.00 | 10000          |
| 12202B   | 0.276 | 7.00  | 0.945 | 24.00 | 10000          |
| 12203B   | 0.315 | 8.00  | 0.965 | 24.50 | 8000           |
| 12204B   | 0.354 | 9.00  | 0.984 | 25.00 | 7000           |
| 12205B   | 0.394 | 10.00 | 1.161 | 29.50 | 5000           |
| 12206B   | 0.433 | 11.00 | 1.142 | 29.00 | 4500           |
| 12207B   | 0.472 | 12.00 | 1.142 | 29.00 | 4000           |
| 12208B   | 0.512 | 13.00 | 1.142 | 29.00 | 3500           |
| 12209B   | 0.551 | 14.00 | 1.161 | 29.50 | 3000           |
| 12210B   | 0.591 | 15.00 | 1.161 | 29.50 | 2500           |
| 12211B   | 0.630 | 16.00 | 1.102 | 28.00 | 2500           |
| 12212B   | 0.669 | 17.00 | 1.161 | 29.50 | 2000           |

| Item No. | A     |       | B     |       | Bulk Pack Qty. |
|----------|-------|-------|-------|-------|----------------|
|          | In    | mm    | In    | mm    |                |
| 12213B   | 0.709 | 18.00 | 1.122 | 28.50 | 2000           |
| 12214B   | 0.748 | 19.00 | 1.161 | 29.50 | 2000           |
| 12215B   | 0.787 | 20.00 | 1.122 | 28.50 | 1600           |
| 12216B   | 0.827 | 21.00 | 1.358 | 34.50 | 1300           |
| 12217B   | 0.866 | 22.00 | 1.339 | 34.00 | 1200           |
| 12218B   | 0.906 | 23.00 | 1.358 | 34.50 | 1000           |
| 12219B   | 0.945 | 24.00 | 1.339 | 34.00 | 1000           |
| 12220B   | 0.984 | 25.00 | 1.358 | 34.50 | 1000           |
| 12221B   | 1.024 | 26.00 | 1.358 | 34.50 | 900            |
| 12222B   | 1.063 | 27.00 | 1.319 | 33.50 | 900            |
| 12223B   | 1.102 | 28.00 | 1.319 | 33.50 | 800            |
| 12224B   | 1.142 | 29.00 | 1.378 | 35.00 | 800            |
| 12225B   | 1.181 | 30.00 | 1.358 | 34.50 | 600            |

**FPT Series**  
Flexible Pull Tab Caps

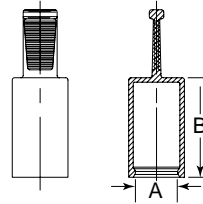


Specifications:

- Material: EVA (Ethylene Vinyl Acetate)
- Color: Yellow

Features:

- Large pull tab allows easy removal
- Internal lip prevents ingress of dirt
- Material provides good tensile strength, toughness and increased flexibility
- Can be used to cap threaded or non-threaded applications



| Item No.   | To Fit           |               | A     |    | B     |    | Bulk Pack Qty. |
|------------|------------------|---------------|-------|----|-------|----|----------------|
|            | Unified Thread   | Metric Thread | In    | mm | In    | mm |                |
| FPT464885A | 8-32, 8-36       | M4            | 0.157 | 4  | 0.827 | 21 | 500            |
| FPT464886A | 12-24, 12-28     | M5            | 0.197 | 5  | 0.787 | 20 | 500            |
| FPT464887A | 1/4-20, 1/4-28   | M6            | 0.236 | 6  | 0.787 | 20 | 500            |
| FPT464888A | 3/8-20, 3/8-24   | M8            | 0.315 | 8  | 0.787 | 20 | 500            |
| FPT464889A | —                | —             | 0.354 | 9  | 0.787 | 20 | 500            |
| FPT464890A | 7/16-14, 7/16-20 | M10           | 0.394 | 10 | 0.787 | 20 | 500            |
| FPT464891A | —                | —             | 0.433 | 11 | 0.787 | 20 | 500            |
| FPT464892A | 1/2-13, 1/2-20   | M12           | 0.472 | 12 | 0.787 | 20 | 500            |

| Item No.   | To Fit               |               | A     |    | B     |    | Bulk Pack Qty. |
|------------|----------------------|---------------|-------|----|-------|----|----------------|
|            | Unified Thread       | Metric Thread | In    | mm | In    | mm |                |
| FPT464893A | 9/16-12, 9/16-18     | —             | 0.512 | 13 | 0.787 | 20 | 500            |
| FPT464894A | —                    | M14           | 0.551 | 14 | 0.787 | 20 | 500            |
| FPT464895A | 5/8-11, 5/8-18       | M15           | 0.591 | 15 | 0.787 | 20 | 500            |
| FPT464896A | 11/16                | M16           | 0.630 | 16 | 0.787 | 20 | 500            |
| FPT464897A | 3/4-10, 3/4-16       | M18           | 0.709 | 18 | 0.787 | 20 | 500            |
| FPT464898A | 13/16, 7/8-9, 7/8-14 | M20           | 0.787 | 20 | 0.787 | 20 | 500            |
| FPT464899A | 13/16, 7/8-9, 7/8-14 | M20           | 0.787 | 20 | 1.181 | 30 | 500            |
| FPT464900A | 1-8, 1-12            | M24           | 0.945 | 24 | 0.787 | 20 | 500            |

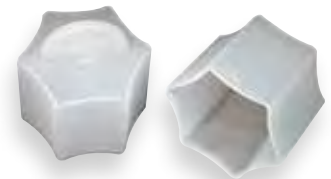
**HEX Series**  
Hexagonal Caps

Specifications:

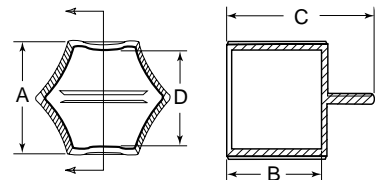
- Material: Polyethylene
- Color: Natural

Features:

- Rigid design allows easy application and removal
- Available in all common hydraulic coupling sizes
- Also suitable for protecting round components



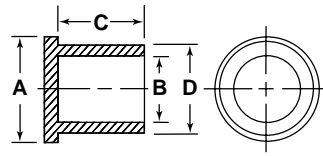
| Item No. | To Fit Thread Sizes |        |       | A     |    | B     |    | C     |    | D     |      | Bulk Pack Qty. |
|----------|---------------------|--------|-------|-------|----|-------|----|-------|----|-------|------|----------------|
|          | UNF                 | Metric | BSP   | In    | mm | In    | mm | In    | mm | In    | mm   |                |
| HEX100A  | —                   | M10    | —     | 0.433 | 11 | 0.630 | 16 | 1.102 | 28 | 0.421 | 10.7 | 500            |
| HEX105A  | 7/16                | M12    | 1/8   | 0.551 | 14 | 0.709 | 18 | 1.181 | 30 | 0.539 | 13.7 | 500            |
| HEX110A  | —                   | —      | —     | 0.630 | 16 | 0.787 | 20 | 1.260 | 32 | 0.618 | 15.7 | 500            |
| HEX115A  | 1/2                 | M14    | —     | 0.669 | 17 | 0.787 | 20 | 1.260 | 32 | 0.657 | 16.7 | 500            |
| HEX120A  | 9/16                | M16    | 1/4   | 0.748 | 19 | 0.984 | 25 | 1.535 | 39 | 0.736 | 18.7 | 500            |
| HEX125A  | 3/4                 | M18    | 3/8   | 0.866 | 22 | 0.984 | 25 | 1.535 | 39 | 0.850 | 21.6 | 500            |
| HEX130A  | —                   | —      | —     | 0.945 | 24 | 1.102 | 28 | 1.654 | 42 | 0.929 | 23.6 | 500            |
| HEX135A  | —                   | —      | —     | 0.984 | 25 | 1.102 | 28 | 1.654 | 42 | 0.969 | 24.6 | 250            |
| HEX140A  | 7/8                 | M22    | 1/2   | 1.063 | 27 | 1.102 | 28 | 1.654 | 42 | 1.047 | 26.6 | 250            |
| HEX145A  | —                   | —      | —     | 1.142 | 29 | 1.181 | 30 | 1.732 | 44 | 1.126 | 28.6 | 250            |
| HEX150A  | —                   | M24    | 5/8   | 1.181 | 30 | 1.181 | 30 | 1.732 | 44 | 1.165 | 29.6 | 250            |
| HEX155A  | 1-1/16              | M26    | 3/4   | 1.260 | 32 | 1.181 | 30 | 1.732 | 44 | 1.244 | 31.6 | 250            |
| HEX160A  | —                   | M30    | —     | 1.417 | 36 | 1.181 | 30 | 1.732 | 44 | 1.398 | 35.5 | 250            |
| HEX165A  | —                   | —      | —     | 1.496 | 38 | 1.220 | 31 | 1.772 | 45 | 1.476 | 37.5 | 100            |
| HEX170A  | 1-5/16              | M36    | 1     | 1.614 | 41 | 1.220 | 31 | 1.772 | 45 | 1.594 | 40.5 | 100            |
| HEX175A  | —                   | —      | —     | 1.811 | 46 | 1.260 | 32 | 1.811 | 46 | 1.791 | 45.5 | 100            |
| HEX180A  | 1-5/8               | M45    | 1-1/4 | 1.969 | 50 | 1.260 | 32 | 1.811 | 46 | 1.949 | 49.5 | 100            |





# PUSH-FIT CAPS FOR THREADS

## E Series Flanged Caps for Standard Threads



### Specifications:

- Material: Low-Density Polyethylene
- Color: Refer to Chart

### Features:

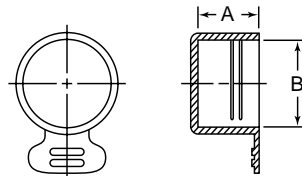
- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect standard threads with or without O-rings



| Item No.    |          | To Cap<br>Standard Thread | A     |       | B     |       | C     |       | D     |       | Bulk<br>Pack<br>Qty. |
|-------------|----------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| Natural     | Orange   |                           | In    | mm    | In    | mm    | In    | mm    | In    | mm    |                      |
| E5/16A      | -        | 5/16"                     | 0.510 | 12.95 | 0.315 | 8.00  | 0.840 | 21.33 | 0.377 | 9.57  | 5000                 |
| -           | E3/8A    | 3/8"                      | 0.531 | 13.49 | 0.364 | 9.25  | 0.590 | 16.67 | 0.428 | 10.87 | 5000                 |
| E3/8AA      | -        | 3/8"                      | 0.580 | 14.73 | 0.377 | 9.58  | 0.840 | 21.34 | 0.447 | 11.35 | 5000                 |
| EL3/8B      | EL3/8A   | 3/8"                      | 0.520 | 13.21 | 0.370 | 9.40  | 1.280 | 32.51 | 0.440 | 11.18 | 5000                 |
| E7/16A      | -        | 7/16"                     | 0.625 | 15.88 | 0.428 | 10.87 | 0.590 | 14.99 | 0.492 | 12.50 | 4250                 |
| E7/16CATB   | -        | 7/16"                     | 0.625 | 15.88 | 0.429 | 10.90 | 0.600 | 15.24 | 0.491 | 12.47 | 4250                 |
| EL7/16B     | EL7/16A  | 7/16"                     | 0.580 | 14.73 | 0.428 | 10.87 | 1.020 | 25.91 | 0.495 | 12.57 | 5000                 |
| -           | EL7/16AA | 7/16"                     | 0.580 | 14.73 | 0.425 | 10.79 | 1.330 | 33.98 | 0.487 | 12.37 | 2800                 |
| E1/2A       | -        | 1/2"                      | 0.720 | 18.29 | 0.490 | 12.45 | 0.460 | 11.68 | 0.550 | 13.97 | 4000                 |
| EL1/2A      | -        | 1/2"                      | 0.640 | 16.25 | 0.490 | 12.45 | 1.330 | 33.78 | 0.552 | 14.02 | 2800                 |
| EL9/16A     | -        | 9/16"                     | 0.700 | 17.78 | 0.550 | 13.97 | 1.410 | 35.81 | 0.620 | 15.75 | 2500                 |
| E9/16A      | -        | 9/16"                     | 0.810 | 20.57 | 0.551 | 14.00 | 0.490 | 12.45 | 0.621 | 15.77 | 5900                 |
| E5/8B       | E5/8A    | 5/8"                      | 0.813 | 20.64 | 0.606 | 15.39 | 0.750 | 19.05 | 0.677 | 17.20 | 4000                 |
| EL5/8A      | -        | 5/8"                      | 0.760 | 19.30 | 0.625 | 15.88 | 0.840 | 21.34 | 0.687 | 17.48 | 3000                 |
| E11/16B     | -        | 11/16"                    | 0.935 | 23.75 | 0.675 | 17.14 | 0.500 | 17.15 | 0.745 | 12.70 | 4000                 |
| -           | EL11/16A | 11/16"                    | 0.840 | 21.33 | 0.678 | 17.22 | 0.880 | 22.35 | 0.748 | 18.99 | 2500                 |
| E3/4B       | E3/4A    | 3/4"                      | 1.000 | 25.40 | 0.720 | 18.29 | 0.688 | 17.46 | 0.794 | 20.17 | 3000                 |
| E3/4CATA    | -        | 3/4"                      | 1.000 | 25.40 | 0.729 | 18.52 | 0.625 | 15.88 | 0.786 | 19.96 | 3000                 |
| EL3/4D      | EL3/4A   | 3/4"                      | 0.890 | 22.61 | 0.740 | 18.80 | 1.540 | 39.12 | 0.813 | 20.65 | 2500                 |
| E13/16A     | -        | 13/16"                    | 1.060 | 26.92 | 0.800 | 20.32 | 0.570 | 14.48 | 0.870 | 22.10 | 2500                 |
| -           | K324A    | 13/16"                    | 1.060 | 26.92 | 0.605 | 15.37 | 0.845 | 21.50 | 0.665 | 16.89 | 3500                 |
| E7/8SA      | -        | 7/8"                      | 1.120 | 28.45 | 0.864 | 21.95 | 0.690 | 17.53 | 0.926 | 23.52 | 4000                 |
| -           | E7/8A    | 7/8"                      | 1.096 | 27.84 | 0.860 | 21.84 | 0.875 | 22.23 | 0.933 | 23.70 | 3500                 |
| E7/8CATB    | -        | 7/8"                      | 1.096 | 27.84 | 0.865 | 21.97 | 0.832 | 21.13 | 0.921 | 23.39 | 3500                 |
| EL7/8B      | EL7/8A   | 7/8"                      | 1.010 | 25.65 | 0.860 | 21.84 | 1.700 | 43.18 | 0.929 | 23.60 | 2000                 |
| E1A         | -        | 1"                        | 1.246 | 31.65 | 0.993 | 25.22 | 0.660 | 16.76 | 1.056 | 26.82 | 1500                 |
| -           | E1-1/16A | 1-1/16"                   | 1.187 | 30.15 | 1.030 | 26.16 | 1.062 | 27.98 | 1.092 | 27.74 | 2000                 |
| E1-1/16CATB | -        | 1-1/16"                   | 1.288 | 32.72 | 1.043 | 26.49 | 0.688 | 17.48 | 1.114 | 28.30 | 2800                 |
| E1-3/16B    | -        | 1-3/16"                   | 1.432 | 36.37 | 1.172 | 29.77 | 0.760 | 19.30 | 1.242 | 31.55 | 2000                 |
| E1-5/16B    | -        | 1-5/16"                   | 1.567 | 39.80 | 1.302 | 33.07 | 0.760 | 19.30 | 1.372 | 34.85 | 1800                 |
| E1-7/16B    | -        | 1-7/16"                   | 1.697 | 43.10 | 1.432 | 36.37 | 0.760 | 19.30 | 1.502 | 38.15 | 1500                 |
| E1-5/8B     | -        | 1-5/8"                    | 1.875 | 47.63 | 1.615 | 41.02 | 0.835 | 21.21 | 1.685 | 42.80 | 1100                 |
| E1-11/16B   | -        | 1-11/16"                  | 1.928 | 48.97 | 1.668 | 42.37 | 0.835 | 21.21 | 1.738 | 44.15 | 1000                 |
| E1-7/8A     | E1-7/8B  | 1-7/8"                    | 2.131 | 54.13 | 1.871 | 47.52 | 0.960 | 24.38 | 1.941 | 49.30 | 900                  |
| E2B         | -        | 2"                        | 2.256 | 57.30 | 1.994 | 50.65 | 1.085 | 27.56 | 2.064 | 52.43 | 600                  |
| E2-1/2A     | -        | 2-1/2"                    | 2.756 | 70.00 | 2.491 | 63.27 | 1.210 | 30.73 | 2.566 | 65.18 | 350                  |

See pages 18 & 19 for Application Wizards.

## TS Series Tear Tab Caps for SAE/JIC Threads



### Specifications:

- Material: Low-Density Polyethylene
- Color: Refer to Chart

### Features:

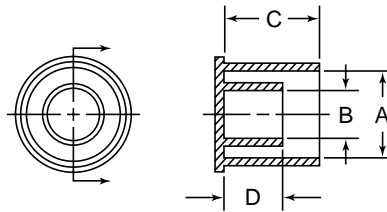
- Designed with a tear tab for easy removal
- Made to protect standard threads from damage but versatile enough to be used in numerous applications



| Item No. |       | To Cap<br>Standard Thread | SAE/JIC<br>Fitting Size | A     |       | B     |       | Bulk<br>Pack<br>Qty. |
|----------|-------|---------------------------|-------------------------|-------|-------|-------|-------|----------------------|
| Natural  | Blue  |                           |                         | In    | mm    | In    | mm    |                      |
| TS3B     | TS3A  | 3/8"-24                   | 3                       | 0.437 | 11.10 | 0.364 | 9.25  | 6500                 |
| TS4B     | TS4A  | 7/16"-20                  | 4                       | 0.460 | 11.68 | 0.433 | 11.00 | 5500                 |
| TS5B     | TS5A  | 1/2"-20                   | 5                       | 0.460 | 11.68 | 0.490 | 12.45 | 4500                 |
| TS6B     | TS6A  | 9/16"-18                  | 6                       | 0.475 | 12.07 | 0.551 | 14.00 | 7000                 |
| TS7B     | TS7A  | 11/16"-16                 | 7                       | 0.475 | 12.07 | 0.675 | 17.15 | 5000                 |
| TS8B     | TS8A  | 3/4"-16                   | 8                       | 0.560 | 14.22 | 0.740 | 18.80 | 3500                 |
| TS9B     | TS9A  | 13/16"-16                 | 9                       | 0.560 | 14.22 | 0.802 | 20.37 | 3000                 |
| TS10B    | TS10A | 7/8"-14                   | 10                      | 0.650 | 16.51 | 0.873 | 22.17 | 4500                 |
| TS11B    | TS11A | 1"-14                     | 11                      | 0.650 | 16.51 | 0.986 | 25.04 | 4000                 |
| TS12B    | TS12A | 1-1/16"-12                | 12                      | 0.750 | 19.05 | 1.053 | 26.75 | 3000                 |
| TS13B    | TS13A | 1-3/16"-12                | 13                      | 0.750 | 19.05 | 1.172 | 29.77 | 2700                 |
| TS16B    | TS16A | 1-5/16"-12                | 16                      | 0.750 | 19.05 | 1.302 | 33.07 | 2200                 |
| TS17B    | TS17A | 1-7/16"-12                | 17                      | 0.750 | 19.05 | 1.432 | 36.37 | 2000                 |
| TS20B    | TS20A | 1-5/8"-12                 | 20                      | 0.825 | 20.96 | 1.615 | 41.02 | 1300                 |
| TS21B    | TS21A | 1-11/16"-12               | 21                      | 0.825 | 20.96 | 1.668 | 42.37 | 1200                 |
| TS24B    | TS24A | 1-7/8"-12                 | 24                      | 0.950 | 24.13 | 1.871 | 47.52 | 900                  |
| TS32B    | TS32A | 2-1/2"-12                 | 32                      | 1.200 | 30.48 | 2.491 | 63.27 | 400                  |



