

# General Characteristics

## DM 80 Series - Metric Tube

### Fitting Material Specifications

K = Stainless Steel

\*G = Carbon Steel

B = Copper Nickel 70/30

C = Copper Nickel 90/10

D = Duplex

Z = Super Duplex

### Material Specification

ASTM-A479/A182-316

ASTM-A105/A350 LF2

MIL-C71500

MIL-C70600

ASTM-A479/A182-UNS31803

ASTM-A479/A182-UNS32750

\*60mm Carbon Steel PYPLOK® material specification is AISI/SAE-4140 unless otherwise noted.

### O-Ring Material Specifications

### O-Ring Temperature Limits

VITON (Brown Colour)

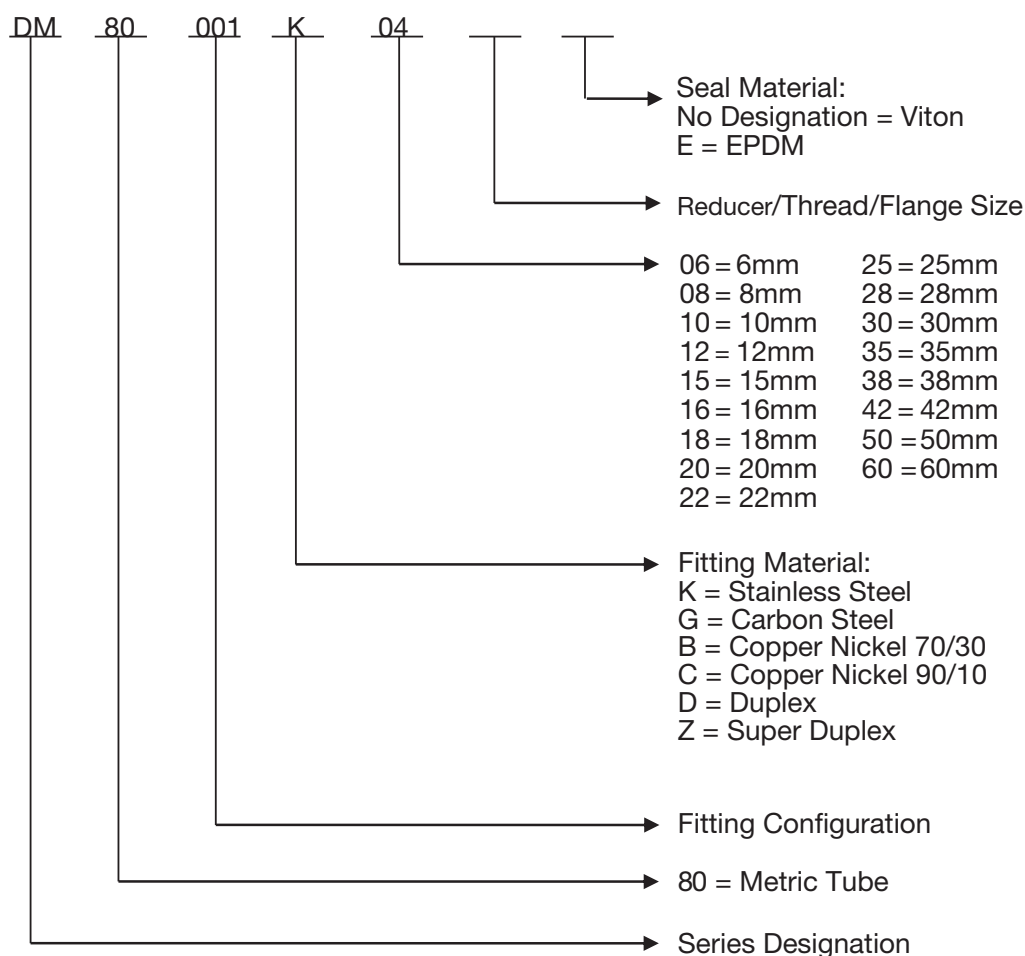
-15°F to 400°F (-26°C to 205°C)

EPDM (Black Colour)

-60°F to 400°F (-51°C to 205°C)

For seal compatibility and selection for each system consult factory. Other seal materials for specific applications of compatibility and temperature are available upon request.

### Ordering Information

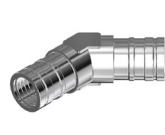
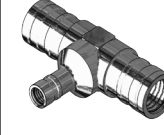
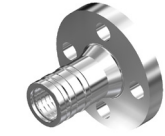
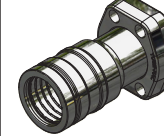
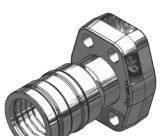
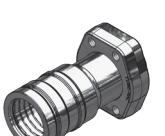
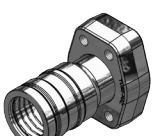


System design and safe application is the responsibility of the end-user. Consideration must be taken to confirm proper fitting selection is made to ensure proper compatibility, function and operation of the fitting within the piping system. The technical and performance information such as weights, dimensions and ratings in this catalogue supersede all previous published data. Tube-Mac® reserves the right to change technical data and product dimension, ratings and other aspects without notice.

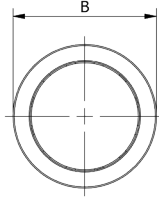
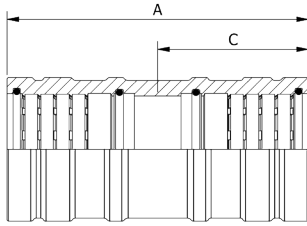
# Standard Fitting Configuration Guide

## DM 80 Series - Metric Tube

6mm to 60mm

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |    |    |    |    |    |
| <b>Coupling</b><br>DM80001<br>Page E3                                               | <b>Coupling with Inner Stop</b><br>DM80002<br>Page E4                               | <b>90° Elbow</b><br>DM80003<br>Page E5                                              | <b>45° Elbow</b><br>DM80017<br>Page E6                                              | <b>Tee</b><br>DM80004<br>Page E7                                                      | <b>Reducing Tee</b><br>DM80104<br>Page E8                                             |
|    |    |    |    |    |    |
| <b>Reducer</b><br>DM80101<br>Page E9                                                | <b>End Cap</b><br>DM80085<br>Page E10                                               | <b>Flange - PN16</b><br>DM80028<br>Page E11                                         | <b>Flange - PN40</b><br>DM80029<br>Page E11                                         | <b>SAE Flange Body</b><br>DM80090<br>Page E12                                         | <b>ISO 6162-1 Flange</b><br>DM80091<br>Page E13                                       |
|  |  |  |  |  |  |
| <b>ISO 6162-2 Flange</b><br>DM80092<br>Page E13                                     | <b>ISO 6162-1 Tapped Flange</b><br>DM80095<br>Page E14                              | <b>ISO 6162-2 Tapped Flange</b><br>DM80096<br>Page E14                              | <b>JIC 37° Male</b><br>DM80055<br>Page E15                                          | <b>JIC 37° Female Swivel</b><br>DM80054<br>Page E15                                   | <b>BSPP Male</b><br>DM80153<br>Page E16                                               |
|  |  |  |  |  |  |
| <b>BSPP Female</b><br>DM80086<br>Page E17                                           | <b>DIN 24° Male</b><br>DM80066<br>Page E18                                          | <b>DIN 24° Female Swivel</b><br>DM80068<br>Page E19                                 | <b>Weldable Bulkhead</b><br>DM80089<br>Page E20                                     | <b>BSPP Female Branch Tee</b><br>DM80172<br>Page E21                                  | <b>Tee with BSPP Branch</b><br>DM80211<br>Page E22                                    |
|  |  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| <b>BSPP Cross Fitting with 2 Ports</b><br>DM80221<br>Page E23                       | <b>BSPP Cross Fitting with 4 Ports</b><br>DM80241<br>Page E24                       |                                                                                     |                                                                                     |                                                                                       |                                                                                       |

# DM 80 Series - Metric Tube



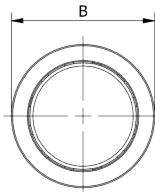
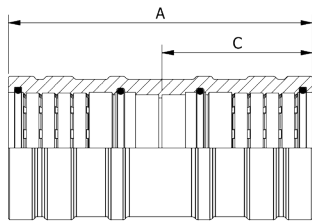
**\*MATERIAL CODE:**  
**K = STAINLESS STEEL**  
**G = CARBON STEEL**  
**B = COPPER NICKEL 70/30**

**ORDER EXAMPLE:**  
**DM80001G06**

| Coupling, Metric - DM80001 |             |                        |              |                      |                           |
|----------------------------|-------------|------------------------|--------------|----------------------|---------------------------|
| Size<br>OD (mm)            | Part Number | Dimensions - mm (Inch) |              |                      | *Weight K & G<br>kg (lbs) |
|                            |             | A                      | B            | C<br>Insertion Depth |                           |
| 6                          | DM80001*06  | 33.00 (1.30)           | 9.80 (0.39)  | 16.51 (0.65)         | 0.01 (0.02)               |
| 8                          | DM80001*08  | 38.61 (1.52)           | 12.19 (0.48) | 19.30 (0.76)         | 0.02 (0.03)               |
| 10                         | DM80001*10  | 48.30 (1.90)           | 15.09 (0.59) | 24.13 (0.95)         | 0.03 (0.06)               |
| 12                         | DM80001*12  | 54.00 (2.13)           | 18.59 (0.73) | 27.00 (1.06)         | 0.05 (0.10)               |
| 15                         | DM80001*15  | 64.01 (2.52)           | 23.70 (0.93) | 32.00 (1.26)         | 0.10 (0.23)               |
| 16                         | DM80001*16  | 64.01 (2.52)           | 23.70 (0.93) | 32.00 (1.26)         | 0.09 (0.19)               |
| 18                         | DM80001*18  | 69.85 (2.75)           | 25.15 (0.99) | 35.05 (1.38)         | 0.09 (0.20)               |
| 20                         | DM80001*20  | 74.17 (2.91)           | 28.70 (1.13) | 37.08 (1.46)         | 0.15 (0.32)               |
| 22                         | DM80001*22  | 76.20 (3.00)           | 30.48 (1.20) | 38.10 (1.50)         | 0.15 (0.33)               |
| 25                         | DM80001*25  | 84.07 (3.31)           | 35.31 (1.39) | 41.91 (1.65)         | 0.24 (0.53)               |
| 28                         | DM80001*28  | 88.90 (3.50)           | 37.59 (1.48) | 44.45 (1.75)         | 0.24 (0.54)               |
| 30                         | DM80001*30  | 93.98 (3.70)           | 41.91 (1.65) | 46.99 (1.85)         | 0.39 (0.85)               |
| 35                         | DM80001*35  | 101.60 (4.00)          | 46.23 (1.82) | 50.80 (2.00)         | 0.41 (0.91)               |
| 38                         | DM80001*38  | 108.97 (4.29)          | 52.07 (2.05) | 54.61 (2.15)         | 0.71 (1.57)               |
| 42                         | DM20001*20  | 120.65 (4.75)          | 57.40 (2.26) | 60.45 (2.38)         | 0.89 (1.96)               |
| 50                         | DM80001*50  | 127.00 (5.00)          | 65.53 (2.58) | 63.50 (2.50)         | 1.12 (2.46)               |
| **60K                      | DM20001K32  | 177.80 (7.00)          | 77.22 (3.04) | 88.90 (3.50)         | 2.00 (4.40)               |
| 60G                        | DM80001G60  | 177.80 (7.00)          | 77.22 (3.04) | 88.90 (3.50)         | 2.00 (4.40)               |

\*\*2" DM 20 Series Stainless Steel fittings are also used for 60mm Stainless Steel applications.

# DM 80 Series - Metric Tube



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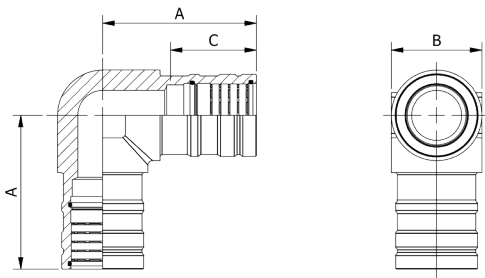
**ORDER EXAMPLE:**  
**DM80002G06**

## Coupling with Inner Stop, Metric - DM80002

| Size<br>OD (mm) | Part Number | Dimensions - mm (Inch) |              |                      | *Weight K & G<br>kg (lbs) |
|-----------------|-------------|------------------------|--------------|----------------------|---------------------------|
|                 |             | A                      | B            | C<br>Insertion Depth |                           |
| 6               | DM80002*06  | 34.29 (1.35)           | 9.80 (0.39)  | 16.51 (0.65)         | 0.01 (0.02)               |
| 8               | DM80002*08  | 39.88 (1.57)           | 12.19 (0.48) | 19.30 (0.76)         | 0.01 (0.03)               |
| 10              | DM80002*10  | 49.53 (1.95)           | 15.09 (0.59) | 24.13 (0.95)         | 0.06 (0.03)               |
| 12              | DM80002*12  | 55.37 (2.18)           | 18.59 (0.73) | 26.92 (1.06)         | 0.05 (0.10)               |
| 15              | DM80002*15  | 65.28 (2.57)           | 23.70 (0.93) | 32.00 (1.26)         | 0.10 (0.23)               |
| 16              | DM80002*16  | 65.28 (2.57)           | 23.70 (0.93) | 32.00 (1.26)         | 0.09 (0.20)               |
| 18              | DM80002*18  | 71.12 (2.80)           | 25.15 (0.99) | 35.05 (1.38)         | 0.10 (0.22)               |
| 20              | DM80002*20  | 75.44 (2.97)           | 28.70 (1.13) | 37.08 (1.46)         | 0.15 (0.32)               |
| 22              | DM80002*22  | 77.47 (3.05)           | 30.48 (1.20) | 38.10 (1.50)         | 0.15 (0.33)               |
| 25              | DM80002*25  | 85.34 (3.36)           | 35.31 (1.39) | 41.91 (1.65)         | 0.24 (0.54)               |
| 28              | DM80002*28  | 90.17 (3.55)           | 37.59 (1.48) | 44.45 (1.75)         | 0.25 (0.55)               |
| 30              | DM80002*30  | 95.25 (3.75)           | 41.91 (1.65) | 46.99 (1.85)         | 0.39 (0.85)               |
| 35              | DM80002*35  | 102.87 (4.05)          | 46.23 (1.82) | 50.80 (2.00)         | 0.41 (0.91)               |
| 38              | DM80002*38  | 110.24 (4.34)          | 52.07 (2.05) | 54.61 (2.15)         | 0.71 (1.57)               |
| 42              | DM20002*20  | 121.92 (4.80)          | 57.40 (2.26) | 60.45 (2.38)         | 0.89 (1.96)               |
| 50              | DM80002*50  | 128.27 (5.05)          | 65.53 (2.58) | 63.50 (2.50)         | 0.89 (1.96)               |
| **60K           | DM20002K32  | 179.07 (7.05)          | 77.22 (3.04) | 88.90 (3.50)         | 2.00 (4.40)               |
| 60G             | DM80002G60  | 179.07 (7.05)          | 77.22 (3.04) | 88.90 (3.50)         | 2.00 (4.40)               |

