

# JIC 37° Flare-Twin®

Swivel Nut 90° Elbow  
(Ref. SAE No. 070221)  
Assembly Number C35506x4,  
etc.



| TUBE O.D. | CATALOG NUMBER        |
|-----------|-----------------------|
| 1/4       | C5506x4               |
| 5/16      | C5506x5               |
| 3/8       | C5506x6               |
| 1/2       | C5506x8               |
| 5/8       | C5506x10              |
| 3/4       | C5506x12              |
| 7/8       | C5506x14 <sup>1</sup> |
| 1         | C5506x16              |
| 1-1/4     | C5506x20              |
| 1/4       | TF5506x4              |
| 5/16      | TF5506x5              |
| 3/8       | TF5506x6              |
| 1/2       | TF5506x8              |
| 5/8       | TF5506x10             |
| 3/4       | TF5506x12             |
| 7/8       | TF5506x14             |
| 1         | TF5506x16             |
| 1-1/4     | TF5506x20             |
| 1-1/2     | TF5506x24             |
| 2         | TF5506x32             |

<sup>\*</sup>5518x  
<sup>1</sup>Special order only.

90° Male Pipe to JIC 37°  
Swivel  
Assembly Number  
TF35406x4, etc.



| TUBE O.D. | MALE PIPE THREAD | CATALOG NUMBER |
|-----------|------------------|----------------|
| 1/4       | 1/8              | TF5406x4       |
| 3/8       | 1/4              | TF5406x6       |
| 1/2       | 3/8              | TF5406x8       |
| 5/8       | 1/2              | TF5406x10      |
| 3/4       | 3/4              | TF5406x12      |
| 1         | 1                | TF5406x16      |
| 1-1/4     | 1-1/4            | TF5406x20      |
| 1-1/2     | 1-1/2            | TF5406x24      |
| 2         | 2                | TF5406x32      |

Straight Thread O-Ring  
90° Elbow (cont. on next  
page)  
(Ref. SAE No. 070220)  
Assembly Number C35515x4,  
etc.



| TUBE O.D. | PORT SIZE | CATALOG NUMBER |
|-----------|-----------|----------------|
| 3/16      | 3/16      | C5515x3        |
| 1/4       | 1/4       | C5515x4        |
| 5/16      | 5/16      | C5515x5        |
| 3/8       | 3/8       | C5515x6        |
| 3/8       | 1/2       | C5515x6x8      |
| 1/2       | 3/8       | C5515x8x6      |
| 1/2       | 1/2       | C5515x8        |
| 1/2       | 5/8       | C5515x8x10     |
| 5/8       | 5/8       | C5515x10       |
| 3/4       | 5/8       | C5515x12x10    |
| 3/4       | 3/4       | C5515x12       |
| 7/8       | 7/8       | C5515x14       |
| 1         | 3/4       | C5515x16x12    |
| 1         | 1         | C5515x16       |
| 1-1/4     | 1-1/4     | C5515x20       |
| 1-1/2     | 1-1/2     | C5515x24       |
| 1/4       | 1/4       | TF5515x4       |
| 1/4       | 5/16      | TF5515x4x5     |
| 1/4       | 3/8       | TF5515x4x6     |
| 5/16      | 1/4       | TF5515x5x4     |
| 5/16      | 5/16      | TF5515x5       |
| 5/16      | 3/8       | TF5515x5x6     |
| 3/8       | 1/4       | TF5515x6x4     |
| 3/8       | 5/16      | TF5515x6x5     |
| 3/8       | 3/8       | TF5515x6       |
| 3/8       | 1/2       | TF5515x6x8     |
| 3/8       | 5/8       | TF5515x6x10    |
| 1/2       | 3/8       | TF5515x8x6     |
| 1/2       | 1/2       | TF5515x8       |
| 1/2       | 5/8       | TF5515x8x10    |
| 1/2       | 3/4       | TF5515x8x12    |
| 5/8       | 1/2       | TF5515x10x8    |
| 5/8       | 5/8       | TF5515x10      |
| 5/8       | 3/4       | TF5515x10x12   |
| 3/4       | 1/2       | TF5515x12x8    |
| 3/4       | 5/8       | TF5515x12x10   |

<sup>\*</sup>5527x

# DIN Fittings



**Typical Application:** Used in applications to adapt connections made to DIN (Deutsche Industrie Norme) specifications to male SAE 37° flare.

**Sealing Method:** 3-piece flareless bite type or 60° cone, or 37° flare.

**Vibration Rating:** Fair resistance.

**Material:** Carbon steel – SAE 12L14

**Plating:** Bodies and sleeves – Zinc and Yellow Dichromate finish.  
Nuts – Phosphate coating.

**Advantages:** Provides an adapter to convert a metric hose assembly to 37° SAE allowing the use of standard hose and end fittings. Can also be used in the repair of metric tubing.

