FEDERAL HOSE® Since 1921









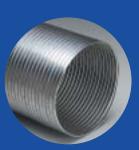




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SuperFlex[™]

Smooth Bore Metal Hose

<u>Federal's SuperFlex</u> metal hoses offer faster flow and less energy consumption due to their "Smooth Bore" interior surface. "Smooth Bore" hose virtually eliminates product damage and degradation so often attributed to the 'excess turbulence' caused by the internal roughness of other hoses.

Applications

Pneumatic and gravity feeding of bulk materials for: ships and barges, elevators, silos, rail cars, trucks, tanks, portable in-plant and off-site locations.

| Temperature - Low/High | - 60°F to +1800°F |
|------------------------------|-----------------------|
| Abrasion - Interior/Exterior | Good/Good |
| Flexibility | Stiff |
| Pressure | 15psi Packed (Cotton) |
| Chemical | Excellent |
| Standard Length | 25' |
| Size - ID | 1.50" to 16" ID |



| Catalog Order Code | Armor Material | Armor Thickness | Liner Material | Liner Thickness | Extension-Compression % of Length |
|-----------------------|-------------------|--------------------|-------------------|--------------------|-----------------------------------|
| SF300 | Type 304 | .015" | Туре 304 | .015" | ±2% |
| Light Duty | Stainless Steel | | Stainless Steel | | |
| SF400 | Type 304 | .018" | Туре 304 | .015" | ±1 ^{1/2} % |
| Med. Duty | Stainless Steel | | Stainless Steel | | |
| SF500 | Type 304 | .018" | Туре 304 | .018" | ±1% |
| Heavy Duty | Stainless Steel | | Stainless Steel | | |

| Temperature | | | | |
|--------------|----------------|----------------------|-----------------|--|
| GT Packing: | -20° to 180°F | (Neg. 20 in. HG) | (Pos 20 P.S.I.) | |
| AP Packing: | -40° to 400°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| CC Packing: | -60° to 300°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| SS Packing: | -60° to 1800°F | (Neg. 10 in. HG) | (Pos 15 P.S.I.) | |
| SIL Packing: | -65° to 500°F | (Neg. 20 in. HG) | (Pos 20 P.S.I.) | |
| CPR Packing: | -40° to 500°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| Unpacked: | -60° to 1800°F | (No pressure rating) | | |



Packing Key

GT = Gas Tight

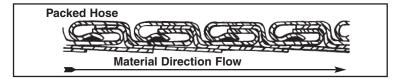
AP = Apyrous Filament

CC = Cotton Cord

SS = Stainless Steel

SIL = Silicone

CPR = Copper



SuperFlex 300 • Light Duty

| | Superflex 300 | Bend Radius | HoseWeight |
|----------|---------------|-------------|-------------|
| Diameter | Part # | (Inches) | (Lbs./Foot) |
| 1.50 | 11626 | 9.2 | 1.29 |
| 1.75 | 11301 | 11.5 | 1.50 |
| 2.00 | 11628 | 13.0 | 1.71 |
| 2.25 | 11302 | 14.5 | 1.91 |
| 2.50 | 11630 | 15.0 | 2.12 |
| 2.75 | 10717 | 15.9 | 2.31 |
| 3.00 | 11633 | 18.0 | 2.52 |
| 3.50 | 10718 | 18.6 | 2.93 |
| 4.00 | 11635 | 19.1 | 3.35 |
| 4.50 | 10719 | 22.0 | 3.76 |
| 5.00 | 11637 | 25.0 | 4.18 |
| 6.00 | 11639 | 27.0 | 4.99 |
| 7.00 | 10387 | 29.0 | 5.82 |
| 8.00 | 11641 | 32.0 | 6.65 |

SuperFlex 400 • Medium Duty

| | Superflex 400 | Bend Radius | HoseWeight |
|----------|---------------|-------------|------------|
| Diameter | Part # | (Inches) | (Lbs/Foot) |
| 1.50 | 11449 | 12.4 | 1.45 |
| 1.75 | 11450 | 14.0 | 1.68 |
| 2.00 | 11453 | 16.5 | 1.92 |
| 2.25 | 10388 | 17.0 | 2.15 |
| 2.50 | 11487 | 18.1 | 2.37 |
| 2.75 | 10721 | 18.3 | 2.60 |
| 3.00 | 11460 | 20.0 | 2.82 |
| 3.50 | 10722 | 21.0 | 3.29 |
| 4.00 | 11462 | 22.5 | 3.75 |
| 4.50 | 11303 | 24.8 | 4.21 |
| 5.00 | 11489 | 26.9 | 4.68 |
| 6.00 | 11492 | 31.0 | 5.59 |
| 7.00 | 11304 | 32.5 | 6.52 |
| 8.00 | 11494 | 36.0 | 7.74 |
| 10.00 | 11500 | 50.0 | 9.65 |
| 12.00 | 11501 | 60.0 | 11.65 |
| 14.00 | 11305 | 70.0 | 13.47 |
| 16.00 | 11306 | 0.08 | 15.39 |

SuperFlex 500 • Heavy Duty

| | Superflex 500 | Bend Radius | HoseWeight |
|----------|-----------------|-------------|-------------|
| Diameter | Part # | (Inches) | (Lbs./Foot) |
| 2.00 | 13773 | 17.0 | 2.12 |
| 2.25 | 14817 | 17.5 | 2.35 |
| 2.50 | 13892 | 18.6 | 2.57 |
| 2.75 | Consult Factory | 19.0 | 2.80 |
| 3.00 | 11703 | 20.5 | 3.03 |
| 3.50 | 10725 | 21.3 | 3.52 |
| 4.00 | 10648 | 22.0 | 4.02 |
| 4.50 | 10726 | 25.0 | 4.51 |
| 5.00 | 10650 | 27.5 | 4.98 |
| 6.00 | 10651 | 33.0 | 5.99 |
| 7.00 | 10728 | 37.0 | 7.31 |
| 8.00 | 10652 | 39.0 | 8.36 |
| 10.00 | 10653 | 42.0 | 10.50 |
| 12.00 | 10729 | 47.0 | 12.48 |
| 14.00 | 10730 | 55.0 | 14.54 |
| 16.00 | 10731 | 62.5 | 16.56 |



GalvaFlex™

Smooth Bore Metal Hose

<u>Federal's Galvaflex</u> metal hose offers faster flow and less energy consumption due to its "Smooth Bore" smooth interior surface. This promotes a low friction material flow. "Smooth Bore" hose virtually eliminates product damage and degradation so often attributed to the 'excess turbulence' caused by the internal roughness of other hoses.

Applications

Pneumatic and gravity feeding of bulk materials for: ships and barges, elevators, silos, rail cars, trucks, tanks, portable in-plant and off-site locations.

| Temperature - Low/High | - 60°F to +450°F |
|------------------------------|-----------------------|
| Abrasion - Interior/Exterior | Good/Good |
| Flexibility | Stiff |
| Pressure | 15psi Packed (Cotton) |
| Chemical | Good |
| Standard Length | 25' |
| Size - ID | 1.50" to 16" ID |

Standard construction unpacked

| TOTAL STREET |
|--------------|

| Catalog Order Code | Armor Material | Armor Thickness | Liner Material | Liner Thickness | Extension-Compression % of Length |
|--------------------|-------------------|--------------------|-------------------|--------------------|-----------------------------------|
| 150C | Hot Dip | .015" | Galvanized | .015" | ±2% |
| Light Duty | Galvanized Steel | | Steel | | |
| 1 <i>5</i> 0S | Hot Dip | .015" | Stainless | .015" | ±2% |
| Light Duty | Galvanized Steel | | Steel | | |
| 250C | Hot Dip | .018" | Galvanized | .015" | ±11/2% |
| Med. Duty | Galvanized Steel | | Steel | | |
| 250S | Hot Dip | .018" | Stainless | .015" | ±11/2% |
| Med. Duty | Galvanized Steel | | Steel | | |
| 350C | Hot Dip | .018″ | Galvanized | .018" | ±1% |
| Heavy Duty | Galvanized Steel | | Steel | | |
| 350S | Hot Dip | .018″ | Stainless | .018″ | ±1% |
| Heavy Duty | Galvanized Steel | | Steel | | |

| Temperature | | | | |
|--------------|----------------|----------------------|-----------------|--|
| GT Packing: | -20° to 180°F | (Neg. 20 in. HG) | (Pos 20 P.S.I.) | |
| AP Packing: | -40° to 400°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| CC Packing: | -60° to 300°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| SS Packing: | -60° to 1800°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| SIL Packing: | -65° to 500°F | (Neg. 20 in. HG) | (Pos 20 P.S.I.) | |
| CPR Packing: | -40° to 500°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| Unpacked: | -60° to 1800°F | (No pressure rating) | | |