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**B = COPPER NICKEL 70/30**

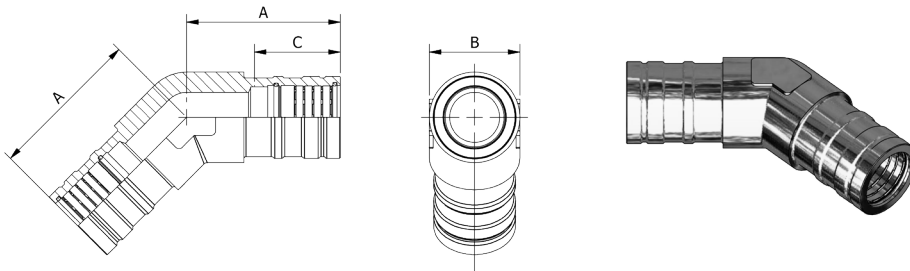
**ORDER EXAMPLE:**  
**DM80003G06**

## 90° Elbow, Metric - DM80003

| Size<br>OD (mm) | Part Number | Dimensions - mm (Inch) |              |                      | *Weight K & G<br>kg (lbs) |
|-----------------|-------------|------------------------|--------------|----------------------|---------------------------|
|                 |             | A                      | B            | C<br>Insertion Depth |                           |
| 6               | DM80003*06  | 27.94 (1.10)           | 11.81 (0.47) | 16.51 (0.65)         | 0.02 (0.04)               |
| 8               | DM80003*08  | 35.31 (1.39)           | 16.00 (0.63) | 19.30 (0.76)         | 0.04 (0.08)               |
| 10              | DM80003*10  | 42.67 (1.68)           | 21.84 (0.86) | 24.13 (0.95)         | 0.08 (0.18)               |
| 12              | DM80003*12  | 45.29 (1.78)           | 21.84 (0.86) | 26.92 (1.06)         | 0.09 (0.20)               |
| 15              | DM80003*15  | 52.07 (2.05)           | 26.92 (1.06) | 32.00 (1.26)         | 0.18 (0.40)               |
| 16              | DM80003*16  | 52.07 (2.05)           | 26.92 (1.06) | 32.00 (1.26)         | 0.20 (0.43)               |
| 18              | DM80003*18  | 52.07 (2.05)           | 26.92 (1.06) | 35.05 (1.38)         | 0.21 (0.46)               |
| 20              | DM80003*20  | 73.15 (2.88)           | 33.02 (1.30) | 37.08 (1.46)         | 0.36 (0.80)               |
| 22              | DM80003*22  | 73.15 (2.88)           | 33.02 (1.30) | 38.10 (1.50)         | 0.47 (1.04)               |
| 25              | DM80003*25  | 76.96 (3.03)           | 40.13 (1.58) | 41.91 (1.65)         | 0.58 (1.27)               |
| 28              | DM80003*28  | 76.96 (3.03)           | 40.13 (1.58) | 44.45 (1.75)         | 0.66 (1.45)               |
| 30              | DM80003*30  | 85.60 (3.37)           | 50.04 (1.97) | 46.99 (1.85)         | 1.13 (2.50)               |
| 35              | DM80003*35  | 85.60 (3.37)           | 50.04 (1.97) | 50.80 (2.00)         | 1.18 (2.60)               |
| 38              | DM80003*38  | 107.95 (4.25)          | 63.50 (2.50) | 54.61 (2.15)         | 2.46 (5.42)               |
| 42              | DM20003*20  | 107.95 (4.25)          | 63.50 (2.50) | 60.45 (2.38)         | 2.70 (5.95)               |
| 50              | DM80003*50  | 115.32 (4.54)          | 71.37 (2.81) | 63.50 (2.50)         | 3.18 (7.00)               |
| **60K           | DM20003K32  | 138.43 (5.45)          | 82.55 (3.25) | 88.90 (3.50)         | 4.40 (9.70)               |
| 60G             | DM80003G60  | 138.43 (5.45)          | 82.55 (3.25) | 88.90 (3.50)         | 4.40 (9.70)               |

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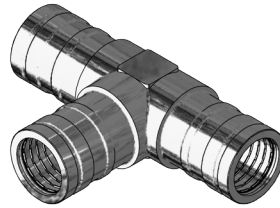
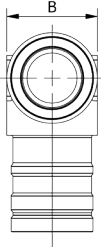
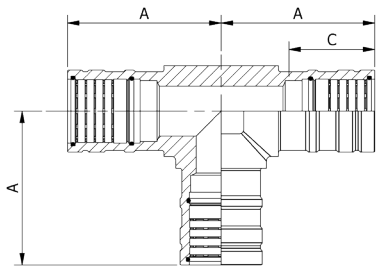
**ORDER EXAMPLE:**

**DM80017G06**

| 45° Elbow, Metric - DM80017 |             |                        |              |                      |                           |
|-----------------------------|-------------|------------------------|--------------|----------------------|---------------------------|
| Size<br>OD (mm)             | Part Number | Dimensions - mm (Inch) |              |                      | *Weight K & G<br>kg (lbs) |
|                             |             | A                      | B            | C<br>Insertion Depth |                           |
| 6                           | DM80017*06  | 27.94 (1.10)           | 11.81 (0.47) | 16.51 (0.65)         | 0.02 (0.05)               |
| 8                           | DM80017*08  | 35.31 (1.39)           | 16.00 (0.63) | 19.30 (0.76)         | 0.05 (0.10)               |
| 10                          | DM80017*10  | 42.67 (1.68)           | 21.84 (0.86) | 24.13 (0.95)         | 0.09 (0.19)               |
| 12                          | DM80017*12  | 45.21 (1.78)           | 21.84 (0.86) | 26.92 (1.06)         | 0.13 (0.29)               |
| 15                          | DM80017*15  | 52.07 (2.05)           | 26.92 (1.06) | 32.00 (1.26)         | 0.23 (0.50)               |
| 16                          | DM80017*16  | 52.07 (2.05)           | 26.92 (1.06) | 32.00 (1.26)         | 0.23 (0.50)               |
| 18                          | DM80017*18  | 52.07 (2.05)           | 26.92 (1.06) | 35.05 (1.38)         | 0.21 (0.47)               |
| 20                          | DM80017*20  | 73.15 (2.88)           | 33.02 (1.30) | 37.08 (1.46)         | 0.46 (1.02)               |
| 22                          | DM80017*22  | 73.15 (2.88)           | 33.02 (1.30) | 38.10 (1.50)         | 0.48 (1.05)               |
| 25                          | DM80017*25  | 76.96 (3.03)           | 40.13 (1.58) | 41.91 (1.65)         | 0.72 (1.59)               |
| 28                          | DM80017*28  | 76.96 (3.03)           | 40.13 (1.58) | 44.45 (1.75)         | 0.68 (1.50)               |
| 30                          | DM80017*30  | 85.60 (3.37)           | 50.04 (1.97) | 46.99 (1.85)         | 1.22 (2.68)               |
| 35                          | DM80017*35  | 85.60 (3.37)           | 50.04 (1.97) | 50.80 (2.00)         | 1.16 (2.55)               |
| 38                          | DM80017*38  | 107.95 (4.25)          | 63.50 (2.50) | 54.61 (2.15)         | 2.30 (5.08)               |
| 42                          | DM20017*20  | 107.95 (4.25)          | 63.50 (2.50) | 60.45 (2.38)         | 2.54 (5.60)               |
| 50                          | DM80017*50  | 115.32 (4.54)          | 71.37 (2.81) | 63.50 (2.50)         | 3.30 (7.27)               |
| **60                        | DM20017K32  | 138.43 (5.45)          | 82.55 (3.25) | 88.90 (3.50)         | 4.35 (9.60)               |

\*\*Only available in Stainless Steel.

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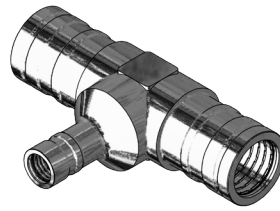
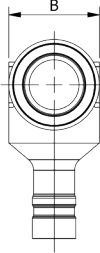
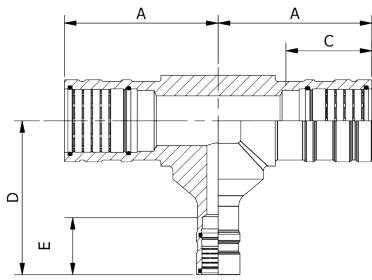
**\*MATERIAL CODE:**  
**K = STAINLESS STEEL**  
**G = CARBON STEEL**  
**B = COPPER NICKEL 70/30**

**ORDER EXAMPLE:**  
**DM80004G06**

| Tee, Metric - DM80004 |             |                        |              |                      |                           |
|-----------------------|-------------|------------------------|--------------|----------------------|---------------------------|
| Size<br>OD (mm)       | Part Number | Dimensions - mm (Inch) |              |                      | *Weight K & G<br>kg (lbs) |
|                       |             | A                      | B            | C<br>Insertion Depth |                           |
| 6                     | DM80004*06  | 27.94 (1.10)           | 11.81 (0.47) | 16.51 (0.65)         | 0.03 (0.06)               |
| 8                     | DM80004*08  | 35.31 (1.39)           | 16.00 (0.63) | 19.30 (0.76)         | 0.06 (0.13)               |
| 10                    | DM80004*10  | 42.67 (1.68)           | 21.84 (0.86) | 24.13 (0.95)         | 0.09 (0.20)               |
| 12                    | DM80004*12  | 45.21 (1.78)           | 21.84 (0.86) | 26.92 (1.06)         | 0.15 (0.34)               |
| 15                    | DM80004*15  | 52.07 (2.05)           | 26.92 (1.06) | 32.00 (1.26)         | 0.27 (0.59)               |
| 16                    | DM80004*16  | 52.07 (2.05)           | 26.92 (1.06) | 32.00 (1.26)         | 0.29 (0.65)               |
| 18                    | DM80004*18  | 52.07 (2.05)           | 26.92 (1.06) | 35.05 (1.38)         | 0.27 (0.60)               |
| 20                    | DM80004*20  | 73.15 (2.88)           | 33.02 (1.30) | 37.08 (1.46)         | 0.59 (1.30)               |
| 22                    | DM80004*22  | 73.15 (2.88)           | 33.02 (1.30) | 38.10 (1.50)         | 0.64 (1.42)               |
| 25                    | DM80004*25  | 76.96 (3.03)           | 40.13 (1.58) | 41.91 (1.65)         | 0.91 (2.01)               |
| 28                    | DM80004*28  | 76.96 (3.03)           | 40.13 (1.58) | 44.45 (1.75)         | 0.89 (1.96)               |
| 30                    | DM80004*30  | 85.60 (3.37)           | 50.04 (1.97) | 46.99 (1.85)         | 1.46 (3.22)               |
| 35                    | DM80004*35  | 85.60 (3.37)           | 50.04 (1.97) | 50.80 (2.00)         | 1.46 (3.22)               |
| 38                    | DM80004*38  | 107.95 (4.25)          | 63.50 (2.50) | 54.61 (2.15)         | 3.00 (6.61)               |
| 42                    | DM20004*20  | 107.95 (4.25)          | 63.50 (2.50) | 60.45 (2.38)         | 3.22 (7.10)               |
| 50                    | DM80004*50  | 115.32 (4.54)          | 71.37 (2.81) | 63.50 (2.50)         | 4.09 (9.02)               |
| **60K                 | DM20004K32  | 138.43 (5.45)          | 71.37 (2.81) | 88.90 (3.50)         | 5.55 (12.20)              |
| 60G                   | DM80004G60  | 138.43 (5.45)          | 82.55 (3.25) | 88.90 (3.50)         | 5.55 (12.20)              |

\*\*2" DM 20 Series Stainless Steel fittings are also used for 60mm Stainless Steel applications.

# DM 80 Series - Metric Tube



\*MATERIAL CODE:

K = STAINLESS STEEL

G = CARBON STEEL

B = COPPER NICKEL 70/30

ORDER EXAMPLE:

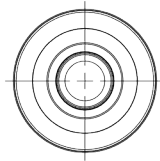
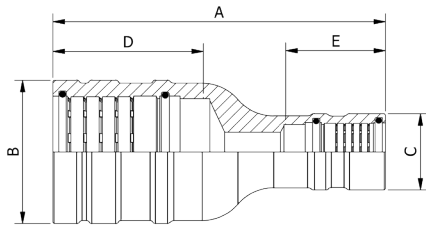
DM80104G0806

Other configurations available.  
Contact factory for details.