**Assembly:** See page 390 for metric preset tool.

| Metric Tube O.D. | 6       | 8       | 10      | 12      | 14      | 15      | 16      |
|------------------|---------|---------|---------|---------|---------|---------|---------|
| Light            | M12x1.5 | M14x1.5 | M16x1.5 | M18x1.5 | –       | M22x1.5 | –       |
| Heavy            | M14x1.5 | M16x1.5 | M18x1.5 | M20x1.5 | M22x1.5 | –       | M24x1.5 |

| Metric Tube O.D. | 18      | 20      | 22      | 25      | 28      | 30      |
|------------------|---------|---------|---------|---------|---------|---------|
| Light            | M26x1.5 | –       | M30x2.0 | –       | M36x2.0 | –       |
| Heavy            | –       | M30x2.0 | –       | M36x2.0 | –       | M42x2.0 |

## Metric Flareless Sleeve

| TUBE O.D. (MM) | CATALOG NUMBER |
|----------------|----------------|
| 6              | 7165x6MM       |
| 8              | 7165x8MM       |
| 10             | 7165x10MM      |
| 12             | 7165x12MM      |
| 14             | 7165x14MM      |
| 15             | 7165x15MM      |
| 16             | 7165x16MM      |
| 18             | 7165x18MM      |
| 20             | 7165x20MM      |
| 22             | 7165x22MM      |
| 25             | 7165x25MM      |
| 28             | 7165x28MM      |
| 30             | 7165x30MM      |
| 38             | 7165x38MM      |

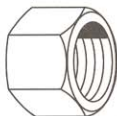


## Metric Flareless Nut Light Series (DIN 3901/3902L)



| TUBE O.D. (MM) | METRIC THREAD SIZE | CATALOG NUMBER |
|----------------|--------------------|----------------|
| 6              | M12x1.5            | ML7105x6       |
| 8              | M14x1.5            | ML7105x8       |
| 10             | M16x1.5            | ML7105x10      |
| 12             | M18x1.5            | ML7105x12      |
| 15             | M22x1.5            | ML7105x15      |
| 18             | M26x1.5            | ML7105x18      |
| 22             | M30x2.0            | ML7105x22      |
| 28             | M36x2.0            | ML7105x28      |

## Metric Flareless Nut Heavy Series (DIN 3901/3902S)

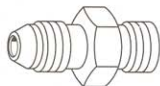


| TUBE O.D. (MM) | METRIC THREAD SIZE | CATALOG NUMBER |
|----------------|--------------------|----------------|
| 6              | M14x1.5            | MH7105x6       |
| 8              | M16x1.5            | MH7105x8       |
| 10             | M18x1.5            | MH7105x10      |
| 12             | M20x1.5            | MH7105x12      |
| 14             | M22x1.5            | MH7105x14      |
| 16             | M24x1.5            | MH7105x16      |
| 20             | M30x2.0            | MH7105x20      |
| 25             | M36x2.0            | MH7105x25      |
| 30             | M42x2.0            | MH7105x30      |
| 38             | M52x2.0            | MH7105x38      |

**NOTE:** Multiply millimeters (mm) by 0.03937 to obtain inches.

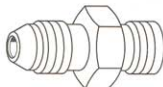
# DIN Fittings

Male JIC 37° To 24° Metric  
Tube Seat  
(DIN 3901/3902L)



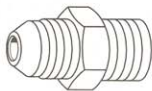
| TUBE O.D. | METRIC THREAD | CATALOG NUMBER |
|-----------|---------------|----------------|
| 1/4       | M12x1.5       | MC5206x4x6     |
| 3/8       | M14x1.5       | MC5206x6x8     |
| 1/2       | M16x1.5       | MC5206x8x10    |
| 1/2       | M18x1.5       | MC5206x8x12    |
| 5/8       | M22x1.5       | MC5206x10x15   |
| 3/4       | M26x1.5       | MC5206x12x18   |

Male JIC 37° To 24° Metric  
Tube Seat  
(DIN 3901/3902S)



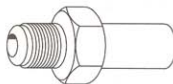
| TUBE O.D. | METRIC THREAD | CATALOG NUMBER |
|-----------|---------------|----------------|
| 3/8       | M14x1.5       | MC5208x6x6     |
| 1/2       | M18x1.5       | MC5208x8x10    |
| 5/8       | M22x1.5       | MC5208x10x14   |
| 3/4       | M24x1.5       | MC5208x12x16   |

Male JIC 37° To 60°  
Metric Tube Seat  
(DIN 7631)



| TUBE O.D. | METRIC THREAD | CATALOG NUMBER |
|-----------|---------------|----------------|
| 1/4       | M12x1.5       | MC5207x4x6     |
| 3/8       | M14x1.5       | MC5207x6x8     |
| 3/8       | M16x1.5       | MC5207x6x10    |
| 1/2       | M18x1.5       | MC5207x8x12    |
| 5/8       | M22x1.5       | MC5207x10x15   |
| 3/4       | M26x1.5       | MC5207x12x18   |