Packing Key

GT = Gas Tight

AP = Apyrous Filament

CC = Cotton Cord

SS = Stainless Steel

SIL = Silicone

CPR = Copper

GalvaFlex 150C / 150S • Light Duty

| | Galvaflex 150-C | Galvaflex 150-S | Bend Radius | Hose Weight |
|----------|-----------------|-----------------|-------------|-------------|
| Diameter | Part # | Part # | (Inches) | (Lbs./Foot) |
| 1.50 | 10036 | 10540 | 9.2 | 1.29 |
| 1.75 | 10732 | 10788 | 11.5 | 1.50 |
| 2.00 | 10039 | 10790 | 13.0 | 1.71 |
| 2.25 | 10776 | 10741 | 14.5 | 1.91 |
| 2.50 | 10044 | 10742 | 15.0 | 2.12 |
| 2.75 | 10779 | 10744 | 15.9 | 2.31 |
| 3.00 | 10046 | 10542 | 18.0 | 2.52 |
| 3.50 | 10782 | 10745 | 18.6 | 2.93 |
| 4.00 | 10047 | 10545 | 19.1 | 3.35 |
| 4.50 | 10783 | 10547 | 22.0 | 3.76 |
| 5.00 | 10048 | 10549 | 25.0 | 4.18 |
| 6.00 | 10050 | 10550 | 27.0 | 4.99 |
| 7.00 | 10787 | 10747 | 29.0 | 5.82 |
| 8.00 | 10051 | 10749 | 32.0 | 6.65 |

GalvaFlex 250C / 250S • Medium Duty

| | Galvaflex 250-C | Galvaflex 250-S | Bend Radius | Hose Weight |
|----------|-----------------|-----------------|-------------|-------------|
| Diameter | Part # | Part # | (Inches) | (Lbs./Foot) |
| 1.50 | 19892 | Consult Factory | 12.4 | 1.45 |
| 1.75 | 18841 | Consult Factory | 14.0 | 1.68 |
| 2.00 | 10751 | 12104 | 16.5 | 1.92 |
| 2.25 | 10752 | 12105 | 17.0 | 2.15 |
| 2.50 | 10560 | 11578 | 18.1 | 2.37 |
| 2.75 | 12783 | 12106 | 18.3 | 2.60 |
| 3.00 | 12100 | 11579 | 20.0 | 2.82 |
| 3.50 | 10564 | 12107 | 21.0 | 3.29 |
| 4.00 | 10566 | 11582 | 22.5 | 3.75 |
| 4.50 | 10567 | 12108 | 24.8 | 4.21 |
| 5.00 | 10570 | 11590 | 26.9 | 4.68 |
| 6.00 | 10571 | 12109 | 31.0 | 5.59 |
| 7.00 | 12101 | 11591 | 32.5 | 6.52 |
| 8.00 | 10573 | 11596 | 36.0 | 7.74 |
| 10.00 | 10574 | 12110 | 50.0 | 9.65 |
| 12.00 | 10575 | 12111 | 60.0 | 11.65 |
| 14.00 | 12102 | 12112 | 70.0 | 13.47 |
| 16.00 | 12103 | 12113 | 80.0 | 15.39 |

GalvaFlex 350C / 350S • Heavy Duty

| | Galvaflex 350-C | Galvaflex 350-S | Bend Radius | Hose Weight |
|----------|-----------------|-----------------|-------------|-------------|
| Diameter | Part # | Part # | (Inches) | (Lbs./Foot) |
| 3.00 | 10584 | 11610 | 20.5 | 3.03 |
| 3.50 | 12114 | 12122 | 21.3 | 3.52 |
| 4.00 | 10585 | 12123 | 22.0 | 4.02 |
| 4.50 | 12115 | 12124 | 25.0 | 4.51 |
| 5.00 | 12116 | 12125 | 27.5 | 4.98 |
| 6.00 | 10586 | 12126 | 33.0 | 5.99 |
| 7.00 | 12117 | 12127 | 37.0 | 7.31 |
| 8.00 | 12118 | 12128 | 39.0 | 8.36 |
| 10.00 | 12119 | 12129 | 42.0 | 10.50 |
| 12.00 | 10311 | 12130 | 47.0 | 12.48 |
| 14.00 | 12120 | 12131 | 55.0 | 14.54 |
| 16.00 | 12121 | 12132 | 62.5 | 16.56 |

Stainless Steel

Rough Bore Metal Hose

Packed or Unpacked stainless steel unlined hose available in a variety of metal thicknesses from .010 to .030. Used for longevity and corrosive atmospheres.

Applications

- Exhaust Systems Conduit Spouts Casing
- Chimney Liners Dry Bulk Product Transfer

| Temperature - Low/High | - 60°F to +2100°F |
|------------------------------|----------------------------------|
| Abrasion - Interior/Exterior | Good/Good |
| Flexibility | Medium Flexibility |
| Pressure | Low 5psi Unpacked / 15psi Packed |
| Chemical | Excellent |
| Standard Length | 25' |
| Size - ID | .750" to 16" ID |

R-200-S .010" Strip Thickness

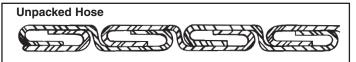
| Diameter | Part # | Bend | Hose |
|----------|--------|----------|-------------|
| | | Radius | Weight |
| | | (Inches) | (Lbs./Foot) |
| 1.50 | 10555 | 6.8 | 0.49 |
| 1.75 | 10556 | 7.0 | 0.57 |
| 2.00 | 10558 | 7.5 | 0.64 |
| 2.25 | 10562 | 7.8 | 0.72 |
| 2.50 | 10563 | 8.5 | 0.80 |
| 2.75 | 12159 | 9.2 | 0.87 |
| 3.00 | 10565 | 10.0 | 0.95 |
| 3.50 | 10569 | 10.5 | 1.10 |
| 4.00 | 10572 | 14.5 | 1.40 |
| 4.50 | 10577 | 16.3 | 1.50 |
| 5.00 | 10579 | 18.0 | 1.70 |
| 6.00 | 10583 | 21.8 | 2.00 |



| • |
|-----------------------|
| GT = Gas Tight |
| AP = Apyrous Filament |
| CC = Cotton Cord |
| SS = Stainless Steel |
| SIL = Silicone |
| CPR = Copper |

| | Temperature | | |
|--------------|----------------|----------------------|-----------------|
| GT Packing: | -20° to 180°F | (Neg. 20 in. HG) | (Pos 20 P.S.I.) |
| AP Packing: | -40° to 400°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) |
| CC Packing: | -60° to 300°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) |
| SS Packing: | -60° to 1800°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) |
| SIL Packing: | -65° to 500°F | (Neg. 20 in. HG) | (Pos 20 P.S.I.) |
| CPR Packing: | -40° to 500°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) |
| Unpacked: | -60° to 1800°F | (No pressure rating) | |