## Reducing Tee, Metric - DM80104

| Run<br>Size<br>OD (mm) | Branch<br>Size<br>OD (mm) | Part Number  | Dimensions - mm (Inch) |              |                      |               |                      | *Weight<br>K & G<br>kg (lbs) |
|------------------------|---------------------------|--------------|------------------------|--------------|----------------------|---------------|----------------------|------------------------------|
|                        |                           |              | A                      | B            | C<br>Insertion Depth | D             | E<br>Insertion Depth |                              |
| 8                      | 6                         | DM80104*0806 | 35.31 (1.39)           | 16.00 (0.63) | 19.30 (0.76)         | 31.75 (1.25)  | 16.51 (0.65)         | 0.06 (0.13)                  |
| 10                     | 8                         | DM80104*1008 | 42.67 (1.68)           | 21.84 (0.86) | 24.13 (0.95)         | 41.91 (1.65)  | 19.30 (0.76)         | 0.11 (0.24)                  |
| 12                     | 10                        | DM80104*1210 | 42.21 (1.78)           | 21.84 (0.86) | 26.92 (1.06)         | 46.23 (0.82)  | 24.13 (0.95)         | 0.17 (0.37)                  |
| 15                     | 10                        | DM80104*1510 | 52.07 (2.05)           | 26.92 (1.06) | 32.00 (1.26)         | 47.50 (1.87)  | 24.13 (0.95)         | 0.28 (0.61)                  |
| 15                     | 12                        | DM80104*1512 | 52.07 (2.05)           | 26.92 (1.06) | 32.00 (1.26)         | 49.53 (1.95)  | 26.92 (1.06)         | 0.29 (0.63)                  |
| 16                     | 10                        | DM80104*1610 | 52.07 (2.05)           | 26.92 (1.06) | 32.00 (1.26)         | 47.50 (1.87)  | 24.13 (0.95)         | 0.27 (0.59)                  |
| 16                     | 12                        | DM80104*1612 | 52.07 (2.05)           | 26.92 (1.06) | 32.00 (1.26)         | 49.28 (1.94)  | 26.92 (1.06)         | 0.26 (0.57)                  |
| 18                     | 12                        | DM80104*1812 | 52.07 (2.05)           | 26.92 (1.06) | 35.05 (1.38)         | 46.48 (1.83)  | 26.92 (1.06)         | 0.25 (0.56)                  |
| 18                     | 15                        | DM80104*1815 | 52.07 (2.05)           | 26.92 (1.06) | 35.05 (1.38)         | 50.80 (2.00)  | 32.00 (1.26)         | 0.29 (0.63)                  |
| 20                     | 12                        | DM80104*2012 | 73.15 (2.88)           | 33.02 (1.30) | 37.08 (1.46)         | 52.83 (2.08)  | 26.92 (1.06)         | 0.54 (1.19)                  |
| 20                     | 16                        | DM80104*2016 | 73.15 (2.88)           | 33.02 (1.30) | 37.08 (1.46)         | 65.28 (2.57)  | 32.00 (1.26)         | 0.56 (1.24)                  |
| 22                     | 15                        | DM80104*2215 | 73.15 (2.88)           | 33.02 (1.30) | 38.10 (1.50)         | 57.40 (2.26)  | 32.00 (1.26)         | 0.54 (1.19)                  |
| 22                     | 18                        | DM80104*2218 | 73.15 (2.88)           | 33.02 (1.30) | 38.10 (1.50)         | 63.50 (2.50)  | 38.10 (1.50)         | 0.54 (1.20)                  |
| 25                     | 16                        | DM80104*2516 | 76.96 (3.03)           | 40.13 (1.58) | 41.91 (1.65)         | 72.14 (2.84)  | 32.00 (1.26)         | 0.91 (2.00)                  |
| 25                     | 20                        | DM80104*2520 | 76.96 (3.03)           | 40.13 (1.58) | 41.91 (1.65)         | 79.76 (3.14)  | 37.08 (1.46)         | 1.09 (2.40)                  |
| 28                     | 18                        | DM80104*2818 | 76.96 (3.03)           | 40.13 (1.58) | 44.45 (1.75)         | 76.20 (3.00)  | 35.05 (1.38)         | 0.86 (1.90)                  |
| 28                     | 22                        | DM80104*2822 | 76.96 (3.03)           | 40.13 (1.58) | 44.45 (1.75)         | 79.76 (3.14)  | 38.10 (1.50)         | 0.87 (1.91)                  |
| 30                     | 20                        | DM80104*3020 | 85.60 (3.37)           | 50.04 (1.97) | 46.99 (1.85)         | 79.76 (3.14)  | 37.08 (1.46)         | 1.44 (3.18)                  |
| 30                     | 25                        | DM80104*3025 | 85.60 (3.37)           | 50.04 (1.97) | 46.99 (1.85)         | 85.60 (3.37)  | 41.91 (1.65)         | 1.51 (3.22)                  |
| 35                     | 20                        | DM80104*3520 | 85.60 (3.37)           | 50.04 (1.97) | 50.80 (2.00)         | 85.60 (3.37)  | 37.08 (1.46)         | 1.41 (3.10)                  |
| 35                     | 22                        | DM80104*3522 | 85.60 (3.37)           | 50.04 (1.97) | 50.80 (2.00)         | 85.60 (3.37)  | 38.10 (1.50)         | 1.49 (3.28)                  |
| 35                     | 28                        | DM80104*3528 | 85.60 (3.37)           | 50.04 (1.97) | 50.80 (2.00)         | 85.60 (3.37)  | 44.45 (1.75)         | 1.56 (3.43)                  |
| 38                     | 25                        | DM80104*3825 | 107.95 (4.25)          | 63.50 (2.50) | 54.61 (2.15)         | 107.95 (4.25) | 41.91 (1.65)         | 3.06 (6.75)                  |
| 38                     | 30                        | DM80104*3830 | 107.95 (4.25)          | 63.50 (2.50) | 54.61 (2.15)         | 107.95 (4.25) | 46.99 (1.85)         | 3.04 (6.70)                  |
| 42                     | 35                        | DM80104*4235 | 107.95 (4.25)          | 63.50 (2.50) | 60.45 (2.38)         | 107.95 (4.25) | 50.80 (2.00)         | 3.19 (7.04)                  |
| 42                     | 38                        | DM80104*4238 | 107.95 (4.25)          | 63.50 (2.50) | 60.45 (2.38)         | 107.95 (4.25) | 54.61 (2.15)         | 3.67 (8.08)                  |
| 50                     | 38                        | DM80104*5038 | 115.32 (4.54)          | 71.37 (2.81) | 63.50 (2.50)         | 115.32 (4.54) | 54.61 (2.15)         | 4.11 (9.06)                  |
| 50                     | 42                        | DM80104*5042 | 115.32 (4.54)          | 71.37 (2.81) | 63.50 (2.50)         | 115.32 (4.54) | 60.45 (2.38)         | 3.98 (8.78)                  |
| 60                     | 38                        | DM80104*6038 | 138.43 (5.45)          | 82.55 (3.25) | 88.90 (3.50)         | 138.43 (5.45) | 54.61 (2.15)         | 6.21 (13.69)                 |
| 60                     | 50                        | DM80104*6050 | 138.43 (5.45)          | 82.55 (3.25) | 88.90 (3.50)         | 138.43 (5.45) | 63.50 (2.50)         | 6.23 (13.73)                 |

# DM 80 Series - Metric Tube



**\*MATERIAL CODE:**

K = STAINLESS STEEL

G = CARBON STEEL

B = COPPER NICKEL 70/30

**ORDER EXAMPLE:**

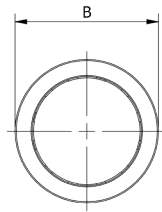
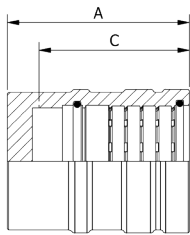
DM80101G0806

Other configurations available.  
Contact factory for details.

## Reducer, Metric - DM80101

| End 1<br>Size<br>OD (mm) | End 2<br>Size<br>OD (mm) | Part Number  | Dimensions - mm (Inch) |              |              |                      |                      | *Weight<br>K & G<br>kg (lbs) |
|--------------------------|--------------------------|--------------|------------------------|--------------|--------------|----------------------|----------------------|------------------------------|
|                          |                          |              | A                      | B            | C            | D<br>Insertion Depth | E<br>Insertion Depth |                              |
| 8                        | 6                        | DM80101*0806 | 50.80 (2.00)           | 12.19 (0.48) | 9.40 (0.37)  | 19.30 (0.76)         | 16.51 (0.65)         | 0.02 (0.04)                  |
| 10                       | 8                        | DM80101*1008 | 57.15 (2.25)           | 15.09 (0.59) | 12.19 (0.48) | 24.13 (0.95)         | 19.30 (0.76)         | 0.09 (0.20)                  |
| 12                       | 10                       | DM80101*1210 | 63.50 (2.50)           | 18.59 (0.73) | 14.99 (0.59) | 26.92 (1.06)         | 24.13 (0.95)         | 0.05 (0.11)                  |
| 15                       | 10                       | DM80101*1510 | 73.15 (2.88)           | 23.70 (0.93) | 14.99 (0.59) | 32.00 (1.26)         | 24.13 (0.95)         | 0.09 (0.19)                  |
| 15                       | 12                       | DM80101*1512 | 73.15 (2.88)           | 23.70 (0.93) | 18.54 (0.73) | 32.00 (1.26)         | 26.92 (1.06)         | 0.10 (0.21)                  |
| 16                       | 10                       | DM80101*1610 | 73.15 (2.88)           | 23.70 (0.93) | 14.99 (0.59) | 32.00 (1.26)         | 24.13 (0.95)         | 0.07 (0.17)                  |
| 16                       | 12                       | DM80101*1612 | 76.20 (3.00)           | 23.70 (0.93) | 18.54 (0.73) | 32.00 (1.26)         | 26.92 (1.06)         | 0.10 (0.22)                  |
| 18                       | 12                       | DM80101*1812 | 76.20 (3.00)           | 25.15 (0.99) | 18.54 (0.73) | 35.05 (1.38)         | 26.92 (1.06)         | 0.09 (0.20)                  |
| 18                       | 15                       | DM80101*1815 | 76.20 (3.00)           | 25.15 (0.99) | 23.62 (0.93) | 35.05 (1.38)         | 32.00 (1.26)         | 0.14 (0.30)                  |
| 20                       | 12                       | DM80101*2012 | 82.55 (3.25)           | 28.70 (1.13) | 18.54 (0.73) | 37.08 (1.46)         | 26.92 (1.06)         | 0.14 (0.30)                  |
| 20                       | 16                       | DM80101*2016 | 88.90 (3.50)           | 28.70 (1.13) | 23.62 (0.93) | 37.08 (1.46)         | 32.00 (1.26)         | 0.16 (0.36)                  |
| 22                       | 15                       | DM80101*2215 | 85.85 (3.38)           | 30.48 (1.20) | 23.62 (0.93) | 38.10 (1.50)         | 32.00 (1.26)         | 0.16 (0.36)                  |
| 22                       | 18                       | DM80101*2218 | 85.85 (3.38)           | 30.48 (1.20) | 25.15 (0.99) | 38.10 (1.50)         | 35.05 (1.38)         | 0.15 (0.33)                  |
| 25                       | 16                       | DM80101*2516 | 95.25 (3.75)           | 35.31 (1.39) | 23.62 (0.93) | 41.91 (1.65)         | 32.00 (1.26)         | 0.23 (0.50)                  |
| 25                       | 20                       | DM80101*2520 | 99.06 (3.90)           | 35.31 (1.39) | 28.70 (1.13) | 41.91 (1.65)         | 37.08 (1.46)         | 0.25 (0.55)                  |
| 28                       | 18                       | DM80101*2818 | 95.55 (3.88)           | 37.59 (1.48) | 25.15 (0.99) | 44.45 (1.75)         | 35.05 (1.38)         | 0.25 (0.55)                  |
| 28                       | 22                       | DM80101*2822 | 107.95 (4.25)          | 37.59 (1.48) | 30.48 (1.20) | 44.45 (1.75)         | 38.10 (1.50)         | 0.29 (0.65)                  |
| 30                       | 20                       | DM80101*3020 | 107.95 (4.25)          | 41.91 (1.65) | 28.70 (1.13) | 46.99 (1.85)         | 37.08 (1.46)         | 0.31 (0.68)                  |
| 30                       | 25                       | DM80101*3025 | 114.30 (4.50)          | 41.91 (1.65) | 35.31 (1.39) | 46.99 (1.85)         | 41.91 (1.65)         | 0.38 (0.84)                  |
| 35                       | 22                       | DM80101*3522 | 114.30 (4.50)          | 46.23 (1.82) | 30.48 (1.20) | 50.80 (2.00)         | 38.10 (1.50)         | 0.45 (1.00)                  |
| 35                       | 28                       | DM80101*3528 | 120.65 (4.75)          | 46.23 (1.82) | 37.59 (1.48) | 50.80 (2.00)         | 44.45 (1.75)         | 0.48 (1.06)                  |
| 38                       | 25                       | DM80101*3825 | 120.65 (4.75)          | 52.07 (2.05) | 35.31 (1.39) | 54.61 (2.15)         | 41.91 (1.65)         | 0.64 (1.40)                  |
| 38                       | 30                       | DM80101*3830 | 130.02 (5.13)          | 52.07 (2.05) | 41.91 (1.65) | 54.61 (2.15)         | 46.99 (1.85)         | 0.75 (1.65)                  |
| 42                       | 35                       | DM80101*4235 | 133.35 (5.25)          | 57.50 (2.26) | 46.23 (1.82) | 60.45 (2.38)         | 50.80 (2.00)         | 0.83 (1.83)                  |
| 42                       | 38                       | DM80101*4238 | 143.00 (5.63)          | 57.50 (2.26) | 52.07 (2.05) | 60.45 (2.38)         | 54.61 (2.15)         | 1.00 (2.20)                  |
| 50                       | 38                       | DM80101*5038 | 152.40 (6.00)          | 65.53 (2.58) | 52.07 (2.05) | 63.50 (2.50)         | 54.61 (2.15)         | 1.22 (2.69)                  |
| 50                       | 42                       | DM80101*5042 | 158.75 (6.25)          | 65.53 (2.58) | 57.40 (2.26) | 63.50 (2.50)         | 60.45 (2.38)         | 1.31 (2.88)                  |
| 60                       | 38                       | DM80101*6038 | 165.10 (6.50)          | 77.22 (3.04) | 52.07 (2.05) | 88.90 (3.50)         | 54.61 (2.15)         | 1.81 (3.99)                  |
| 60                       | 50                       | DM80101*6050 | 174.75 (6.88)          | 77.22 (3.04) | 65.53 (2.58) | 88.90 (3.50)         | 63.50 (2.50)         | 1.90 (4.19)                  |

# DM 80 Series - Metric Tube



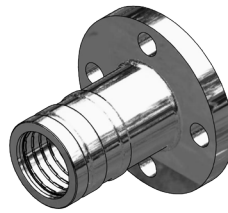
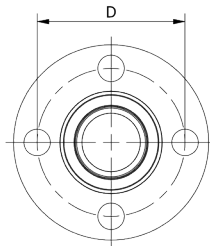
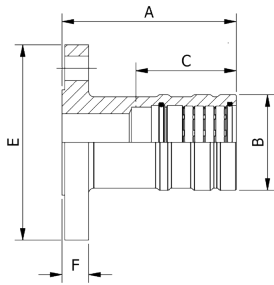
**\*MATERIAL CODE:**  
**K = STAINLESS STEEL**  
**G = CARBON STEEL**  
**B = COPPER NICKEL 70/30**