**M Series**  
Tube & Nut Assembly Caps



**Specifications:**

- Materials: Low-Density Polyethylene
- Color: Red

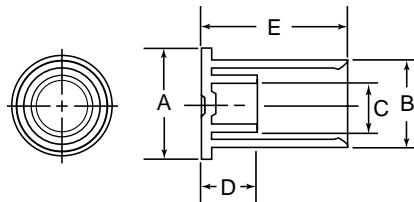
**Features:**

- Designed to protect flareless hydraulic tube and nut assemblies
- Features a double cap design. The outside cap conforms to the hex shape of the nut; the inside cap covers the tube and sleeve inside the nut to hold the assembly in place
- The MCA & MCM Series are frequently applied to automobile air conditioning tube and nut assemblies



| Item No. | To Cap Tube Size | A     |       | B     |       | C     |       | D     |       | Bulk Pack Qty. |
|----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
|          |                  | In    | mm    | In    | mm    | In    | mm    | In    | mm    |                |
| M2A      | 1/8"             | 0.391 | 9.93  | 0.172 | 4.37  | 0.580 | 14.73 | 0.400 | 10.16 | 6000           |
| M3A      | 3/16"            | 0.456 | 11.58 | 0.236 | 5.99  | 0.630 | 16.00 | 0.410 | 10.41 | 8500           |
| M4A      | 1/4"             | 0.606 | 15.39 | 0.283 | 7.19  | 0.650 | 16.51 | 0.380 | 9.65  | 5000           |
| M5A      | 5/16"            | 0.655 | 16.64 | 0.352 | 8.94  | 0.810 | 20.57 | 0.540 | 13.72 | 3500           |
| M6A      | 3/8"             | 0.740 | 18.80 | 0.440 | 11.18 | 0.845 | 21.46 | 0.545 | 13.84 | 2800           |
| M8A      | 1/2"             | 0.914 | 23.22 | 0.567 | 14.40 | 0.905 | 22.99 | 0.540 | 13.72 | 1800           |
| M10A     | 5/8"             | 1.044 | 26.52 | 0.670 | 17.02 | 1.030 | 26.16 | 0.647 | 16.43 | 2500           |
| M12A     | 3/4"             | 1.324 | 33.62 | 0.851 | 21.62 | 1.045 | 26.54 | 0.643 | 16.33 | 1600           |
| M16A     | 1"               | 1.564 | 39.73 | 1.060 | 26.92 | 1.097 | 27.86 | 0.550 | 13.97 | 1100           |
| M20A     | 1-1/4"           | 2.090 | 53.09 | 1.320 | 33.53 | 1.104 | 28.04 | 0.625 | 15.88 | 650            |
| M24A     | 1-1/2"           | 2.345 | 59.56 | 1.535 | 38.99 | 1.078 | 27.38 | 0.620 | 15.75 | 550            |
| MCA10A   | 3/8" female      | 0.799 | 20.29 | 0.326 | 8.28  | 0.610 | 15.49 | 0.211 | 5.36  | 2800           |
| MCA12A   | 1/2" female      | 0.930 | 23.62 | 0.450 | 11.43 | 0.750 | 19.05 | 0.315 | 8.00  | 3500           |
| MCA17A   | 3/4" female      | 1.330 | 33.78 | 0.684 | 17.37 | 1.060 | 26.92 | 0.315 | 8.00  | 1500           |
| MCM10A   | 3/8" male        | 0.612 | 15.54 | 0.326 | 8.28  | 0.800 | 20.32 | 0.211 | 5.36  | 3500           |
| MCM12A   | 1/2" male        | 0.735 | 18.67 | 0.450 | 11.43 | 1.000 | 25.40 | 0.315 | 8.00  | 2000           |

**OFR Series**  
O-Ring Face-Fitting Caps for UNF/JIC Threads



**Specifications:**

- Material: Low-Density Polyethylene
- Color: Refer to Chart

**Features:**

- Designed to protect O-ring seal connectors used on hydraulic connections
- Designed with a longer overall length and includes a molded retaining ring at the bottom that snaps under the connector so it will not fall off the connector



**UNF Threads**

| Item No. (Blue) | To Cap UNF Thread | A     |       | B     |       | C     |       | D     |       | E     |       | Bulk Pack Qty. |
|-----------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
|                 |                   | In    | mm    | In    | mm    | In    | mm    | In    | mm    | In    | mm    |                |
| OFR4B           | 9/16"-18          | 0.938 | 23.80 | 0.771 | 19.58 | 0.500 | 12.70 | 0.330 | 8.30  | 0.690 | 17.50 | 3000           |
| OFR6B           | 11/16"-16         | 1.125 | 28.40 | 0.903 | 22.93 | 0.625 | 16.00 | 0.370 | 9.40  | 0.770 | 19.60 | 2500           |
| OFR8A           | 13/16"-16         | 1.219 | 31.00 | 1.052 | 26.72 | 0.750 | 19.10 | 0.430 | 10.90 | 0.930 | 23.60 | 3000           |
| OFR10A          | 1"-14             | 1.438 | 36.50 | 1.255 | 31.50 | 0.906 | 23.00 | 0.530 | 13.50 | 1.040 | 26.40 | 2000           |
| OFR12A          | 1-3/16"-12        | 1.688 | 42.70 | 1.530 | 38.86 | 1.093 | 27.70 | 0.570 | 14.50 | 1.140 | 28.80 | 1200           |
| OFR16A          | 1-7/16"-12        | 2.000 | 50.80 | 1.804 | 45.82 | 1.343 | 34.10 | 0.580 | 14.70 | 1.210 | 30.70 | 900            |
| OFR20A          | 1-11/16"-12       | 2.250 | 57.20 | 2.093 | 53.16 | 1.593 | 40.50 | 0.580 | 14.70 | 1.210 | 30.70 | 700            |
| OFR24A          | 2"-12             | 2.719 | 69.00 | 2.520 | 64.01 | 1.875 | 47.60 | 0.580 | 14.70 | 1.210 | 30.70 | 450            |

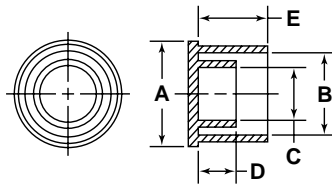
**JIC Threads**

| Item No. | Blue    | Red | To Cap JIC Thread | JIC Fitting Size | A     |       | B     |       | C     |       | D     |       | E     |       | Bulk Pack Qty. |
|----------|---------|-----|-------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
|          |         |     |                   |                  | In    | mm    | In    | mm    | In    | mm    | In    | mm    | In    | mm    |                |
| OFR100A  | OFR100B |     | 7/16"-20          | 4                | 0.770 | 19.60 | 0.712 | 18.08 | 0.370 | 9.40  | 0.420 | 10.67 | 0.710 | 18.03 | 3000           |
| OFR110A  | OFR110B |     | 9/16"-18          | 6                | 0.950 | 24.10 | 0.864 | 21.95 | 0.500 | 12.80 | 0.420 | 10.67 | 0.840 | 21.34 | 2500           |
| OFR120A  | OFR120B |     | 3/4"-16           | 8                | 1.160 | 29.30 | 1.067 | 27.10 | 0.670 | 17.00 | 0.430 | 10.92 | 0.930 | 23.62 | 1200           |
| OFR130A  | OFR130B |     | 7/8"-14           | 10               | 1.280 | 32.50 | 1.192 | 30.28 | 0.780 | 19.80 | 0.500 | 12.70 | 1.050 | 26.67 | 1200           |
| OFR140A  | OFR140B |     | 1-1/16"-12        | 12               | 1.580 | 40.10 | 1.489 | 37.82 | 0.960 | 24.40 | 0.570 | 14.48 | 1.150 | 29.21 | 1200           |
| OFR150A  | OFR150B |     | 1-5/16"-12        | 16               | 1.880 | 47.80 | 1.766 | 44.86 | 1.220 | 30.90 | 0.590 | 14.99 | 1.210 | 30.73 | 1000           |



# PUSH-FIT CAPS FOR THREADS

## OR Series O-Ring Face-Fitting Caps for UNF Threads



### Specifications:

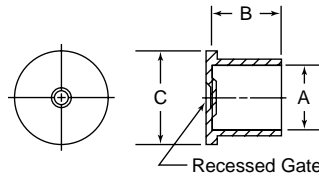
- Material: Low-Density Polyethylene
- Color: Blue

### Features:

- Designed to protect O-ring face seal connectors used on hydraulic connections

| Item No. | To Cap UNF Thread | A     |       | B     |       | C     |       | D     |       | E     |       | Bulk Pack Qty. |
|----------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
|          |                   | In    | mm    | In    | mm    | In    | mm    | In    | mm    | In    | mm    |                |
| OR4A     | 9/16"-18          | 0.875 | 22.23 | 0.768 | 19.51 | 0.500 | 12.70 | 0.326 | 8.28  | 0.578 | 14.68 | 3500           |
| OR6A     | 11/16"-16         | 1.000 | 25.40 | 0.901 | 22.89 | 0.594 | 15.08 | 0.370 | 9.40  | 0.672 | 17.07 | 2500           |
| OR8A     | 13/16"-16         | 1.156 | 29.37 | 1.053 | 26.75 | 0.750 | 19.05 | 0.430 | 10.92 | 0.828 | 21.03 | 3000           |
| OR10A    | 1"-14             | 1.375 | 34.93 | 1.260 | 32.00 | 0.906 | 23.02 | 0.530 | 13.46 | 0.922 | 23.42 | 2000           |
| OR12A    | 1-3/16"-12        | 1.625 | 41.28 | 1.535 | 38.99 | 1.094 | 27.78 | 0.560 | 14.48 | 1.031 | 26.19 | 1200           |
| OR16A    | 1-7/16"-12        | 1.844 | 46.83 | 1.804 | 45.82 | 1.344 | 34.13 | 0.580 | 14.73 | 1.094 | 27.78 | 900            |
| OR20A    | 1-11/16"-12       | 2.125 | 53.98 | 2.093 | 53.16 | 1.594 | 40.48 | 0.580 | 14.73 | 1.094 | 27.78 | 700            |
| OR24B    | 2"-12             | 2.688 | 68.26 | 2.520 | 64.01 | 1.875 | 47.63 | 0.580 | 14.73 | 1.094 | 27.78 | 450            |

## ECM Series Flanged Caps for Metric Threads



### Specifications:

- Material: Low-Density Polyethylene
- Color: Natural

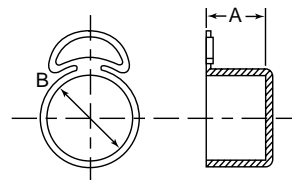
### Features:

- Designed for easy assembly and removal either with automated equipment or by hand
- Typically used to protect metric threads with or without O-rings

| Item No. | To Cap Metric Thread | A     |       | B     |       | C     |       | Bulk Pack Qty. |
|----------|----------------------|-------|-------|-------|-------|-------|-------|----------------|
|          |                      | In    | mm    | In    | mm    | In    | mm    |                |
| ECM10A   | M10                  | 0.385 | 9.78  | 0.382 | 9.70  | 0.689 | 17.50 | 8000           |
| ECM12A   | M12                  | 0.463 | 11.75 | 0.470 | 11.95 | 0.768 | 19.50 | 7000           |
| ECM14A   | M14                  | 0.540 | 13.72 | 0.470 | 11.95 | 0.846 | 21.50 | 5000           |
| ECM16A   | M16                  | 0.617 | 15.67 | 0.470 | 11.95 | 0.925 | 23.50 | 5000           |
| ECM18A   | M18                  | 0.696 | 17.68 | 0.470 | 11.95 | 1.004 | 25.50 | 3000           |

| Item No. | To Cap Metric Thread | A     |       | B     |       | C     |       | Bulk Pack Qty. |
|----------|----------------------|-------|-------|-------|-------|-------|-------|----------------|
|          |                      | In    | mm    | In    | mm    | In    | mm    |                |
| ECM20A   | M20                  | 0.774 | 19.66 | 0.553 | 14.05 | 1.083 | 27.50 | 2500           |
| ECM22A   | M22                  | 0.855 | 21.72 | 0.553 | 14.05 | 1.161 | 29.50 | 3000           |
| ECM33A   | M33                  | 1.285 | 32.64 | 0.687 | 17.45 | 1.590 | 40.39 | 2000           |
| ECM38A   | M38                  | 1.481 | 37.62 | 0.748 | 19.00 | 1.751 | 44.50 | 1000           |
| ECM42A   | M42                  | 1.640 | 41.68 | 0.748 | 19.00 | 1.948 | 49.50 | 1000           |

## TSM Series Tear Tab Caps for Metric Threads



### Specifications:

- Material: Low-Density Polyethylene
- Color: Refer to Chart

### Features:

- Designed with a tear tab for easy removal
- Made to protect metric threads from damage but versatile enough to be used in numerous applications

| Item No. | To Cap Metric Thread | A     |       | B     |       | Color   | Bulk Pack Qty. |
|----------|----------------------|-------|-------|-------|-------|---------|----------------|
|          |                      | In    | mm    | In    | mm    |         |                |
| TSM12A   | M12                  | 0.472 | 12.00 | 0.472 | 12.00 | Yellow  | 5000           |
| TSM14A   | M14                  | 0.551 | 14.00 | 0.555 | 14.10 | Yellow  | 5000           |
| TSM16A   | M16                  | 0.634 | 16.10 | 0.650 | 16.50 | Yellow  | 5000           |
| TSM18A   | M18                  | 0.709 | 18.00 | 0.709 | 18.00 | Yellow  | 4000           |
| TSM20B   | M20                  | 0.787 | 20.00 | 0.787 | 20.00 | Natural | 2000           |
| TSM22A   | M22                  | 0.866 | 22.00 | 0.866 | 22.00 | Yellow  | 2000           |



**QFC Series**  
Quick Fit Caps for Metric Threads

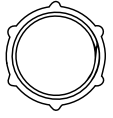
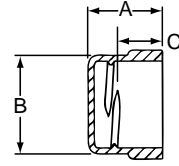


Specifications:

- Material: Low-Density Polyethylene
- Color: Red

Features:

- Fewer thread forms allow for quick application



| Item No. | To Cap Metric Thread Size | A     |       | B     |       | C     |      | Bulk Pack Qty. |
|----------|---------------------------|-------|-------|-------|-------|-------|------|----------------|
|          |                           | In    | mm    | In    | mm    | In    | mm   |                |
| QFC145A  | M8 x 1                    | 0.394 | 10.00 | 0.394 | 10.00 | 0.236 | 6.00 | 5000           |
| QFC146A  | M10 x 1                   | 0.394 | 10.00 | 0.472 | 12.00 | 0.236 | 6.00 | 5000           |
| QFC147A  | M12 x 1.5                 | 0.472 | 12.00 | 0.551 | 14.00 | 0.295 | 7.50 | 5000           |
| QFC148A  | M14 x 1.5                 | 0.472 | 12.00 | 0.630 | 16.00 | 0.295 | 7.50 | 5000           |
| QFC149A  | M14 x 1.5                 | 0.827 | 21.00 | 0.630 | 16.00 | 0.335 | 8.50 | 5000           |
| QFC150A  | M16 x 1.5                 | 0.472 | 12.00 | 0.709 | 18.00 | 0.295 | 7.50 | 5000           |
| QFC151A  | M16 x 1.5                 | 0.827 | 21.00 | 0.709 | 18.00 | 0.256 | 6.50 | 5000           |
| QFC152A  | M18 x 1.5                 | 0.551 | 14.00 | 0.787 | 20.00 | 0.374 | 9.50 | 4000           |
| QFC153A  | M20 x 1.5                 | 0.551 | 14.00 | 0.866 | 22.00 | 0.374 | 9.50 | 4000           |
| QFC154A  | M22 x 1.5                 | 0.551 | 14.00 | 0.965 | 24.50 | 0.374 | 9.50 | 2000           |
| QFC155A  | M24 x 1.5                 | 0.551 | 14.00 | 1.043 | 26.50 | 0.374 | 9.50 | 2000           |
| QFC156A  | M26 x 1.5                 | 0.551 | 14.00 | 1.122 | 28.50 | 0.374 | 9.50 | 2000           |
| QFC157A  | M28 x 1.5                 | 0.551 | 14.00 | 1.260 | 32.00 | 0.374 | 9.50 | 2000           |
| QFC158A  | M30 x 2.0                 | 0.551 | 14.00 | 1.339 | 34.00 | 0.354 | 9.00 | 1500           |

**W Series**  
Hose Washer Caps

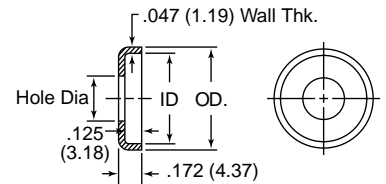


Specifications:

- Material: Refer to Chart
- Color: Refer to Chart

Features:

- Applied on hose and tube ends in order to prevent them from sliding over the fittings.



| Item No. | Hole Diameter |       | I.D.  |       | O.D.  |       | Color  | Material | Bulk Pack Qty. |
|----------|---------------|-------|-------|-------|-------|-------|--------|----------|----------------|
|          | In            | mm    | In    | mm    | In    | mm    |        |          |                |
| W6A      | 0.320         | 8.13  | 0.589 | 14.96 | 0.685 | 17.40 | Yellow | LDPE     | 4750           |
| W6C      | 0.320         | 8.13  | 0.589 | 14.96 | 0.685 | 17.40 | Black  | TPE      | 4750           |
| W8A      | 0.445         | 11.30 | 0.760 | 19.30 | 0.860 | 21.84 | Yellow | LDPE     | 4000           |
| W8C      | 0.445         | 11.30 | 0.760 | 19.30 | 0.860 | 21.84 | Black  | TPE      | 4000           |
| W10A     | 0.575         | 14.61 | 0.870 | 22.10 | 0.968 | 24.59 | Yellow | LDPE     | 5000           |
| W10C     | 0.575         | 14.61 | 0.870 | 22.10 | 0.968 | 24.59 | Black  | TPE      | 5000           |

| Item No. | Hole Diameter |       | I.D.  |       | O.D.  |       | Color  | Material | Bulk Pack Qty. |
|----------|---------------|-------|-------|-------|-------|-------|--------|----------|----------------|
|          | In            | mm    | In    | mm    | In    | mm    |        |          |                |
| W13A     | 0.700         | 17.78 | 1.040 | 26.42 | 1.141 | 28.98 | Yellow | LDPE     | 7000           |
| W13C     | 0.700         | 17.78 | 1.040 | 26.42 | 1.141 | 28.98 | Black  | TPE      | 6500           |
| W15A     | 0.828         | 21.03 | 1.165 | 29.59 | 1.266 | 32.16 | Yellow | LDPE     | 5000           |
| W15C     | 0.828         | 21.03 | 1.165 | 29.59 | 1.266 | 32.16 | Black  | TPE      | 5000           |
| W20A     | 1.050         | 26.67 | 1.300 | 33.02 | 1.400 | 35.56 | Yellow | LDPE     | 5000           |
| W20C     | 1.050         | 26.67 | 1.300 | 33.02 | 1.400 | 35.56 | Black  | TPE      | 5000           |

**GC Series**  
Grease Fitting Caps

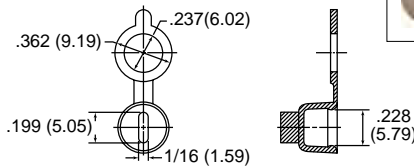


Specifications:

- Material: Low-Density Polyethylene
- Color: Red

Features:

- Designed to protect grease fittings from moisture or dirt
- Integral anchor strap keeps cap in place



| Item No. | Bulk Pack Qty. |
|----------|----------------|
| GC1A     | 5000           |

**LC Series**  
Lubrication Fitting Caps

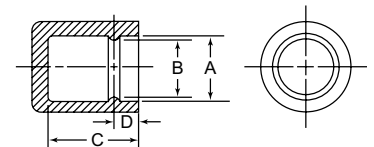


Specifications:

- Material: Soft Vinyl
- Color: Yellow

Features:

- Designed to protect lubrication fittings from dirt and moisture

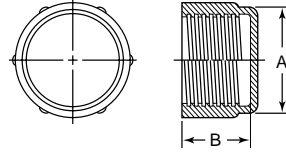


| Item No. | A     |      | B     |      | C     |      | D     |      | Bulk Pack Qty. |
|----------|-------|------|-------|------|-------|------|-------|------|----------------|
|          | In    | mm   | In    | mm   | In    | mm   | In    | mm   |                |
| LC392A   | 0.250 | 6.35 | 0.218 | 5.53 | 0.343 | 8.71 | 0.062 | 1.57 | 9000           |



# THREADED CAPS

## G Series UNF/JIC Threaded Caps for Flared/Flareless Fittings



### Specifications:

- Material: Low-Density Polyethylene
- Color: Blue

### Features:

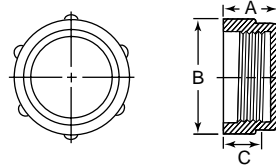
- Threaded cap with rolled threads allows you to thread or push on for easy application
- Protects flared and flareless fittings against dirt, dents and moisture

See pages 18 & 19 for Application Wizards.

