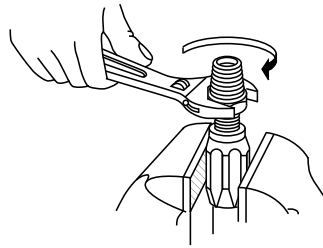
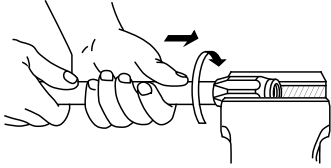


Field Attachable 213 'N' Series

†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

Hose End 213 'N' Series



Typical Application: Medium pressure and high temperature hose lines for a variety of applications including truck, industrial, and small engines where high temperatures exist.

Compatible Hose: H213

Pressure: Determined by maximum working pressure for hose size and hose end configuration whichever is lesser. See page 14 for working pressure ratings for hose end configurations.

Material: AISI/SAE 12L14 carbon steel

Plating: Zinc; yellow dichromate finish

Advantages: Very popular in heavy-duty truck markets. Good selection of hose ends, including brass. Non-mandrel assembly.

Ordering Information: Order individually by catalog number.

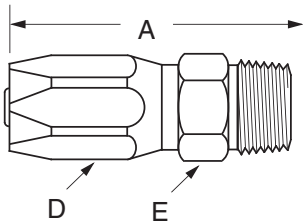
Assembly Instructions:

1. Lubricate insert threads and I.D. of hose.
2. Screw hose into socket (left-hand thread) until hose bottoms. Back out 1/4 turn.
3. Screw insert into socket until insert touches socket.

Note: Refer to current price list for availability of cataloged items. Configurations and dimensions subject to change without notice.

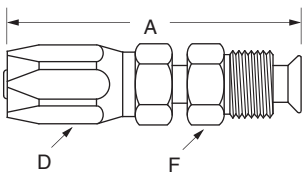
⚠ Refer to important safety information on page 3 of this catalog.

Male Pipe Rigid



| HOSE I.D. | PIPE SIZE | CATALOG NUMBER | THREAD SIZE | A | HOSE CUT-OFF FACTOR† | HOLE DIA. | HEX D | HEX F |
|-----------|-----------|----------------|-------------|------|----------------------|-----------|-------|--------|
| 3/16 | 1/8 | 21304N-102 | 1/8-27 | 1.59 | .94 | .12 | 9/16 | 7/16 |
| 3/16 | 1/4 | 21304N-104 | 1/4-18 | 1.78 | 1.13 | .12 | 9/16 | 9/16 |
| 1/4 | 1/4 | 21305N-104 | 1/4-18 | 1.80 | 1.06 | .17 | 5/8 | 9/16 |
| 5/16 | 3/8 | 21306N-106 | 3/8-18 | 1.96 | 1.19 | .23 | 3/4 | 11/16 |
| 13/32 | 1/2 | 21308N-108 | 1/2-14 | 2.36 | 1.44 | .33 | 7/8 | 7/8 |
| 1/2 | 1/2 | 21310N-108 | 1/2-14 | 2.45 | 1.44 | .42 | 1 | 7/8 |
| 5/8 | 3/4 | 21312N-112 | 3/4-14 | 2.56 | 1.50 | .55 | 1-1/8 | 1-1/16 |
| 7/8 | 1 | 21316N-116 | 1-11-1/2 | 2.71 | 1.69 | .80 | 1-3/8 | 1-3/8 |