**ORDER EXAMPLE:**  
**DM80085G06**

| End Cap, Metric - DM80085 |             |                        |              |                      |                           |
|---------------------------|-------------|------------------------|--------------|----------------------|---------------------------|
| Size<br>OD (mm)           | Part Number | Dimensions - mm (Inch) |              |                      | *Weight K & G<br>kg (lbs) |
|                           |             | A                      | B            | C<br>Insertion Depth |                           |
| 6                         | DM80085*06  | 23.11 (0.91)           | 9.80 (0.39)  | 16.51 (0.65)         | 0.01 (0.02)               |
| 8                         | DM80085*08  | 29.21 (1.15)           | 12.19 (0.48) | 19.30 (0.76)         | 0.01 (0.02)               |
| 10                        | DM80085*10  | 33.78 (1.33)           | 15.09 (0.59) | 24.13 (0.95)         | 0.02 (0.05)               |
| 12                        | DM80085*12  | 37.59 (1.48)           | 18.59 (0.73) | 26.92 (1.06)         | 0.04 (0.08)               |
| 15                        | DM80085*15  | 45.72 (1.80)           | 23.70 (0.93) | 32.00 (1.26)         | 0.09 (0.19)               |
| 16                        | DM80085*16  | 45.72 (1.80)           | 23.70 (0.93) | 32.00 (1.26)         | 0.08 (0.17)               |
| 18                        | DM80085*18  | 51.82 (2.04)           | 25.15 (0.99) | 35.05 (1.38)         | 0.10 (0.21)               |
| 20                        | DM80085*20  | 55.63 (2.19)           | 28.70 (1.13) | 37.08 (1.46)         | 0.14 (0.31)               |
| 22                        | DM80085*22  | 56.64 (2.23)           | 30.48 (1.20) | 38.10 (1.50)         | 0.15 (0.33)               |
| 25                        | DM80085*25  | 60.71 (2.39)           | 35.31 (1.39) | 41.91 (1.65)         | 0.23 (0.50)               |
| 28                        | DM80085*28  | 62.99 (2.48)           | 37.59 (1.48) | 44.45 (1.75)         | 0.24 (0.52)               |
| 30                        | DM80085*30  | 65.53 (2.58)           | 41.91 (1.65) | 46.99 (1.85)         | 0.34 (0.76)               |
| 35                        | DM80085*35  | 69.34 (2.73)           | 46.23 (1.82) | 50.80 (2.00)         | 0.39 (0.85)               |
| 38                        | DM80085*38  | 73.15 (2.88)           | 52.07 (2.05) | 54.61 (2.15)         | 0.62 (1.36)               |
| 42                        | DM20085*20  | 73.15 (2.88)           | 57.40 (2.26) | 60.45 (2.38)         | 0.65 (1.44)               |
| 50                        | DM80085*50  | 82.04 (3.23)           | 65.53 (2.58) | 63.50 (2.50)         | 0.92 (2.03)               |
| **60K                     | DM20085K32  | 104.90 (4.13)          | 77.22 (3.04) | 88.90 (3.50)         | 1.42 (3.13)               |
| 60G                       | DM80085G60  | 104.90 (4.13)          | 77.22 (3.04) | 88.90 (3.50)         | 1.42 (3.13)               |

\*\*2" DM 20 Series Stainless Steel fittings are also used for 60mm Stainless Steel applications.

# DM 80 Series - Metric Tube



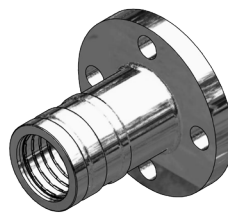
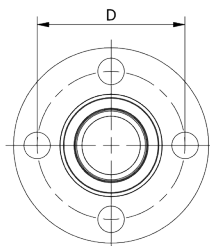
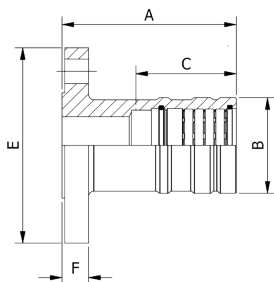
**\*MATERIAL CODE:**  
**K = STAINLESS STEEL**  
**G = CARBON STEEL**  
**B = COPPER NICKEL 70/30**

**ORDER EXAMPLE:**  
**DM80028G2015**

## Flange – PN16, Metric - DM80028

| Size<br>OD<br>(mm) | Flange<br>Size | Part Number  | Dimensions - mm (Inch) |              |                      |               |               |              | Bolt Size | *Weight<br>K & G<br>kg (lbs) |
|--------------------|----------------|--------------|------------------------|--------------|----------------------|---------------|---------------|--------------|-----------|------------------------------|
|                    |                |              | A                      | B            | C<br>Insertion Depth | D             | E             | F            |           |                              |
| 20                 | DN15           | DM80028*2015 | 80.01 (3.15)           | 28.70 (1.13) | 37.08 (1.46)         | 65.02 (2.56)  | 95.00 (3.74)  | 14.00 (0.55) | M12       | 0.79 (1.75)                  |
| 25                 | DN20           | DM80028*2520 | 85.09 (3.35)           | 35.31 (1.39) | 41.91 (1.65)         | 74.93 (2.95)  | 104.90 (4.13) | 16.00 (0.63) | M12       | 1.15 (2.54)                  |
| 30                 | DN25           | DM80028*3025 | 95.00 (3.74)           | 41.91 (1.65) | 46.99 (1.85)         | 85.09 (3.35)  | 115.06 (4.53) | 16.00 (0.63) | M12       | 1.36 (3.00)                  |
| 38                 | DN32           | DM80028*3832 | 100.08 (3.94)          | 52.07 (2.05) | 54.61 (2.15)         | 100.08 (3.94) | 139.95 (5.51) | 16.00 (0.63) | M16       | 2.24 (4.93)                  |
| 42                 | DN32           | DM80028*4232 | 115.06 (4.53)          | 57.40 (2.26) | 60.45 (2.38)         | 100.08 (3.94) | 139.95 (5.51) | 16.00 (0.63) | M16       | 2.54 (5.59)                  |
| 50                 | DN40           | DM80028*5040 | 115.06 (4.53)          | 65.53 (2.58) | 63.50 (2.50)         | 109.98 (4.33) | 150.11 (5.91) | 16.00 (0.63) | M16       | 2.83 (6.25)                  |
| 60                 | DN50           | DM80028*6050 | 145.03 (5.71)          | 77.22 (3.04) | 88.90 (3.50)         | 124.97 (4.92) | 165.10 (6.50) | 18.03 (0.71) | M16       | 4.17 (9.19)                  |

DM80028G60 is made from ASTM-A105/A350 LF2 material.



**\*MATERIAL CODE:**  
**K = STAINLESS STEEL**  
**G = CARBON STEEL**  
**B = COPPER NICKEL 70/30**

**ORDER EXAMPLE:**  
**DM80029G2015**

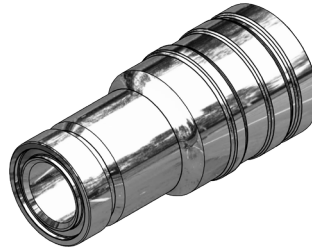
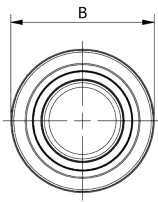
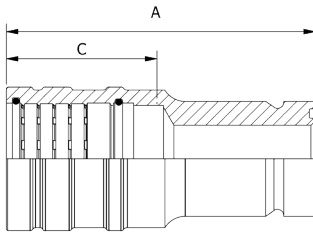
## Flange – PN40, Metric - DM80029

| Size<br>OD<br>(mm) | Flange<br>Size | Part Number  | Dimensions - mm (Inch) |              |                      |               |               |              | Bolt Size | *Weight<br>K & G<br>kg (lbs) |
|--------------------|----------------|--------------|------------------------|--------------|----------------------|---------------|---------------|--------------|-----------|------------------------------|
|                    |                |              | A                      | B            | C<br>Insertion Depth | D             | E             | F            |           |                              |
| 20                 | DN15           | DM80029*2015 | 80.01 (3.15)           | 28.70 (1.13) | 37.08 (1.46)         | 65.02 (2.56)  | 95.00 (3.74)  | 16.00 (0.63) | M12       | 0.89 (1.96)                  |
| 25                 | DN20           | DM80029*2520 | 85.09 (3.35)           | 35.31 (1.39) | 41.91 (1.65)         | 74.93 (2.95)  | 104.90 (4.13) | 18.03 (0.71) | M12       | 1.27 (2.79)                  |
| 30                 | DN25           | DM80029*3025 | 95.00 (3.74)           | 41.91 (1.65) | 46.99 (1.85)         | 85.09 (3.35)  | 115.06 (4.53) | 18.03 (0.71) | M12       | 1.48 (3.26)                  |
| 38                 | DN32           | DM80029*3832 | 100.08 (3.94)          | 52.07 (2.05) | 54.61 (2.15)         | 100.08 (3.94) | 139.95 (5.51) | 18.03 (0.71) | M16       | 2.43 (5.36)                  |
| 42                 | DN32           | DM80029*4232 | 115.06 (4.53)          | 57.40 (2.26) | 60.45 (2.38)         | 100.08 (3.94) | 139.95 (5.51) | 18.03 (0.71) | M16       | 2.73 (6.01)                  |
| 50                 | DN40           | DM80029*5040 | 118.36 (4.66)          | 65.53 (2.58) | 63.50 (2.50)         | 109.98 (4.33) | 150.11 (5.91) | 18.03 (0.71) | M16       | 3.01 (6.63)                  |
| 60                 | DN50           | DM80029*6050 | 145.03 (5.71)          | 77.22 (3.04) | 88.90 (3.50)         | 124.97 (4.92) | 165.10 (6.50) | 20.07 (0.79) | M16       | 4.42 (9.74)                  |

DM80029G60 is made from ASTM-A105/A350 LF2 material.

3D step models available upon request

# DM 80 Series - Metric Tube



**\*MATERIAL CODE:**

**K = STAINLESS STEEL**

**G = CARBON STEEL**

**B = COPPER NICKEL 70/30**

**ORDER EXAMPLE:**

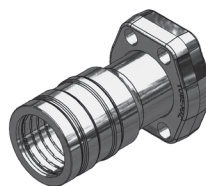
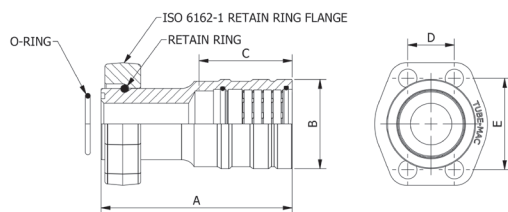
**DM80090G1608**

## SAE Flange Body, Metric - DM80090

| Size<br>OD (mm) | Flange<br>Size | Part Number         | Dimensions - mm (Inch) |              |                      | *Weight K & G<br>kg (lbs) |
|-----------------|----------------|---------------------|------------------------|--------------|----------------------|---------------------------|
|                 |                |                     | A                      | B            | C<br>Insertion Depth |                           |
| 16              | 1/2"           | <b>DM80090*1608</b> | 82.80 (3.26)           | 23.70 (0.93) | 32.00 (1.26)         | 0.20 (0.43)               |
| 18              | 1/2"           | <b>DM80090*1808</b> | 82.80 (3.26)           | 23.70 (0.93) | 35.05 (1.38)         | 0.20 (0.44)               |
| 20              | 1/2"           | <b>DM80090*2008</b> | 84.84 (3.34)           | 28.70 (1.13) | 37.08 (1.46)         | 0.19 (0.42)               |
| 22              | 1/2"           | <b>DM80090*2208</b> | 84.84 (3.34)           | 30.48 (1.20) | 38.10 (1.50)         | 0.23 (0.51)               |
| 25              | 3/4"           | <b>DM80090*2512</b> | 92.71 (3.65)           | 35.31 (1.39) | 41.91 (1.65)         | 0.41 (0.90)               |
| 28              | 3/4"           | <b>DM80090*2812</b> | 95.25 (3.75)           | 37.59 (1.48) | 44.45 (1.75)         | 0.42 (0.93)               |
| 30              | 1"             | <b>DM80090*3016</b> | 97.79 (3.85)           | 41.91 (1.65) | 46.99 (1.85)         | 0.52 (1.14)               |
| 35              | 1"             | <b>DM80090*3516</b> | 107.95 (4.25)          | 46.23 (1.82) | 50.80 (2.00)         | 0.59 (1.29)               |
| 38              | 1-1/4"         | <b>DM80090*3820</b> | 118.11 (4.65)          | 52.07 (2.05) | 54.61 (2.15)         | 0.82 (1.80)               |
| 42              | 1-1/4"         | <b>DM20090*20</b>   | 123.95 (4.88)          | 57.40 (2.26) | 60.45 (2.38)         | 0.97 (2.13)               |
| 50              | 1-1/2"         | <b>DM80090*5024</b> | 136.65 (5.38)          | 65.53 (2.58) | 63.50 (2.50)         | 1.41 (3.10)               |
| **60K           | 2"             | <b>DM20090K32</b>   | 165.10 (6.50)          | 77.22 (3.04) | 88.90 (3.50)         | 2.01 (4.43)               |
| 60G             | 2"             | <b>DM80090G6032</b> | 165.10 (6.50)          | 77.22 (3.04) | 88.90 (3.50)         | 2.01 (4.43)               |

\*\*2" DM 20 Series Stainless Steel fittings are also used for 60mm Stainless Steel applications.