| Item No. | UNF/JIC Thread Size | Tubing Size In | JIC Fitting Size | A     |       | B     |       | Bulk Pack Qty. |
|----------|---------------------|----------------|------------------|-------|-------|-------|-------|----------------|
|          |                     |                |                  | In    | mm    | In    | mm    |                |
| G1A      | 3/8"-24             | 3/16           | 3                | 0.437 | 11.11 | 0.469 | 11.91 | 5000           |
| G2A      | 7/16"-20            | 1/4            | 4                | 0.500 | 12.70 | 0.500 | 12.70 | 5000           |
| G3A      | 7/16"-24            | 1/4            | 4                | 0.500 | 12.70 | 0.313 | 7.94  | 4500           |
| G4A      | 1/2"-20             | 5/16           | 5                | 0.563 | 14.29 | 0.313 | 7.94  | 6500           |
| G5A      | 1/2"-20             | 5/16           | 5                | 0.563 | 14.29 | 0.500 | 12.70 | 4500           |
| G6A      | 1/2"-20             | —              | —                | 0.563 | 14.29 | 0.500 | 12.70 | 4250           |
| G7A      | 1/2"-20             | 5/16           | 5                | 0.563 | 14.29 | 0.875 | 22.23 | 5000           |
| G8A      | 9/16"-18            | 3/8            | 6                | 0.625 | 15.88 | 0.500 | 12.70 | 6500           |
| G9A      | 5/8"-18             | 3/8            | —                | 0.687 | 17.46 | 0.500 | 12.70 | 6000           |
| G11A     | 5/8"-18             | 3/8            | —                | 0.687 | 17.46 | 0.563 | 14.29 | 5000           |
| G12A     | 5/8"-18             | 3/8            | —                | 0.687 | 17.46 | 0.813 | 20.64 | 3500           |
| G13A     | 5/8"-24             | —              | —                | 0.687 | 17.46 | 0.375 | 9.53  | 4250           |
| G14A     | 3/4"-16             | 1/2            | 8                | 0.813 | 20.64 | 0.625 | 15.88 | 3500           |
| G15A     | 3/4"-18             | —              | —                | 0.813 | 20.64 | 0.906 | 23.02 | 2500           |

| Item No. | UNF/JIC Thread Size | Tubing Size In | JIC Fitting Size | A     |       | B     |       | Bulk Pack Qty. |
|----------|---------------------|----------------|------------------|-------|-------|-------|-------|----------------|
|          |                     |                |                  | In    | mm    | In    | mm    |                |
| G16A     | 3/4"-20             | —              | —                | 0.813 | 20.64 | 0.437 | 11.11 | 5000           |
| G17A     | 7/8"-14             | 5/8            | 10               | 0.937 | 23.81 | 0.719 | 18.26 | 2400           |
| G18A     | 7/8"-14             | 5/8            | 10               | 0.937 | 23.81 | 1.000 | 25.40 | 3500           |
| G19A     | 7/8"-18             | —              | —                | 0.937 | 23.81 | 0.437 | 11.11 | 3500           |
| G20A     | 7/8"-18             | —              | —                | 0.937 | 23.81 | 0.781 | 19.84 | 4500           |
| G21A     | 1"-14               | —              | —                | 1.063 | 26.99 | 0.781 | 19.84 | 3500           |
| G22A     | 1-1/16"-12          | 3/4            | 12               | 1.125 | 28.58 | 0.813 | 20.64 | 3000           |
| G23A     | 1-1/16"-14          | 3/4            | —                | 1.125 | 28.58 | 0.813 | 20.64 | 3000           |
| G24A     | 1-1/16"-16          | —              | —                | 1.125 | 28.58 | 1.000 | 25.40 | 2500           |
| G25A     | 1-3/16"-12          | 7/8            | 14               | 1.250 | 31.75 | 0.937 | 23.81 | 2000           |
| G26A     | 1-1/4"-18           | —              | —                | 1.375 | 34.93 | 0.469 | 11.91 | 3500           |
| G27A     | 1-5/16"-12          | 1              | 16               | 1.375 | 34.93 | 0.875 | 22.23 | 2000           |
| G30A     | 1-5/8"-12           | 1-1/4          | 20               | 1.750 | 44.45 | 0.906 | 23.02 | 1200           |

## TCUNF Series UNF/JIC Threaded Caps



### Specifications:

- Material: Low-Density Polyethylene
- Color: Red

### Features:

- Protects threaded components from dust, moisture and damage during production, storage and shipment
- Designed with an easy to grip head for ease of hand installation

| Item No. | To Cap UNF/JIC Thread Size | Tubing Size In | JIC Fitting Size | A     |       | B     |       | C     |       | Bulk Pack Qty. |
|----------|----------------------------|----------------|------------------|-------|-------|-------|-------|-------|-------|----------------|
|          |                            |                |                  | In    | mm    | In    | mm    | In    | mm    |                |
| 10251A   | 3/8" x 24                  | 3/16           | 3                | 0.327 | 8.30  | 0.433 | 11.00 | 0.157 | 4.00  | 5000           |
| 10332A   | 7/16" x 20                 | 1/4            | 4                | 0.508 | 12.90 | 0.524 | 13.30 | 0.315 | 8.00  | 5000           |
| 12652A   | 7/16" x 24                 | 1/4            | —                | 0.539 | 13.70 | 0.524 | 13.30 | 0.307 | 7.80  | 5000           |
| 10528A   | 1/2" x 20                  | 5/16           | 5                | 0.531 | 13.50 | 0.571 | 14.50 | 0.374 | 9.50  | 5000           |
| 11041A   | 9/16" x 18                 | 3/8            | 6                | 0.531 | 13.50 | 0.65  | 16.50 | 0.374 | 9.50  | 5000           |
| 10653A   | 5/8" x 18                  | 3/8            | —                | 0.614 | 15.60 | 0.717 | 18.20 | 0.295 | 7.50  | 5000           |
| 12847A   | 3/4" x 16                  | 1/2            | 8                | 0.543 | 13.80 | 0.854 | 21.70 | 0.374 | 9.50  | 4000           |
| 12825A   | 13/16" x 16                | —              | —                | 0.602 | 15.30 | 0.917 | 23.30 | 0.366 | 9.30  | 1250           |
| 11089A   | 7/8" x 14                  | 5/8            | 10               | 0.795 | 20.20 | 0.98  | 24.90 | 0.567 | 14.40 | 2500           |
| 12075A   | 7/8" x 18                  | —              | —                | 0.787 | 20.00 | 0.996 | 25.30 | 0.551 | 14.00 | 2500           |
| 12826A   | 1" x 14                    | —              | —                | 0.677 | 17.20 | 1.087 | 27.60 | 0.472 | 12.00 | 2500           |
| 10685A   | 1-1/16" x 12               | 3/4            | 12               | 0.748 | 19.00 | 1.157 | 29.40 | 0.433 | 11.00 | 2000           |
| 10163A   | 1-3/16" x 12               | 7/8            | 14               | 0.752 | 19.10 | 1.287 | 32.70 | 0.512 | 13.00 | 1500           |
| 10151A   | 1-5/16" x 12               | 1              | 16               | 0.874 | 22.20 | 1.433 | 36.40 | 0.571 | 14.50 | 1000           |
| 12654A   | 1-3/8" x 12                | —              | —                | 0.965 | 24.50 | 1.472 | 37.40 | 0.413 | 10.50 | 1000           |
| 10185A   | 1-7/16" x 12               | —              | —                | 0.854 | 21.70 | 1.531 | 38.90 | 0.598 | 15.20 | 1000           |
| 11053A   | 1-5/8" x 12                | 1-1/4          | 20               | 0.866 | 22.00 | 1.764 | 44.80 | 0.551 | 14.00 | 800            |
| 11804A   | 1-7/8" x 12                | 1-1/2          | 24               | 0.984 | 25.00 | 1.98  | 50.30 | 0.591 | 15.00 | 500            |

## TCMETRIC Series Metric Threaded Caps

| Item No. | To Cap Metric Thread Size | A     |       | B     |       | C     |       | Bulk Pack Qty. |
|----------|---------------------------|-------|-------|-------|-------|-------|-------|----------------|
|          |                           | In    | mm    | In    | mm    | In    | mm    |                |
| 12100A   | M8 x 1                    | 0.394 | 10.00 | 0.472 | 12.00 | 0.295 | 7.50  | 5000           |
| 12101A   | M10 x 1                   | 0.394 | 10.00 | 0.539 | 13.70 | 0.295 | 7.50  | 5000           |
| 12102A   | M12 x 1                   | 0.472 | 12.00 | 0.622 | 15.80 | 0.374 | 9.50  | 5000           |
| 12103A   | M12 x 1.5                 | 0.472 | 12.00 | 0.618 | 15.70 | 0.374 | 9.50  | 5000           |
| 12104A   | M14 x 1.5                 | 0.472 | 12.00 | 0.697 | 17.70 | 0.374 | 9.50  | 5000           |
| 12650A   | M14 x 1.5                 | 0.827 | 21.00 | 0.701 | 17.80 | 0.354 | 9.00  | 5000           |
| 12105A   | M16 x 1.5                 | 0.472 | 12.00 | 0.776 | 19.70 | 0.374 | 9.50  | 5000           |
| 12651A   | M16 x 1.5                 | 0.827 | 21.00 | 0.787 | 20.00 | 0.354 | 9.00  | 5000           |
| 12106A   | M18 x 1.5                 | 0.551 | 14.00 | 0.850 | 21.60 | 0.453 | 11.50 | 4000           |
| 12107A   | M20 x 1.5                 | 0.551 | 14.00 | 0.925 | 23.50 | 0.374 | 9.50  | 4000           |

| Item No. | To Cap Metric Thread Size | A     |       | B     |       | C     |       | Bulk Pack Qty. |
|----------|---------------------------|-------|-------|-------|-------|-------|-------|----------------|
|          |                           | In    | mm    | In    | mm    | In    | mm    |                |
| 12108A   | M22 x 1.5                 | 0.543 | 13.80 | 1.024 | 26.00 | 0.453 | 11.50 | 3000           |
| 12845A   | M22 x 1.5                 | 0.965 | 24.50 | 1.024 | 26.00 | 0.689 | 17.50 | 2500           |
| 12109A   | M24 x 1.5                 | 0.551 | 14.00 | 1.142 | 29.00 | 0.453 | 11.50 | 3000           |
| 12110A   | M25 x 1.5                 | 0.551 | 14.00 | 1.122 | 28.50 | 0.453 | 11.50 | 2000           |
| 12111A   | M26 x 1.5                 | 0.551 | 14.00 | 1.181 | 30.00 | 0.453 | 11.50 | 2000           |
| 12967A   | M28 x 1.5                 | 0.488 | 12.40 | 1.260 | 32.00 | 0.551 | 14.00 | 2000           |
| 12122A   | M30 x 2                   | 0.453 | 11.50 | 1.339 | 34.00 | 0.610 | 15.50 | 1500           |
| 12123A   | M36 x 2                   | 0.630 | 16.00 | 1.587 | 40.30 | 0.531 | 13.50 | 1500           |
| 12124A   | M42 x 2                   | 0.630 | 16.00 | 1.831 | 46.50 | 0.531 | 13.50 | 500            |
| 12126A   | M52 x 2                   | 0.630 | 16.00 | 2.224 | 56.50 | 0.531 | 13.50 | 500            |





**TSC Series**  
UNF/Metric Threaded Sealing Caps

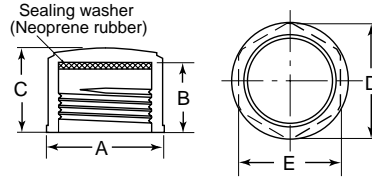


**Specifications:**

- High Density Polyethylene
- Color: Yellow

**Features:**

- This cap includes a neoprene sealing disk to limit fluid leakage
- The HDPE material reduces the potential of shearing
- The hexagonal head enables the cap to be applied or removed with a wrench or socket at low torques but it is recommended that you tighten them by hand.



**Unified Threads**

| Item No.   | To Cap Thread Size | A     |       | B     |       | C     |       | D     |       | E     |       | Bulk Pack Qty. |
|------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
|            |                    | In    | mm    | In    | mm    | In    | mm    | In    | mm    | In    | mm    |                |
| TSC467054A | 1/4" - 28          | 0.393 | 10.00 | 0.452 | 11.50 | 0.531 | 13.50 | 0.346 | 8.80  | 0.314 | 8.00  | 500            |
| TSC467055A | 3/8" - 24          | 0.511 | 13.00 | 0.492 | 12.50 | 0.570 | 14.50 | 0.476 | 12.10 | 0.433 | 11.00 | 500            |
| TSC467056A | 7/16" - 24         | 0.610 | 15.50 | 0.492 | 12.50 | 0.570 | 14.50 | 0.562 | 14.30 | 0.511 | 13.00 | 500            |
| TSC467057A | 7/16" - 20         | 0.610 | 15.50 | 0.511 | 13.00 | 0.590 | 15.00 | 0.562 | 14.30 | 0.511 | 13.00 | 500            |
| TSC467058A | 1/4" - 28          | 0.689 | 17.50 | 0.511 | 13.00 | 0.590 | 15.00 | 0.649 | 16.50 | 0.590 | 15.00 | 500            |
| TSC467059A | 9/16" - 18         | 0.728 | 18.50 | 0.531 | 13.50 | 0.610 | 15.50 | 0.688 | 17.50 | 0.629 | 16.00 | 500            |
| TSC467060A | 5/8" - 18          | 0.826 | 21.00 | 0.531 | 13.50 | 0.610 | 15.50 | 0.775 | 19.70 | 0.708 | 18.00 | 500            |
| TSC467061A | 3/4" - 16          | 0.944 | 24.00 | 0.570 | 14.50 | 0.649 | 16.50 | 0.905 | 23.00 | 0.826 | 21.00 | 500            |
| TSC467062A | 13/16" - 16        | 1.043 | 26.50 | 0.570 | 14.50 | 0.649 | 16.50 | 0.992 | 25.20 | 0.905 | 23.00 | 500            |
| TSC467063A | 7/8" - 18          | 1.082 | 27.50 | 0.531 | 13.50 | 0.610 | 15.50 | 1.035 | 26.30 | 0.944 | 24.00 | 500            |
| TSC467064A | 7/8" - 14          | 1.082 | 27.50 | 0.610 | 15.50 | 0.688 | 17.50 | 1.035 | 26.30 | 0.944 | 24.00 | 250            |
| TSC467065A | 1" - 14            | 1.220 | 31.00 | 0.610 | 15.50 | 0.688 | 17.50 | 1.165 | 29.60 | 1.062 | 27.00 | 250            |
| TSC467066A | 1-1/16" - 12       | 1.358 | 34.50 | 0.649 | 16.50 | 0.728 | 18.50 | 1.295 | 32.90 | 1.181 | 30.00 | 250            |
| TSC467067A | 1-3/16" - 12       | 1.437 | 36.50 | 0.649 | 16.50 | 0.728 | 18.50 | 1.381 | 35.10 | 1.259 | 32.00 | 250            |
| TSC467068A | 1-5/16" - 12       | 1.614 | 41.00 | 0.649 | 16.50 | 0.728 | 18.50 | 1.555 | 39.50 | 1.417 | 36.00 | 250            |
| TSC467069A | 1-3/8" - 12        | 1.692 | 43.00 | 0.649 | 16.50 | 0.728 | 18.50 | 1.641 | 41.70 | 1.496 | 38.00 | 250            |
| TSC467070A | 1-7/16" - 12       | 1.791 | 45.50 | 0.649 | 16.50 | 0.728 | 18.50 | 1.728 | 43.90 | 1.574 | 40.00 | 250            |
| TSC467071A | 1-5/8" - 12        | 2.007 | 51.00 | 0.649 | 16.50 | 0.748 | 19.00 | 1.944 | 49.40 | 1.771 | 45.00 | 100            |
| TSC467072A | 1-3/4" - 16        | 2.145 | 54.50 | 0.570 | 14.50 | 0.669 | 17.00 | 2.070 | 52.60 | 1.889 | 48.00 | 100            |
| TSC467073A | 1-7/8" - 12        | 2.322 | 59.00 | 0.649 | 16.50 | 0.748 | 19.00 | 2.244 | 57.00 | 2.047 | 52.00 | 100            |

**Metric Threads**

| Item No.   | To Cap Thread Size | A     |       | B     |       | C     |       | D     |       | E     |       | Bulk Pack Qty. |
|------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
|            |                    | In    | mm    | In    | mm    | In    | mm    | In    | mm    | In    | mm    |                |
| TSC467033A | M8 x 1             | 0.472 | 12.00 | 0.433 | 11.00 | 0.511 | 13.00 | 0.433 | 11.00 | 0.393 | 10.00 | 500            |
| TSC467034A | M10 x 1            | 0.559 | 14.20 | 0.433 | 11.00 | 0.511 | 13.00 | 0.519 | 13.20 | 0.472 | 12.00 | 500            |
| TSC467035A | M12 x 1            | 0.649 | 16.50 | 0.433 | 11.00 | 0.511 | 13.00 | 0.606 | 15.40 | 0.551 | 14.00 | 500            |
| TSC467036A | M12 x 1.5          | 0.649 | 16.50 | 0.511 | 13.00 | 0.590 | 15.00 | 0.606 | 15.40 | 0.551 | 14.00 | 500            |
| TSC467037A | M14 x 1.5          | 0.728 | 18.50 | 0.511 | 13.00 | 0.590 | 15.00 | 0.689 | 17.50 | 0.629 | 16.00 | 500            |
| TSC467038A | M16 x 1.5          | 0.826 | 21.00 | 0.511 | 13.00 | 0.590 | 15.00 | 0.775 | 19.70 | 0.708 | 18.00 | 500            |
| TSC467039A | M18 x 1.5          | 0.905 | 23.00 | 0.511 | 13.00 | 0.590 | 15.00 | 0.862 | 21.90 | 0.787 | 20.00 | 500            |
| TSC467040A | M20 x 1.5          | 0.984 | 25.00 | 0.511 | 13.00 | 0.590 | 15.00 | 0.948 | 24.10 | 0.866 | 22.00 | 500            |
| TSC467041A | M22 x 1.5          | 1.082 | 27.50 | 0.511 | 13.00 | 0.590 | 15.00 | 1.035 | 26.30 | 0.944 | 24.00 | 250            |
| TSC467042A | M24 x 1.5          | 1.181 | 30.00 | 0.511 | 13.00 | 0.590 | 15.00 | 1.122 | 28.50 | 1.023 | 26.00 | 250            |
| TSC467043A | M25 x 1.5          | 1.220 | 31.00 | 0.511 | 13.00 | 0.590 | 15.00 | 1.165 | 29.60 | 1.063 | 27.00 | 250            |
| TSC467044A | M26 x 1.5          | 1.259 | 32.00 | 0.511 | 13.00 | 0.590 | 15.00 | 1.208 | 30.70 | 1.102 | 28.00 | 250            |
| TSC467045A | M28 x 1.5          | 1.338 | 34.00 | 0.511 | 13.00 | 0.590 | 15.00 | 1.295 | 32.90 | 1.181 | 30.00 | 250            |
| TSC467046A | M30 x 1.5          | 1.437 | 36.50 | 0.511 | 13.00 | 0.590 | 15.00 | 1.381 | 35.10 | 1.259 | 32.00 | 250            |
| TSC467047A | M30 x 2            | 1.437 | 36.50 | 0.590 | 15.00 | 0.669 | 17.00 | 1.381 | 35.10 | 1.259 | 32.00 | 250            |
| TSC467048A | M36 x 1.5          | 1.752 | 44.50 | 0.551 | 14.00 | 0.629 | 16.00 | 1.685 | 42.80 | 1.535 | 39.00 | 100            |
| TSC467049A | M36 x 2            | 1.752 | 44.50 | 0.629 | 16.00 | 0.708 | 18.00 | 1.685 | 42.80 | 1.535 | 39.00 | 100            |
| TSC467050A | M42 x 2            | 2.007 | 51.00 | 0.629 | 16.00 | 0.728 | 18.50 | 1.944 | 49.40 | 1.771 | 45.00 | 100            |
| TSC467051A | M45 x 1.5          | 2.145 | 54.50 | 0.551 | 14.00 | 0.649 | 16.50 | 2.070 | 52.60 | 1.889 | 48.00 | 100            |
| TSC467052A | M45 x 2            | 2.145 | 54.50 | 0.629 | 16.00 | 0.728 | 18.50 | 2.070 | 52.60 | 1.889 | 48.00 | 100            |
| TSC467053A | M52 x 2            | 2.440 | 62.00 | 0.629 | 16.00 | 0.728 | 18.50 | 2.374 | 60.30 | 2.165 | 55.00 | 100            |