Inverted Male Swivel Straight



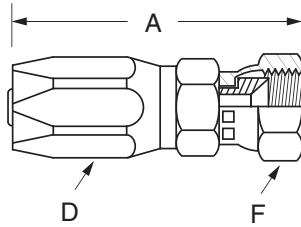
| HOSE I.D. | TUBE SIZE | CATALOG NUMBER | THREAD SIZE | A | HOSE CUT-OFF FACTOR† | HOLE DIA. | HEX D | HEX F |
|-----------|-----------|----------------|-------------|------|----------------------|-----------|-------|-------|
| 3/16 | 1/4 | 21304N-B04 | 7/16-24 | 2.43 | 1.69 | .15 | 9/16 | 7/16 |
| 1/4 | 5/16 | 21305N-B05 | 1/2-20 | 2.47 | 1.75 | .21 | 5/8 | 1/2 |
| 5/16 | 1/4 | 21306N-B04 | 7/16-24 | 2.50 | 1.63 | .15 | 3/4 | 7/16 |
| 5/16 | 5/16 | 21306N-B05 | 1/2-20 | 2.57 | 1.75 | .21 | 3/4 | 1/2 |
| 5/16 | 3/8 | 21306N-B06 | 5/8-18 | 2.74 | 1.88 | .25 | 3/4 | 5/8 |
| 13/32 | 1/2 | 21308N-B08 | 3/4-18 | 3.26 | 2.25 | .33 | 7/8 | 3/4 |

Field Attachable 213 'N' Series

†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

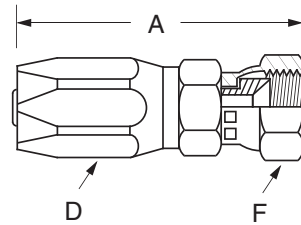
^a Swivel nuts are universal – both SAE 45° and 37° connections.

JIC 37° Female Swivel (Exceptions Noted for 45° Flare, Refer to Footnotes)



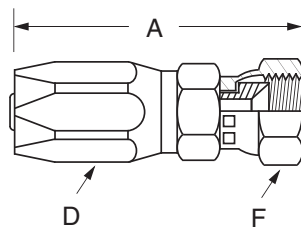
| HOSE I.D. | TUBE SIZE | CATALOG NUMBER | THREAD SIZE | A | HOSE CUT-OFF FACTOR† | HOLE DIA. | HEX D | HEX F |
|-----------|-----------|-------------------------|-------------|------|----------------------|-----------|-------|-------|
| 3/16 | 1/4 | 21304N-604 ^a | 7/16-20 | 1.92 | 1.25 | .15 | 9/16 | 9/16 |
| 1/4 | 5/16 | 21305N-605 ^a | 1/2-20 | 2.01 | 1.25 | .20 | 5/8 | 5/8 |
| 5/16 | 3/8 | 21306N-606 | 9/16-18 | 2.20 | 1.38 | .26 | 3/4 | 11/16 |
| 13/32 | 1/2 | 21308N-608 ^a | 3/4-16 | 2.49 | 1.50 | .36 | 7/8 | 7/8 |
| 1/2 | 5/8 | 21310N-610 ^a | 7/8-14 | 2.69 | 1.63 | .45 | 1 | 1 |
| 5/8 | 3/4 | 21312N-612 | 1-1/16-12 | 2.91 | 1.75 | .57 | 1-1/8 | 1-1/4 |
| 7/8 | 1 | 21316N-616 | 1-5/16-12 | 2.95 | 1.88 | .82 | 1-3/8 | 1-1/2 |

SAE 45° Female Swivel (Exceptions Noted for 45° Flare, Refer to Footnotes)



| HOSE I.D. | TUBE SIZE | CATALOG NUMBER | THREAD SIZE | A | HOSE CUT-OFF FACTOR† | HOLE DIA. | HEX D | HEX F |
|-----------|-----------|----------------|-------------|------|----------------------|-----------|-------|-------|
| 5/16 | 3/8 | 21306N-406 | 5/8-18 | 2.14 | 1.38 | .26 | 3/4 | 3/4 |
| 5/8 | 3/4 | 21312N-412 | 1-1/16-14 | 2.85 | 1.75 | .57 | 1-1/8 | 1-1/4 |

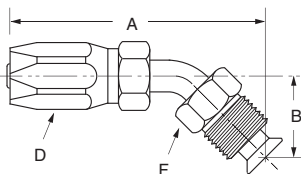
30° Flare Female Swivel (PTT Thread For Diesel Applications)



| HOSE I.D. | TUBE SIZE | CATALOG NUMBER | THREAD SIZE | A | HOSE CUT-OFF FACTOR† | HOLE DIA. | HEX D | HEX F |
|-----------|-----------|----------------|-------------|------|----------------------|-----------|-------|-------|
| 7/8 | 1 | 21316N-X26 | 1-5/16-14 | 2.78 | 1.69 | .81 | 1-3/8 | 1-1/2 |

(See page 294 for PTT Thread Adapter.)