# DM 80 Series - Metric Tube



**\*MATERIAL CODE:**

**K = STAINLESS STEEL**

**G = CARBON STEEL**

**B = COPPER NICKEL 70/30**

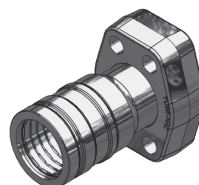
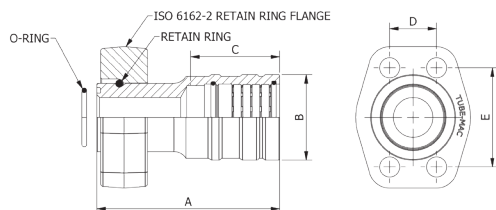
**ORDER EXAMPLE:**

**DM80091G1608**

## ISO 6162-1 Flange, Metric - DM80091

| Size<br>OD<br>(mm) | Flange<br>Size | Part Number  | Dimensions - mm (Inch) |              |                      |              |              | Bolt Size | *Weight<br>K & G<br>kg (lbs) |
|--------------------|----------------|--------------|------------------------|--------------|----------------------|--------------|--------------|-----------|------------------------------|
|                    |                |              | A                      | B            | C<br>Insertion Depth | D            | E            |           |                              |
| 16                 | 1/2"           | DM80091*1608 | 82.80 (3.26)           | 23.70 (0.93) | 32.00 (1.26)         | 17.53 (0.69) | 38.10 (1.50) | M8        | 0.40 (0.89)                  |
| 18                 | 1/2"           | DM80091*1808 | 82.80 (3.26)           | 25.15 (0.99) | 35.05 (1.38)         | 17.53 (0.69) | 38.10 (1.50) | M8        | 0.41 (0.90)                  |
| 20                 | 1/2"           | DM80091*2008 | 84.84 (3.34)           | 28.70 (1.13) | 37.08 (1.46)         | 17.53 (0.69) | 38.10 (1.50) | M8        | 0.40 (0.88)                  |
| 22                 | 1/2"           | DM80091*2208 | 84.84 (3.34)           | 30.48 (1.20) | 38.10 (1.50)         | 17.53 (0.69) | 38.10 (1.50) | M8        | 0.44 (0.97)                  |
| 25                 | 3/4"           | DM80091*2512 | 92.71 (3.65)           | 35.31 (1.39) | 41.91 (1.65)         | 22.35 (0.88) | 47.75 (1.88) | M10       | 0.64 (1.40)                  |
| 28                 | 3/4"           | DM80091*2812 | 95.25 (3.75)           | 37.59 (1.48) | 44.45 (1.75)         | 22.35 (0.88) | 47.75 (1.88) | M10       | 0.65 (1.43)                  |
| 30                 | 1"             | DM80091*3016 | 97.79 (3.85)           | 41.91 (1.65) | 46.99 (1.85)         | 26.16 (1.03) | 52.32 (2.06) | M10       | 0.80 (1.77)                  |
| 35                 | 1"             | DM80091*3516 | 107.95 (4.25)          | 46.23 (1.82) | 50.80 (2.00)         | 26.16 (1.03) | 52.32 (2.06) | M10       | 0.87 (1.92)                  |
| 38                 | 1-1/4"         | DM80091*3820 | 118.11 (4.65)          | 52.07 (2.05) | 54.61 (2.15)         | 30.23 (1.19) | 58.67 (2.31) | M10       | 1.22 (2.70)                  |
| 42                 | 1-1/4"         | DM20091*20   | 123.95 (4.88)          | 57.40 (2.26) | 60.45 (2.38)         | 30.23 (1.19) | 58.67 (2.31) | M10       | 1.37 (3.03)                  |
| 50                 | 1-1/2"         | DM80091*5024 | 136.65 (5.38)          | 65.53 (2.58) | 63.50 (2.50)         | 35.81 (1.41) | 69.85 (2.75) | M12       | 2.02 (4.45)                  |
| **60K              | 2"             | DM20091K32   | 165.10 (6.50)          | 77.22 (3.04) | 88.90 (3.50)         | 42.93 (1.69) | 77.22 (3.06) | M12       | 2.93 (6.45)                  |
| 60G                | 2"             | DM80091G6032 | 165.10 (6.50)          | 77.22 (3.04) | 88.90 (3.50)         | 42.93 (1.69) | 77.22 (3.06) | M12       | 2.93 (6.45)                  |

\*\*2" DM 20 Series Stainless Steel fittings are also used for 60mm Stainless Steel applications.



**\*MATERIAL CODE:**

**K = STAINLESS STEEL**

**G = CARBON STEEL**

**B = COPPER NICKEL 70/30**

**ORDER EXAMPLE:**

**DM80092G1608**

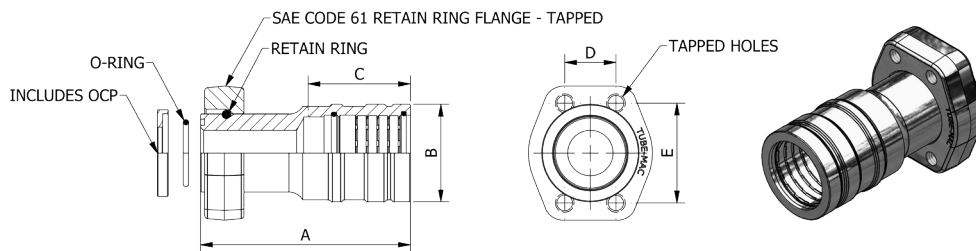
## ISO 6162-2 Flange, Metric - DM80092

| Size<br>OD<br>(mm) | Flange<br>Size | Part Number  | Dimensions - mm (Inch) |              |                      |              |              | Bolt Size | *Weight<br>K & G<br>kg (lbs) |
|--------------------|----------------|--------------|------------------------|--------------|----------------------|--------------|--------------|-----------|------------------------------|
|                    |                |              | A                      | B            | C<br>Insertion Depth | D            | E            |           |                              |
| 16                 | 1/2"           | DM80092*1608 | 82.80 (3.26)           | 23.70 (0.93) | 32.00 (1.26)         | 18.29 (0.72) | 40.39 (1.59) | M8        | 0.40 (0.89)                  |
| 18                 | 1/2"           | DM80092*1808 | 82.80 (3.26)           | 25.15 (0.99) | 35.05 (1.38)         | 18.29 (0.72) | 40.39 (1.59) | M8        | 0.41 (0.90)                  |
| 20                 | 1/2"           | DM80092*2008 | 84.84 (3.34)           | 28.70 (1.13) | 37.08 (1.46)         | 18.29 (0.72) | 40.39 (1.59) | M8        | 0.40 (0.88)                  |
| 22                 | 1/2"           | DM80092*2208 | 84.84 (3.34)           | 30.48 (1.20) | 38.10 (1.50)         | 18.29 (0.72) | 40.39 (1.59) | M8        | 0.44 (0.97)                  |
| 25                 | 3/4"           | DM80092*2512 | 92.71 (3.65)           | 35.31 (1.39) | 41.91 (1.65)         | 23.88 (0.94) | 50.80 (2.00) | M10       | 0.78 (1.71)                  |
| 28                 | 3/4"           | DM80092*2812 | 95.25 (3.75)           | 37.59 (1.48) | 44.45 (1.75)         | 23.88 (0.94) | 50.80 (2.00) | M10       | 0.79 (1.74)                  |
| 30                 | 1"             | DM80092*3016 | 97.79 (3.85)           | 41.91 (1.65) | 46.99 (1.85)         | 27.69 (1.09) | 57.15 (2.25) | M12       | 1.09 (2.40)                  |
| 35                 | 1"             | DM80092*3516 | 107.95 (4.25)          | 46.23 (1.82) | 50.80 (2.00)         | 27.69 (1.09) | 57.15 (2.25) | M12       | 1.16 (2.55)                  |
| 38                 | 1-1/4"         | DM80092*3820 | 118.11 (4.65)          | 52.07 (2.05) | 54.61 (2.15)         | 31.75 (1.25) | 66.80 (2.63) | M14       | 1.70 (3.75)                  |
| 42                 | 1-1/4"         | DM20092*20   | 123.95 (4.88)          | 57.40 (2.26) | 60.45 (2.38)         | 31.75 (1.25) | 66.80 (2.63) | M14       | 1.85 (4.08)                  |
| 50                 | 1-1/2"         | DM80092*5024 | 136.65 (5.38)          | 65.53 (2.58) | 63.50 (2.50)         | 36.58 (1.44) | 79.50 (3.13) | M16       | 2.71 (5.98)                  |
| **60K              | 2"             | DM20092K32   | 165.10 (6.50)          | 77.22 (3.04) | 88.90 (3.50)         | 44.45 (1.75) | 96.77 (3.81) | M20       | 4.46 (9.83)                  |
| 60G                | 2"             | DM80092G6032 | 165.10 (6.50)          | 77.22 (3.04) | 88.90 (3.50)         | 44.45 (1.75) | 96.77 (3.81) | M20       | 4.46 (9.83)                  |

\*\*2" DM 20 Series Stainless Steel fittings are also used for 60mm Stainless Steel applications.

3D step models available upon request

# DM 80 Series - Metric Tube



**\*MATERIAL CODE:**

K = STAINLESS STEEL

G = CARBON STEEL

B = COPPER NICKEL 70/30

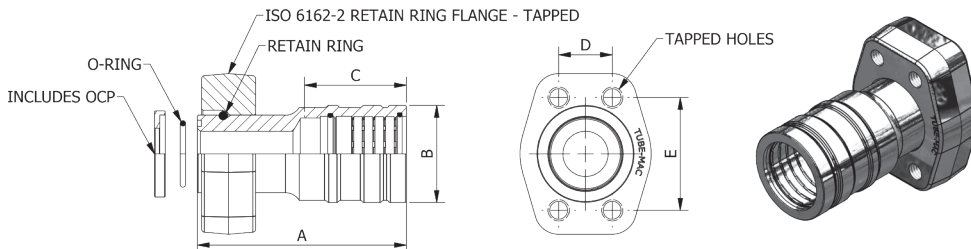
**ORDER EXAMPLE:**

DM80095G1608

## ISO 6162-1 Tapped Flange, Metric - DM80095

| Size<br>OD<br>(mm) | Flange<br>Size | Part Number  | Dimensions - mm (Inch) |              |                      |              |              | Metric<br>Tap | *Weight<br>K & G<br>kg (lbs) |
|--------------------|----------------|--------------|------------------------|--------------|----------------------|--------------|--------------|---------------|------------------------------|
|                    |                |              | A                      | B            | C<br>Insertion Depth | D            | E            |               |                              |
| 16                 | 1/2"           | DM80095*1608 | 82.80 (3.26)           | 23.70 (0.93) | 32.00 (1.26)         | 17.53 (0.69) | 38.10 (1.50) | M8            | 0.40 (0.89)                  |
| 18                 | 1/2"           | DM80095*1808 | 82.80 (3.26)           | 25.15 (0.99) | 35.05 (1.38)         | 17.53 (0.69) | 38.10 (1.50) | M8            | 0.41 (0.90)                  |
| 20                 | 1/2"           | DM80095*2008 | 84.84 (3.34)           | 28.70 (1.13) | 37.08 (1.46)         | 17.53 (0.69) | 38.10 (1.50) | M8            | 0.40 (0.88)                  |
| 22                 | 1/2"           | DM80095*2208 | 84.84 (3.34)           | 30.48 (1.20) | 38.10 (1.50)         | 17.53 (0.69) | 38.10 (1.50) | M8            | 0.44 (0.97)                  |
| 25                 | 3/4"           | DM80095*2512 | 92.71 (3.65)           | 35.31 (1.39) | 41.91 (1.65)         | 22.35 (0.88) | 47.75 (1.88) | M10           | 0.64 (1.40)                  |
| 28                 | 3/4"           | DM80095*2812 | 95.25 (3.75)           | 37.59 (1.48) | 44.45 (1.75)         | 22.35 (0.88) | 47.75 (1.88) | M10           | 0.65 (1.43)                  |
| 30                 | 1"             | DM80095*3016 | 97.79 (3.85)           | 41.91 (1.65) | 46.99 (1.85)         | 26.16 (1.03) | 52.32 (2.06) | M10           | 0.80 (1.77)                  |
| 35                 | 1"             | DM80095*3516 | 107.95 (4.25)          | 46.23 (1.82) | 50.80 (2.00)         | 26.16 (1.03) | 52.32 (2.06) | M10           | 0.87 (1.92)                  |
| 38                 | 1-1/4"         | DM80095*3820 | 118.11 (4.65)          | 52.07 (2.05) | 54.61 (2.15)         | 30.23 (1.19) | 58.67 (2.31) | M10           | 1.22 (2.70)                  |
| 42                 | 1-1/4"         | DM80095*4220 | 123.95 (4.88)          | 57.40 (2.26) | 60.45 (2.38)         | 30.23 (1.19) | 58.67 (2.31) | M10           | 1.37 (3.03)                  |
| 50                 | 1-1/2"         | DM80095*5024 | 136.65 (5.38)          | 65.53 (2.58) | 63.50 (2.50)         | 35.81 (1.41) | 69.85 (2.75) | M12           | 2.02 (4.45)                  |
| **60K              | 2"             | DM80095K6032 | 165.10 (6.50)          | 77.22 (3.04) | 88.90 (3.50)         | 42.93 (1.69) | 77.22 (3.06) | M12           | 2.93 (6.45)                  |
| 60G                | 2"             | DM80095G6032 | 165.10 (6.50)          | 77.22 (3.04) | 88.90 (3.50)         | 42.93 (1.69) | 77.22 (3.06) | M12           | 2.93 (6.45)                  |

\*\*2" DM 20 Series Stainless Steel fittings are also used for 60mm Stainless Steel applications.



**\*MATERIAL CODE:**

K = STAINLESS STEEL

G = CARBON STEEL

B = COPPER NICKEL 70/30

**ORDER EXAMPLE:**

DM80096G1608

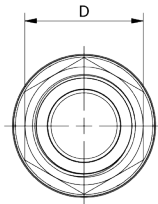
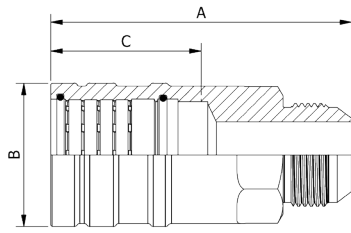
## ISO 6162-2 Tapped Flange, Metric - DM80096

| Size<br>OD<br>(mm) | Flange<br>Size | Part Number  | Dimensions - mm (Inch) |              |                      |              |              | Metric<br>Tap | *Weight<br>K & G<br>kg (lbs) |
|--------------------|----------------|--------------|------------------------|--------------|----------------------|--------------|--------------|---------------|------------------------------|
|                    |                |              | A                      | B            | C<br>Insertion Depth | D            | E            |               |                              |
| 16                 | 1/2"           | DM80096*1608 | 82.80 (3.26)           | 23.70 (0.93) | 32.00 (1.26)         | 18.29 (0.72) | 40.39 (1.59) | M8            | 0.40 (0.89)                  |
| 18                 | 1/2"           | DM80096*1808 | 82.80 (3.26)           | 25.15 (0.99) | 35.05 (1.38)         | 18.29 (0.72) | 40.39 (1.59) | M8            | 0.41 (0.90)                  |
| 20                 | 1/2"           | DM80096*2008 | 84.84 (3.34)           | 28.70 (1.13) | 37.08 (1.46)         | 18.29 (0.72) | 40.39 (1.59) | M8            | 0.40 (0.88)                  |
| 22                 | 1/2"           | DM80096*2208 | 84.84 (3.34)           | 30.48 (1.20) | 38.10 (1.50)         | 18.29 (0.72) | 40.39 (1.59) | M8            | 0.44 (0.97)                  |
| 25                 | 3/4"           | DM80096*2512 | 92.71 (3.65)           | 35.31 (1.39) | 41.91 (1.65)         | 23.88 (0.94) | 50.80 (2.00) | M10           | 0.78 (1.71)                  |
| 28                 | 3/4"           | DM80096*2812 | 95.25 (3.75)           | 37.59 (1.48) | 44.45 (1.75)         | 23.88 (0.94) | 50.80 (2.00) | M10           | 0.79 (1.74)                  |
| 30                 | 1"             | DM80096*3016 | 97.79 (3.85)           | 41.91 (1.65) | 46.99 (1.85)         | 27.69 (1.09) | 57.15 (2.25) | M12           | 1.09 (2.40)                  |
| 35                 | 1"             | DM80096*3516 | 107.95 (4.25)          | 46.23 (1.82) | 50.80 (2.00)         | 27.69 (1.09) | 57.15 (2.25) | M12           | 1.16 (2.55)                  |
| 38                 | 1-1/4"         | DM80096*3820 | 118.11 (4.65)          | 52.07 (2.05) | 54.61 (2.15)         | 31.75 (1.25) | 66.80 (2.63) | M14           | 1.70 (3.75)                  |
| 42                 | 1-1/4"         | DM80096*4220 | 123.95 (4.88)          | 57.40 (2.26) | 60.45 (2.38)         | 31.75 (1.25) | 66.80 (2.63) | M14           | 1.85 (4.08)                  |
| 50                 | 1-1/2"         | DM80096*5024 | 136.65 (5.38)          | 65.53 (2.58) | 63.50 (2.50)         | 36.58 (1.44) | 79.50 (3.13) | M16           | 2.71 (5.98)                  |
| **60K              | 2"             | DM80096K6032 | 165.10 (6.50)          | 77.22 (3.04) | 88.90 (3.50)         | 44.45 (1.75) | 96.77 (3.81) | M20           | 4.46 (9.83)                  |
| 60G                | 2"             | DM80096G6032 | 165.10 (6.50)          | 77.22 (3.04) | 88.90 (3.50)         | 44.45 (1.75) | 96.77 (3.81) | M20           | 4.46 (9.83)                  |

\*\*2" DM 20 Series Stainless Steel fittings are also used for 60mm Stainless Steel applications.