**DC Series**

UNJ/UNJS Threaded Caps

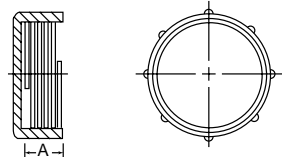


**Specifications:**

- Material: High-Density Polyethylene
- Color: Black

**Features:**

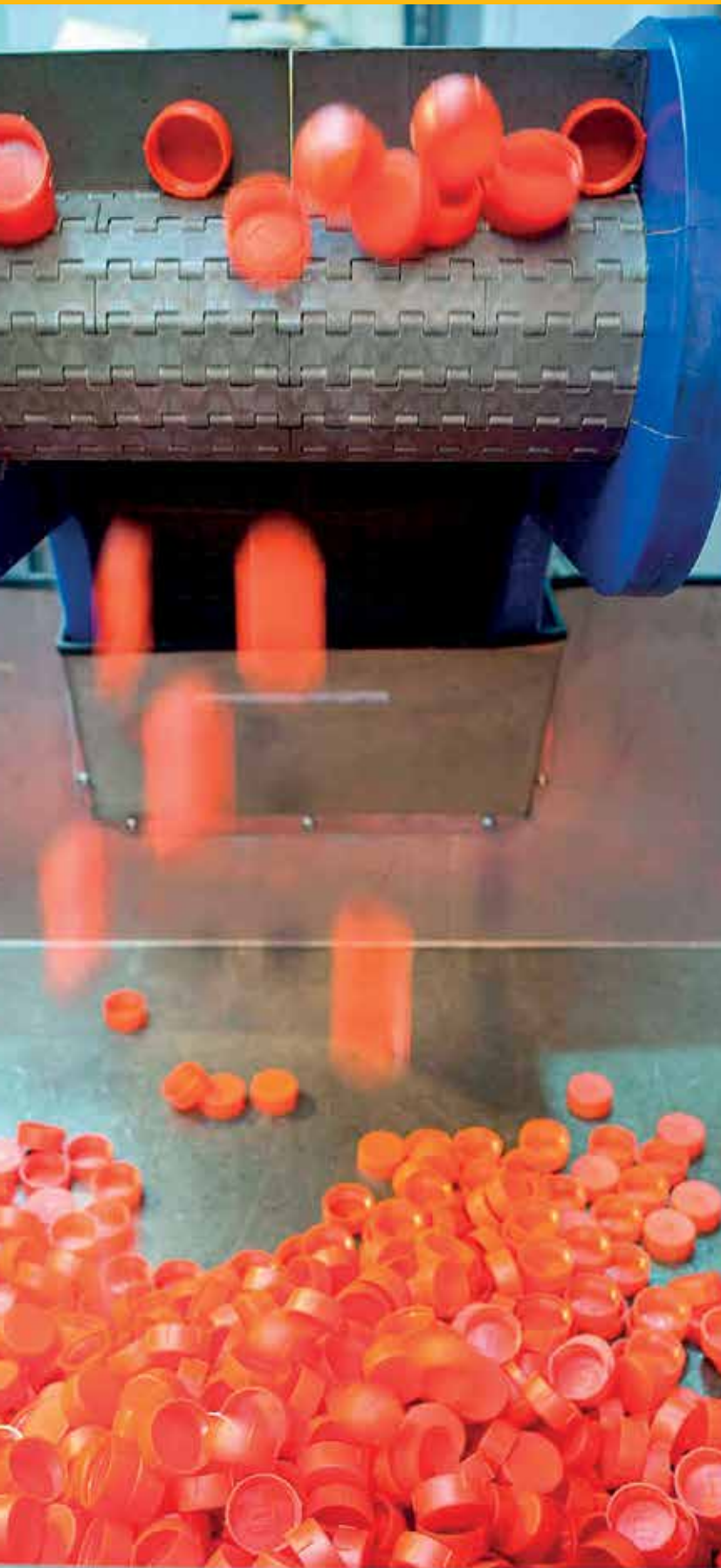
- Protects threaded components from dust, moisture and damage during production, storage and shipment
- Designed with an easy to grip head for ease of hand installation
- Threads meet UNJ and UNJS specifications



| Item No. | To Cap UNJ/UNJS Thread Size | Tubing Size In | A     |      | Bulk Pack Qty. |
|----------|-----------------------------|----------------|-------|------|----------------|
|          |                             |                | In    | mm   |                |
| DC3A     | 3/8"-28                     | 3/16           | 0.200 | 5.08 | 5000           |
| DC4A     | 7/16"-24                    | 1/4            | 0.240 | 6.1  | 5000           |
| DC5A     | 1/2"-24                     | 5/16           | 0.240 | 6.1  | 5000           |
| DC6A     | 9/16"-20                    | 3/8            | 0.260 | 6.6  | 5000           |
| DC8A     | 23/32"-20                   | 1/2            | 0.270 | 6.86 | 5000           |
| DC10A    | 27/32"-18                   | 5/8            | 0.340 | 8.64 | 5000           |
| DC12A    | 1"-16                       | 3/4            | 0.380 | 9.65 | 2500           |

| Item No. | To Cap UNJ/UNJS Thread Size | Tubing Size In | A     |       | Bulk Pack Qty. |
|----------|-----------------------------|----------------|-------|-------|----------------|
|          |                             |                | In    | mm    |                |
| DC14A    | 1-1/8"-16                   | 7/8            | 0.400 | 10.16 | 2500           |
| DC16A    | 1-1/4"-14                   | 1              | 0.430 | 10.92 | 2000           |
| DC20A    | 1-3/64"-14                  | 1-1/4          | 0.430 | 10.92 | 1500           |
| DC21SA   | 1-37/64"-14                 | 1-1/4          | 0.430 | 10.92 | 1500           |
| DC24A    | 1-25/32"-14                 | 1-1/2          | 0.500 | 12.70 | 1000           |
| DC25SA   | 1-27/32"-14                 | 1-1/2          | 0.500 | 12.70 | 1000           |

# MANUFACTURING EXPERTISE



69

facilities

Our network includes **69** principal manufacturing **facilities**

Essentra products protect hoses and fittings against contamination and damage. Thousands of our standard products are complemented by additional capabilities for custom solutions.

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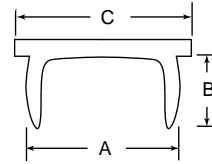
**BP Series  
Barrel Plugs**

**Specifications:**

- Material: Low-Density Polyethylene
- Color: Natural

**Features:**

- General purpose plug for a wide range of applications
- Quick to fit and remove
- Convexed sides to ensure secure fit
- BP1012A has a domed head and parallel shank



See pages 18 & 19 for Application Wizards.

| Item No. | A     |        | B     |       | C     |        | Bulk Pack Qty. |
|----------|-------|--------|-------|-------|-------|--------|----------------|
|          | PVC   | In     | mm    | In    | mm    | In     |                |
| BP1000A  | 0.083 | 2.10   | 0.276 | 7.00  | 0.138 | 3.50   | 1000           |
| BP1002A  | 0.102 | 2.60   | 0.157 | 4.00  | 0.472 | 12.00  | 1000           |
| BP1004A  | 0.106 | 2.70   | 0.236 | 6.00  | 0.472 | 12.00  | 1000           |
| BP1006A  | 0.130 | 3.30   | 0.236 | 6.00  | 0.472 | 12.00  | 1000           |
| BP1008A  | 0.173 | 4.40   | 0.205 | 5.20  | 0.354 | 9.00   | 1000           |
| BP1010A  | 0.181 | 4.60   | 0.197 | 5.00  | 0.276 | 7.00   | 1000           |
| BP1012A  | 0.213 | 5.40   | 0.295 | 7.50  | 0.472 | 12.00  | 10000          |
| BP1014A  | 0.248 | 6.30   | 0.157 | 4.00  | 0.378 | 9.60   | 1000           |
| BP1018A  | 0.287 | 7.30   | 0.236 | 6.00  | 0.551 | 14.00  | 10000          |
| BP1020A  | 0.331 | 8.40   | 0.236 | 6.00  | 0.551 | 14.00  | 10000          |
| BP1022A  | 0.346 | 8.80   | 0.315 | 8.00  | 0.453 | 11.50  | 500            |
| BP1024A  | 0.366 | 9.30   | 0.354 | 9.00  | 0.472 | 12.00  | 500            |
| BP1026A  | 0.366 | 9.30   | 0.177 | 4.50  | 0.551 | 14.00  | 6000           |
| BP1028A  | 0.366 | 9.30   | 0.268 | 6.80  | 0.630 | 16.00  | 6000           |
| BP1030A  | 0.394 | 10.00  | 0.157 | 4.00  | 0.472 | 12.00  | 500            |
| BP1032A  | 0.394 | 10.00  | 0.354 | 9.00  | 0.591 | 15.00  | 500            |
| BP1034A  | 0.421 | 10.70  | 0.217 | 5.50  | 0.551 | 14.00  | 6000           |
| BP1036A  | 0.421 | 10.70  | 0.354 | 9.00  | 0.583 | 14.80  | 500            |
| BP1038A  | 0.445 | 11.30  | 0.217 | 5.50  | 0.567 | 14.40  | 1000           |
| BP1040A  | 0.469 | 11.90  | 0.276 | 7.00  | 0.630 | 16.00  | 5000           |
| BP1042A  | 0.484 | 12.30  | 0.276 | 7.00  | 0.630 | 16.00  | 5000           |
| BP1044A  | 0.504 | 12.80  | 0.307 | 7.80  | 0.787 | 20.00  | 5000           |
| BP1046A  | 0.539 | 13.70  | 0.276 | 7.00  | 0.736 | 18.70  | 1000           |
| 12787A   | 0.539 | 13.70  | 0.315 | 8.00  | 0.787 | 20.00  | 5000           |
| BP1050A  | 0.551 | 14.00  | 0.276 | 7.00  | 0.736 | 18.70  | 1000           |
| BP1052A  | 0.571 | 14.50  | 0.217 | 5.50  | 0.787 | 20.00  | 5000           |
| BP1054A  | 0.575 | 14.60  | 0.374 | 9.50  | 0.728 | 18.50  | 500            |
| BP1056A  | 0.591 | 15.00  | 0.276 | 7.00  | 0.736 | 18.70  | 1000           |
| BP1058A  | 0.614 | 15.60  | 0.315 | 8.00  | 0.787 | 20.00  | 5000           |
| BP1060A  | 0.650 | 16.50  | 0.276 | 7.00  | 0.736 | 18.70  | 1000           |
| 12790A   | 0.669 | 17.00  | 0.323 | 8.20  | 0.866 | 22.00  | 5000           |
| BP1064A  | 0.701 | 17.80  | 0.354 | 9.00  | 0.969 | 24.60  | 1000           |
| BP1066A  | 0.724 | 18.40  | 0.315 | 8.00  | 0.984 | 25.00  | 5000           |
| BP1068A  | 0.740 | 18.80  | 0.354 | 9.00  | 0.846 | 21.50  | 500            |
| 12792B   | 0.760 | 19.30  | 0.315 | 8.00  | 0.984 | 25.00  | 5000           |
| BP1072A  | 0.768 | 19.50  | 0.354 | 9.00  | 0.969 | 24.60  | 1000           |
| BP1074A  | 0.791 | 20.10  | 0.354 | 9.00  | 0.969 | 24.60  | 500            |
| BP1076A  | 0.807 | 20.50  | 0.354 | 9.00  | 1.004 | 25.50  | 250            |
| BP1078A  | 0.807 | 20.50  | 0.421 | 10.70 | 1.181 | 30.00  | 3000           |
| BP1080A  | 0.827 | 21.00  | 0.512 | 13.00 | 1.024 | 26.00  | 250            |
| BP1082A  | 0.835 | 21.20  | 0.295 | 7.50  | 0.984 | 25.00  | 5000           |
| BP1084A  | 0.854 | 21.70  | 0.315 | 8.00  | 0.984 | 25.00  | 4000           |
| BP1086A  | 0.882 | 22.40  | 0.354 | 9.00  | 1.102 | 28.00  | 4000           |
| BP1088A  | 0.906 | 23.00  | 0.760 | 19.30 | 1.079 | 27.40  | 100            |
| BP1090A  | 0.921 | 23.40  | 0.118 | 3.00  | 1.102 | 28.00  | 4000           |
| BP1092A  | 0.945 | 24.00  | 0.504 | 12.80 | 1.063 | 27.00  | 100            |
| BP1094A  | 0.969 | 24.60  | 0.354 | 9.00  | 1.102 | 28.00  | 3000           |
| BP1096A  | 0.976 | 24.80  | 0.236 | 6.00  | 1.240 | 31.50  | 100            |
| BP1098A  | 0.984 | 25.00  | 0.512 | 13.00 | 1.260 | 32.00  | 100            |
| BP1100A  | 1.004 | 25.50  | 0.295 | 7.50  | 1.102 | 28.00  | 3000           |
| BP1102A  | 1.043 | 26.50  | 0.354 | 9.00  | 1.102 | 28.00  | 4000           |
| BP1104A  | 1.063 | 27.00  | 0.591 | 15.00 | 1.165 | 29.60  | 100            |
| BP1106A  | 1.083 | 27.50  | 0.472 | 12.00 | 1.370 | 34.80  | 500            |
| BP1108A  | 1.126 | 28.60  | 0.591 | 15.00 | 1.339 | 34.00  | 100            |
| BP1110A  | 1.142 | 29.00  | 0.472 | 12.00 | 1.417 | 36.00  | 3000           |
| BP1112A  | 1.201 | 30.50  | 0.472 | 12.00 | 1.417 | 36.00  | 2500           |
| BP1114A  | 1.252 | 31.80  | 0.394 | 10.00 | 1.417 | 36.00  | 2000           |
| BP1116A  | 1.283 | 32.60  | 0.472 | 12.00 | 1.370 | 34.80  | 500            |
| BP1118A  | 1.319 | 33.50  | 0.472 | 12.00 | 1.417 | 36.00  | 2000           |
| BP1120A  | 1.319 | 33.50  | 0.472 | 12.00 | 1.614 | 41.00  | 100            |
| BP1122A  | 1.370 | 34.80  | 0.591 | 15.00 | 1.654 | 42.00  | 2000           |
| BP1124A  | 1.398 | 35.50  | 0.591 | 15.00 | 1.831 | 46.50  | 100            |
| BP1126A  | 1.437 | 36.50  | 0.591 | 15.00 | 1.654 | 42.00  | 1500           |
| BP1128A  | 1.480 | 37.60  | 0.472 | 12.00 | 1.591 | 40.40  | 500            |
| BP1130A  | 1.512 | 38.40  | 0.591 | 15.00 | 1.654 | 42.00  | 2000           |
| BP1132A  | 1.535 | 39.00  | 0.630 | 16.00 | 1.941 | 49.30  | 500            |
| BP1134A  | 1.598 | 40.60  | 0.591 | 15.00 | 1.732 | 44.00  | 1000           |
| BP1136A  | 1.665 | 42.30  | 0.591 | 15.00 | 1.890 | 48.00  | 1000           |
| BP1138A  | 1.705 | 43.30  | 0.591 | 15.00 | 1.988 | 50.50  | 100            |
| BP1140A  | 1.811 | 46.00  | 0.709 | 18.00 | 2.165 | 55.00  | 1500           |
| BP1142A  | 1.988 | 50.50  | 0.551 | 14.00 | 2.244 | 57.00  | 100            |
| BP1144A  | 2.028 | 51.50  | 0.709 | 18.00 | 2.165 | 55.00  | 1500           |
| BP1146A  | 2.067 | 52.50  | 0.551 | 14.00 | 2.362 | 60.00  | 100            |
| BP1148A  | 2.130 | 54.10  | 0.709 | 18.00 | 2.311 | 58.70  | 500            |
| BP1150A  | 2.177 | 55.30  | 0.768 | 19.50 | 2.343 | 59.50  | 100            |
| BP1152A  | 2.283 | 58.00  | 0.709 | 18.00 | 2.520 | 64.00  | 750            |
| BP1154A  | 2.346 | 59.60  | 0.709 | 18.00 | 2.894 | 73.50  | 500            |
| BP1156A  | 2.756 | 70.00  | 0.709 | 18.00 | 3.071 | 78.00  | 500            |
| BP1158A  | 2.902 | 73.70  | 0.685 | 17.40 | 3.240 | 82.30  | 500            |
| BP1160A  | 3.181 | 80.80  | 0.685 | 17.40 | 3.642 | 92.50  | 250            |
| BP1162A  | 3.346 | 85.00  | 0.709 | 18.00 | 3.681 | 93.50  | 50             |
| BP1164A  | 3.406 | 86.50  | 0.685 | 17.40 | 3.909 | 99.30  | 250            |
| BP1166A  | 3.890 | 98.80  | 0.685 | 17.40 | 4.409 | 112.00 | 250            |
| BP1168A  | 4.350 | 110.50 | 0.709 | 18.00 | 5.118 | 130.00 | 50             |
| BP1170A  | 4.398 | 111.70 | 0.685 | 17.40 | 4.843 | 123.00 | 250            |



# PUSH-FIT PLUGS

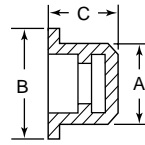
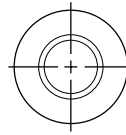
## FT Series PVC & TPR Plugs

### Specifications:

- Materials: PVC or Thermoplastic Rubber
- Color: Black

### Features:

- Highly resistant to shredding
- Ideal for threaded applications
- Thermoplastic rubber is recommended for use wherever resistance to acid is required



| Item No. |        | A     |       | B     |       | C     |       | Bulk Pack Qty. |       |
|----------|--------|-------|-------|-------|-------|-------|-------|----------------|-------|
| PVC      | TPR    | In    | mm    | In    | mm    | In    | mm    | PVC            | TPR   |
| 10874A   | 18071B | 0.125 | 3.20  | 0.276 | 7.00  | 0.354 | 9.00  | 10000          | 10000 |
| 12665A   | 12049B | 0.197 | 5.00  | 0.433 | 11.00 | 0.471 | 11.99 | 10000          | 10000 |
| 12666A   | 12050B | 0.236 | 5.99  | 0.472 | 11.99 | 0.471 | 11.99 | 10000          | 10000 |
| 12667A   | 12051B | 0.275 | 6.99  | 0.511 | 12.98 | 0.471 | 11.99 | 10000          | 10000 |
| 12668A   | 12052B | 0.315 | 8.00  | 0.551 | 14.00 | 0.471 | 11.99 | 10000          | 10000 |
| 12669A   | 12053B | 0.354 | 8.99  | 0.580 | 14.99 | 0.471 | 11.99 | 10000          | 10000 |
| 12670A   | 12054B | 0.393 | 9.98  | 0.629 | 15.98 | 0.471 | 11.99 | 10000          | 10000 |
| 12671A   | 12055B | 0.433 | 11.00 | 0.669 | 16.99 | 0.471 | 11.99 | 10000          | 10000 |
| 12672A   | 12056B | 0.472 | 11.99 | 0.787 | 19.99 | 0.471 | 11.99 | 8000           | 8000  |
| 12673A   | 12057B | 0.511 | 12.98 | 0.826 | 20.98 | 0.551 | 14.00 | 8000           | 8000  |
| 12674A   | 12058B | 0.551 | 14.00 | 0.866 | 22.00 | 0.551 | 14.00 | 7000           | 6000  |
| 12675A   | 12059B | 0.580 | 14.99 | 0.905 | 22.99 | 0.571 | 14.50 | 5000           | 6000  |
| 12677A   | 12060B | 0.630 | 16.00 | 0.945 | 24.00 | 0.551 | 14.00 | 6000           | 6000  |
| 12678A   | FLP17A | 0.669 | 17.00 | 1.063 | 27.00 | 0.531 | 13.50 | 5000           | 4000  |
| 12679A   | 12062B | 0.709 | 18.01 | 1.102 | 27.99 | 0.551 | 14.00 | 4000           | 4000  |
| 12680A   | 12063B | 0.748 | 19.00 | 1.142 | 29.01 | 0.551 | 14.00 | 2000           | 4000  |
| 12681A   | 12064B | 0.787 | 19.99 | 1.181 | 30.00 | 0.551 | 14.00 | 2000           | 4000  |
| 12683A   | 12065B | 0.827 | 21.01 | 1.220 | 30.99 | 0.551 | 14.00 | 2500           | 3000  |
| 12684A   | FLP21A | 0.879 | 22.33 | 1.260 | 32.00 | 0.551 | 14.00 | 3000           | 2500  |
| 12685A   | 12067B | 0.906 | 23.01 | 1.299 | 32.99 | 0.630 | 16.00 | 1500           | 3000  |
| 12686A   | 12068B | 0.945 | 24.00 | 1.339 | 34.01 | 0.630 | 16.00 | 2500           | 2500  |
| 12687A   | 12069B | 0.984 | 24.99 | 1.378 | 35.00 | 0.630 | 16.00 | 2000           | 2000  |
| 12688A   | 12070B | 1.024 | 26.01 | 1.417 | 35.99 | 0.630 | 16.00 | 2000           | 2000  |
| 12689A   | 12071B | 1.063 | 27.00 | 1.457 | 37.01 | 0.630 | 16.00 | 2000           | 2000  |
| 12690A   | 12072B | 1.102 | 27.99 | 1.496 | 38.00 | 0.630 | 16.00 | 2000           | 2000  |
| 12691A   | 12073B | 1.142 | 29.01 | 1.535 | 38.99 | 0.630 | 16.00 | 1300           | 1300  |
| 12692A   | FLP30A | 1.190 | 30.23 | 1.400 | 35.56 | 0.630 | 16.00 | 1000           | 1500  |
| 12693A   | 12501B | 1.575 | 40.01 | 1.969 | 50.01 | 0.866 | 22.00 | 500            | 700   |
| 12694A   | 12502B | 1.850 | 46.99 | 2.244 | 57.00 | 0.866 | 22.00 | 500            | 500   |

## CP Series Center Pull Tab Plugs

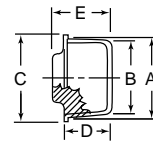
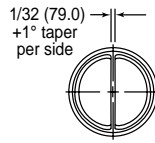


### Specifications:

- Material: Low-Density Polyethylene
- Color: Orange

### Features:

- The integral center pull tab feature is designed for quick and easy removal
- The tapered design allows the part to plug multiple inner diameters