Inverted Male Swivel 45° Tube Elbow



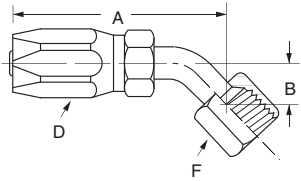
| HOSE I.D. | TUBE SIZE | CATALOG NUMBER | THREAD SIZE | A | B | HOSE CUT-OFF FACTOR† | HOLE DIA. | HEX D | HEX F |
|-----------|-----------|----------------|-------------|------|------|----------------------|-----------|-------|-------|
| 3/16 | 1/4 | 21304N-E44 | 7/16-24 | 2.91 | .93 | 2.19 | .15 | 9/16 | 7/16 |
| 1/4 | 5/16 | 21305N-E45 | 1/2-20 | 3.30 | 1.14 | 2.63 | .21 | 5/8 | 1/2 |
| 5/16 | 1/4 | 21306N-E44 | 7/16-24 | 3.10 | .93 | 2.25 | .15 | 3/4 | 7/16 |
| 5/16 | 5/16 | 21306N-E45 | 1/2-20 | 3.40 | 1.14 | 2.63 | .21 | 3/4 | 1/2 |
| 5/16 | 3/8 | 21306N-E46 | 5/8-18 | 3.26 | .94 | 2.38 | .25 | 3/4 | 5/8 |
| 13/32 | 1/2 | 21308N-E48 | 3/4-18 | 3.70 | .94 | 2.69 | .33 | 7/8 | 3/4 |

Field Attachable 213 'N' Series

†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

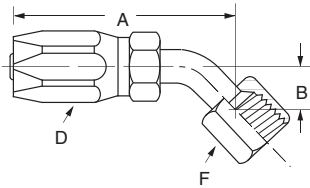
^a Swivel nuts are universal – both SAE 45° and 37° connections.

SAE 37° Female Swivel 45° Tube Elbow (Exceptions Noted for 45° Flare, Refer to Footnotes)



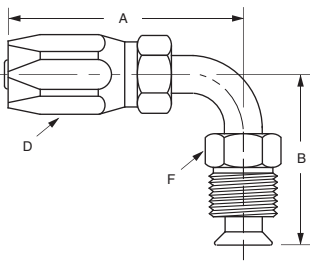
| HOSE I.D. | TUBE SIZE | CATALOG NUMBER | THREAD SIZE | A | B | HOSE CUT-OFF FACTOR† | HOLE DIA. | HEX D | HEX F |
|-----------|-----------|-------------------------|-------------|------|-----|----------------------|-----------|-------|-------|
| 3/16 | 1/4 | 21304N-684 ^a | 7/16-20 | 2.34 | .33 | 1.63 | .15 | 9/16 | 9/16 |
| 1/4 | 5/16 | 21305N-685 ^a | 1/2-20 | 2.44 | .36 | 1.69 | .21 | 5/8 | 5/8 |
| 5/16 | 3/8 | 21306N-686 | 9/16-18 | 2.61 | .39 | 1.75 | .25 | 3/4 | 5/8 |
| 13/32 | 1/2 | 21308N-688 ^a | 3/4-16 | 3.13 | .55 | 2.13 | .33 | 7/8 | 7/8 |