R-300-S .015" Strip Thickness

| Diameter | Part # | Bend Radius | Hose |
|----------|--------|----------------|--------------------|
| | | (Inches) | Weight (Lbs./Foot) |
| 1.50 | 10315 | 6.9 | 0.75 |
| 1.75 | 12165 | 7.0 | 0.86 |
| 2.00 | 10308 | 8.0 | 0.98 |
| 2.25 | 10320 | 9.0 | 1.09 |
| 2.50 | 10322 | 10.0 | 1.21 |
| 2.75 | 12166 | 11.0 | 1.33 |
| 3.00 | 10323 | 12.0 | 1.45 |
| 3.50 | 10328 | 16.5 | 1.68 |
| 4.00 | 10329 | 18.0 | 1.91 |
| 4.50 | 12167 | 19.0 | 2.14 |
| 5.00 | 10335 | 19.5 | 2.39 |
| 6.00 | 10337 | 23.5 | 2.85 |
| 7.00 | 10339 | 26.4 | 3.32 |
| 8.00 | 10340 | 27.0 | 3.78 |
| 10.00 | N/A | N/A | N/A |
| 12.00 | N/A | N/A | N/A |
| 14.00 | N/A | N/A | N/A |
| 16.00 | N/A | N/A | N/A |

.018" Strip Thickness

| Diameter | Part # | Bend | Hose |
|----------|---------|----------|-------------|
| Diameter | 1 art # | Radius | Weight |
| | | (Inches) | (Lbs./Foot) |
| 1.50 | 10402 | 7.3 | 0.94 |
| 1.75 | 10403 | 7.5 | 1.10 |
| 2.00 | 10404 | 7.8 | 1.23 |
| 2.25 | 12169 | 8.8 | 1.40 |
| 2.50 | 10405 | 9.7 | 1.53 |
| 2.75 | 12632 | 10.7 | 1.67 |
| 3.00 | 10406 | 11.7 | 1.82 |
| 3.50 | 10411 | 12.2 | 2.11 |
| 4.00 | 10414 | 14.1 | 2.40 |
| 4.50 | 10423 | 16.0 | 2.70 |
| 5.00 | 10424 | 17.8 | 2.99 |
| 6.00 | 10427 | 21.0 | 3.57 |
| 7.00 | 12170 | 24.5 | 4.16 |
| 8.00 | 10434 | 27.5 | 4.64 |
| 10.00 | 10442 | 28.0 | 5.79 |
| 12.00 | 10444 | 34.0 | 6.94 |
| 14.00 | 10446 | 42.0 | 8.08 |
| 16.00 | 12172 | 48.0 | 9.20 |

R-500-S .024" Strip Thickness

| Diameter | Part # | Bend | Hose |
|----------|--------|----------|-------------|
| | | Radius | Weight |
| | | (Inches) | (Lbs./Foot) |
| 2.00 | 12173 | 8.3 | 1.62 |
| 2.25 | 12174 | 9.4 | 1.80 |
| 2.50 | 10513 | 10.0 | 2.00 |
| 2.75 | 12175 | 11.5 | 2.18 |
| 3.00 | 10514 | 12.5 | 2.38 |
| 3.50 | 12176 | 12.7 | 2.77 |
| 4.00 | 10515 | 14.5 | 3.15 |
| 4.50 | 12181 | 16.3 | 3.53 |
| 5.00 | 10521 | 18.1 | 3.92 |
| 6.00 | 12182 | 25.0 | 4.68 |
| 7.00 | 12183 | 29.2 | 5.45 |
| 8.00 | 12184 | 28.0 | 6.22 |
| 10.00 | 12185 | 35.0 | 6.98 |
| 12.00 | 12186 | 42.0 | 7.75 |
| 14.00 | 12188 | 49.0 | 9.29 |
| 16.00 | 12187 | 56.0 | 10.60 |

R-600-S .030" Strip Thickness

| Diameter | Part # | Bend Radius (Inches) | Hose Weight (Lbs./Foot) |
|----------|--------|----------------------------|-------------------------------|
| 2.00 | 12177 | 10.5 | 1.92 |
| 2.25 | 12178 | 10.8 | 2.12 |
| 2.50 | 12179 | 12.0 | 2.36 |
| 2.75 | 12180 | 12.8 | 2.60 |
| 3.00 | 12189 | 14.0 | 2.83 |
| 3.50 | 12190 | 15.5 | 3.28 |
| 4.00 | 12191 | 16.5 | 3.74 |
| 4.50 | 12192 | 18.0 | 4.19 |
| 5.00 | 12193 | 20.0 | 4.65 |
| 6.00 | 12194 | 26.0 | 5.56 |
| 7.00 | 12195 | 29.2 | 6.47 |
| 8.00 | 10524 | 33.5 | 7.38 |
| 10.00 | 12196 | 41.5 | 9.20 |
| 12.00 | 12197 | 50.0 | 11.02 |
| 14.00 | 12198 | 58.5 | 12.84 |
| 16.00 | 12199 | 66.8 | 14.70 |



Galvanized Steel

Rough Bore Metal Hose

Packed or Unpacked galvanized steel unlined hose available in .010 to .030 thicknesses. Used where a more economical hose is required.

Applications

- Exhaust Systems Conduit Spouts
- Casing Dry Bulk Product Transfer

| Temperature - Low/High | - 40°F to +400°F |
|------------------------------|----------------------------------|
| Abrasion - Interior/Exterior | Good/Good |
| Flexibility | Medium Flexibility |
| Pressure | Low 5psi Unpacked / 15psi Packed |
| Chemical | Good |
| Standard Length | 25' Feet |
| Size - ID | 1.25" inch ID to 16" inch ID |

| Temperature | | | | |
|--------------|----------------|----------------------|-----------------|--|
| GT Packing: | -20° to 180°F | (Neg. 20 in. HG) | (Pos 20 P.S.I.) | |
| AP Packing: | -40° to 400°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| CC Packing: | -60° to 300°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| SS Packing: | -60° to 1800°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| SIL Packing: | -65° to 500°F | (Neg. 20 in. HG) | (Pos 20 P.S.I.) | |
| CPR Packing: | -40° to 500°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| Unpacked: | -60° to 1800°F | (No pressure rating) | | |



| Diameter | Part # | Bend | Hose |
|----------|--------|----------|-------------|
| | | Radius | Weight |
| | | (Inches) | (Lbs./Foot) |
| 1.25 | 10033 | 5.5 | 0.42 |
| 1.50 | 12204 | 6.8 | 0.49 |
| 1.75 | 12205 | 7.0 | 0.57 |
| 2.00 | 10035 | 7.5 | 0.64 |
| 2.25 | 12206 | 7.8 | 0.72 |
| 2.50 | 10038 | 8.5 | 0.80 |
| 2.75 | 12207 | 9.2 | 0.87 |
| 3.00 | 10040 | 10.0 | 0.95 |
| 3.50 | 10045 | 10.5 | 1.10 |
| 4.00 | 10049 | 14.5 | 1.40 |
| 4.50 | 10052 | 16.3 | 1.50 |
| 5.00 | 10053 | 18.0 | 1.70 |
| 6.00 | 10056 | 21.8 | 2.00 |



GT = Gas Tight

AP = Apyrous Filament

CC = Cotton Cord

SS = Stainless Steel

SIL = Silicone

CPR = Copper

R-300-G .015" Strip Thickness

| Diameter | Part # | Bend | Hose |
|----------|--------|----------|-------------|
| | | Radius | Weight |
| | | (Inches) | (Lbs./Foot) |
| 1.25 | 12214 | 5.6 | 0.63 |
| 1.50 | 10073 | 6.9 | 0.75 |
| 1.75 | 12215 | 7.0 | 0.86 |
| 2.00 | 10074 | 8.0 | 0.98 |
| 2.25 | 12216 | 9.0 | 1.09 |
| 2.50 | 12217 | 10.0 | 1.21 |
| 2.75 | 12218 | 11.0 | 1.33 |
| 3.00 | 10076 | 12.0 | 1.45 |
| 3.50 | 10080 | 16.5 | 1.68 |
| 4.00 | 10081 | 18.0 | 1.91 |
| 4.50 | 12219 | 19.0 | 2.14 |
| 5.00 | 10085 | 19.5 | 2.39 |
| 6.00 | 10086 | 23.5 | 2.85 |
| 7.00 | 10088 | 26.4 | 3.32 |
| 8.00 | 10089 | 27.0 | 3.78 |