### To Assure Proper Fit:



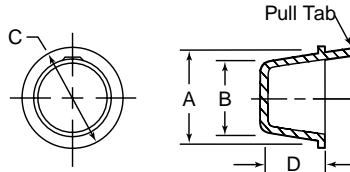
Plug dimension "A" should be approx. 1% larger than the inner diameter of the part. Minimum of .020"



| Item No. | A     |       | B     |       | C     |       | D     |       | E     |       | Bulk Pack Qty. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
|          | In    | mm    | In    | mm    | In    | mm    | In    | mm    | In    | mm    |                |
| CP4A     | 0.269 | 6.83  | 0.209 | 5.31  | 0.380 | 9.65  | 0.340 | 8.64  | 0.590 | 14.99 | 5000           |
| CP5A     | 0.303 | 7.69  | 0.239 | 6.07  | 0.469 | 11.91 | 0.370 | 9.39  | 0.630 | 16.00 | 5000           |
| CP6A     | 0.335 | 8.51  | 0.267 | 6.78  | 0.469 | 11.91 | 0.406 | 10.32 | 0.625 | 15.88 | 5000           |
| CP7A     | 0.370 | 9.40  | 0.302 | 7.67  | 0.531 | 13.49 | 0.375 | 9.53  | 0.750 | 19.05 | 5000           |
| CP8A     | 0.396 | 10.06 | 0.330 | 8.38  | 0.530 | 13.46 | 0.410 | 10.41 | 0.790 | 20.07 | 5000           |
| CP9A     | 0.428 | 10.87 | 0.362 | 9.19  | 0.594 | 15.08 | 0.375 | 9.53  | 0.750 | 19.05 | 7000           |
| CP10A    | 0.463 | 11.76 | 0.402 | 10.21 | 0.625 | 15.88 | 0.375 | 9.53  | 0.750 | 19.05 | 6000           |
| CP11A    | 0.486 | 12.34 | 0.422 | 10.72 | 0.625 | 15.88 | 0.406 | 10.32 | 0.781 | 19.84 | 5500           |
| CP12A    | 0.512 | 13.00 | 0.448 | 11.38 | 0.656 | 16.67 | 0.406 | 10.32 | 0.563 | 14.29 | 5000           |
| CP13A    | 0.548 | 13.92 | 0.471 | 11.96 | 0.690 | 17.53 | 0.470 | 11.94 | 0.850 | 21.59 | 5000           |
| CP14A    | 0.568 | 14.43 | 0.500 | 12.70 | 0.719 | 18.26 | 0.469 | 11.91 | 0.813 | 20.64 | 7500           |
| CP15B    | 0.608 | 15.44 | 0.532 | 13.51 | 0.750 | 19.05 | 0.470 | 11.94 | 0.780 | 19.81 | 6000           |
| CP16A    | 0.633 | 16.08 | 0.551 | 14.00 | 0.780 | 19.81 | 0.500 | 12.70 | 0.750 | 19.05 | 5000           |
| CP18A    | 0.668 | 16.97 | 0.580 | 14.73 | 0.813 | 20.64 | 0.531 | 13.49 | 0.750 | 19.05 | 5500           |
| CP19A    | 0.695 | 17.65 | 0.610 | 15.49 | 0.840 | 21.34 | 0.530 | 13.46 | 0.780 | 19.81 | 5000           |
| CP20A    | 0.787 | 19.99 | 0.691 | 17.55 | 0.938 | 23.81 | 0.594 | 15.08 | 0.750 | 19.05 | 3500           |
| CP24A    | 0.825 | 20.96 | 0.727 | 18.47 | 1.000 | 25.40 | 0.590 | 14.99 | 0.840 | 21.34 | 5000           |
| CP29A    | 0.933 | 23.70 | 0.819 | 20.80 | 1.125 | 28.58 | 0.750 | 19.05 | 1.000 | 25.40 | 4000           |
| CP31A    | 0.973 | 24.71 | 0.869 | 22.07 | 1.120 | 28.45 | 0.750 | 19.05 | 1.000 | 25.40 | 4000           |
| CP35A    | 1.074 | 27.28 | 0.935 | 23.75 | 1.156 | 29.37 | 0.750 | 19.05 | 0.938 | 23.81 | 3500           |
| CP37A    | 1.092 | 27.74 | 0.967 | 24.56 | 1.250 | 31.75 | 0.780 | 19.81 | 1.030 | 26.16 | 2500           |
| CP40A    | 1.146 | 29.11 | 1.026 | 26.06 | 1.340 | 34.04 | 0.750 | 19.05 | 1.000 | 25.40 | 2500           |
| CP42A    | 1.219 | 30.96 | 1.093 | 27.76 | 1.410 | 35.81 | 0.780 | 19.81 | 1.000 | 25.40 | 2500           |
| CP44A    | 1.286 | 32.66 | 1.150 | 29.21 | 1.550 | 39.37 | 0.750 | 19.05 | 1.000 | 25.40 | 2000           |
| CP46A    | 1.360 | 34.54 | 1.235 | 31.37 | 1.530 | 38.86 | 0.750 | 19.05 | 1.000 | 25.40 | 2000           |
| CP47A    | 1.356 | 33.22 | 1.292 | 32.82 | 1.500 | 38.10 | 0.781 | 19.84 | 1.000 | 25.40 | 1800           |
| CP49A    | 1.465 | 37.21 | 1.312 | 33.32 | 1.620 | 41.15 | 0.750 | 19.05 | 1.000 | 25.40 | 1800           |
| CP51A    | 1.527 | 38.79 | 1.344 | 34.14 | 1.750 | 44.45 | 0.880 | 22.35 | 1.000 | 25.40 | 1500           |
| CP55A    | 1.601 | 40.67 | 1.451 | 36.86 | 1.750 | 44.45 | 0.750 | 19.05 | 1.000 | 25.40 | 1500           |
| CP56A    | 1.735 | 44.07 | 1.615 | 41.02 | 1.906 | 48.42 | 0.719 | 18.26 | 1.125 | 28.58 | 1000           |
| CP59A    | 1.835 | 46.61 | 1.820 | 46.23 | 2.031 | 51.59 | 0.500 | 12.70 | 0.750 | 19.05 | 1500           |
| CP57A    | 1.938 | 49.23 | 1.807 | 45.90 | 2.160 | 54.86 | 1.000 | 25.40 | 1.250 | 31.75 | 1000           |
| CP61A    | 2.243 | 56.97 | 2.067 | 52.50 | 2.440 | 61.98 | 1.030 | 26.16 | 1.250 | 31.75 | 1000           |
| CP63A    | 2.270 | 57.66 | 2.230 | 56.64 | 2.530 | 64.26 | 0.500 | 12.70 | 0.750 | 19.05 | 1000           |
| CP65A    | 2.464 | 62.59 | 2.300 | 58.42 | 2.660 | 67.56 | 1.000 | 25.40 | 1.250 | 31.75 | 500            |
| CP71A    | 3.452 | 87.68 | 3.320 | 84.33 | 3.620 | 91.95 | 0.750 | 19.05 | 1.000 | 25.40 | 200            |



**P Series  
Side Pull Tab Plugs**



**Specifications:**

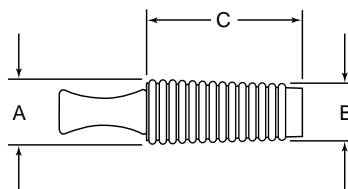
- Material: Low-Density Polyethylene
- Color: Blue

**Features:**

- The integral side pull tab feature is designed for easy removal in awkward locations
- The tapered design allows the part to plug multiple inner diameters

| Item No. | Use as a Plug |       |       |       |       |       |       |       | Bulk Pack Qty. |
|----------|---------------|-------|-------|-------|-------|-------|-------|-------|----------------|
|          | A             |       | B     |       | C     |       | D     |       |                |
|          | In            | mm    | In    | mm    | In    | mm    | In    | mm    |                |
| P7A      | 0.365         | 9.27  | 0.300 | 7.62  | 0.531 | 13.49 | 0.375 | 9.53  | 5000           |
| P8A      | 0.398         | 10.11 | 0.330 | 8.38  | 0.563 | 14.30 | 0.375 | 9.53  | 5000           |
| P11A     | 0.485         | 12.32 | 0.420 | 10.67 | 0.594 | 15.08 | 0.375 | 9.53  | 5000           |
| P13A     | 0.548         | 13.92 | 0.471 | 11.96 | 0.690 | 17.53 | 0.470 | 11.94 | 5000           |
| P16A     | 0.623         | 15.82 | 0.531 | 13.49 | 0.750 | 19.05 | 0.500 | 12.70 | 7000           |
| P17A     | 0.634         | 16.10 | 0.550 | 13.97 | 0.781 | 19.84 | 0.500 | 12.70 | 7000           |
| P18A     | 0.668         | 16.97 | 0.580 | 14.73 | 0.810 | 20.57 | 0.530 | 13.46 | 5000           |
| P20A     | 0.729         | 18.52 | 0.640 | 16.26 | 0.880 | 22.35 | 0.500 | 12.70 | 5000           |
| P23A     | 0.785         | 19.94 | 0.690 | 17.53 | 0.937 | 23.81 | 0.625 | 15.88 | 3500           |
| P24A     | 0.805         | 20.44 | 0.717 | 18.21 | 0.937 | 23.81 | 0.625 | 15.88 | 5000           |
| P26A     | 0.912         | 23.16 | 0.802 | 20.37 | 1.060 | 26.92 | 0.650 | 16.51 | 5000           |
| P27A     | 0.933         | 23.70 | 0.815 | 20.70 | 1.120 | 28.45 | 0.620 | 15.75 | 5000           |
| P31A     | 0.975         | 24.77 | 0.870 | 22.10 | 1.125 | 28.58 | 0.625 | 15.88 | 2500           |
| P33A     | 1.040         | 26.42 | 0.915 | 23.24 | 1.160 | 29.46 | 0.720 | 18.29 | 5000           |
| P40A     | 1.090         | 27.69 | 0.964 | 24.49 | 1.250 | 31.75 | 0.780 | 19.81 | 3000           |
| P41A     | 1.145         | 29.08 | 0.995 | 25.27 | 1.310 | 33.27 | 0.780 | 19.81 | 2500           |
| P42A     | 1.230         | 31.24 | 1.110 | 28.19 | 1.516 | 38.50 | 0.750 | 19.05 | 2500           |
| P44A     | 1.275         | 32.39 | 1.165 | 29.59 | 1.405 | 35.69 | 0.750 | 19.05 | 2500           |
| P46A     | 1.360         | 34.54 | 1.233 | 31.32 | 1.500 | 38.10 | 0.840 | 21.34 | 2500           |
| P53A     | 1.600         | 40.64 | 1.450 | 36.83 | 1.750 | 44.45 | 0.750 | 19.05 | 2000           |
| P55A     | 1.682         | 42.74 | 1.560 | 39.62 | 1.875 | 47.63 | 0.750 | 19.05 | 1500           |
| P57A     | 1.750         | 44.45 | 1.633 | 41.48 | 1.940 | 49.28 | 0.750 | 19.05 | 1000           |
| P59A     | 1.825         | 46.36 | 1.800 | 45.72 | 2.031 | 51.59 | 0.500 | 12.70 | 2000           |
| P61A     | 1.950         | 49.53 | 1.780 | 45.21 | 2.120 | 53.85 | 1.000 | 25.40 | 1000           |
| P63A     | 2.000         | 50.80 | 1.844 | 46.84 | 2.120 | 53.85 | 1.000 | 25.40 | 1000           |
| P65A     | 2.083         | 52.91 | 1.920 | 48.77 | 2.250 | 57.15 | 1.000 | 25.40 | 1000           |
| P68A     | 2.261         | 57.43 | 2.231 | 56.67 | 2.500 | 63.50 | 0.500 | 12.70 | 1000           |

**SFP Series  
Flangeless Tapered Plugs**



**Specifications:**

- Black Thermoplastic Rubber

**Features:**

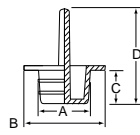
- Protects threaded or unthreaded holes without masking the surrounding areas
- Ergonomically-friendly pull tab allows for easy installation and removal

| Item No. | Plug Threads UN | M   | A      |         | B     |       | C  |       | Bulk Pack Qty. |
|----------|-----------------|-----|--------|---------|-------|-------|----|-------|----------------|
|          |                 |     | In     | mm      | In    | mm    | In | mm    |                |
|          |                 |     | 10398B | #6 & #8 | M3    | 0.196 | 5  | 0.118 |                |
| 18409B   | #10 & #12       | M4  | 0.236  | 6       | 0.157 | 4     | 1  | 25.4  | 6000           |
| 18410B   | 1/4 & 5/16      | M6  | 0.315  | 8       | 0.236 | 6     | 1  | 25.4  | 6000           |
| 18411B   | 3/8             | M8  | 0.394  | 10      | 0.315 | 8     | 1  | 25.4  | 4000           |
| 18412B   | 7/16            | M10 | 0.472  | 12      | 0.394 | 10    | 1  | 25.4  | 4000           |
| 18414B   | 5/8             | M14 | 0.63   | 16      | 0.551 | 14    | 1  | 25.4  | 4000           |
| 18415B   | 1 1/16          | M16 | 0.709  | 18      | 0.63  | 16    | 1  | 25.4  | 2000           |

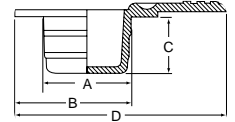


# PUSH-FIT PLUGS FOR THREADS

## MPP Series Flexible Pull Plugs



Type 1 – Center Pull



Type 2 – Side Pull

### Specifications:

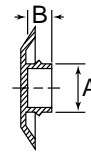
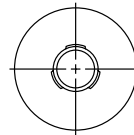
- Material: Thermoplastic Rubber
- Color: Black
- Temperature Range: -40°F to 275°F (-40°C to 135°C)

### Features:

- The integral pull tab feature is designed for easy removal in awkward locations
- Protects threaded or plain components
- Recommended for use wherever resistance to acid is required

| Item No. | To Fit          |               | Type | A     |      | B     |      | C     |      | D     |       | Bulk Pack Qty. |
|----------|-----------------|---------------|------|-------|------|-------|------|-------|------|-------|-------|----------------|
|          | Standard Thread | Metric Thread |      | In    | mm   | In    | mm   | In    | mm   | In    | mm    |                |
| MPP3A    | 1/4"            | M6            | 2    | 0.216 | 5.5  | 0.610 | 15.5 | 0.315 | 8.0  | 0.913 | 23.20 | 500            |
| MPP4A    | 5/16"           | M8            | 1    | 0.295 | 7.5  | 0.610 | 15.5 | 0.315 | 8.0  | 0.944 | 24.00 | 500            |
| MPP5A    | 5/16"           | M8            | 2    | 0.295 | 7.5  | 0.591 | 15.0 | 0.315 | 8.0  | 0.994 | 25.25 | 7000           |
| MPP10A   | 3/8"            | M10           | 1    | 0.374 | 9.5  | 0.689 | 17.5 | 0.315 | 8.0  | 1.181 | 30.00 | 8000           |
| MPP15A   | 3/8"            | M10           | 2    | 0.374 | 9.5  | 0.669 | 17.0 | 0.315 | 8.0  | 1.073 | 27.25 | 7000           |
| MPP20A   | 1/2"            | M12           | 1    | 0.453 | 11.5 | 0.768 | 19.5 | 0.394 | 10.0 | 1.181 | 30.00 | 7000           |
| MPP25A   | 1/2"            | M12           | 2    | 0.453 | 11.5 | 0.669 | 17.0 | 0.315 | 8.0  | 1.112 | 28.24 | 7000           |
| MPP30A   | 9/16"           | M14           | 1    | 0.501 | 12.8 | 0.846 | 21.5 | 0.394 | 10.0 | 1.181 | 30.00 | 6000           |
| MPP35A   | 9/16"           | M14           | 2    | 0.512 | 13.0 | 0.827 | 21.0 | 0.394 | 10.0 | 1.220 | 30.99 | 6000           |
| MPP40A   | 5/8"            | M16           | 1    | 0.598 | 15.2 | 0.925 | 23.5 | 0.394 | 10.0 | 1.260 | 32.00 | 4000           |
| MPP45A   | 5/8"            | M16           | 2    | 0.610 | 15.5 | 0.906 | 23.0 | 0.394 | 10.0 | 1.309 | 33.25 | 4000           |
| MPP50A   | 11/16"          | M18           | 2    | 0.669 | 17.0 | 1.024 | 26.0 | 0.394 | 10.0 | 1.398 | 35.51 | 4000           |
| MPP55A   | 3/4"            | M18           | 1    | 0.693 | 17.6 | 1.004 | 25.5 | 0.394 | 10.0 | 1.024 | 26.00 | 500            |
| MPP60A   | 13/16"          | M20           | 1    | 0.764 | 19.4 | 1.083 | 27.5 | 0.472 | 12.0 | 1.024 | 26.00 | 500            |
| MPP65A   | 13/16"          | M20           | 2    | 0.764 | 19.4 | 1.083 | 27.5 | 0.472 | 12.0 | 1.461 | 37.10 | 500            |
| MPP70A   | 7/8"            | M22           | 1    | 0.843 | 21.4 | 1.161 | 29.5 | 0.472 | 12.0 | 1.024 | 26.00 | 250            |
| MPP75A   | 7/8"            | M22           | 2    | 0.843 | 21.4 | 1.161 | 29.5 | 0.472 | 12.0 | 1.551 | 39.40 | 250            |
| MPP80A   | 1"              | M24           | 1    | 0.925 | 23.5 | 1.122 | 28.5 | 0.472 | 12.0 | 1.024 | 26.00 | 250            |
| MPP85A   | 1"              | M24           | 2    | 0.925 | 23.5 | 1.122 | 28.5 | 0.472 | 12.0 | 1.606 | 40.80 | 250            |

## I Series Push In Plugs for SAE/NPT Threads



### Specifications:

- Material: Low-Density Polyethylene
- Color: Yellow

### Features:

- Provides all the advantages of a threaded plug with the ease of a push in style
- Snaps into place providing an attractive finish while keeping contaminants away from the fittings



| Item No. | To Fit     |            | A     |       | B     |       | Bulk Pack Qty. |
|----------|------------|------------|-------|-------|-------|-------|----------------|
|          | SAE Thread | NPT Thread | In    | mm    | In    | mm    |                |
| I1/4A    | 1/4"       | —          | 0.206 | 5.23  | 0.220 | 5.59  | 5000           |
| I5/16A   | 5/16"      | —          | 0.262 | 6.65  | 0.235 | 5.97  | 5000           |
| I3/8A    | 3/8"       | 1/8"       | 0.324 | 8.23  | 0.235 | 5.97  | 3000           |
| PP3/8A   | 3/8"       | 1/8"       | 0.310 | 7.87  | 0.340 | 8.64  | 5000           |
| I7/16A   | 7/16"      | —          | 0.380 | 9.65  | 0.270 | 6.86  | 3000           |
| I1/2A    | 1/2"       | 1/4"       | 0.437 | 11.10 | 0.270 | 6.86  | 5000           |
| I9/16A   | 9/16"      | —          | 0.495 | 12.57 | 0.290 | 7.37  | 5000           |
| PP9/16A  | 9/16"      | —          | 0.480 | 12.19 | 0.360 | 9.14  | 5000           |
| I5/8A    | 5/8"       | 3/8"       | 0.558 | 14.17 | 0.290 | 7.37  | 7500           |
| I11/16A  | 11/16"     | —          | 0.610 | 15.49 | 0.290 | 7.37  | 7000           |
| I3/4A    | 3/4"       | —          | 0.676 | 17.17 | 0.290 | 7.37  | 6000           |
| I13/16A  | 13/16"     | 1/2"       | 0.732 | 18.59 | 0.290 | 7.37  | 5000           |
| I7/8A    | 7/8"       | —          | 0.798 | 20.27 | 0.295 | 7.49  | 4500           |
| I1A      | 1"         | 3/4"       | 0.922 | 23.42 | 0.290 | 7.37  | 3500           |
| I1-1/16A | 1-1/16"    | —          | 0.972 | 24.69 | 0.290 | 7.37  | 3000           |
| I1-3/16A | 1-3/16"    | —          | 1.090 | 27.69 | 0.340 | 8.64  | 2000           |
| I1-1/4A  | 1-1/4"     | —          | 1.160 | 29.46 | 0.340 | 8.64  | 2000           |
| I1-5/16A | 1-5/16"    | 1"         | 1.215 | 30.86 | 0.340 | 8.64  | 2000           |
| I1-7/16A | 1-7/16"    | —          | 1.360 | 34.54 | 0.460 | 11.68 | 1200           |
| I1-1/2A  | 1-1/2"     | —          | 1.405 | 35.69 | 0.460 | 11.68 | 1100           |
| I1-5/8A  | 1-5/8"     | —          | 1.525 | 38.74 | 0.460 | 11.68 | 1000           |
| I1-3/4A  | 1-3/4"     | —          | 1.650 | 41.91 | 0.460 | 11.68 | 800            |
| I1-7/8A  | 1-7/8"     | —          | 1.775 | 45.09 | 0.460 | 11.68 | 800            |

# PUSH-FIT PLUGS FOR THREADS



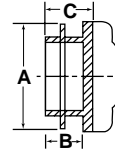
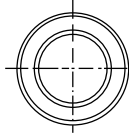
## SF Series Snap Fit Plugs for Standard/JIC/Metric/BSP Threads

### Specifications:

- Material: Low-Density Polyethylene
- Color: Red

### Features:

- Once pushed into position, a single turn gives a tight fit
- Each plug covers a range of different thread sizes and styles
- The 12598A has pull tab not as illustrated



| Item No. | To Fit Thread Sizes |               |        | A     |       | B     |      | C     |      | Bulk Pack Qty. |
|----------|---------------------|---------------|--------|-------|-------|-------|------|-------|------|----------------|
|          | Standard/JIC        | Metric        | BSP    | In    | mm    | In    | mm   | In    | mm   |                |
| 10530A   | 7/16"               | M10           | 1/8"   | 0.386 | 9.80  | 0.157 | 4.00 | 0.236 | 6.00 | 12000          |
| 12363A   | 1/2"                | M12, M13, M14 | 1/4"   | 0.516 | 13.10 | 0.197 | 5.00 | 0.276 | 7.00 | 10000          |
| 12364A   | 5/8"                | M16           | 3/8"   | 0.650 | 16.50 | 0.197 | 5.00 | 0.276 | 7.00 | 10000          |
| 10314B   | 3/4"                | M18           | 1/2"   | 0.720 | 18.30 | 0.276 | 7.00 | 0.354 | 9.00 | 7000           |
| 12365A   | —                   | M20           | 1/2"   | 0.839 | 21.30 | 0.276 | 7.00 | 0.354 | 9.00 | 5000           |
| 12366A   | 7/8"                | M22           | 5/8"   | 0.882 | 22.40 | 0.276 | 7.00 | 0.354 | 9.00 | 5000           |
| 12621A   | —                   | M24           | —      | 0.925 | 23.50 | 0.276 | 7.00 | 0.354 | 9.00 | 3000           |
| 12367A   | 1 1/16"             | M25, M26      | 3/4"   | 1.004 | 25.50 | 0.276 | 7.00 | 0.354 | 9.00 | 2000           |
| 12368A   | 1-1/8"              | M28           | 7/8"   | 1.098 | 27.90 | 0.276 | 7.00 | 0.354 | 9.00 | 3000           |
| 12369A   | 1-5/16"             | M32           | 1"     | 1.260 | 32.00 | 0.276 | 7.00 | 0.354 | 9.00 | 2500           |
| 12622A   | 1-1/2", 1-3/8"      | M36           | 1-1/8" | 1.406 | 35.70 | 0.276 | 7.00 | 0.354 | 9.00 | 2000           |
| 12598A   | 1-5/8"              | M40, M42      | 1-1/4" | 1.634 | 41.50 | 0.276 | 7.00 | 0.354 | 9.00 | 2000           |

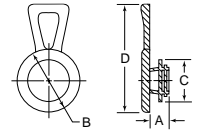
## EZP Series Quick Fit Easy Pull Plugs for Unified Standard/ Metric Threads

### Specifications:

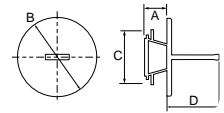
- Material: Low-Density Polyethylene
- Color: Red

### Features:

- Patented "Quick Fit" design easily locks the plug into place with a simple push
- Strong & flexible pull-tab for quick removal
- Seven sizes in 2 styles protect more than 25 popular threaded sizes.