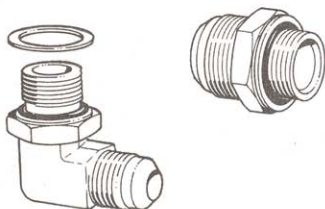
Male JIC 37° to Male  
Metric Standpipe



| TUBE O.D. | TUBE O.D. (MM) | CATALOG NUMBER |
|-----------|----------------|----------------|
| 1/4       | 6MM            | MC5019x4x6     |
| 1/4       | 8MM            | MC5019x4x8     |
| 3/8       | 10MM           | MC5019x6x10    |
| 1/2       | 12MM           | MC5019x8x12    |
| 1/2       | 14MM           | MC5019x8x14    |
| 5/8       | 15MM           | MC5019x10x15   |
| 5/8       | 16MM           | MC5019x10x16   |
| 3/4       | 16MM           | MC5019x12x16   |
| 3/4       | 18MM           | MC5019x12x18   |
| 1         | 20MM           | MC5019x12x20   |
| 1         | 22MM           | MC5019x16x22   |
| 1         | 25MM           | MC5019x16x25   |

NOTE: Multiply millimeters (mm) by 0.03937 to obtain inches.

## Metric Fittings



Sleeve 3-Piece  
Metric  
(Ref. SAE No. 070115)



| TUBE<br>O.D.<br>(IN)<br>SIZE | TUBE<br>O.D.<br>(MM<br>SIZE) | CATALOG<br>NUMBER |
|------------------------------|------------------------------|-------------------|
| 1/4                          | 6MM                          | C5165x4x6MM       |
| 5/16                         | 8MM                          | C5165x5x8MM       |
| 3/8                          | 10MM                         | C5165x6x10MM      |
| 1/2                          | 12MM                         | C5165x8x12MM      |
| 5/8                          | 14MM                         | C5165x10x14MM     |
| 5/8                          | 15MM                         | C5165x10x15MM     |
| 5/8                          | 16MM                         | C5165x10x16MM     |
| 3/4                          | 18MM                         | C5165x12x18MM     |
| 7/8                          | 20MM                         | C5165x14x20MM     |
| 7/8                          | 22MM                         | C5165x14x22MM     |
| 1                            | 25MM                         | C5165x16x25MM     |
| 1-1/4                        | 30MM                         | C5165x20x30MM     |
| 1-1/4                        | 32MM                         | C5165x20x32MM     |
| 1-1/2                        | 38MM                         | C5165x24x38MM     |

Adapts standard JIC Flare-Twin® fittings for use with metric tubing.

**Typical Application:** Used in applications to adapt connections and tubing to male swivel SAE 37° flare.

**Sealing Method:** Metric Tapered pipe thread, or o-ring or 37° flare.

**Vibration Rating:** Fair resistance.

**Material:** Carbon steel – SAE 12L14

**Plating:** Zinc with yellow dichromate finish.

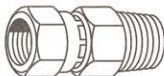
**Advantages:** Provides an adapter to convert metric ports to 37° allowing the use of standard hose and end fittings. Also metric tubing that can be flared can be adapted to a standard 37° SAE connection.

Male JIC 37° To Male  
Metric Straight Thread  
Connector



| TUBE<br>O.D. | MALE<br>METRIC<br>THREAD | CATALOG<br>NUMBER |
|--------------|--------------------------|-------------------|
| 1/4          | M10x1.0                  | MC5315x4x10       |
| 1/4          | M12x1.5                  | MC5315x4x12       |
| 1/4          | M14x1.5                  | MC5315x4x14       |
| 3/8          | M14x1.5                  | MC5315x6x14       |
| 3/8          | M16x1.5                  | MC5315x6x16       |
| 1/2          | M18x1.5                  | MC5315x8x18       |
| 1/2          | M22x1.5                  | MC5315x8x22       |
| 5/8          | M20x1.5                  | MC5315x10x20      |
| 3/4          | M22x1.5                  | MC5315x12x22      |
| 3/4          | M27x2.0                  | MC5315x12x27      |
| 1            | M33x2.0                  | MC5315x16x33      |
| 1-1/4        | M42x2.0                  | MC5315x20x42      |

Female JIC 37° Swivel  
To Male JIS Metric Taper  
Pipe Thread



| TUBE<br>O.D. | JIS TAPER<br>PIPE<br>THREAD | CATALOG<br>NUMBER |
|--------------|-----------------------------|-------------------|
| 1/4          | M10x1.0                     | M9700x4x6         |
| 5/16         | M12x1.5                     | M9700x5x8         |
| 3/8          | M14x1.5                     | M9700x6x10        |
| 1/2          | M16x1.5                     | M9700x8x12        |
| 5/8          | M20x1.5                     | M9700x10x14       |
| 3/4          | M24x1.5                     | M9700x12x20       |
| 1            | M27x2.0                     | M9700x16x25       |
| 1-1/4        | M36x2.0                     | M9700x20x32       |

NOTE: Multiply millimeters (mm) by 0.03937 to obtain inches.