R-360-G .018" Strip Thickness

| Diameter | Part # | Bend Radius | Hose Weight |
|----------|--------|----------------|----------------|
| | | (Inches) | (Lbs./Foot) |
| 1.25 | 10133 | 6.0 | .78 |
| 1.50 | 10135 | 7.3 | .94 |
| 1.75 | 12554 | 7.5 | 1.10 |
| 2.00 | 10136 | 7.8 | 1.23 |
| 2.25 | 12220 | 8.8 | 1.40 |
| 2.50 | 10138 | 9.7 | 1.53 |
| 2.75 | 10140 | 10.7 | 1.67 |
| 3.00 | 10142 | 11.7 | 1.82 |
| 3.50 | 10146 | 12.2 | 2.11 |
| 4.00 | 10148 | 14.1 | 2.40 |
| 4.50 | 10155 | 16.0 | 2.70 |
| 5.00 | 10156 | 17.8 | 2.99 |
| 6.00 | 10163 | 21.0 | 3.57 |
| 7.00 | 10168 | 24.5 | 4.16 |
| 8.00 | 10170 | 27.5 | 4.64 |
| 10.00 | 10177 | 28.0 | 5.78 |
| 12.00 | 10181 | 34.0 | 6.94 |
| 14.00 | 10185 | 42.0 | 8.08 |
| 16.00 | 12221 | 48.0 | 9.20 |

R-500-G .024" Strip Thickness

| Diameter | Part # | Bend | Hose |
|----------|--------|----------|-------------|
| | | Radius | Weight |
| | | (Inches) | (Lbs./Foot) |
| 2.00 | 10227 | 8.3 | 1.62 |
| 2.25 | 12222 | 9.4 | 1.80 |
| 2.50 | 10230 | 10.0 | 2.00 |
| 2.75 | 12223 | 11.5 | 2.18 |
| 3.00 | 10231 | 12.5 | 2.38 |
| 3.50 | 10234 | 12.7 | 2.77 |
| 4.00 | 10235 | 14.5 | 3.15 |
| 4.50 | 12224 | 16.3 | 3.53 |
| 5.00 | 10238 | 18.1 | 3.92 |
| 6.00 | 10240 | 25.0 | 4.68 |
| 7.00 | 12225 | 29.2 | 5.45 |
| 8.00 | 12226 | 30.0 | 6.22 |
| 10.00 | 12227 | 35.0 | 6.98 |
| 12.00 | 10242 | 42.0 | 7.75 |
| 14.00 | 10244 | 49.0 | 9.29 |
| 16.00 | 12228 | 56.0 | 10.60 |

R-600-G .030" Strip Thickness

| Diameter | Part # | Bend | Hose |
|----------|--------|----------|-------------|
| | | Radius | Weight |
| | | (Inches) | (Lbs./Foot) |
| 2.00 | 12229 | 10.5 | 1.92 |
| 2.25 | 12230 | 10.8 | 2.12 |
| 2.50 | 10265 | 12.0 | 2.36 |
| 2.75 | 12231 | 12.8 | 2.60 |
| 3.00 | 10266 | 14.0 | 2.83 |
| 3.50 | 12232 | 15.5 | 3.28 |
| 4.00 | 10267 | 16.5 | 3.74 |
| 4.50 | 12233 | 16.3 | 4.19 |
| 5.00 | 10271 | 20.0 | 4.65 |
| 6.00 | 10274 | 26.0 | 5.56 |
| 7.00 | 12234 | 30.0 | 6.47 |
| 8.00 | 12235 | 33.5 | 7.38 |
| 10.00 | 12236 | 41.5 | 9.20 |
| 12.00 | 12237 | 50.0 | 11.02 |
| 14.00 | 12238 | 58.5 | 12.84 |
| 16.00 | 12239 | 66.8 | 14.70 |



Medium Duty Aluminized Steel

Rough Bore Metal Hose

Packed or Unpacked aluminized steel unlined hose available in .018 thickness. Used where a more economical hose is required.

Applications

- Exhaust Systems Conduit Spouts
- Casing Dry Bulk Product Transfer

| Temperature - Low/High | - 40°F to +850°F |
|------------------------------|----------------------------------|
| Abrasion - Interior/Exterior | Good/Good |
| Flexibility | Medium Flexibility |
| Pressure | Low 5psi Unpacked / 15psi Packed |
| Chemical | Excellent |
| Standard Length | 25' |
| Size - ID | 3" to 10" ID |

R-360-AS .018" Strip Thickness

| Diameter | Part # | Bend Radius (Inches) | Hose Weight (Lbs./Foot) |
|----------|--------|----------------------------|-------------------------------|
| 3.00 | 12784 | 14.0 | 1.82 |
| 3.50 | 12785 | 15.5 | 2.11 |
| 4.00 | 12786 | 16.5 | 2.40 |
| 4.50 | 12787 | 18.0 | 2.70 |
| 5.00 | 12788 | 20.0 | 2.99 |
| 6.00 | 12789 | 26.0 | 3.57 |
| 7.00 | 12790 | 27.0 | 4.16 |
| 8.00 | 12791 | 27.5 | 4.64 |
| 10.00 | 12792 | 28.0 | 5.78 |

Consult factory for additional sizes.



| GT = Gas Tight |
|---|
| AP = Apyrous Filament CC = Cotton Cord SS = Stainless Steel SIL = Silicone CPR = Copper |

| Temperature | | | | |
|--------------|----------------|----------------------|-----------------|--|
| GT Packing: | -20° to 180°F | (Neg. 20 in. HG) | (Pos 20 P.S.I.) | |
| AP Packing: | -40° to 400°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| CC Packing: | -60° to 300°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| SS Packing: | -60° to 1800°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| SIL Packing: | -65° to 500°F | (Neg. 20 in. HG) | (Pos 20 P.S.I.) | |
| CPR Packing: | -40° to 500°F | (Neg. 15 in. HG) | (Pos 15 P.S.I.) | |
| Unpacked: | -60° to 1800°F | (No pressure rating) | | |

Flo-Master™

Smooth and Rough Bore Metal Hose

<u>Federal's Flo-Master</u> is an unpacked, torque resistant stripwound metal hose developed for superior sealability. It is similar in performance to a cotton packed hose but without the threat of burnt out packing.

Applications

- Exhaust Applications Vacum Systems
- Dry Bulk Conveying Air Handling
- Rubber Hose Armor Ducting Systems
- Exhaust for Heaters Blower / Evacuators
- Elbows and Bends for Rigid Pipe Systems
- Conduit for Wires or Pipes

| Temperature Range | -60°F to +2100°F |
|--------------------|-----------------------------------|
| Standard Length | 25' and 50' |
| Standard ID Size | 1.50" to 16" |
| Material Available | Stainless Steel, Galvanized Steel |



Flo-Master IM

| Type | Temp Range | Flexibility | Internal | Extension / |
|----------|----------------|-------------|------------------|-------------|
| | | _ | Abrasion Resist. | Compression |
| R360S* | -40° to +2100° | 6 | 7 | <u>+</u> 8% |
| R360G* | -60° to +400° | 6 | 5 | <u>+</u> 8% |
| SF400* | -60° to +2100° | 2.5 | 8 | ±1.5% |
| Unpacked | | | | |

^{*} Material Thickness - .018"

NOTES:

- 1. Flexibility 1 to 10. 10 is best 1 is least.
- 2. Abrasion Resistance 1 to 10. 10 is best 1 is least.

| | Temperature | |
|--------------|---------------|-----------------|
| GT Packing: | -20° to 180°F | (Pos 20 P.S.I.) |
| SIL Packing: | -65° to 500°F | (Pos 20 P.S.I.) |

| | Packing Key | |
|----------------------------------|-------------|--|
| GT = Gas Tight SIL = Silicone | | |



^{*} Consult customer service for other options.

Armadillo - Armor/B.O.P. Hose

Flexible Protective Metal Casing

<u>Federal's Armadillo Hose</u> uses a new high-wall design to create the perfect dual-purpose hose for both armor and blow-out protection. The casing provides very reliable armor for hose and tubing assemblies when it is desired to protect from crushing, abrasion, chemical contact, over-bending and other abuse. "Armadillo" is a high-strength, low cost hose alternative.