TYPE 1 - Lateral Pull



TYPE 2 - Central Pull

| Item No. | To Fit            |               |      | A     |       | B     |       | C     |       | D     |       | Bulk Pack Qty. |
|----------|-------------------|---------------|------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
|          | Standard Thread   | Metric Thread | Type | In    | mm    | In    | mm    | In    | mm    | In    | mm    |                |
| EZP1010A | 5/16", 3/8"       | M8            | 1    | 0.300 | 7.62  | 0.515 | 13.08 | 0.375 | 9.53  | 1.195 | 30.35 | 10000          |
| EZP1020C | 7/16"             | M10, M12      | 1    | 0.300 | 7.62  | 0.748 | 19.05 | 0.520 | 13.20 | 1.340 | 34.04 | 5000           |
| EZP2020A | 7/16"             | M10, M12      | 2    | 0.354 | 9.00  | 0.748 | 19.00 | 0.519 | 13.20 | 0.834 | 21.20 | 500            |
| EZP1030A | 1/2", 5/8", 9/16" | M14, M16      | 1    | 0.275 | 7.00  | 0.893 | 22.70 | 0.649 | 16.50 | 1.574 | 40.00 | 5000           |
| EZP2030A | 1/2", 5/8", 9/16" | M14, M16      | 2    | 0.275 | 7.00  | 0.893 | 22.70 | 0.649 | 16.50 | 0.834 | 21.20 | 500            |
| EZP1040A | 3/4"              | M18, M20      | 1    | 0.314 | 8.00  | 1.181 | 30.00 | 0.767 | 19.50 | 1.850 | 47.00 | 4000           |
| EZP2040A | 3/4"              | M18, M20      | 2    | 0.314 | 8.00  | 1.181 | 30.00 | 0.767 | 19.50 | 0.842 | 21.40 | 250            |
| EZP1050A | 7/8"              | M22, M24      | 1    | 0.374 | 9.50  | 1.350 | 34.30 | 0.937 | 23.80 | 2.023 | 51.40 | 3000           |
| EZP2050A | 7/8"              | M22, M24      | 2    | 0.374 | 9.50  | 1.350 | 34.30 | 0.937 | 23.80 | 0.842 | 21.40 | 250            |
| EZP1060A | 1-1/16", 1-1/8"   | M26, M28      | 1    | 0.374 | 9.50  | 1.574 | 40.00 | 1.086 | 27.60 | 2.244 | 57.00 | 2000           |
| EZP2060A | 1-1/16", 1-1/8"   | M26, M28      | 2    | 0.374 | 9.50  | 1.574 | 40.00 | 1.086 | 27.60 | 0.846 | 21.50 | 100            |
| EZP1070A | 1-1/4", 1-3/8"    | M30, M36      | 1    | 0.393 | 10.00 | 1.771 | 45.00 | 1.358 | 34.50 | 2.440 | 62.00 | 1500           |

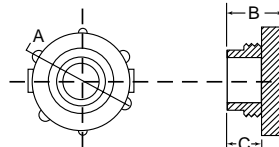
## QFP Series Quick Fit Plugs for UNF/JIC/Metric Threads

### Specifications:

- Material: Low-Density Polyethylene
- Color: Red

### Features:

- Fewer thread forms allow for quick application



### UNF/JIC

| Item No. | To Fit UNF/JIC Thread Size | A     |       | B     |      | C     |      | Bulk Pack Qty. |
|----------|----------------------------|-------|-------|-------|------|-------|------|----------------|
|          |                            | In    | mm    | In    | mm   | In    | mm   |                |
| QFP005A  | 7/16" x 20                 | 0.728 | 18.50 | 0.354 | 9.00 | 0.232 | 5.90 | 5000           |
| QFP010A  | 1/2" x 20                  | 0.811 | 20.60 | 0.358 | 9.10 | 0.232 | 5.90 | 5000           |
| QFP015A  | 9/16" x 18                 | 0.843 | 21.40 | 0.354 | 9.00 | 0.232 | 5.90 | 5000           |
| QFP020A  | 3/4" x 16                  | 1.051 | 26.70 | 0.366 | 9.30 | 0.232 | 5.90 | 3000           |
| QFP025A  | 7/8" x 14                  | 1.173 | 29.80 | 0.362 | 9.20 | 0.244 | 6.20 | 2500           |
| QFP030A  | 1 1/16" x 12               | 1.335 | 33.90 | 0.354 | 9.00 | 0.232 | 5.90 | 2000           |
| QFP035A  | 1 5/16" x 12               | 1.587 | 40.30 | 0.37  | 9.40 | 0.236 | 6.00 | 1500           |

### Metric

| Item No. | To Fit UNF/JIC Thread Size | A     |       | B     |       | C     |       | Bulk Pack Qty. |
|----------|----------------------------|-------|-------|-------|-------|-------|-------|----------------|
|          |                            | In    | mm    | In    | mm    | In    | mm    |                |
| QFP105A  | M14 x 1.5                  | 0.846 | 21.50 | 0.492 | 12.50 | 0.315 | 8.00  | 5000           |
| QFP110A  | M16 x 1.5                  | 0.929 | 23.60 | 0.492 | 12.50 | 0.315 | 8.00  | 3000           |
| QFP115A  | M20 x 1.5                  | 1.157 | 29.38 | 0.512 | 13.00 | 0.315 | 8.00  | 3000           |
| QFP120A  | M30 x 2.0                  | 1.556 | 34.52 | 0.575 | 14.60 | 0.386 | 9.80  | 1500           |
| QFP125A  | M36 x 2.0                  | 1.795 | 45.60 | 0.649 | 16.48 | 0.413 | 10.50 | 1000           |
| QFP130A  | M42 x 2.0                  | 2.133 | 54.17 | 0.854 | 21.69 | 0.61  | 15.50 | 700            |
| QFP135A  | M45 x 2.0                  | 2.232 | 56.69 | 0.728 | 18.50 | 0.500 | 12.70 | 700            |
| QFP140A  | M52 x 2.0                  | 2.594 | 65.90 | 0.839 | 21.30 | 0.606 | 15.40 | 500            |



# PUSH-FIT PLUGS FOR THREADS / THREADED PLUGS

## UN Series

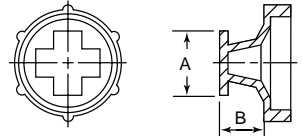
### Quick Fit Plugs for Standard/JIC/Metric/BSP Threads

#### Specifications:

- Material: Low-Density Polyethylene
- Color: Red

#### Features:

- This uniquely-designed range of plugs have sets of blades which will lock tight when pushed into a threaded hole and twisted
- Each plug covers a range of different thread sizes and styles
- Easily removes by simply unscrewing the plug from the thread



| Item No. | To Fit Thread Sizes |              |        |           | A     |       | B     |       | Bulk Pack Qty. |
|----------|---------------------|--------------|--------|-----------|-------|-------|-------|-------|----------------|
|          | NPT                 | Standard/JIC | Metric | BSP       | In    | mm    | In    | mm    |                |
| UN9995A  | —                   | —            | —      | —         | 0.420 | 10.66 | 0.233 | 5.91  | 10000          |
| UN9996A  | 1/8"                | 7/16"        | M10    | 1/8"      | 0.438 | 11.12 | 0.240 | 6.09  | 10000          |
| UN9997A  | 1/4"                | 9/16"        | M14    | —         | 0.575 | 14.60 | 0.285 | 7.23  | 10000          |
| UN9998A  | —                   | 1/2"         | M12    | 1/4"      | 0.485 | 12.31 | 0.325 | 8.25  | 10000          |
| UN9763A  | —                   | 3/4"         | M16-20 | 3/8"      | 0.780 | 19.81 | 0.375 | 9.52  | 5000           |
| UN9764A  | —                   | 1"           | M20-24 | 1/2"-5/8" | 0.990 | 25.14 | 0.445 | 11.30 | 2500           |
| UN9774A  | 3/4"                | 1-3/16"      | M30    | 3/4"-7/8" | 1.240 | 31.49 | 0.435 | 11.04 | 2000           |
| UN9765A  | —                   | 1-7/16"      | M33-36 | 1"        | 1.475 | 37.46 | 0.445 | 11.30 | 1000           |

## BL Series

### UNF Standard Threaded Plugs (O-Ring Optional)

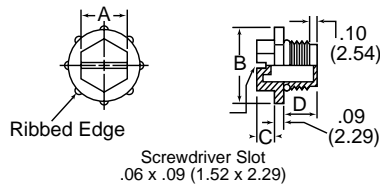


#### Specifications:

- Material: Polypropylene
- Color: Yellow

#### Features:

- Can be applied or removed by hand, hex wrench or screwdriver
- Optional O-ring gives this part a water tight seal for superior leakage protection



See pages 18 & 19 for Application Wizards.

| Item No. | Item No. w/ O-Ring | To Plug Standard Thread Size | A     |       | B     |       | C     |      | D     |       | Bulk Pack Qty. |
|----------|--------------------|------------------------------|-------|-------|-------|-------|-------|------|-------|-------|----------------|
|          |                    |                              | In    | mm    | In    | mm    | In    | mm   | In    | mm    |                |
| BL3A     | BL3L               | 7/16"-20                     | 0.430 | 10.92 | 0.620 | 15.75 | 0.180 | 4.57 | 0.390 | 9.91  | 5000           |
| *BL4A    | *BL4B              | 1/2"-13                      | 0.500 | 12.70 | 0.687 | 17.46 | 0.281 | 7.14 | 0.410 | 10.41 | 3000           |
| BL5A     | BL5K               | 9/16"-18                     | 0.500 | 12.70 | 0.750 | 19.05 | 0.180 | 4.57 | 0.420 | 10.67 | 3000           |
| BL7A     | BL7J               | 3/4"-16                      | 0.680 | 17.27 | 0.940 | 23.88 | 0.190 | 4.83 | 0.520 | 13.21 | 1500           |
| BL8A     | BL8H               | 7/8"-14                      | 0.750 | 19.05 | 1.060 | 26.92 | 0.240 | 6.10 | 0.560 | 14.22 | 2100           |
| BL10A    | BL10I              | 1-1/16"-12                   | 0.870 | 22.10 | 1.310 | 33.27 | 0.250 | 6.35 | 0.660 | 16.76 | 600            |
| BL11A    | BL11D              | 1-3/16"-12                   | 1.000 | 25.40 | 1.500 | 38.10 | 0.300 | 7.62 | 0.700 | 17.78 | 425            |
| BL12A    | BL12H              | 1-5/16"-12                   | 1.070 | 27.18 | 1.610 | 40.89 | 0.290 | 7.37 | 0.700 | 17.78 | 700            |
| BL13A    | BL13D              | 1-5/8"-12                    | 1.125 | 28.58 | 1.880 | 42.75 | 0.300 | 7.62 | 0.770 | 19.56 | 500            |
| BL14A    | BL14C              | 1-7/8"-12                    | 1.500 | 38.10 | 2.125 | 53.98 | 0.300 | 7.62 | 0.750 | 19.05 | 700            |

\*BL4A and BL4B are black and UNC Threaded

## BL Nylon Series

### UNF Standard Threaded Nylon Plugs (O-Ring Optional)

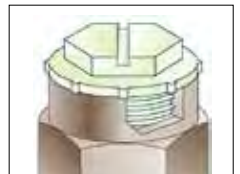
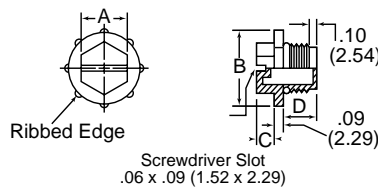


#### Specifications:

- Material: Nylon
- Color: Natural

#### Features:

- Can be applied or removed by hand, hex wrench or screwdriver
- Optional O-ring gives this part a water tight seal for superior leakage protection
- Recommended when strength and abrasion resistance are desired
- The nylon material absorbs paint, keeping paint flakes to a minimum
- Nylon is able to withstand higher temperatures than Polypropylene. Nylon is recommended for intermittent temperatures of 230°F (110°C) to -40°F (-40°C)

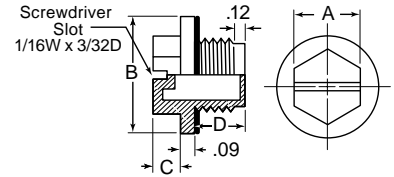


| Item No. | Item No. w/ O-Ring | To Plug Standard Thread Size | A     |       | B     |       | C     |      | D     |       | Bulk Pack Qty. |
|----------|--------------------|------------------------------|-------|-------|-------|-------|-------|------|-------|-------|----------------|
|          |                    |                              | In    | mm    | In    | mm    | In    | mm   | In    | mm    |                |
| BL3D     | BL3I               | 7/16"-20                     | 0.430 | 10.92 | 0.620 | 15.75 | 0.180 | 4.57 | 0.390 | 9.91  | 10000          |
| BL5C     | BL5N               | 9/16"-18                     | 0.500 | 12.70 | 0.750 | 19.05 | 0.180 | 4.57 | 0.420 | 10.67 | 6000           |
| BL7C     | BL7G               | 3/4"-16                      | 0.680 | 17.27 | 0.940 | 23.88 | 0.190 | 4.83 | 0.520 | 13.21 | 3000           |
| BL8B     | BL8P               | 7/8"-14                      | 0.750 | 19.05 | 1.060 | 26.92 | 0.240 | 6.10 | 0.560 | 14.22 | 2100           |
| BL10C    | BL10M              | 1-1/16"-12                   | 0.870 | 22.10 | 1.310 | 33.27 | 0.250 | 6.35 | 0.660 | 16.76 | 1200           |
| BL11E    | BL11C              | 1-3/16"-12                   | 1.000 | 25.40 | 1.500 | 38.10 | 0.300 | 7.62 | 0.700 | 17.78 | 425            |
| BL12B    | BL12M              | 1-5/16"-12                   | 1.070 | 27.18 | 1.610 | 40.89 | 0.290 | 7.37 | 0.700 | 17.78 | 700            |
| BL13G    | BL13C              | 1-5/8"-12                    | 1.125 | 28.58 | 1.880 | 42.75 | 0.300 | 7.62 | 0.770 | 19.56 | 1000           |





## BLWF Series UNF Standard Threaded Wide Flange Plugs



### Specifications:

- Material: Plug – Nylon, Gasket – Nitrile
- Color: Plug – Yellow, Gasket – Black

### Features:

- The wide flange design keeps any paint flakes away from the hole when removed
- The nylon material absorbs paint keeping paint flakes to a minimum
- The nitrile gasket seals the plug to the mating surface for a watertight seal
- Can be applied or removed by hand, screwdriver or with a torque wrench
- Nylon is recommended for intermittent temperatures up to 230°F (110°C) to -40°F (-40°C)

| Item No. | To Fit Thread Size | A     |       | B     |       | C     |      | D     |       | Bulk Pack Qty. |
|----------|--------------------|-------|-------|-------|-------|-------|------|-------|-------|----------------|
|          |                    | In    | mm    | In    | mm    | In    | mm   | In    | mm    |                |
| BLWF100A | 7/16"-20           | 0.500 | 12.70 | 0.775 | 19.69 | 0.180 | 4.57 | 0.390 | 9.91  | 5000           |
| BLWF105A | 1/2"-20            | 0.500 | 12.70 | 0.853 | 21.67 | 0.180 | 4.57 | 0.405 | 10.29 | 5000           |
| BLWF110A | 9/16"-18           | 0.500 | 12.70 | 0.917 | 23.29 | 0.180 | 4.57 | 0.420 | 10.67 | 2500           |
| BLWF115A | 3/4"-16            | 0.750 | 19.05 | 1.130 | 28.70 | 0.190 | 4.83 | 0.520 | 13.21 | 2500           |
| BLWF120A | 7/8"-14            | 0.750 | 19.05 | 1.284 | 32.61 | 0.240 | 6.10 | 0.560 | 14.22 | 2500           |
| BLWF125A | 1-1/16"-12         | 1.000 | 25.40 | 1.577 | 40.06 | 0.250 | 6.35 | 0.660 | 16.76 | 1000           |
| BLWF130A | 1-3/16"-12         | 1.000 | 25.40 | 1.722 | 43.74 | 0.300 | 7.62 | 0.700 | 17.78 | 1000           |
| BLWF135A | 1-5/16"-12         | 1.000 | 25.40 | 1.867 | 47.42 | 0.290 | 7.37 | 0.700 | 17.78 | 1000           |
| BLWF140A | 1-5/8"-12          | 1.125 | 28.57 | 2.217 | 56.31 | 0.300 | 7.62 | 0.770 | 19.56 | 500            |
| BLWF145A | 1-7/8"-12          | 1.500 | 38.10 | 2.507 | 63.68 | 0.300 | 7.62 | 0.750 | 19.05 | 500            |

## B Series UNF Standard Threaded Plugs

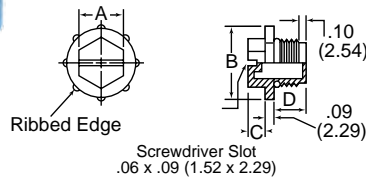


### Specifications:

- Material: High-Density Polyethylene
- Color: Blue

### Features:

- Threaded plug with a serrated grip (used for a variety of applications)
- Can be applied or removed by hand, hex wrench or screwdriver



| Item No. | To Plug Standard Thread Size | A     |       | B     |       | C     |      | D     |       | Bulk Pack Qty. |
|----------|------------------------------|-------|-------|-------|-------|-------|------|-------|-------|----------------|
|          |                              | In    | mm    | In    | mm    | In    | mm   | In    | mm    |                |
| B3A      | 7/16"-20                     | 0.430 | 10.92 | 0.620 | 15.75 | 0.180 | 4.57 | 0.300 | 7.62  | 11000          |
| B4A      | 1/2"-20                      | 0.500 | 12.70 | 0.680 | 17.27 | 0.180 | 4.57 | 0.360 | 9.14  | 7500           |
| B5A      | 9/16"-18                     | 0.500 | 12.70 | 0.750 | 19.05 | 0.180 | 4.57 | 0.382 | 9.70  | 6000           |
| B6A      | 5/8"-18                      | 0.560 | 14.22 | 0.810 | 20.57 | 0.180 | 4.57 | 0.350 | 8.89  | 5000           |
| B7A      | 3/4"-16                      | 0.680 | 17.27 | 0.940 | 23.88 | 0.190 | 4.83 | 0.440 | 11.18 | 3500           |

| Item No. | To Plug Standard Thread Size | A     |       | B     |       | C     |      | D     |       | Bulk Pack Qty. |
|----------|------------------------------|-------|-------|-------|-------|-------|------|-------|-------|----------------|
|          |                              | In    | mm    | In    | mm    | In    | mm   | In    | mm    |                |
| B8A      | 7/8"-14                      | 0.750 | 19.05 | 1.060 | 26.92 | 0.240 | 6.10 | 0.500 | 12.70 | 2100           |
| B9A      | 1"-14                        | 0.750 | 19.05 | 1.180 | 29.97 | 0.250 | 6.35 | 0.430 | 10.92 | 2000           |
| B10A     | 1-1/8"-14                    | 0.870 | 22.10 | 1.310 | 33.27 | 0.250 | 6.35 | 0.645 | 16.38 | 1200           |
| B11A     | 1-1/16"-12                   | 0.870 | 22.10 | 1.310 | 33.27 | 0.250 | 6.35 | 0.620 | 15.75 | 1300           |

## BLM Series UNF Standard Threaded Molded O-Ring Plugs

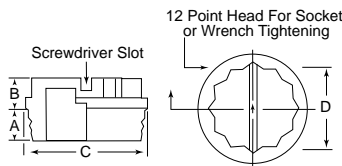


### Specifications:

- Material: High-Density Polyethylene
- Color: Red

### Features:

- Often used on flat-faced hydraulic fittings
- Integral O-Ring type bead prevents oil leakage or entrance of contaminants
- The flange lip compresses against the surface to keep contaminants out
- Can be applied or removed by hand, wrench, socket or screwdriver
- Designed for Standard Threads