SAE 45° Female Swivel 45° Tube Elbow



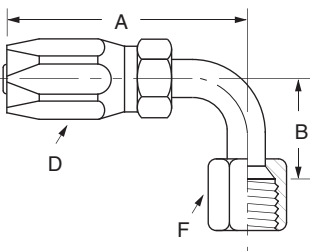
| HOSE I.D. | TUBE SIZE | CATALOG NUMBER | THREAD SIZE | A | B | HOSE CUT-OFF FACTOR† | HOLE DIA. | HEX D | HEX F |
|-----------|-----------|----------------|-------------|------|-----|----------------------|-----------|-------|-------|
| 5/16 | 3/8 | 21306N-486 | 5/8-18 | 2.85 | .39 | 1.81 | .25 | 3/4 | 3/4 |

Inverted Male Swivel 90° Tube Elbow



| HOSE I.D. | TUBE SIZE | CATALOG NUMBER | THREAD SIZE | A | B | HOSE CUT-OFF FACTOR† | HOLE DIA. | HEX D | HEX F |
|-----------|-----------|----------------|-------------|------|------|----------------------|-----------|-------|-------|
| 3/16 | 1/4 | 21304N-E04 | 7/16-24 | 1.69 | 1.36 | 1.50 | .13 | 9/16 | 7/16 |
| 3/16 | 5/16 | 21304N-E05 | 1/2-20 | 2.30 | 1.61 | 1.56 | .13 | 9/16 | 1/2 |
| 1/4 | 5/16 | 21305N-E05 | 1/2-20 | 2.49 | 1.61 | 1.75 | .17 | 5/8 | 1/2 |
| 5/16 | 1/4 | 21306N-E04 | 7/16-24 | 2.58 | 1.65 | 1.75 | .15 | 3/4 | 7/16 |
| 5/16 | 5/16 | 21306N-E05 | 1/2-20 | 2.50 | 1.61 | 1.63 | .21 | 3/4 | 1/2 |
| 5/16 | 3/8 | 21306N-E06 | 5/8-18 | 2.82 | 1.97 | 2.00 | .24 | 3/4 | 5/8 |
| 13/32 | 1/2 | 21308N-E08 | 3/4-18 | 2.78 | 1.69 | 1.81 | .33 | 7/8 | 3/4 |

JIC 37° Female Swivel 90° Tube Elbow (Exceptions Noted for 45° Flare, Refer to Footnotes)

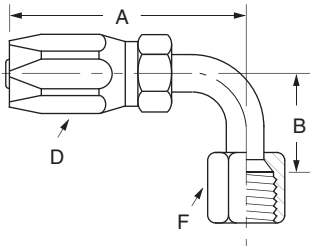


| HOSE I.D. | TUBE SIZE | CATALOG NUMBER | THREAD SIZE | A | B | HOSE CUT-OFF FACTOR† | HOLE DIA. | HEX D | HEX F |
|-----------|-----------|-------------------------|-------------|------|------|----------------------|-----------|-------|-------|
| 3/16 | 1/4 | 21304N-664 ^a | 7/16-20 | 2.16 | .68 | 1.44 | .13 | 9/16 | 9/16 |
| 1/4 | 5/16 | 21305N-665 ^a | 1/2-20 | 2.46 | .77 | 1.75 | .17 | 5/8 | 5/8 |
| 5/16 | 3/8 | 21306N-666 | 9/16-18 | 2.61 | .85 | 1.81 | .24 | 3/4 | 11/16 |
| 13/32 | 1/2 | 21308N-668 ^a | 3/4-16 | 2.91 | 1.09 | 1.94 | .33 | 7/8 | 7/8 |

**Field Attachable
213 'N' Series**

†To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of assembly.

**SAE 45° Female Swivel 90°
Tube Elbow**



| HOSE I.D | TUBE SIZE | CATALOG NUMBER | THREAD SIZE | A | B | HOSE CUT-OFF FACTOR† | HOLE DIA. | HEX D | HEX F |
|----------|-----------|----------------|-------------|------|-----|----------------------|-----------|-------|-------|
| 5/16 | 3/8 | 21306N-466 | 5/8-18 | 2.48 | .85 | 1.63 | .24 | 3/4 | 3/4 |