Applications

- Metal Rubber Teflon
- Hydraulic Hose Tubing Assemblies
- Conduit for Wires or Pipes

| Size - ID | 1" to 5" ID |
|-----------------|--|
| Standard Length | 25' and 50' |
| Bend Radius | Approx. 8 times diameter for 90° Bends |
| Retractibility | To 80% of fully extended length |



Armadillo - Armor/B.O.P. Hose is manufactured from loose wound interlocked metal hose formed from a single strip of corrosion resistant stainless steel.



rmadillo - Armor/B.C

| Diameter | Thickness | Part # | Bend | Hose |
|----------|-----------|--------|----------|------------|
| | | | Radius | Weight |
| | | | (Inches) | (Lbs/Foot) |
| 1.000 | .010 | 10596 | 5.0 | .40 |
| 1.250 | .010 | 13985 | 5.5 | .50 |
| 1.375 | .010 | 19619 | 6.0 | .55 |
| 1.500 | .010 | 13874 | 6.0 | .60 |
| 1.750 | .010 | 14440 | 7.0 | .70 |
| 1.875 | .010 | 13171 | 8.0 | .75 |
| 2.000 | .010 | 10598 | 8.0 | .80 |
| 2.250 | .010 | 14387 | 9.0 | .90 |
| 2.375 | .010 | 19616 | 9.5 | .95 |
| 2.500 | .010 | 13811 | 10.0 | 1.00 |
| 3.000 | .015 | 10393 | 12.0 | 1.45 |
| 4.000 | .015 | 12629 | 16.0 | 1.80 |
| 5.000 | .015 | 13345 | 20.0 | 2.20 |

Tar & Asphalt Hose

When it comes to temperature-resistance and overall durability, this hose stands with the best.

This hose is built to specifically convey hot tar and asphalt on patching units, tankers, and from container to container. It has good flexibility and is made from high quality hot dip galvanized steel with a durable long lasting packing to prevent leakage.

Federal builds this exceptional hose for conveying high-temperature/high-pressure liquids.

Federal Hose can provide you with a full line of N.P.T. fittings for the Heavy Duty Tar & Asphalt Hose.

Applications

- Industrial
 - Patching Units
 - Tankers
 - Container to Container
- Material Handling
 - Convey Hot Tar
 - Convey Asphalt
 - Convey Any High Temperature / High Pressure Liquids

| Temperature - Low/High | - 20°F to +450°F |
|------------------------------|-------------------|
| Abrasion - Interior/Exterior | Good/Good |
| Flexibility | Good |
| Pressure | Tested to 150 psi |
| Chemical | Excellent |
| Standard Length | 15', 30' and 60' |
| Size - ID | 3" ID |



Tar & Asphalt Hose

| I.D. (Inches) | Part # | Minimum Coiling Diameter (Inches) | Hose Weight (Lbs./Foot) | Male Fitting Part # | Female Fitting Part # | |
|---------------|--------|--------------------------------------|----------------------------|------------------------|--------------------------|--|
| 3.00 | 12585 | 25.00 | 2.83 | 18878 | 18879 | |



Close-up of Hose Packing





Description - Connect between Patching unit and tanker. For use conveying hot tar and asphalt/high pressure liquids.



Female Fitting Tar/Asphalt Heavy Duty

Description - Connect between Patching unit and tanker. For use conveying hot tar and asphalt/high pressure liquids.

Customer Service 1-800-346-4673



Fittings[,]



Female Coupler

Part # - D/*DW

Description - Quick disconnect affixed with epoxy or weld.



Floating Flange

Part # - FL/*FLW

Description - Special Order Affix with epoxy or weld.



Male Adapter

Part # - A/*AW

Description - Matched to female coupler. Affix with epoxy or weld.



Flange Assembly

Part # - FA/*FAW

Description - Special Order Affix with epoxy or weld.



Hose Shank Coupler

Part # - C

Description - Quick disconnect. Used with UC Compensators.



Flange

Part # - F

Description - Special Order Weld



Hose Shank Adapter

Part # - E

Description - Quick disconnect. Used with UC Compensators.



Farm Flange

Part # - FF

Description - Specify Hose O.D. when ordering. Weld



Plain Tube (Thin Wall)

Part # - T/*TW

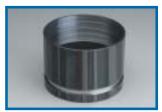
Description - ALWAYS ATTACH INSIDE HOSE. Used as coupler. Affix with epoxy or weld.



Compensator

Part # - UC

Description - To connect metal hose with C & E fittings. (Clamped On)



Victaulic Nipple

Part # - VN/*VNW

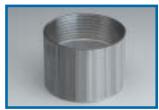
Description - Hose fits into nipple. Affix with epoxy or weld.



Female Fitting Tar/Asphalt Heavy Duty

Part # - 18879

Description - Connect between Patching unit and tanker. For use conveying hot tar and asphalt/high pressure liquids.



Unthreaded Nipple

Part # - PN/*PNW

Description - Hose fits into nipple. Affix with epoxy or weld.



Male Fitting Tar/Asphalt Heavy Duty

Part # - 18878

Description - Connect between Patching unit and tanker. For use conveying hot tar and asphalt/high pressure liquids.



Threaded Nipple

Part # - P

Description - Standard pipe threads. Hose fits into nipple. Affix with epoxy or weld.

We reserve the right to change specifications without notice.

Welded to hose





Silicone Air Duct LD

A lightweight non-kinking flexible silicone ducting that is chemically treated & helically-wound.

Sil 1 has a spring steel wire reinforcement with silicone-coated woven fiberglass fabric covering.

Applications

Recommended for low pressure handling of higher and lower temperature air, dust or fumes.

Ideal for heating applications where minimum weight is required, and where air flow and friction requirements are not severe.

Good for heater applications.

Not recommended for handling liquid or abrasive materials.

| Temperature - Low/High | - 65°F to +450°F |
|------------------------------|-------------------|
| Abrasion - Interior/Exterior | Fair/Fair |
| Flexibility | Good |
| Pressure | Positive/Negative |
| Chemical | Good |
| Standard Length | 12' |
| Size - ID | 1" to 8" ID |



Hose Specifications

| No. of Plies | Wearstrip | Color | Wire |
|--------------|-----------|---------------|------------------|
| 1 | No | Ironoxide Red | Steel Wire Helix |

Sil Air Duct LD

| Diameter | Part# | P.S.I. | Burst | Maximum | Maximum | Hose | Wall |
|----------|-------|--------|----------|---------|-------------|--------|-----------|
| (I.D.) | | | Pressure | Leakage | Negative | Weight | Thickness |
| | | | CFM | P.S.I. | (Lbs./Foot) | | |
| 1.00 | 11585 | 19 | 40 | .02 | 12 | .106 | .040 |
| 1.25 | 11586 | 18 | 40 | .02 | 12 | .131 | .040 |
| 1.50 | 11587 | 18 | 30 | .03 | 10 | .156 | .040 |
| 1.75 | 11588 | 16 | 30 | .03 | 10 | .188 | .040 |
| 2.00 | 11589 | 15 | 20 | .04 | 8 | .213 | .045 |
| 2.25 | 11592 | 14 | 20 | .05 | 8 | .238 | .045 |
| 2.50 | 11593 | 14 | 20 | .05 | 7 | .269 | .045 |
| 2.75 | 11594 | 13 | 20 | .06 | 7 | .294 | .045 |
| 3.00 | 11595 | 13 | 20 | .065 | 6 | .319 | .050 |
| 3.25 | 11597 | 12.8 | 18 | .065 | 6 | .331 | .050 |
| 3.50 | 11598 | 12.6 | 18 | .07 | 6 | .375 | .050 |
| 3.75 | 10158 | 12 | 18 | .08 | 5 | .406 | .050 |
| 4.00 | 11599 | 11 | 15 | .10 | 5 | .438 | .055 |
| 4.50 | 11600 | 10.5 | 14 | .10 | 4 | .481 | .055 |
| 5.00 | 11601 | 9.1 | 10 | .125 | 4 | .544 | .055 |
| 5.50 | 11602 | 9.1 | 10 | .13 | 3 | .581 | .055 |
| 6.00 | 11603 | 7.7 | 10 | .15 | 3 | .663 | .060 |
| 8.00 | 19654 | 4.0 | 8 | .18 | 1 | .830 | .060 |

Compressibility: 3 to 1

Customer Service 1-800-346-4673



Silicone Air Duct Std.