3D step models available upon request

# DM 80 Series - Metric Tube

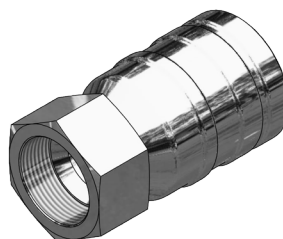
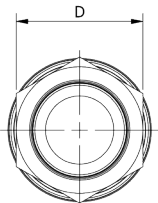
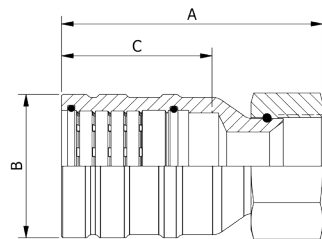


**\*MATERIAL CODE:**  
**K = STAINLESS STEEL**  
**G = CARBON STEEL**  
**B = COPPER NICKEL 70/30**

**ORDER EXAMPLE:**  
**DM80055G0604**

## JIC 37° Male, Metric - DM80055

| Size<br>OD<br>(mm) | JIC Size | Part Number  | Dimensions - mm (Inch) |              |                      |              | *Weight<br>K & G<br>kg (lbs) |
|--------------------|----------|--------------|------------------------|--------------|----------------------|--------------|------------------------------|
|                    |          |              | A                      | B            | C<br>Insertion Depth | D            |                              |
| 6                  | 04       | DM80055*0604 | 42.67 (1.68)           | 9.80 (0.39)  | 16.51 (0.65)         | 12.70 (0.50) | 0.02 (0.04)                  |
| 8                  | 04       | DM80055*0804 | 46.48 (1.83)           | 12.19 (0.48) | 19.30 (0.76)         | 12.70 (0.50) | 0.03 (0.05)                  |
| 10                 | 06       | DM80055*1006 | 49.53 (1.95)           | 15.09 (0.59) | 24.13 (0.95)         | 16.00 (0.63) | 0.04 (0.08)                  |
| 12                 | 08       | DM80055*1208 | 60.45 (2.38)           | 18.59 (0.73) | 26.92 (1.06)         | 22.10 (0.87) | 0.08 (0.18)                  |
| 16                 | 10       | DM80055*1610 | 66.80 (2.63)           | 23.70 (0.93) | 32.00 (1.26)         | 26.92 (1.06) | 0.12 (0.27)                  |
| 20                 | 12       | DM80055*2012 | 84.58 (3.33)           | 28.70 (1.13) | 37.08 (1.46)         | 28.70 (1.13) | 0.15 (0.33)                  |
| 25                 | 16       | DM80055*2516 | 89.92 (3.54)           | 35.31 (1.39) | 41.91 (1.65)         | 35.05 (1.38) | 0.31 (0.69)                  |
| 30                 | 20       | DM80055*3020 | 101.60 (4.00)          | 41.91 (1.65) | 46.99 (1.85)         | 47.75 (1.88) | 0.54 (1.18)                  |
| 38                 | 24       | DM80055*3824 | 117.60 (4.63)          | 52.07 (2.05) | 54.61 (2.15)         | 50.80 (2.00) | 0.82 (1.81)                  |
| 42                 | 24       | DM80055*4224 | 117.60 (4.63)          | 57.40 (2.26) | 60.45 (2.38)         | 57.15 (2.25) | 1.04 (2.29)                  |
| 50                 | 24       | DM80055*5024 | 127.00 (5.00)          | 65.53 (2.58) | 63.50 (2.50)         | 66.80 (2.63) | 1.32 (2.91)                  |



**\*MATERIAL CODE:**  
**K = STAINLESS STEEL**  
**G = CARBON STEEL**  
**B = COPPER NICKEL 70/30**

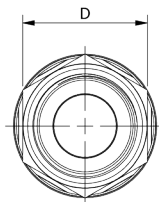
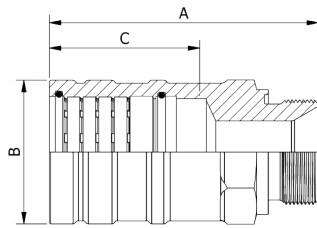
**ORDER EXAMPLE:**  
**DM80054G0604**

## JIC 37° Female Swivel, Metric - DM80054

| Size<br>OD<br>(mm) | JIC Size | Part Number  | Dimensions - mm (Inch) |              |                      |              | *Weight<br>K & G<br>kg (lbs) |
|--------------------|----------|--------------|------------------------|--------------|----------------------|--------------|------------------------------|
|                    |          |              | A                      | B            | C<br>Insertion Depth | D            |                              |
| 6                  | 04       | DM80054*0604 | 42.42 (1.67)           | 9.80 (0.39)  | 16.51 (0.65)         | 14.22 (0.56) | 0.02 (0.05)                  |
| 8                  | 04       | DM80054*0804 | 42.42 (1.67)           | 12.19 (0.48) | 19.30 (0.76)         | 14.22 (0.56) | 0.03 (0.06)                  |
| 10                 | 06       | DM80054*1006 | 48.01 (1.91)           | 15.09 (0.59) | 24.13 (0.95)         | 17.53 (0.69) | 0.04 (0.09)                  |
| 12                 | 08       | DM80054*1208 | 57.65 (2.27)           | 18.59 (0.73) | 26.92 (1.06)         | 22.35 (0.88) | 0.07 (0.16)                  |
| 16                 | 10       | DM80054*1610 | 62.74 (2.47)           | 23.70 (0.93) | 32.00 (1.26)         | 25.40 (1.00) | 0.11 (0.25)                  |
| 20                 | 12       | DM80054*2012 | 78.74 (3.10)           | 28.70 (1.13) | 37.08 (1.46)         | 31.75 (1.25) | 0.22 (0.48)                  |
| 25                 | 16       | DM80054*2516 | 81.28 (3.20)           | 35.31 (1.39) | 41.91 (1.65)         | 38.10 (1.50) | 0.29 (0.65)                  |
| 30                 | 20       | DM80054*3020 | 92.20 (3.63)           | 41.91 (1.65) | 46.99 (1.85)         | 50.80 (2.00) | 0.56 (1.24)                  |
| 38                 | 24       | DM80054*3824 | 114.30 (4.50)          | 52.07 (2.05) | 54.61 (2.15)         | 57.15 (2.25) | 0.95 (2.10)                  |
| 42                 | 24       | DM80054*4224 | 123.95 (4.88)          | 57.40 (2.26) | 60.45 (2.38)         | 57.15 (2.25) | 1.13 (2.49)                  |
| 50                 | 24       | DM80054*5024 | 128.02 (5.04)          | 65.53 (2.58) | 63.50 (2.50)         | 83.82 (3.30) | 1.59 (3.51)                  |

3D step models available upon request

# DM 80 Series - Metric Tube



**\*MATERIAL CODE:**  
**K = STAINLESS STEEL**  
**G = CARBON STEEL**  
**B = COPPER NICKEL 70/30**

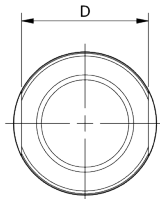
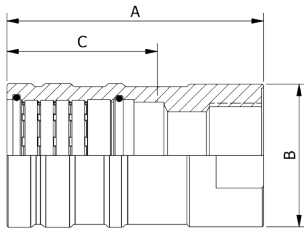
**ORDER EXAMPLE:**  
**DM80153G0604**

## BSPP Male, Metric - DM80153

| Size<br>OD<br>(mm) | BSPP Size | Part Number  | Dimensions - mm (Inch) |              |                      |              | *Weight<br>K & G<br>kg (lbs) |
|--------------------|-----------|--------------|------------------------|--------------|----------------------|--------------|------------------------------|
|                    |           |              | A                      | B            | C<br>Insertion Depth | D            |                              |
| 6                  | 1/4"      | DM80153*0604 | 43.43 (1.71)           | 9.80 (0.39)  | 16.51 (0.65)         | 19.05 (0.75) | 0.03 (0.07)                  |
| 8                  | 1/4"      | DM80153*0804 | 45.97 (1.81)           | 12.19 (0.48) | 19.30 (0.76)         | 19.05 (0.75) | 0.04 (0.08)                  |
| 10                 | 1/4"      | DM80153*1004 | 51.05 (2.01)           | 15.09 (0.59) | 24.13 (0.95)         | 19.05 (0.75) | 0.05 (0.10)                  |
| 12                 | 1/4"      | DM80153*1204 | 53.84 (2.12)           | 18.59 (0.73) | 26.92 (1.06)         | 19.05 (0.75) | 0.05 (0.12)                  |
| 15                 | 3/8"      | DM80153*1506 | 58.93 (2.32)           | 23.70 (0.93) | 32.00 (1.26)         | 22.10 (0.87) | 0.10 (0.22)                  |
| 16                 | 3/8"      | DM80153*1606 | 58.93 (2.32)           | 23.70 (0.93) | 32.00 (1.26)         | 22.10 (0.87) | 0.09 (0.20)                  |
| 18                 | 3/8"      | DM80153*1806 | 61.98 (2.44)           | 25.15 (0.99) | 35.05 (1.38)         | 22.10 (0.87) | 0.12 (0.27)                  |
| 20                 | 1/2"      | DM80153*2008 | 66.29 (2.61)           | 28.70 (1.13) | 37.08 (1.46)         | 29.97 (1.18) | 0.15 (0.34)                  |
| 22                 | 1/2"      | DM80153*2208 | 72.14 (2.84)           | 30.48 (1.20) | 38.10 (1.50)         | 32.00 (1.26) | 0.18 (0.40)                  |
| 25                 | 3/4"      | DM80153*2512 | 83.06 (3.27)           | 35.31 (1.39) | 41.91 (1.65)         | 36.07 (1.42) | 0.28 (0.62)                  |
| 28                 | 3/4"      | DM80153*2812 | 85.60 (3.37)           | 37.59 (1.48) | 44.45 (1.75)         | 36.07 (1.42) | 0.33 (0.72)                  |
| 30                 | 1"        | DM80153*3016 | 85.09 (3.35)           | 41.91 (1.65) | 46.99 (1.85)         | 45.97 (1.80) | 0.43 (0.94)                  |
| 35                 | 1"        | DM80153*3516 | 88.90 (3.50)           | 46.23 (1.82) | 50.80 (2.00)         | 50.04 (1.97) | 0.50 (1.11)                  |
| 38                 | 1-1/4"    | DM80153*3820 | 109.73 (4.32)          | 52.07 (2.05) | 54.61 (2.15)         | 56.13 (2.21) | 0.95 (2.10)                  |
| 42                 | 1-1/4"    | DM20153*20   | 107.95 (4.25)          | 57.40 (2.26) | 60.45 (2.38)         | 50.04 (1.97) | 0.88 (1.95)                  |
| 50                 | 1-1/2"    | DM80153*5024 | 115.57 (4.55)          | 65.53 (2.58) | 63.50 (2.50)         | 55.12 (2.17) | 1.15 (2.53)                  |
| **60K              | 2"        | DM20153K32   | 136.65 (5.38)          | 77.22 (3.04) | 88.90 (3.50)         | 74.93 (2.95) | 1.58 (3.49)                  |
| 60G                | 2"        | DM80153G6032 | 136.65 (5.38)          | 77.22 (3.04) | 88.90 (3.50)         | 74.93 (2.95) | 1.58 (3.49)                  |

\*\*2" DM 20 Series Stainless Steel fittings are also used for 60mm Stainless Steel applications.