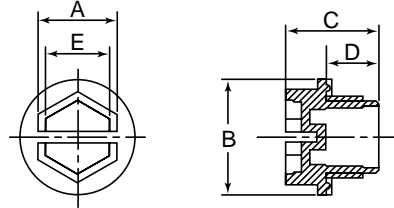
| Item No. | To Plug Standard Thread Size | A     |       | B     |       | C     |       | D     |      | Bulk Pack Qty. |
|----------|------------------------------|-------|-------|-------|-------|-------|-------|-------|------|----------------|
|          |                              | In    | mm    | In    | mm    | In    | mm    | In    | mm   |                |
| BLM3B    | 7/16"-20                     | 0.344 | 8.74  | 0.281 | 7.14  | 0.660 | 16.76 | 3/8   | 8000 |                |
| BLM3-24B | 7/16"-24                     | 0.344 | 8.74  | 0.281 | 7.14  | 0.660 | 16.76 | 3/8   | 8000 |                |
| BLM4B    | 1/2"-20                      | 0.344 | 8.74  | 0.313 | 7.95  | 0.730 | 18.54 | 7/16  | 6000 |                |
| BLM5B    | 9/16"-18                     | 0.350 | 8.89  | 0.323 | 8.20  | 0.800 | 20.32 | 1/2   | 6000 |                |
| BLM6B    | 5/8"-18                      | 0.375 | 9.53  | 0.313 | 7.95  | 0.820 | 20.83 | 9/16  | 5000 |                |
| BLM7B    | 3/4"-16                      | 0.406 | 10.31 | 0.406 | 10.31 | 1.020 | 25.91 | 11/16 | 3000 |                |
| BLM8B    | 7/8"-14                      | 0.469 | 11.91 | 0.313 | 7.95  | 1.160 | 29.46 | 13/16 | 2000 |                |

| Item No. | To Plug Standard Thread Size | A     |       | B     |      | C     |       | D     |      | Bulk Pack Qty. |
|----------|------------------------------|-------|-------|-------|------|-------|-------|-------|------|----------------|
|          |                              | In    | mm    | In    | mm   | In    | mm    | In    | mm   |                |
| BLM9B    | 1"-14                        | 0.500 | 12.70 | 0.313 | 7.95 | 1.250 | 31.75 | 7/8   | 1500 |                |
| BLM10B   | 1-1/16"-12                   | 0.594 | 15.09 | 0.313 | 7.95 | 1.450 | 36.83 | 1     | 1000 |                |
| BLM11B   | 1-3/16"-12                   | 0.594 | 15.09 | 0.344 | 8.74 | 1.500 | 38.10 | 1-1/8 | 1000 |                |
| BLM12B   | 1-5/16"-12                   | 0.594 | 15.09 | 0.344 | 8.74 | 1.740 | 44.20 | 1-1/4 | 1000 |                |
| BLM13B   | 1-5/8"-12                    | 0.594 | 15.09 | 0.344 | 8.74 | 2.156 | 54.76 | 1-1/2 | 700  |                |
| BLM14B   | 1-7/8"-12                    | 0.594 | 15.09 | 0.344 | 8.74 | 2.188 | 55.58 | 1-5/8 | 700  |                |



# THREADED PLUGS

## TSSP Series Sealing Threaded Plugs For UNF/METRIC/BSP Threads



### Specifications:

- Material: Nylon
- Color: Yellow

### Features:

- The double sealing ring design on the underside of the flange provides a positive seal
- Design includes five complete threads for a secure fit
- Can be manually applied or removed with a screwdriver, spanner, socket or allen key or with power tools
- Head designed not to trap liquid
- The nylon material absorbs paint, keeping paint flakes to a minimum
- Nylon is recommended for intermittent temperatures of 320°F (160°C) to -40°F (-40°C)



See pages 18 & 19 for Application Wizards.

### UNF Threads

| Item No.       | To Fit UNF Thread Size | A     |      | B     |      | C     |      | D     |      | E     |      | Bulk Pack Qty. |
|----------------|------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|----------------|
|                |                        | In    | mm   | In    | mm   | In    | mm   | In    | mm   | In    | mm   |                |
| TSSP3/8-24A    | 3/8"-24                | 0.354 | 9.0  | 0.630 | 16.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.236 | 6.0  | 5000           |
| TSSP7/16-20A   | 7/16"-20               | 0.394 | 10.0 | 0.669 | 17.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.276 | 7.0  | 5000           |
| TSSP1/2-20A    | 1/2"-20                | 0.512 | 13.0 | 0.748 | 19.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.394 | 10.0 | 3000           |
| TSSP9/16-18A   | 9/16"-18               | 0.512 | 13.0 | 0.807 | 20.5 | 0.689 | 17.5 | 0.394 | 10.0 | 0.394 | 10.0 | 3000           |
| TSSP5/8-18A    | 5/8"-18                | 0.591 | 15.0 | 0.866 | 22.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.472 | 12.0 | 3000           |
| TSSP3/4-16A    | 3/4"-16                | 0.748 | 19.0 | 1.024 | 26.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.630 | 16.0 | 3000           |
| TSSP7/8-14A    | 7/8"-14                | 0.827 | 21.0 | 1.122 | 28.5 | 0.768 | 19.5 | 0.472 | 12.0 | 0.709 | 18.0 | 3000           |
| TSSP1-14A      | 1"-14                  | 0.945 | 24.0 | 1.240 | 31.5 | 0.768 | 19.5 | 0.472 | 12.0 | 0.827 | 21.0 | 1000           |
| TSSP1-1/16-12A | 1-1/16"-12             | 0.945 | 24.0 | 1.299 | 33.0 | 0.768 | 19.5 | 0.472 | 12.0 | 0.827 | 21.0 | 1000           |
| TSSP1-3/16-12A | 1-3/16"-12             | 1.181 | 30.0 | 1.437 | 36.5 | 0.886 | 22.5 | 0.591 | 15.0 | 1.063 | 27.0 | 1000           |
| TSSP1-5/16-12A | 1-5/16"-12             | 1.181 | 30.0 | 1.575 | 40.0 | 0.886 | 22.5 | 0.591 | 15.0 | 1.063 | 27.0 | 1000           |
| TSSP1-5/8-12A  | 1-5/8"-12              | 1.417 | 36.0 | 1.870 | 47.5 | 0.886 | 22.5 | 0.591 | 15.0 | 1.299 | 33.0 | 500            |
| TSSP1-7/8-12A  | 1-7/8"-12              | 1.417 | 36.0 | 2.126 | 54.0 | 0.886 | 22.5 | 0.591 | 15.0 | 1.299 | 33.0 | 500            |

### Metric Threads

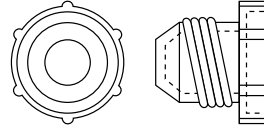
| Item No.     | To Fit Metric Thread Size | A     |      | B     |      | C     |      | D     |      | E     |      | Bulk Pack Qty. |
|--------------|---------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|----------------|
|              |                           | In    | mm   | In    | mm   | In    | mm   | In    | mm   | In    | mm   |                |
| 462836A      | M8 x 1                    | 0.276 | 7.0  | 0.492 | 12.5 | 0.610 | 15.5 | 0.315 | 8.0  | 0.157 | 4.0  | 5000           |
| 462837A      | M10 x 1                   | 0.354 | 9.0  | 0.571 | 14.5 | 0.650 | 16.5 | 0.354 | 9.0  | 0.236 | 6.0  | 5000           |
| TSSPM10X1.5A | M10 x 1.5                 | 0.354 | 9.0  | 0.571 | 14.5 | 0.650 | 16.5 | 0.354 | 9.0  | 0.236 | 6.0  | 500            |
| TSSPM12X1A   | M12 x 1                   | 0.394 | 10.0 | 0.669 | 17.0 | 0.650 | 16.5 | 0.354 | 9.0  | 0.276 | 7.0  | 500            |
| 462838A      | M12 x 1.5                 | 0.394 | 10.0 | 0.669 | 17.0 | 0.650 | 16.5 | 0.354 | 9.0  | 0.276 | 7.0  | 5000           |
| 462839A      | M14 x 1.5                 | 0.512 | 13.0 | 0.748 | 19.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.394 | 10.0 | 5000           |
| 462840A      | M16 x 1.5                 | 0.591 | 15.0 | 0.878 | 22.3 | 0.689 | 17.5 | 0.366 | 9.3  | 0.472 | 12.0 | 5000           |
| 462841A      | M18 x 1.5                 | 0.669 | 17.0 | 0.945 | 24.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.551 | 14.0 | 3000           |
| 462842A      | M20 x 1.5                 | 0.748 | 19.0 | 1.024 | 26.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.630 | 16.0 | 3000           |
| 462843A      | M22 x 1.5                 | 0.827 | 21.0 | 1.102 | 28.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.709 | 18.0 | 3000           |
| TSSPM24X1.5A | M24 x 1.5                 | 0.945 | 24.0 | 1.181 | 30.0 | 0.689 | 17.5 | 0.394 | 10.0 | 0.827 | 21.0 | 500            |
| TSSPM26X1.5A | M26 x 1.5                 | 0.945 | 24.0 | 1.260 | 32.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 500            |
| 466977A      | M27 x 1.5                 | 0.945 | 24.0 | 1.299 | 33.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 500            |
| 466985A      | M27 x 2                   | 0.945 | 24.0 | 1.299 | 33.0 | 0.866 | 22   | 0.531 | 13.5 | 0.827 | 21.0 | 250            |
| TSSPM28X1.5A | M28 x 1.5                 | 0.945 | 24.0 | 1.339 | 34.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 500            |
| TSSPM30X1.5A | M30 x 1.5                 | 0.945 | 24.0 | 1.496 | 38.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 500            |
| TSSPM30X2A   | M30 x 2                   | 0.945 | 24.0 | 1.496 | 38.0 | 0.866 | 22   | 0.531 | 13.5 | 0.827 | 21.0 | 250            |
| TSSPM32X1.5A | M32 x 1.5                 | 0.945 | 24.0 | 1.575 | 40.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 500            |
| TSSPM33X2A   | M33 x 2                   | 0.945 | 24.0 | 1.575 | 40.0 | 0.866 | 22   | 0.531 | 13.5 | 0.827 | 21.0 | 250            |
| TSSPM36X1.5A | M36 x 1.5                 | 0.945 | 24.0 | 1.772 | 45.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 500            |
| TSSPM36X2A   | M36 x 2                   | 0.945 | 24.0 | 1.772 | 45.0 | 0.866 | 22   | 0.531 | 13.5 | 0.827 | 21.0 | 250            |
| TSSPM38X1.5A | M38 x 1.5                 | 0.945 | 24.0 | 1.890 | 48.0 | 0.807 | 20.5 | 0.472 | 12.0 | 0.827 | 21.0 | 250            |
| TSSPM42X2A   | M42 x 2                   | 1.181 | 30.0 | 1.969 | 50.0 | 0.866 | 22   | 0.531 | 13.5 | 1.063 | 27.0 | 250            |
| TSSPM45X1.5A | M45 x 1.5                 | 1.181 | 30.0 | 2.047 | 52.0 | 0.846 | 21.5 | 0.472 | 12.0 | 1.063 | 27.0 | 250            |
| TSSPM45X2A   | M45 x 2                   | 1.181 | 30.0 | 1.969 | 50.0 | 0.866 | 22   | 0.531 | 13.5 | 1.063 | 27.0 | 250            |
| TSSPM48X2A   | M48 x 2                   | 1.181 | 30.0 | 2.165 | 55.0 | 0.906 | 23   | 0.531 | 13.5 | 1.063 | 27.0 | 100            |
| TSSPM52X1.5A | M52 x 1.5                 | 1.181 | 30.0 | 2.362 | 60.0 | 0.866 | 22   | 0.472 | 12.0 | 1.063 | 27.0 | 250            |
| TSSPM52X2A   | M52 x 2                   | 1.181 | 30.0 | 2.362 | 60.0 | 0.906 | 23   | 0.531 | 13.5 | 1.063 | 27.0 | 100            |



## TE & T Series Threaded Plugs for 37° JIC Flared Fittings

### Specifications:

- Material: Low-Density Polyethylene
- Color: Red
- Functionally Equivalent to Spec: NAS-833, NAS-815 (MIL-C5501/1, MIL-C52078)



### Features:

- Designed with a knurled head for easy finger installation
- Used to seal light pressure requirements on 37° JIC flared fittings

| Item No. | Tubing Size In | To Fit JIC Thread Size | JIC Fitting Size | Bulk Pack Qty. |           |
|----------|----------------|------------------------|------------------|----------------|-----------|
|          |                |                        |                  | TE             | T         |
| TE1000A  | T1A            | 1/8                    | 5/16"-24         | 2              | 5000 4000 |
| TE1005A  | T2A            | 3/16                   | 3/8"-24          | 3              | 5000 8500 |
| TE1010A  | T3A            | 1/4                    | 7/16"-20         | 4              | 5000 6500 |
| TE1015A  | T4A            | 5/16                   | 1/2"-20          | 5              | 5000 6500 |
| TE1020A  | T5A            | 3/8                    | 9/16"-18         | 6              | 5000 4500 |
| TE1025A  | T6A            | 3/8                    | 5/8"-18          | —              | 5000 4500 |
| TE1030A  | T7A            | 1/2                    | 3/4"-16          | 8              | 2500 2200 |
| TE1035A  | T8A            | 5/8                    | 7/8"-14          | 10             | 2500 1800 |
| TE1040A  | T9A            | 3/4                    | 1-1/16"-12       | 12             | 2500 900  |

| Item No. | Tubing Size In | To Fit JIC Thread Size | JIC Fitting Size | Bulk Pack Qty. |           |
|----------|----------------|------------------------|------------------|----------------|-----------|
|          |                |                        |                  | TE             | T         |
| TE1045A  | T10A           | 3/4                    | 1-1/16"-14       | —              | 1000 1000 |
| TE1050A  | —              | 7/8                    | 1-3/16"-12       | 14             | 2500 —    |
| TE1055A  | T12A           | 1                      | 1-5/16"-12       | 16             | 1000 —    |
| TE1060A  | —              | —                      | 1-1/2-12         | —              | 1000 —    |
| TE1065A  | MPN261A        | 1-1/4                  | 1-5/8-12         | 20             | 1000 —    |
| TE1070A  | —              | —                      | 1-3/4-12         | —              | 1000 —    |
| TE1075A  | —              | 1-1/2                  | 1-7/8-12         | 24             | 500 —     |
| TE1080A  | —              | 1-3/4                  | 2-1/4-12         | 28             | 500 —     |
| TE1085A  | —              | 2                      | 2-1/2-12         | 32             | 500 —     |

## TF Series Threaded Plugs for Flat Faced O-Ring Hydraulic Fittings

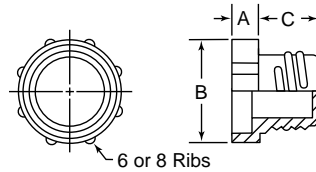
### Specifications:

- Material: Low-Density Polyethylene
- Color: Red



### Features:

- Head designed with 6 or 8 ribs for simple hand or mechanical installation
- Used to protect flat-faced o-ring hydraulic fittings



| Item No. | Tubing Size In | To Fit Thread Size | A     |      | B     |       | C     |      | Bulk Pack Qty. |
|----------|----------------|--------------------|-------|------|-------|-------|-------|------|----------------|
|          |                |                    | In    | mm   | In    | mm    | In    | mm   |                |
| TF10A    | 1/4            | 9/16"-18           | 0.250 | 6.40 | 0.690 | 17.50 | 0.380 | 9.50 | 5000           |
| TF20A    | 3/8            | 11/16"-16          | 0.250 | 6.40 | 0.870 | 22.10 | 0.410 | 10.4 | 5000           |
| TF30A    | 1/2            | 13/16"-16          | 0.250 | 6.40 | 0.940 | 23.90 | 0.470 | 11.9 | 5000           |
| TF40A    | 5/8            | 1"-14              | 0.250 | 6.40 | 1.160 | 29.50 | 0.570 | 14.5 | 2500           |
| TF50A    | 3/4            | 1 3/16"-12         | 0.250 | 6.40 | 1.320 | 33.50 | 0.610 | 15.5 | 2500           |
| TF60A    | 1              | 1 7/16"-12         | 0.250 | 6.40 | 1.630 | 41.40 | 0.690 | 17.5 | 1000           |

## FP Series NS & NF Class 1-2-3 Threaded Plugs (O-Ring Optional)

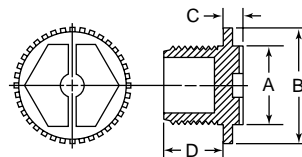
### Specifications:

- Material: Polypropylene
- Color: Red



### Features:

- Can be applied or removed by hand, hex wrench or screwdriver
- The FP series plugs will fit NS and NF Class 1-2-3 standard threads
- Optional O-ring gives this part a watertight seal for superior leakage protection



| Item No. | Item No. w/ O-Ring | To Plug Standard Thread Size | A     |       | B     |       | C     |      | D     |       | Bulk Pack Qty. |
|----------|--------------------|------------------------------|-------|-------|-------|-------|-------|------|-------|-------|----------------|
|          |                    |                              | In    | mm    | In    | mm    | In    | mm   | In    | mm    |                |
| FP104A   | FP104B             | 7/16"-20                     | 0.438 | 11.11 | 0.625 | 15.88 | 0.188 | 4.76 | 0.300 | 7.62  | 9500           |
| FP108A   | FP108B             | 9/16"-18                     | 0.500 | 12.70 | 0.781 | 19.84 | 0.188 | 4.76 | 0.350 | 8.89  | 5000           |
| FP110A   | FP110B             | 5/8"-18                      | 0.563 | 14.29 | 0.813 | 20.64 | 0.188 | 4.76 | 0.350 | 8.89  | 4500           |
| FP115A   | FP115B             | 3/4"-16                      | 0.688 | 17.46 | 0.938 | 23.81 | 0.188 | 4.76 | 0.440 | 11.18 | 2700           |
| FP120A   | FP120B             | 7/8"-14                      | 0.750 | 19.05 | 1.063 | 26.99 | 0.250 | 6.35 | 0.500 | 12.70 | 1800           |
| FP122A   | FP122B             | 1"-14                        | 0.750 | 19.05 | 1.188 | 30.16 | 0.250 | 6.35 | 0.470 | 11.94 | 1500           |



# THREADED PLUGS

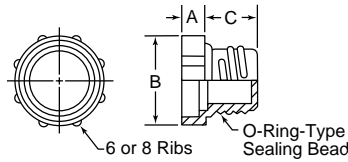
## TMO Series Threaded Plugs for SAE O-Ring Ports

### Specifications:

- Material: High-Density Polyethylene
- Color: Red

### Features:

- Protects threaded components from dust, moisture and damage during production, storage and shipment
- Designed with an easy to grip head for ease of hand installation
- Threads meet UN and UNS specifications
- Integral O-ring type bead prevents leakage and entrance of contaminants



| Item No. | To Fit Standard Thread Size | A     |       | B     |       | C     |      | Bulk Pack Qty. |
|----------|-----------------------------|-------|-------|-------|-------|-------|------|----------------|
|          |                             | In    | mm    | In    | mm    | In    | mm   |                |
| TMO104A  | 7/16"-20                    | 0.320 | 8.13  | 0.650 | 16.51 | 0.380 | 9.65 | 5500           |
| TMO105A  | 1/2"-20                     | 0.320 | 8.13  | 0.720 | 18.29 | 0.380 | 9.65 | 7500           |
| TMO106A  | 9/16"-18                    | 0.360 | 9.14  | 0.780 | 19.81 | 0.380 | 9.65 | 6000           |
| TMO108A  | 3/4"-16                     | 0.400 | 10.16 | 0.980 | 24.89 | 0.380 | 9.65 | 3500           |

| Item No. | To Fit Standard Thread Size | A     |       | B     |       | C     |      | Bulk Pack Qty. |
|----------|-----------------------------|-------|-------|-------|-------|-------|------|----------------|
|          |                             | In    | mm    | In    | mm    | In    | mm   |                |
| TMO110A  | 7/8"-14                     | 0.450 | 11.43 | 1.110 | 28.19 | 0.380 | 9.65 | 2100           |
| TMO112A  | 1-1/16"-12                  | 0.620 | 15.75 | 1.310 | 33.27 | 0.380 | 9.65 | 1200           |
| TMO116A  | 1-5/16"-12                  | 0.620 | 15.75 | 1.560 | 39.62 | 0.380 | 9.65 | 700            |
| TMO120A  | 1-5/8"-12                   | 0.620 | 15.75 | 1.880 | 47.75 | 0.380 | 9.65 | 700            |