A lightweight non-kinking hose consisting of a smooth inner ply and cover ply of silicone-coated, woven fiberglass. Chemically treated helically-wound spring steel wire for flexibility.

Applications

Designed for medium pressure handling of air, dust, fumes, and light powders where higher temperatures are required.

Not recommended for handling liquids or abrasive materials.

| Temperature - Low/High | - 80°F to +600°F |
|------------------------------|-------------------|
| Abrasion - Interior/Exterior | Fair/Fair |
| Flexibility | Good |
| Pressure | Positive/Negative |
| Chemical | Good |
| Standard Length | 12' |
| Size - ID | 1" to 12" ID |



Hose Specifications

| No. of Plies | Wearstrip | Color | Wire |
|--------------|-----------|---------------|------------------|
| 2 | No | Ironoxide Red | Steel Wire Helix |

Sil Air Duct Std.

| Diameter | Part# | P.S.I. | Burst | Maximum | Maximum | Hose | Wall |
|----------|-------|--------|----------|---------|-------------|--------|-----------|
| (I.D.) | | | Pressure | Leakage | Negative | Weight | Thickness |
| | | | CFM | P.S.I. | (Lbs./Foot) | | |
| 1.00 | 11559 | 28 | 180 | .015 | 15 | .125 | .070 |
| 1.25 | 11560 | 26 | 180 | .015 | 15 | .156 | .070 |
| 1.50 | 11562 | 25 | 165 | .015 | 13 | .188 | .070 |
| 1.75 | 11563 | 23 | 165 | .02 | 13 | .219 | .070 |
| 2.00 | 11564 | 22 | 150 | .02 | 10 | .250 | .070 |
| 2.25 | 11565 | 21 | 150 | .02 | 10 | .281 | .070 |
| 2.50 | 11566 | 21 | 135 | .025 | 8 | .313 | .070 |
| 2.75 | 11567 | 20 | 135 | .025 | 8 | .375 | .070 |
| 3.00 | 11568 | 19 | 135 | .03 | 7 | .388 | .070 |
| 3.25 | 11569 | 18.5 | 135 | .03 | 6 | .419 | .070 |
| 3.50 | 11570 | 18 | 120 | .035 | 6 | .450 | .070 |
| 3.75 | 10157 | 17 | 120 | .035 | 5 | .488 | .070 |
| 4.00 | 11571 | 16 | 120 | .04 | 5 | .525 | .080 |
| 4.50 | 11572 | 15 | 105 | .05 | 4 | .600 | .080 |
| 5.00 | 11573 | 13 | 105 | .06 | 4 | .669 | .080 |
| 5.5 | 11574 | 13 | 90 | .08 | 3 | .738 | .080 |
| 6.00 | 11575 | 11 | 90 | .10 | 3 | .813 | .090 |
| 8.00 | 11580 | 7 | 45 | .15 | 3 | 1.113 | .110 |
| 10.00 | 11581 | 5 | 24 | .20 | 2 | 1.413 | .120 |
| 12.00 | 11583 | 4 | 12 | .30 | 2 | 1.694 | .120 |

Compressibility: 2 to 1

Customer Service 1-800-346-4673



1-Ply Silicone Heater Hose

Extruded heater hoses meet or exceed the requirements of the SAE J20 R3 Class A specification. The silicone hoses are reinforced with polyester fabric. An aramid fiber reinforcement is available for high temperature applications up +500°F. Heater hoses are resistant to coolant solutions, cold leaks, cracking, peeling, aging and ozone.

Color blue.



Applications

Standard equipment on trucks, cars and buses Not recommended for fuel or oil transfer use.

| Temperature - Low/High | - 65°F to +350°F |
|------------------------------|---------------------|
| Abrasion - Interior/Exterior | Good/Good |
| Flexibility | Excellent |
| Pressure | Positive |
| Chemical | Good |
| Standard Length | 25' to 50' (Heater) |
| Size - ID | .250" to 1.25" ID |

1-Ply Silicone Heater Hose

| Diameter (I.D.) | Diameter (O.D.) | Length (Feet) | Part # | Minimum Burst Pressure | Minimum Operating Pressure | Weight Lb/ft |
|--------------------|-----------------|------------------|-----------|---------------------------|-------------------------------|-----------------|
| (1.5.) | (0.2.) | (1 000) | | P.S.I. | P.S.I. | 25/10 |
| .250 | .56 | 25 | 5526-0001 | 250 | 60 | .12 |
| .250 | .56 | 50 | 5526-0002 | | | |
| .313 | .63 | 25 | 5526-0003 | 250 | 60 | .15 |
| .375 | .69 | 25 | 5526-0005 | 250 | 60 | .18 |
| .375 | .69 | 50 | 5526-0006 | | | |
| .500 | .81 | 25 | 5526-0009 | 250 | 60 | .24 |
| .500 | .81 | 50 | 5526-0010 | | | |
| .625 | .93 | 25 | 5526-0013 | 250 | 60 | .28 |
| .625 | .93 | 50 | 5526-0014 | | | |
| .750 | 1.06 | 25 | 5526-0017 | 200 | 50 | .34 |
| .750 | 1.06 | 50 | 5526-0018 | | | |
| .875 | 1.24 | 25 | 5526-0021 | 175 | 40 | .40 |
| .875 | 1.24 | 50 | 5526-0022 | | | |
| 1.00 | 1.36 | 25 | 5526-0025 | 175 | 40 | .46 |
| 1.00 | 1.36 | 50 | 5526-0026 | | | |
| 1.25 | 1.58 | 25 | 5526-0029 | 175 | 40 | .49 |
| 1.25 | 1.58 | 50 | 5526-0030 | | | |

Customer Service 1-800-346-4673



2-Ply Silicone Coolant - Wire Reinforced

2-Ply Silicone Coolant Hose reinforced with helically-wound wire to increase burst pressure and resist kinking during installation.

Color blue.



Applications

Low pressure coolant and heat connections in hostile engine environments. Resists aging, ozone, chemicals, lubricants, hardening and cracking.

Ideal for extreme temperature and various pressure ranges where high performance levels are required.

| Temperature - Low/High | - 65°F to +350°F |
|------------------------------|-------------------------|
| Abrasion - Interior/Exterior | Good/Good |
| Flexibility | Excellent |
| Pressure | Positive |
| Chemical | Good |
| Standard Length | 3' to 12' (Coolant) |
| Size - ID | .50" to 6" ID (Coolant) |

2-Ply Silicone Coolant - Wire Reinforced

| Diameter | Part # | Operating | Burst | Weight |
|----------|-----------|------------|------------|--------|
| (I.D.) | | Pressure | (P.S.I.G.) | Lb/ft |
| | | (P.S.I.G.) | | |
| .50 | 5579-0500 | 200 | 600 | .20 |
| .75 | 5579-0750 | 200 | 600 | .25 |
| 1.00 | 5579-1000 | 175 | 550 | .30 |
| 1.25 | 5579-1250 | 160 | 525 | .37 |
| 1.50 | 5579-1500 | 160 | 500 | .43 |
| 1.75 | 5579-1750 | 150 | 475 | .50 |
| 2.00 | 5579-2000 | 140 | 450 | .56 |
| 2.25 | 5579-2250 | 125 | 400 | .64 |
| 2.50 | 5579-2500 | 100 | 350 | .71 |
| 2.75 | 5579-2750 | 100 | 325 | .78 |
| 3.00 | 5579-3000 | 100 | 300 | .83 |
| 3.50 | 5579-3500 | 85 | 275 | .97 |
| 4.00 | 5579-4000 | 75 | 250 | 1.11 |
| 5.00 | 5579-5000 | 40 | 150 | 1.38 |
| 6.00 | 5579-6000 | 35 | 125 | 1.65 |

3-Ply Silicone Coolant Hose

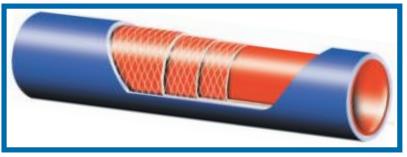
Specially coated silicone elastomer with woven polyester fabric vulcanized and post cured for maximum ply adhesion and service life, also available in two-ply and four-ply.