# DM 80 Series - Metric Tube



**\*MATERIAL CODE:**  
 K = STAINLESS STEEL  
 G = CARBON STEEL  
 B = COPPER NICKEL 70/30

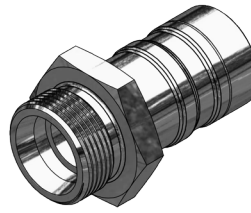
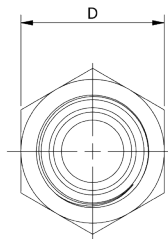
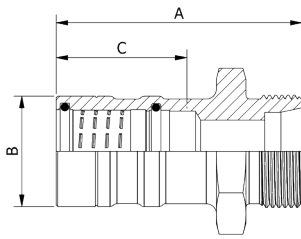
**ORDER EXAMPLE:**  
 DM80086G0604

## BSPP Female, Metric - DM80086

| Size<br>OD<br>(mm) | BSPP<br>Size | Part Number  | Dimensions - mm (Inch) |              |                      |              | *Weight<br>K & G<br>kg (lbs) |
|--------------------|--------------|--------------|------------------------|--------------|----------------------|--------------|------------------------------|
|                    |              |              | A                      | B            | C<br>Insertion Depth | D            |                              |
| 6                  | 1/4"         | DM80086*0604 | 42.16 (1.66)           | 23.88 (0.94) | 16.51 (0.65)         | 20.07 (0.79) | 0.05 (0.10)                  |
| 8                  | 1/4"         | DM80086*0804 | 44.70 (1.76)           | 23.88 (0.94) | 19.30 (0.76)         | 20.07 (0.79) | 0.05 (0.11)                  |
| 10                 | 1/4"         | DM80086*1004 | 49.78 (1.96)           | 23.88 (0.94) | 24.13 (0.95)         | 20.07 (0.79) | 0.06 (0.14)                  |
| 12                 | 1/4"         | DM80086*1204 | 51.82 (2.04)           | 23.88 (0.94) | 26.92 (1.06)         | 20.07 (0.79) | 0.07 (0.16)                  |
| 15                 | 3/8"         | DM80086*1506 | 57.40 (2.26)           | 26.92 (1.06) | 32.00 (1.26)         | 22.10 (0.87) | 0.06 (0.13)                  |
| 16                 | 3/8"         | DM80086*1606 | 57.40 (2.26)           | 26.92 (1.06) | 32.00 (1.26)         | 22.10 (0.87) | 0.06 (0.13)                  |
| 18                 | 3/8"         | DM80086*1806 | 57.40 (2.26)           | 26.92 (1.06) | 35.05 (1.38)         | 22.10 (0.87) | 0.11 (0.24)                  |
| 20                 | 1/2"         | DM80086*2008 | 75.18 (2.96)           | 34.29 (1.35) | 37.08 (1.46)         | 30.23 (1.19) | 0.26 (0.57)                  |
| 22                 | 1/2"         | DM80086*2208 | 73.15 (2.88)           | 34.29 (1.35) | 38.10 (1.50)         | 30.23 (1.19) | 0.23 (0.51)                  |
| 25                 | 3/4"         | DM80086*2512 | 89.92 (3.54)           | 38.10 (1.50) | 41.91 (1.65)         | 37.75 (1.25) | 0.38 (0.83)                  |
| 28                 | 3/4"         | DM80086*2812 | 89.92 (3.54)           | 38.10 (1.50) | 41.91 (1.65)         | 37.75 (1.25) | 0.38 (0.84)                  |
| 30                 | 1"           | DM80086*3016 | 98.55 (3.88)           | 47.75 (1.88) | 46.99 (1.85)         | 41.40 (1.63) | 0.57 (1.25)                  |
| 35                 | 1"           | DM80086*3516 | 98.55 (3.88)           | 47.75 (1.88) | 50.80 (2.00)         | 41.40 (1.63) | 0.60 (1.32)                  |
| 38                 | 1-1/4"       | DM80086*3820 | 113.28 (4.46)          | 57.15 (2.25) | 54.61 (2.15)         | 50.80 (2.00) | 1.03 (2.27)                  |
| 42                 | 1-1/4"       | DM20086*20   | 102.87 (4.05)          | 57.15 (2.25) | 60.45 (2.38)         | 50.80 (2.00) | 0.87 (1.91)                  |
| 50                 | 1-1/2"       | DM80086*5024 | 114.30 (4.50)          | 69.85 (2.75) | 63.50 (2.50)         | 63.50 (2.50) | 1.36 (3.00)                  |
| **60K              | 2"           | DM20086K32   | 146.05 (5.75)          | 88.90 (3.50) | 88.90 (3.50)         | 76.20 (3.00) | 2.33 (5.14)                  |
| 60G                | 2"           | DM80086G6032 | 146.05 (5.75)          | 88.90 (3.50) | 88.90 (3.50)         | 76.20 (3.00) | 2.33 (5.14)                  |

\*\*2" DM 20 Series Stainless Steel fittings are also used for 60mm Stainless Steel applications.

# DM 80 Series - Metric Tube



**\*MATERIAL CODE:**

**K = STAINLESS STEEL**

**G = CARBON STEEL**

**B = COPPER NICKEL 70/30**

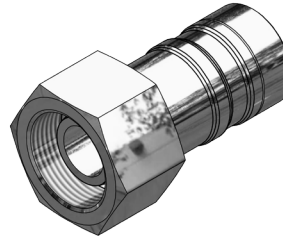
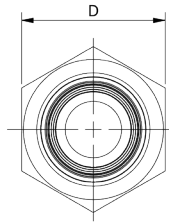
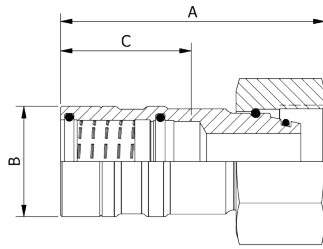
**ORDER EXAMPLE:**

**DM80066G06S**

## DIN 24° Male, Metric - DM80066

| Size<br>OD<br>(mm) | DIN 2353/ISO<br>8434-1 L & S<br>Series Thread | Part Number | Dimensions - mm (Inch) |              |                      |              | *Weight<br>K & G<br>kg (lbs) |
|--------------------|-----------------------------------------------|-------------|------------------------|--------------|----------------------|--------------|------------------------------|
|                    |                                               |             | A                      | B            | C<br>Insertion Depth | D            |                              |
| 6                  | 6L - M12 x 1.5                                | DM80066*06L | 38.86 (1.53)           | 9.80 (0.39)  | 16.51 (0.65)         | 13.97 (0.55) | 0.02 (0.05)                  |
| 6                  | 6S - M14 x 1.5                                | DM80066*06S | 38.86 (1.53)           | 9.80 (0.39)  | 16.51 (0.65)         | 17.02 (0.67) | 0.03 (0.06)                  |
| 8                  | 8L - M14 x 1.5                                | DM80066*08L | 50.55 (1.99)           | 12.19 (0.48) | 19.30 (0.76)         | 17.02 (0.67) | 0.04 (0.09)                  |
| 8                  | 8S - M16 x 1.5                                | DM80066*08S | 53.09 (2.09)           | 12.19 (0.48) | 19.30 (0.76)         | 17.02 (0.67) | 0.05 (0.10)                  |
| 10                 | 10L - M16 x 1.5                               | DM80066*10L | 54.61 (2.15)           | 15.09 (0.59) | 24.13 (0.95)         | 19.05 (0.75) | 0.05 (0.12)                  |
| 10                 | 10S - M18 x 1.5                               | DM80066*10S | 57.66 (2.27)           | 15.09 (0.59) | 24.13 (0.95)         | 22.10 (0.87) | 0.07 (0.16)                  |
| 12                 | 12L - M18 x 1.5                               | DM80066*12L | 52.07 (2.05)           | 18.59 (0.73) | 26.92 (1.06)         | 24.13 (0.95) | 0.07 (0.17)                  |
| 12                 | 12S - M20 x 1.5                               | DM80066*12S | 56.64 (2.23)           | 18.59 (0.73) | 26.92 (1.06)         | 22.10 (0.87) | 0.08 (0.18)                  |
| 15                 | 15L - M22 x 1.5                               | DM80066*15L | 57.40 (2.26)           | 23.70 (0.93) | 32.00 (1.26)         | 26.92 (1.06) | 0.10 (0.27)                  |
| 16                 | 16S - M24 x 1.5                               | DM80066*16S | 62.99 (2.48)           | 23.70 (0.93) | 32.00 (1.26)         | 26.92 (1.06) | 0.14 (0.31)                  |
| 18                 | 18L - M26 x 1.5                               | DM80066*18L | 60.45 (2.38)           | 25.15 (0.99) | 35.05 (1.38)         | 32.00 (1.26) | 0.14 (0.31)                  |
| 20                 | 20S - M30 x 2.0                               | DM80066*20S | 67.82 (2.67)           | 28.70 (1.13) | 37.08 (1.46)         | 36.07 (1.42) | 0.22 (0.48)                  |
| 22                 | 22L - M30 x 2.0                               | DM80066*22L | 68.58 (2.70)           | 30.48 (1.20) | 38.10 (1.50)         | 36.07 (1.42) | 0.22 (0.48)                  |
| 25                 | 25S - M36 x 2.0                               | DM80066*25S | 78.74 (3.10)           | 35.31 (1.39) | 41.91 (1.65)         | 45.97 (1.81) | 0.34 (0.76)                  |
| 28                 | 28L - M36 x 2.0                               | DM80066*28L | 82.04 (3.23)           | 37.59 (1.48) | 44.45 (1.75)         | 40.89 (1.61) | 0.30 (0.67)                  |
| 30                 | 30S - M42 x 2.0                               | DM80066*30S | 85.60 (3.37)           | 41.91 (1.65) | 46.99 (1.85)         | 50.04 (1.97) | 0.48 (1.05)                  |
| 35                 | 35L - M45 x 2.0                               | DM80066*35L | 85.09 (3.35)           | 46.23 (1.82) | 50.80 (2.00)         | 50.04 (1.97) | 0.49 (1.09)                  |
| 38                 | 38S - M52 x 2.0                               | DM80066*38S | 100.84 (3.97)          | 52.07 (2.05) | 54.61 (2.15)         | 59.94 (2.36) | 0.84 (1.85)                  |
| 42                 | 42L - M52 x 2.0                               | DM80066*42L | 95.50 (3.76)           | 57.40 (2.26) | 60.45 (2.38)         | 59.94 (2.36) | 0.81 (1.79)                  |

# DM 80 Series - Metric Tube



**\*MATERIAL CODE:**

**K = STAINLESS STEEL**

**G = CARBON STEEL**

**B = COPPER NICKEL 70/30**

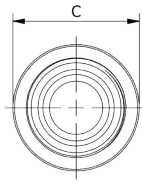
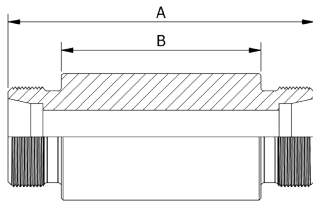
**ORDER EXAMPLE:**

**DM80068G06S**

## DIN 24° Female Swivel, Metric - DM80068

| Size<br>OD<br>(mm) | DIN 2353/ISO<br>8434-1 L & S<br>Series Thread | Part Number | Dimensions - mm (Inch) |              |                      |              | *Weight<br>K & G<br>kg (lbs) |
|--------------------|-----------------------------------------------|-------------|------------------------|--------------|----------------------|--------------|------------------------------|
|                    |                                               |             | A                      | B            | C<br>Insertion Depth | D            |                              |
| 6                  | 6L - M12 x 1.5                                | DM80068*06L | 39.00 (1.54)           | 9.80 (0.39)  | 16.51 (0.65)         | 13.97 (0.55) | 0.03 (0.06)                  |
| 6                  | 6S - M14 x 1.5                                | DM80068*06S | 42.42 (1.67)           | 9.80 (0.39)  | 16.51 (0.65)         | 17.02 (0.67) | 0.03 (0.07)                  |
| 8                  | 8L - M12 x 1.5                                | DM80068*08L | 42.93 (1.69)           | 12.19 (0.48) | 19.30 (0.76)         | 17.02 (0.67) | 0.04 (0.08)                  |
| 8                  | 8S - M16 x 1.5                                | DM80068*08S | 48.26 (1.90)           | 12.19 (0.48) | 19.30 (0.76)         | 18.80 (0.74) | 0.05 (0.10)                  |
| 10                 | 10L - M16 x 1.5                               | DM80068*10L | 51.31 (2.02)           | 15.09 (0.59) | 24.13 (0.95)         | 18.80 (0.74) | 0.05 (0.11)                  |
| 10                 | 10S - M18 x 1.5                               | DM80068*10S | 51.56 (2.03)           | 15.09 (0.59) | 24.13 (0.95)         | 21.84 (0.86) | 0.06 (0.14)                  |
| 12                 | 12L - M18 x 1.5                               | DM80068*12L | 53.85 (2.12)           | 18.59 (0.73) | 26.92 (1.06)         | 21.84 (0.86) | 0.07 (0.16)                  |
| 12                 | 12S - M20 x 1.5                               | DM80068*12S | 52.58 (2.07)           | 18.59 (0.73) | 26.92 (1.06)         | 23.62 (0.93) | 0.09 (0.19)                  |
| 15                 | 15L - M22 x 1.5                               | DM80068*15L | 61.98 (2.44)           | 23.70 (0.93) | 32.00 (1.26)         | 26.92 (1.06) | 0.14 (0.30)                  |
| 16                 | 16S - M24 x 1.5                               | DM80068*16S | 60.45 (2.38)           | 23.70 (0.93) | 32.00 (1.26)         | 29.72 (1.17) | 0.15 (0.32)                  |
| 18                 | 18L - M26 x 1.5                               | DM80068*18L | 65.53 (2.58)           | 25.15 (0.99) | 35.05 (1.38)         | 32.00 (1.26) | 0.17 (0.37)                  |
| 20                 | 20S - M30 x 2.0                               | DM80068*20S | 68.33 (2.69)           | 28.70 (1.13) | 37.08 (1.46)         | 35.81 (1.41) | 0.21 (0.47)                  |
| 22                 | 22L - M30 x 2.0                               | DM80068*22L | 73.15 (2.88)           | 30.48 (1.20) | 38.10 (1.50)         | 35.81 (1.41) | 0.25 (0.56)                  |
| 25                 | 25S - M36 x 2.0                               | DM80068*25S | 84.84 (3.34)           | 35.31 (1.39) | 41.91 (1.65)         | 45.72 (1.80) | 0.45 (1.00)                  |
| 28                 | 28L - M36 x 2.0                               | DM80068*28L | 76.96 (3.03)           | 37.59 (1.48) | 44.45 (1.75)         | 40.89 (1.61) | 0.32 (0.70)                  |
| 30                 | 30S - M42 x 2.0                               | DM80068*30S | 89.92 (3.54)           | 41.91 (1.65) | 46.99 (1.85)         | 49.78 (1.96) | 0.53 (1.17)                  |
| 35                 | 35L - M45 x 2.0                               | DM80068*35L | 92.96 (3.66)           | 46.23 (1.82) | 50.80 (2.00)         | 50.04 (1.97) | 0.55 (1.22)                  |
| 38                 | 38S - M52 x 2.0                               | DM80068*38S | 105.41 (4.15)          | 52.07 (2.05) | 54.61 (2.15)         | 59.69 (2.35) | 0.98 (2.16)                  |
| 42                 | 42L - M52 x 2.0                               | DM80068*42L | 107.44 (4.23)          | 57.40 (2.26) | 60.45 (2.38)         | 60.20 (2.37) | 1.03 (2.27)                  |

# DM 80 Series - Metric Tube



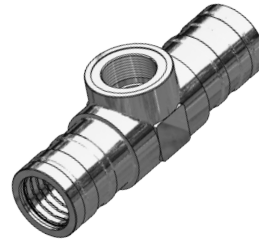
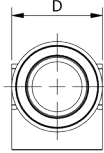
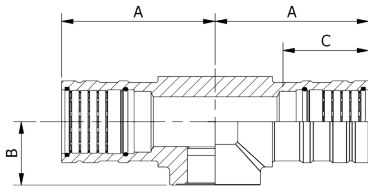
**\*MATERIAL CODE:**  
**K = STAINLESS STEEL**  
**G = CARBON STEEL**  
**B = COPPER NICKEL 70/30**