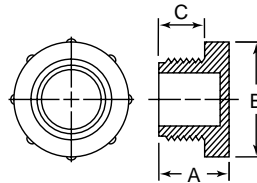
## TPUNF Series UNF/JIC Threaded Plugs

### Specifications:

- Material: Low-Density Polyethylene
- Color: Red

### Features:

- Knurled head for easy grip
- Secure fit for excellent protection against dirt, moisture and corrosion



| Item No. | To Fit UNF/JIC Thread Size | A     |       | B     |       | C     |       | Bulk Pack Qty. |
|----------|----------------------------|-------|-------|-------|-------|-------|-------|----------------|
|          |                            | In    | mm    | In    | mm    | In    | mm    |                |
| 10498A   | 5/16" - 18                 | 0.472 | 12.00 | 0.571 | 14.50 | 0.291 | 7.40  | 5000           |
| 10709A   | 5/16" - 24                 | 0.484 | 12.30 | 0.583 | 14.80 | 0.291 | 7.40  | 5000           |
| 10692A   | 3/8" - 24                  | 0.551 | 14.00 | 0.539 | 13.70 | 0.374 | 9.50  | 5000           |
| 10763A   | 7/16" - 20                 | 0.634 | 16.10 | 0.685 | 17.40 | 0.433 | 11.00 | 5000           |
| 12031A   | 7/16" - 24                 | 0.476 | 12.10 | 0.701 | 17.80 | 0.28  | 7.10  | 5000           |
| 10696A   | 1/2" - 20                  | 0.602 | 15.30 | 0.728 | 18.50 | 0.413 | 10.50 | 5000           |
| 10668A   | 9/16" - 18                 | 0.606 | 15.40 | 0.890 | 22.60 | 0.421 | 10.70 | 5000           |
| 12033A   | 9/16" - 24                 | 0.535 | 13.60 | 0.744 | 18.90 | 0.354 | 9.00  | 5000           |
| 10940A   | 5/8" - 18                  | 0.583 | 14.80 | 0.827 | 21.00 | 0.394 | 10.00 | 5000           |
| 12965A   | 5/8" - 24                  | 0.583 | 14.80 | 0.815 | 20.70 | 0.394 | 10.00 | 5000           |
| 12786A   | 11/16" - 16                | 0.713 | 18.10 | 1.008 | 25.60 | 0.531 | 13.50 | 3000           |

| Item No. | To Fit UNF/JIC Thread Size | A     |       | B     |       | C     |       | Bulk Pack Qty. |
|----------|----------------------------|-------|-------|-------|-------|-------|-------|----------------|
|          |                            | In    | mm    | In    | mm    | In    | mm    |                |
| 10575A   | 3/4" - 16                  | 0.736 | 18.70 | 1.063 | 27.00 | 0.543 | 13.80 | 3000           |
| 12827A   | 13/16" - 16                | 0.713 | 18.10 | 1.051 | 26.70 | 0.531 | 13.50 | 2500           |
| 10326A   | 7/8" - 14                  | 0.728 | 18.50 | 1.134 | 28.80 | 0.535 | 13.60 | 2500           |
| 12785A   | 1" - 14                    | 0.701 | 17.80 | 1.26  | 32.00 | 0.52  | 13.20 | 2000           |
| 10460A   | 1-1/16" - 12               | 0.724 | 18.40 | 1.315 | 33.40 | 0.543 | 13.80 | 2000           |
| 12359A   | 1-1/16" - 14               | 0.720 | 18.30 | 1.311 | 33.30 | 0.539 | 13.70 | 2000           |
| 11506A   | 1-3/16" - 12               | 0.72  | 18.30 | 1.449 | 36.80 | 0.531 | 13.50 | 1500           |
| 10671A   | 1-5/16" - 12               | 0.642 | 16.30 | 1.547 | 39.30 | 0.433 | 11.00 | 1500           |
| 11752A   | 1-5/8" - 12                | 0.681 | 17.30 | 1.992 | 50.60 | 0.508 | 12.90 | 800            |
| 11755A   | 1-7/8" - 12                | 0.886 | 22.50 | 2.299 | 58.40 | 0.657 | 16.70 | 400            |
| 12040A   | 2-1/2" - 12                | 0.811 | 20.60 | 2.898 | 73.60 | 0.591 | 15.00 | 300            |

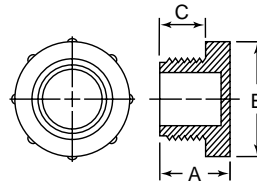
## TP Metric & TPBSP Series Metric & BSP Threaded Plugs

### Specifications:

- Material: Low-Density Polyethylene
- Color: Red

### Features:

- Series accommodates an extensive range of metric and BSP/Gas threaded sizes
- Knurled head for easy grip
- Secure fit for excellent protection against dirt, moisture and corrosion



### Metric Threads

| Item No. | To Fit Metric Thread Size | A     |       | B     |       | C     |       | Bulk Pack Qty. |
|----------|---------------------------|-------|-------|-------|-------|-------|-------|----------------|
|          |                           | In    | mm    | In    | mm    | In    | mm    |                |
| 12011A   | M8 x 1                    | 0.562 | 14.27 | 0.484 | 12.29 | 0.374 | 9.50  | 5000           |
| 12012A   | M10 x 1                   | 0.574 | 14.58 | 0.602 | 15.29 | 0.409 | 10.39 | 5000           |
| 12013A   | M12 x 1                   | 0.657 | 16.69 | 0.728 | 18.49 | 0.421 | 10.69 | 5000           |
| *12017A  | M12 x 1.5                 | 0.641 | 16.28 | 0.657 | 16.69 | 0.342 | 8.69  | 5000           |
| *12018A  | M14 x 1.5                 | 0.677 | 17.20 | 0.728 | 18.49 | 0.374 | 9.50  | 5000           |
| 12019A   | M16 x 1.5                 | 0.677 | 17.20 | 0.866 | 22.00 | 0.492 | 12.50 | 3000           |
| 10458A   | M18 x 1.5                 | 0.720 | 18.29 | 0.960 | 24.38 | 0.539 | 13.69 | 4000           |
| 12020A   | M20 x 1.5                 | 0.716 | 18.19 | 1.035 | 26.29 | 0.551 | 14.00 | 3000           |
| 10128A   | M22 x 1.5                 | 0.720 | 18.29 | 1.110 | 28.19 | 0.539 | 13.69 | 3000           |
| 12021A   | M24 x 1.5                 | 0.728 | 18.49 | 1.232 | 31.29 | 0.543 | 13.79 | 2000           |
| 12022A   | M25 x 1.5                 | 0.728 | 18.49 | 1.232 | 31.30 | 0.551 | 14.00 | 2500           |
| 12023A   | M26 x 1.5                 | 0.736 | 18.69 | 1.287 | 32.69 | 0.543 | 13.79 | 2000           |
| 12030A   | M52 x 1.5                 | 0.846 | 21.50 | 2.508 | 63.70 | 0.610 | 15.50 | 500            |

### BSP/Gas Threads

| Item No. | To Fit BSP/Gas Thread Size | A     |       | B     |        | C     |       | Bulk Pack Qty. |
|----------|----------------------------|-------|-------|-------|--------|-------|-------|----------------|
|          |                            | In    | mm    | In    | mm     | In    | mm    |                |
| 10651A   | 1/8" x 28                  | 0.413 | 10.50 | 0.646 | 16.40  | 0.165 | 4.20  | 5000           |
| 10588A   | 1/4" x 19                  | 0.504 | 12.80 | 0.740 | 18.80  | 0.256 | 6.50  | 5000           |
| 10996A   | 3/8" x 19                  | 0.472 | 12.00 | 0.902 | 22.90  | 0.217 | 5.50  | 5000           |
| 10590A   | 1/2" x 14                  | 0.681 | 17.30 | 1.102 | 28.00  | 0.406 | 10.30 | 3000           |
| 10511A   | 5/8" x 14                  | 0.724 | 18.40 | 1.232 | 31.30  | 0.547 | 13.90 | 2500           |
| 10731A   | 3/4" x 14                  | 0.669 | 17.00 | 1.272 | 32.30  | 0.633 | 11.00 | 2000           |
| 11429B   | 7/8" x 14                  | 0.713 | 18.10 | 1.496 | 38.00  | 0.531 | 13.50 | 1500           |
| 10810A   | 1" x 11                    | 0.665 | 16.90 | 1.567 | 39.80  | 0.425 | 10.80 | 1500           |
| 10459A   | 1-1/4" x 11                | 0.823 | 20.90 | 1.965 | 49.90  | 0.591 | 15.00 | 800            |
| 11242A   | 1-1/2" x 11                | 0.665 | 16.90 | 2.173 | 55.20  | 0.425 | 10.80 | 600            |
| 10496A   | 2" x 11                    | 0.689 | 17.50 | 2.902 | 73.70  | 0.421 | 10.70 | 400            |
| 10319A   | 3" x 11                    | 0.650 | 16.50 | 4.134 | 105.00 | 0.445 | 11.30 | 150            |

\* The 12017A and the 12018A have a hexagonal head



## MP Series NS & NF Class 1-2-3 Threaded Plugs

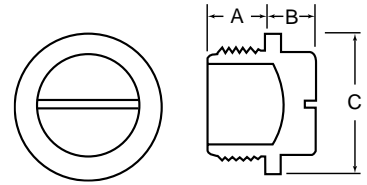
### Specifications:

- Material: Acetate
- Color: Yellow



### Features:

- Will fit NS and NF Class 1-2-3 standard threads Go Gage only
- The MP531B fit NC threads only
- Can be applied or removed by hand, wrench or screwdriver



| Item No. | To Plug Standard Thread Size | A     |      | B     |      | C     |       | Bulk Pack Qty. |
|----------|------------------------------|-------|------|-------|------|-------|-------|----------------|
|          |                              | In    | mm   | In    | mm   | In    | mm    |                |
| MP70B    | 3/8"-24                      | 0.312 | 7.93 | 0.343 | 8.73 | 0.625 | 15.87 | 3500           |
| MP73B    | 7/16"-20                     | 0.312 | 7.93 | 0.375 | 9.52 | 0.687 | 17.46 | 3700           |
| MP531B   | 1/2"-13                      | 0.375 | 9.52 | 0.375 | 9.52 | 0.875 | 22.22 | 3000           |
| MP76B    | 1/2"-20                      | 0.375 | 9.52 | 0.375 | 9.52 | 0.750 | 19.05 | 3300           |
| MP78B    | 9/16"-18                     | 0.375 | 9.52 | 0.375 | 9.52 | 0.812 | 20.63 | 2500           |
| MP81B    | 3/4"-16                      | 0.375 | 9.52 | 0.343 | 8.73 | 1.000 | 25.40 | 1600           |
| MP90B    | 7/8"-18                      | 0.375 | 9.52 | 0.343 | 8.73 | 1.062 | 26.97 | 1300           |
| MP95B    | 1-1/8"-12                    | 0.375 | 9.52 | 0.343 | 8.73 | 1.312 | 33.32 | 1000           |

## TSP Series Metric & BSP Threaded Plugs

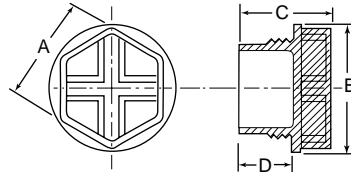


### Specifications:

- Material: High-Density Polyethylene
- Color: Yellow

### Features:

- Can be manually applied or removed with a screwdriver, spanner or socket, or with power tools
- Designed with short threads for fast assembly and removal



### Metric

| Item No. | To Fit Metric Thread Size | A     |       | B     |       | C     |       | D     |       | Bulk Pack Qty. |
|----------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
|          |                           | In    | mm    | In    | mm    | In    | mm    | In    | mm    |                |
| 12139A   | M8 x 1                    | 0.394 | 10.00 | 0.472 | 12.00 | 0.551 | 14.00 | 0.276 | 7.00  | 5000           |
| 12140A   | M10 x 1                   | 0.472 | 12.00 | 0.551 | 14.00 | 0.512 | 13.00 | 0.236 | 6.00  | 5000           |
| 12141A   | M12 x 1                   | 0.512 | 13.00 | 0.630 | 16.00 | 0.630 | 16.00 | 0.354 | 9.00  | 5000           |
| 12142A   | M14 x 1                   | 0.630 | 16.00 | 0.748 | 19.00 | 0.669 | 17.00 | 0.354 | 9.00  | 3000           |
| 12144A   | M12 x 1.5                 | 0.512 | 13.00 | 0.630 | 16.00 | 0.669 | 17.00 | 0.354 | 9.00  | 5000           |
| 12145A   | M14 x 1.5                 | 0.630 | 16.00 | 0.748 | 19.00 | 0.669 | 17.00 | 0.354 | 9.00  | 5000           |
| 12146A   | M16 x 1.5                 | 0.709 | 18.00 | 0.827 | 21.00 | 0.748 | 19.00 | 0.394 | 10.00 | 3000           |
| 12147A   | M18 x 1.5                 | 0.787 | 20.00 | 0.945 | 24.00 | 0.748 | 19.00 | 0.394 | 10.00 | 3000           |
| 12148A   | M20 x 1.5                 | 0.866 | 22.00 | 1.024 | 26.00 | 0.827 | 21.00 | 0.472 | 12.00 | 3000           |

## DP Series UNJ/UNJS Threaded Plugs

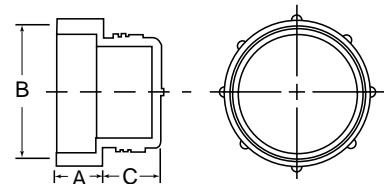
### Specifications:

- Material: High-Density Polyethylene
- Color: Red



### Features:

- Protects threaded components from dust, moisture and damage during production, storage and shipment
- Designed with an easy to grip head for ease of hand installation
- Threads meet UNJ and UNJS specifications



| Item No. | To Cap UNJ/UNJS Thread Size | Tubing Size In | A     |      | B     |       | C     |       | Bulk Pack Qty. |
|----------|-----------------------------|----------------|-------|------|-------|-------|-------|-------|----------------|
|          |                             |                | In    | mm   | In    | mm    | In    | mm    |                |
| DP3A     | 3/8"-28                     | 3/16           | 0.250 | 6.35 | 0.440 | 11.18 | 0.280 | 7.11  | 5000           |
| DP4A     | 7/16"-24                    | 1/4            | 0.310 | 7.87 | 0.560 | 14.22 | 0.300 | 7.62  | 5000           |
| DP5A     | 1/2"-24                     | 5/16           | 0.310 | 7.87 | 0.620 | 15.75 | 0.300 | 7.62  | 5000           |
| DP6A     | 9/16"-20                    | 3/8            | 0.310 | 7.87 | 0.690 | 17.53 | 0.320 | 8.13  | 5000           |
| DP8A     | 23/32"-20                   | 1/2            | 0.310 | 7.87 | 0.880 | 22.35 | 0.320 | 8.13  | 5000           |
| DP10A    | 27/32"-18                   | 5/8            | 0.310 | 7.87 | 1.000 | 25.40 | 0.400 | 10.16 | 2500           |
| DP12A    | 1"-16                       | 3/4            | 0.310 | 7.87 | 1.120 | 28.45 | 0.420 | 10.67 | 2500           |
| DP14A    | 1-1/8"-16                   | 7/8            | 0.250 | 6.35 | 1.250 | 31.75 | 0.450 | 11.43 | 2500           |
| DP16A    | 1-1/4"-14                   | 1              | 0.250 | 6.35 | 1.380 | 35.05 | 0.450 | 11.43 | 2000           |
| DP20A    | 1-33/64"-14                 | 1-1/4          | 0.250 | 6.35 | 1.620 | 41.15 | 0.450 | 11.43 | 1000           |
| DP21SA   | 1-37/64"-14                 | 1-1/4          | 0.250 | 6.35 | 1.750 | 44.45 | 0.460 | 11.68 | 1000           |
| DP24A    | 1-25/32"-14                 | 1-1/2          | 0.250 | 6.35 | 2.000 | 50.80 | 0.550 | 13.97 | 1000           |
| DP25SA   | 1-27/32"-14                 | 1-1/2          | 0.250 | 6.35 | 2.120 | 53.85 | 0.550 | 13.97 | 1000           |



# NETTING

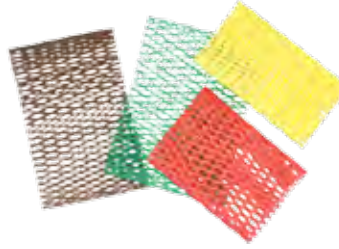
## FNC Series Flexible Protective Netting (Tector-Net)

### Specifications:

- Material: Low-Density Polyethylene
- Color: Refer to charts

### Features:

- Easily applied and removed
- Reduces labor cost, inventory cost, damage claims and returns
- Does not trap or retain moisture
- Stretches and wraps snugly around virtually any form



| Item No.   | Flexible Dia. Range |               | Color   | Roll Length |     |
|------------|---------------------|---------------|---------|-------------|-----|
|            | In                  | mm            |         | Ft          | M   |
| FNC0025SRA | 0.250-0.375         | 6.35-9.53     | Red     | 820         | 249 |
| FNC0025LRA | 0.250-0.375         | 6.35-9.53     | Red     | 1500        | 457 |
| FNC0037SRA | 0.375-0.625         | 9.53-15.88    | Orange  | 820         | 249 |
| FNC0037LRA | 0.375-0.625         | 9.53-15.88    | Orange  | 1500        | 457 |
| FNC0050SRA | 0.50-1              | 12.70-25.40   | Blue    | 820         | 249 |
| FNC0050LRA | 0.50-1              | 12.70-25.40   | Blue    | 1500        | 457 |
| FNC0100SRA | 1-2                 | 25.40-50.80   | Yellow  | 164         | 49  |
| FNC0100LRA | 1-2                 | 25.40-50.80   | Yellow  | 1500        | 457 |
| FNC0200SRA | 2-4                 | 50.80-101.60  | Red     | 164         | 49  |
| FNC0200LRA | 2-4                 | 50.80-101.60  | Red     | 1500        | 457 |
| FNC0400SRA | 4-6                 | 101.60-152.40 | Green   | 164         | 49  |
| FNC0400LRA | 4-6                 | 101.60-152.40 | Green   | 500         | 152 |
| FNC0600SRA | 6-8                 | 152.40-203.20 | Brown   | 164         | 49  |
| FNC0600LRA | 6-8                 | 152.40-203.20 | Brown   | 500         | 152 |
| FNC0800SRA | 8-10                | 203.20-254.00 | Natural | 164         | 49  |
| FNC1000SRA | 10-12               | 254.00-304.80 | Green   | 82          | 24  |

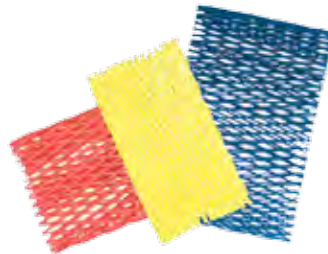
## FNH Series Heavy Gauge Protective Netting

### Specifications:

- Material: Low-Density Polyethylene
- Color: Refer to charts

### Features:

- Easily applied and removed
- Reduces labor cost, inventory cost, damage claims and returns
- Does not trap or retain moisture
- Stretches and wraps snugly around virtually any form
- The FNH Series has heavier gauge material for applications that need a more durable protection



| Item No.   | Flexible Dia. Range |               | Color  | Roll Length |     |
|------------|---------------------|---------------|--------|-------------|-----|
|            | In                  | mm            |        | Ft          | M   |
| FNH0050LRA | 0.500-1             | 12.70-25.40   | Blue   | 820         | 249 |
| FNH0125A   | 1.250-1.625         | 31.75-41.28   | Yellow | 82          | 24  |
| FNH0200A   | 2-2.500             | 50.80-63.50   | Red    | 82          | 24  |
| FNH0250A   | 2.500-3             | 63.50-76.20   | Green  | 82          | 24  |
| FNH0300A   | 3-4                 | 76.20-101.60  | Green  | 82          | 24  |
| FNH0400A   | 4-4.500             | 101.60-114.30 | Yellow | 82          | 24  |
| FNH0475A   | 4.750-5.500         | 120.65-139.70 | Red    | 82          | 24  |
| FNH0550A   | 5.500-6.750         | 139.70-171.45 | Blue   | 82          | 24  |
| FNH0675A   | 6.750-8             | 171.45-203.20 | Green  | 82          | 24  |

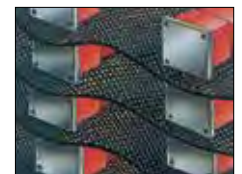
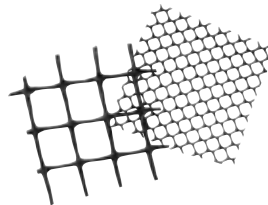
## AFN Series Part Separator Netting

### Specifications:

- Material: High-Density Polyethylene
- Color: Black

### Features:

- Separates and stacks parts without damage or liquid build-up
- Durable, washable and reusable
- Promotes movement of liquid and airflow in cleaning, degreasing and drying processes
- Process more parts more efficiently
- Reduces damage claims and returns



| Item No.   | Mesh Size |       | Roll Width |         | Thickness |      | Roll Length |    |
|------------|-----------|-------|------------|---------|-----------|------|-------------|----|
|            | In        | mm    | In         | mm      | In        | mm   | Ft          | m  |
| AFN0125FRA | 0.125     | 3.17  | 36.000     | 914.40  | 0.063     | 1.60 | 50          | 15 |
| AFN0250FRA | 0.250     | 6.35  | 48.000     | 1219.20 | 0.094     | 2.38 | 50          | 15 |
| AFN0500FRA | 0.500     | 12.70 | 48.000     | 1219.20 | 0.128     | 3.25 | 50          | 15 |
| AFN0750FRA | 0.750     | 17.78 | 48.000     | 1219.20 | 0.156     | 3.96 | 50          | 15 |
| AFN1000FRA | 1.000     | 25.40 | 48.000     | 1219.20 | 0.162     | 4.11 | 50          | 15 |



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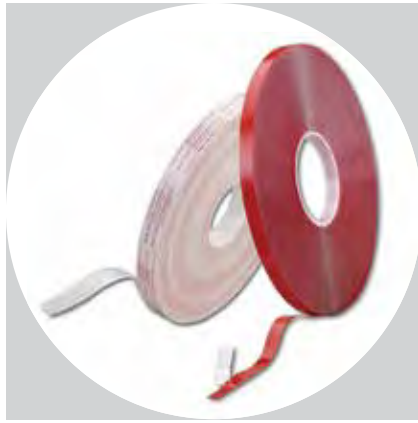
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