Meets SAE J20R1 Class A Standard Wall. Color blue.

Applications

Low pressure coolant and heat connections in hostile engine environments. Resists aging, ozone, chemicals, lubricants, hardening and cracking.

Ideal for extreme temperature and various pressure ranges where high performance levels are required.



| Temperature - Low/High | - 65°F to +350°F |
|------------------------------|-------------------------|
| Abrasion - Interior/Exterior | Good/Good |
| Flexibility | Excellent |
| Pressure | Positive |
| Chemical | Good |
| Standard Length | 3' to 12' (Coolant) |
| Size - ID | .50" to 6" ID (Coolant) |

<u> 3-Ply Silicone Coolant Hose</u>

| Diameter (I.D.) | Diameter (O.D.) | Part # | | Minimum Operating | 0 |
|-----------------|-----------------|-----------|-----------------|-------------------|------------|
| Inch/mm | Inch/mm | | Pressure P.S.I. | Pressure P.S.I. | Lb/ft KG/m |
| .500/12.7 | .87/22.2 | 5515-0500 | 425 | 115 | .15/0.22 |
| .625/15.9 | 1.00/25.4 | 5515-0625 | 375 | 90 | .19/0.28 |
| .750/19.1 | 1.12/28.5 | 5515-0750 | 325 | 80 | .24/0.36 |
| .875/22.2 | 1.25/31.7 | 5515-0875 | 325 | 80 | .28/0.42 |
| 1.000/25.4 | 1.37/34.9 | 5515-1000 | 300 | 75 | .32/0.48 |
| 1.125/28.6 | 1.50/38.1 | 5515-1125 | 300 | 75 | .37/0.55 |
| 1.250/31.8 | 1.62/41.2 | 5515-1250 | 275 | 65 | .42/0.62 |
| 1.375/34.9 | 1.75/44.4 | 5515-1375 | 275 | 65 | .47/0.70 |
| 1.500/38.1 | 1.87/47.6 | 5515-1500 | 250 | 60 | .53/0.79 |
| 1.625/41.3 | 2.00/50.8 | 5515-1620 | 250 | 60 | .58/0.86 |
| 1.750/44.5 | 2.12/53.9 | 5515-1750 | 225 | 55 | .63/0.94 |
| 2.000/50.8 | 2.37/60.3 | 5515-2000 | 200 | 50 | .74/1.00 |
| 2.125/54.0 | 2.50/63.2 | 5515-2125 | 200 | 50 | .77/1.14 |
| 2.250/57.2 | 2.62/66.6 | 5515-2250 | 175 | 40 | .80/1.19 |
| 2.375/60.3 | 2.75/69.8 | 5515-2375 | 175 | 40 | .86/1.28 |
| 2.500/63.5 | 2.87/73.0 | 5515-2500 | 150 | 35 | .92/1.37 |
| 2.625/66.7 | 3.00/76.2 | 5515-2625 | 150 | 35 | .95/1.41 |
| 2.750/69.9 | 3.12/79.3 | 5515-2750 | 125 | 30 | .98/1.46 |
| 3.000/76.2 | 3.37/85.7 | 5515-3000 | 100 | 25 | 1.04/1.55 |
| 3.250/82.6 | 3.62/92.0 | 5515-3250 | 100 | 25 | 1.10/1.64 |
| 3.500/88.9 | 3.87/98.4 | 5515-3500 | 75 | 15 | 1.15/1.71 |
| 3.750/95.25 | 4.12/104.6 | 5515-3750 | 50 | 10 | 1.18/1.75 |
| 4.000/101.6 | 4.37/111.1 | 5515-4000 | 50 | 10 | 1.21/1.80 |
| 4.500/114.3 | 4.87/123.8 | 5515-4500 | 50 | 10 | 1.27/1.89 |
| 5.000/127.0 | 5.37/136.5 | 5515-5000 | 50 | 10 | 1.33/1.98 |
| 6.000/152.4 | 6.32/160.5 | 5515-6000 | 40 | 8 | 1.92/2.85 |

Customer Service 1-800-346-4673



4-Ply Silicone Coolant Hose

4-Ply Silicone Coolant Hose reinforced with polyester fabric coated with specially compounded silicone elastomer. Resists chemicals, steam, ozone, coolants, and aging conditions found in the engine environment.

Meets SAE J20R1 Class A Heavy Wall. Color blue.

Applications

For heavy duty pressure connections in hostile engine environments. Resists hardening, cracking, cold leaks, aging, steam and many chemicals. Ideal for extreme temperature and various pressure ranges where high performance levels are required.



| Temperature - Low/High | - 65°F to +350°F |
|------------------------------|-------------------------|
| Abrasion - Interior/Exterior | Good/Good |
| Flexibility | Excellent |
| Pressure | Positive |
| Chemical | Good |
| Standard Length | 3' to 12' (Coolant) |
| Size - ID | .50" to 6" ID (Coolant) |

4-Ply Silicone Coolant Hose

| Diameter (I.D.) | Diameter (O.D.) | Part # | | Minimum Operating | 0 |
|-----------------|-----------------|----------|-----------------|-------------------|------------|
| Inch/mm | Inch/mm | | Pressure P.S.I. | Pressure P.S.I. | Lb/ft KG/m |
| .500/12.7 | .89/22.7 | 5581-050 | 425 | 115 | .15/0.22 |
| .625/15.9 | 1.02/25.9 | 5581-062 | 375 | 90 | .19/0.28 |
| .750/19.1 | 1.14/29.1 | 5581-075 | 325 | 80 | .24/0.36 |
| .875/22.2 | 1.27/32.2 | 5581-087 | 325 | 80 | .28/0.42 |
| 1.000/25.4 | 1.37/34.9 | 5581-100 | 300 | 75 | .32/0.48 |
| 1.250/31.8 | 1.64/41.8 | 5581-125 | 275 | 65 | .42/0.62 |
| 1.375/34.9 | 1.77/44.9 | 5581-138 | 275 | 65 | .47/0.70 |
| 1.500/38.1 | 1.89/48.1 | 5581-150 | 250 | 60 | .53/0.79 |
| 1.625/41.3 | 2.02/51.3 | 5581-162 | 250 | 60 | .58/0.86 |
| 1.750/44.5 | 2.14/54.5 | 5581-175 | 225 | 55 | .63/0.94 |
| 2.000/50.8 | 2.37/60.3 | 5581-200 | 200 | 50 | .74/1.00 |
| 2.250/57.2 | 2.64/67.2 | 5581-225 | 175 | 40 | .80/1.19 |
| 2.375/60.3 | 2.77/70.3 | 5581-238 | 175 | 40 | .86/1.28 |
| 2.500/63.5 | 2.89/73.5 | 5581-250 | 150 | 35 | .92/1.37 |
| 2.625/66.7 | 3.00/76.2 | 5581-262 | 150 | 35 | .95/1.41 |
| 2.750/69.9 | 3.14/79.9 | 5581-275 | 125 | 30 | .98/1.46 |
| 3.000/76.2 | 3.39/86.2 | 5581-300 | 100 | 25 | 1.04/1.55 |
| 3.250/82.6 | 3.64/92.6 | 5581-325 | 100 | 25 | 1.10/1.64 |
| 3.500/88.9 | 3.89/98.9 | 5581-350 | 75 | 15 | 1.15/1.71 |
| 3.750/95.2 | 4.14/105.1 | 5581-375 | 50 | 10 | 1.18/1.75 |
| 4.000/101.6 | 4.37/111.1 | 5581-400 | 50 | 10 | 1.21/1.80 |
| 4.500/114.3 | 4.89/124.3 | 5581-450 | 50 | 10 | 1.271/1.89 |
| 5.000/127.0 | 5.37/136.5 | 5581-500 | 50 | 10 | 1.33/1.98 |
| 6.000/152.4 | 6.39/162.3 | 5581-600 | 40 | 8 | 1.92/2.85 |



Vacuum Tubing

Vacuum Tubing is an unreinforced extruded construction of silicone rubber.

Applications

Used for vacuum advance, windshield washers, coolant overflow, emission control and other applications. It can be supplied cut to length or in continuous reel format for cutting to fit in the shop.



Vacuum Tubing

| Diameter (I.D.) | Diameter (O.D.) | Length | Part # | Minimum | Minimum | Weight |
|-----------------|-----------------|--------|----------|-----------------------|--------------------|------------|
| Inch/mm | Inch/mm | (Feet) | | Burst Pressure | Operating Pressure | Lb/ft KG/m |
| | | | | P.S.I. | P.S.I. | |
| .125/3.20 | .225/5.72 | 25 | 5531-012 | 100 | 25 | .015/.022 |
| .125/3.20 | .225/5.72 | 50 | 5531-012 | | | |
| .156/4.00 | .286/7.28 | 25 | 5531-015 | 100 | 25 | .025/.038 |
| .156/4.00 | .286/7.28 | 50 | 5531-015 | | | |
| .187/4.80 | .348/8.84 | 25 | 5531-018 | 100 | 25 | .045/.068 |
| .187/4.80 | .348/8.84 | 50 | 5531-018 | | | |
| .250/6.40 | .450/11.43 | 25 | 5531-025 | 100 | 25 | .065/.097 |
| .250/6.40 | .450/11.43 | 50 | 5531-025 | | | |
| .312/7.94 | .563/14.65 | 25 | 5531-031 | 100 | 25 | .098/.146 |
| .312/7.94 | .563/14.65 | 50 | 5531-031 | | | |
| .375/9.53 | .675/17.15 | 25 | 5531-038 | 100 | 25 | .152/.225 |
| .375/9.53 | .675/17.15 | 50 | 5531-038 | | | |

Turbocharger Hose

Turbocharger hoses are used to make connections to the engine air intake manifold, lubricating oil return path to engine crank case and sump.

These hoses are often mounted in inaccessible locations and provide highly durable and reliable connection. Also used for wastegate valve to the source of operating air. Can be supplied cut to length or in continuous reel format for cutting to length on the shop floor. Available in straight, shaped and stepped bore configurations.

Reinforced with meta-aramid fabric for excellent resistance to vibrational fatigue and are suitable for operation at temperatures up to +500F (+260C).



Turbo Charger Hose

| Part # | I.D. (Inches) | Operating Pressure (PSIG) | Burst (PSIG) | Weight (Lb/ft) |
|----------|------------------|------------------------------|-----------------|-------------------|
| 7701-100 | 1.00 | 45 | 135 | 0.50 |
| 7701-125 | 1.25 | 40 | 125 | 0.55 |
| 7701-150 | 1.50 | 40 | 120 | 0.60 |
| 7701-200 | 2.00 | 35 | 105 | 0.70 |
| 7701-225 | 2.25 | 30 | 95 | 0.75 |
| 7701-250 | 2.50 | 30 | 90 | 0.80 |
| 7701-375 | 2.75 | 25 | 80 | 0.85 |
| 7701-300 | 3.00 | 25 | 75 | 0.90 |
| 7701-325 | 3.25 | 20 | 65 | 0.95 |
| 7701-350 | 3.50 | 20 | 60 | 1.00 |
| 7701-375 | 3.75 | 15 | 50 | 1.05 |
| 7701-400 | 4.00 | 15 | 45 | 1.10 |
| 7701-600 | 6.00 | 10 | 25 | 1.30 |

CAC Hose

Charge Air Coolant hoses are the complete sets of ducting which connect the turbocharger outlet to the charge cooler inlet and the charge cooler outlet to the engine manifold. Charge air cooling increases the power available from a given engine displacement and also forms a major part of engine control strategy aimed at meeting ever more stringent exhaust gas emission regulations.

CAC hoses are available in straight, shaped, stepped and convoluted forms.

Convoluted forms are the most commonly used and provide excellent performance and economy.



Hot Side CAC Hose 4-ply Aramid reinforced with high strength restrictor rings

| Part # | I.D. (Inches) | I.D. (mm) | O.D. (Inches) | O.D. (mm) | Length (Inches) |
|--------|------------------|-------------------------|------------------|--------------|--------------------|
| 20069 | 2.50 | 63.50 | 2.71 | 68.83 | 6 |
| 20070 | 3.00 | 76.20 | 3.21 | 81.53 | 6 |
| 20071 | 3.00/3.50 | 76.20/88.90 3.21/3.71 8 | | 81.53/94.23 | 6 |
| 20072 | 3.50 | 88.90 3.71 | | 94.23 | 6 |
| 20073 | 3.50/4.00 | 88.90/101.60 | 3.71/4.21 | 94.23/106.93 | 6 |
| 20074 | 4.00 | 101.60 | 4.21 | 106.93 | 6 |

Cold Side CAC Hose 4-ply Polyester reinforced with high strength restrictor rings

| Part # | I.D. (Inches) | I.D. (mm) | O.D. (Inches) | O.D. (mm) | Length (Inches) |
|--------|------------------|--------------|------------------|--------------|--------------------|
| 20075 | 2.50 | 63.50 | 2.71 | 68.83 | 6 |
| 20076 | 3.00 | 76.20 | 3.21 | 81.53 | 6 |
| 20077 | 3.00/3.50 | 76.20/88.90 | 3.21/3.71 | 81.53/94.23 | 6 |
| 20078 | 3.50 | 88.90 | 3.71 | 94.23 | 6 |
| 20079 | 3.50/4.00 | 88.90/101.60 | 3.71/4.21 | 94.23/106.93 | 6 |
| 20080 | 4.00 | 101.60 | 4.21 | 106.93 | 6 |

Customer Service 1-800-346-4673



| Notes | | |
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GENERAL TERMS AND CONDITIONS OF SALE

No order shall be binding on Seller unless acknowledged in writing by an authorized officer or agent of Seller, and all orders shall be subject to these general terms and conditions.

Prices are subject to change without notice. Seller will notify the purchaser of any change in price before acceptance. Prices quoted by the seller are exclusive of all city, state or federal taxes. Any such taxes paid by the seller will be charged to the purchaser.

All invoices will be dated the date of shipment. Minimum invoice charges of \$100.00 Net or \$250.00 on manufactured items. Terms of sale are Net 30 days, payable in U.S. funds and F.O.B. shipping point.

Any order canceled by the Buyer after acceptance will be subject to a cancellation charge up to an amount equal to 25% of the sales value of the item canceled.

Seller's products are manufactured to the seller's standard specifications with allowable variations. Product data listed represents current information available and is subject to change without notice. Any particular product requirement of purchaser should be communicated to seller in writing, and must be acknowledged in writing by seller in order to become part of the contract of sale.

Failure by the Buyer to object or reject products or materials delivered hereunder within 90 days from the date of shipment of the products or materials shall constitute an acceptance and waiver by Buyer of all claims hereunder on account of alleged errors, shortages, defective workmanship or materials, breach of warranty or otherwise Seller shall not be liable to Buyer or any third party for any special, secondary, incidental or consequential damages however arising on equipment and materials furnished by Seller but manufactured by others. Buyer shall accept in lieu of any liabilities or guarantees on the part of the Seller the benefits or guarantees as are obtained by Seller from such manufacturers or vendors. Liability for claims arising out of tort, contract for any other reason is limited solely to repair or at Seller's option replacing the goods at the factory. All claims must be filed in writing with Seller within 90 days after shipment from the factory.

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