**ORDER EXAMPLE:**  
**DM80089G06S**

## Weldable Bulkhead, Metric - DM80089

| Size<br>OD<br>(mm) | DIN 2353/ISO<br>8434-1 L & S<br>Series Thread | Part Number | Dimensions - mm (Inch) |              |              | *Weight<br>K & G<br>kg (lbs) |
|--------------------|-----------------------------------------------|-------------|------------------------|--------------|--------------|------------------------------|
|                    |                                               |             | A                      | B            | C            |                              |
| 6                  | 6L - M12 x 1.5                                | DM80089*06L | 73.91 (2.91)           | 49.78 (1.96) | 20.00 (0.79) | 0.14 (0.30)                  |
| 6                  | 6S - M14 x 1.5                                | DM80089*06S | 73.91 (2.91)           | 49.78 (1.96) | 20.00 (0.79) | 0.14 (0.30)                  |
| 8                  | 8L - M14 x 1.5                                | DM80089*08L | 73.91 (2.91)           | 48.01 (1.89) | 22.00 (0.87) | 0.17 (0.37)                  |
| 8                  | 8S - M16 x 1.5                                | DM80089*08S | 73.91 (2.91)           | 53.09 (2.09) | 22.00 (0.87) | 0.16 (0.36)                  |
| 10                 | 10L - M16 x 1.5                               | DM80089*10L | 73.91 (2.91)           | 50.04 (1.97) | 25.00 (0.98) | 0.21 (0.46)                  |
| 10                 | 10S - M18 x 1.5                               | DM80089*10S | 73.91 (2.91)           | 52.07 (2.05) | 25.00 (0.98) | 0.20 (0.45)                  |
| 12                 | 12L - M18 x 1.5                               | DM80089*12L | 73.91 (2.91)           | 50.04 (1.97) | 25.00 (0.98) | 0.18 (0.40)                  |
| 12                 | 12S - M20 x 1.5                               | DM80089*12S | 73.91 (2.91)           | 51.82 (2.04) | 28.00 (1.10) | 0.25 (0.56)                  |
| 15                 | 15L - M22 x 1.5                               | DM80089*15L | 84.07 (3.31)           | 59.94 (2.36) | 28.00 (1.10) | 0.27 (0.59)                  |
| 16                 | 16S - M24 x 1.5                               | DM80089*16S | 88.14 (3.47)           | 59.94 (2.36) | 35.00 (1.38) | 0.45 (0.99)                  |
| 18                 | 18L - M26 x 1.5                               | DM80089*18L | 84.07 (3.31)           | 59.94 (2.36) | 32.00 (1.26) | 0.34 (0.75)                  |
| 20                 | 20S - M30 x 2.0                               | DM80089*20S | 91.95 (3.62)           | 59.94 (2.36) | 38.00 (1.50) | 0.52 (1.15)                  |
| 22                 | 22L - M30 x 2.0                               | DM80089*22L | 87.88 (3.46)           | 59.94 (2.36) | 36.00 (1.42) | 0.40 (0.89)                  |
| 25                 | 25S - M36 x 2.0                               | DM80089*25S | 96.01 (3.78)           | 59.94 (2.36) | 45.00 (1.77) | 0.73 (1.61)                  |
| 28                 | 28L - M36 x 2.0                               | DM80089*28L | 87.88 (3.46)           | 59.94 (2.36) | 40.00 (1.58) | 0.45 (1.00)                  |
| 30                 | 30S - M42 x 2.0                               | DM80089*30S | 99.82 (3.93)           | 59.94 (2.36) | 50.00 (1.97) | 0.88 (1.95)                  |
| 35                 | 35L - M45 x 2.0                               | DM80089*35L | 91.95 (3.62)           | 59.94 (2.36) | 50.00 (1.97) | 0.73 (1.62)                  |
| 38                 | 38S - M52 x 2.0                               | DM80089*38S | 103.89 (4.09)          | 59.94 (2.36) | 60.00 (2.36) | 1.26 (2.77)                  |
| 42                 | 42L - M52 x 2.0                               | DM80089*42L | 91.95 (3.62)           | 59.94 (2.36) | 60.00 (2.36) | 1.02 (2.24)                  |

# DM 80 Series - Metric Tube



**\*MATERIAL CODE:**  
**K = STAINLESS STEEL**  
**G = CARBON STEEL**  
**B = COPPER NICKEL 70/30**

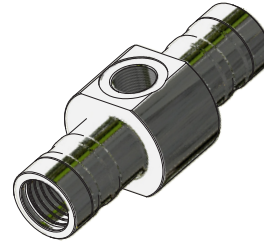
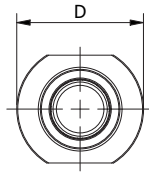
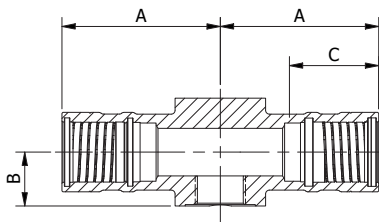
**ORDER EXAMPLE:**  
**DM80172G1004**

## BSPF Female Branch Tee, Metric - DM80172

| Size<br>OD (mm) | BSPP Size | Part Number  | Dimensions - mm (Inch) |              |                      |              | *Weight<br>K & G<br>kg (lbs) |
|-----------------|-----------|--------------|------------------------|--------------|----------------------|--------------|------------------------------|
|                 |           |              | A                      | B            | C<br>Insertion Depth | D            |                              |
| 10              | 1/4"      | DM80172*1004 | 46.99 (1.85)           | 20.83 (0.82) | 24.13 (0.95)         | 21.84 (0.86) | 0.15 (0.33)                  |
| 12              | 1/4"      | DM80172*1204 | 47.75 (1.88)           | 20.83 (0.82) | 26.92 (1.06)         | 26.92 (1.06) | 0.14 (0.30)                  |
| 15              | 3/8"      | DM80172*1506 | 52.07 (2.05)           | 22.35 (0.88) | 32.00 (1.26)         | 26.16 (1.03) | 0.27 (0.60)                  |
| 16              | 3/8"      | DM80172*1606 | 52.07 (2.05)           | 22.35 (0.88) | 32.00 (1.26)         | 26.16 (1.03) | 0.25 (0.55)                  |
| 18              | 3/8"      | DM80172*1806 | 52.07 (2.05)           | 22.35 (0.88) | 35.05 (1.38)         | 26.16 (1.03) | 0.24 (0.52)                  |
| 20              | 1/2"      | DM80172*2008 | 73.15 (2.88)           | 25.40 (1.00) | 37.08 (1.46)         | 33.02 (1.30) | 0.38 (0.84)                  |
| 22              | 1/2"      | DM80172*2208 | 73.15 (2.88)           | 25.40 (1.00) | 38.10 (1.50)         | 33.02 (1.30) | 0.57 (1.25)                  |
| 25              | 3/4"      | DM80172*2512 | 76.92 (3.03)           | 28.70 (1.13) | 41.91 (1.65)         | 40.13 (1.58) | 0.75 (1.60)                  |
| 28              | 3/4"      | DM80172*2812 | 76.92 (3.03)           | 28.70 (1.13) | 44.45 (1.75)         | 40.13 (1.58) | 0.71 (1.57)                  |
| 30              | 1"        | DM80172*3016 | 85.60 (3.37)           | 38.10 (1.50) | 46.99 (1.85)         | 50.04 (1.97) | 1.22 (2.70)                  |
| 35              | 1"        | DM80172*3516 | 85.60 (3.37)           | 38.10 (1.50) | 50.80 (2.00)         | 50.04 (1.97) | 1.27 (2.80)                  |
| 38              | 1-1/4"    | DM80172*3820 | 107.95 (4.25)          | 41.40 (1.63) | 54.61 (2.15)         | 63.50 (2.50) | 2.51 (5.53)                  |
| 42              | 1-1/4"    | DM20172*20   | 107.95 (4.25)          | 44.45 (1.75) | 60.45 (2.38)         | 63.50 (2.50) | 2.67 (5.89)                  |
| 50              | 1-1/2"    | DM80172*5024 | 115.32 (4.54)          | 44.45 (1.75) | 63.50 (2.50)         | 71.37 (2.81) | 3.13 (6.90)                  |
| **60K           | 2"        | DM20172K32   | 138.43 (5.45)          | 60.45 (2.38) | 88.90 (3.50)         | 82.55 (3.25) | 4.75 (10.48)                 |
| 60G             | 2"        | DM80172G6032 | 138.43 (5.45)          | 60.45 (2.38) | 88.90 (3.50)         | 82.55 (3.25) | 4.75 (10.48)                 |

\*\*2" DM 20 Series Stainless Steel fittings are also used for 60mm Stainless Steel applications.

# DM 80 Series - Metric Tube



\*MATERIAL CODE:  
K = STAINLESS STEEL

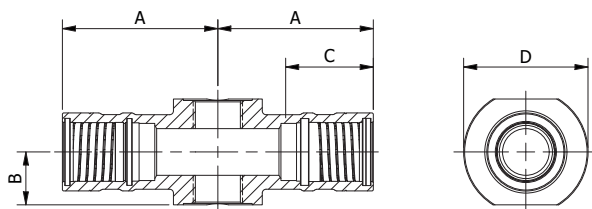
ORDER EXAMPLE:  
DM80211K2004

## BSPP Female Branch Tee, Metric - DM80211

| Size OD (mm) | BSPP Size | Part Number  | Dimensions - mm (Inch) |              |                   |              | Weight K kg (lbs) |
|--------------|-----------|--------------|------------------------|--------------|-------------------|--------------|-------------------|
|              |           |              | A                      | B            | C Insertion Depth | D            |                   |
| 20           | 1/4"      | DM80211K2004 | 63.50 (2.50)           | 20.02 (0.79) | 37.08 (1.46)      | 44.45 (1.75) | 0.46 (1.02)       |
| 20           | 3/8"      | DM80211K2006 | 50.80 (2.20)           | 20.02 (0.79) | 37.08 (1.46)      | 47.63 (1.88) | 0.52 (1.14)       |
| 22           | 1/4"      | DM80211K2204 | 63.50 (2.50)           | 20.02 (0.79) | 38.10 (1.50)      | 44.45 (1.75) | 0.46 (1.02)       |
| 22           | 3/8"      | DM80211K2206 | 65.08 (2.56)           | 20.02 (0.79) | 38.10 (1.50)      | 47.63 (1.88) | 0.53 (1.16)       |
| 25           | 1/4"      | DM80211K2504 | 63.50 (2.50)           | 20.02 (0.79) | 41.91 (1.65)      | 44.45 (1.75) | 0.55 (1.22)       |
| 25           | 3/8"      | DM80211K2506 | 65.08 (2.56)           | 20.02 (0.79) | 41.91 (1.65)      | 47.63 (1.88) | 0.62 (1.36)       |
| 25           | 1/2"      | DM80211K2508 | 66.68 (2.63)           | 23.01 (0.91) | 41.91 (1.65)      | 53.98 (2.13) | 0.76 (1.67)       |
| 28           | 1/4"      | DM80211K2804 | 66.68 (2.63)           | 20.02 (0.79) | 44.45 (1.75)      | 44.45 (1.75) | 0.58 (1.27)       |
| 28           | 3/8"      | DM80211K2806 | 68.25 (2.69)           | 21.08 (0.83) | 44.45 (1.75)      | 47.63 (1.88) | 0.63 (1.38)       |
| 28           | 1/2"      | DM80211K2808 | 69.85 (2.75)           | 23.01 (0.91) | 44.45 (1.75)      | 53.98 (2.13) | 0.75 (1.66)       |
| 30           | 1/4"      | DM80211K3004 | 71.44 (2.81)           | 21.44 (0.84) | 46.99 (1.85)      | 47.63 (1.88) | 0.78 (1.72)       |
| 30           | 3/8"      | DM80211K3006 | 73.02 (2.88)           | 21.08 (0.83) | 46.99 (1.85)      | 47.63 (1.88) | 0.80 (1.77)       |
| 30           | 1/2"      | DM80211K3008 | 74.63 (2.94)           | 23.01 (0.91) | 46.99 (1.85)      | 53.98 (2.13) | 0.93 (2.05)       |
| 35           | 1/4"      | DM80211K3504 | 72.24 (2.84)           | 25.40 (1.00) | 50.80 (2.00)      | 53.98 (2.13) | 0.85 (1.87)       |
| 35           | 3/8"      | DM80211K3506 | 73.81 (2.91)           | 24.61 (0.97) | 50.80 (2.00)      | 53.98 (2.13) | 0.88 (1.94)       |
| 35           | 1/2"      | DM80211K3508 | 75.41 (2.97)           | 24.61 (0.97) | 50.80 (2.00)      | 57.15 (2.25) | 0.97 (2.13)       |
| 38           | 1/4"      | DM80211K3804 | 80.98 (3.19)           | 26.19 (1.03) | 54.61 (2.15)      | 57.15 (2.25) | 1.32 (2.92)       |
| 38           | 3/8"      | DM80211K3806 | 82.55 (3.25)           | 26.19 (1.03) | 54.61 (2.15)      | 57.15 (2.25) | 1.36 (3.00)       |
| 38           | 1/2"      | DM80211K3808 | 84.15 (3.31)           | 27.79 (1.09) | 54.61 (2.15)      | 63.50 (2.50) | 1.52 (3.35)       |
| 42           | 3/8"      | DM20211K2006 | 82.55 (3.25)           | 29.36 (1.16) | 60.45 (2.38)      | 63.50 (2.50) | 1.53 (3.38)       |
| 42           | 1/2"      | DM20211K2008 | 84.15 (3.31)           | 28.58 (1.13) | 60.45 (2.38)      | 63.50 (2.50) | 1.56 (3.43)       |
| 60           | 3/8"      | DM20211K3206 | 107.95 (4.25)          | 38.10 (1.50) | 88.90 (3.50)      | 81.28 (3.20) | 2.88 (6.35)       |
| 60           | 1/2"      | DM20211K3208 | 139.47 (4.31)          | 38.10 (1.50) | 88.90 (3.50)      | 81.28 (3.20) | 2.95 (6.50)       |

**Note:** Only available in Stainless Steel.

# DM 80 Series - Metric Tube



\*MATERIAL CODE:  
K = STAINLESS STEEL

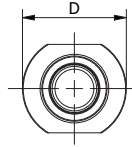
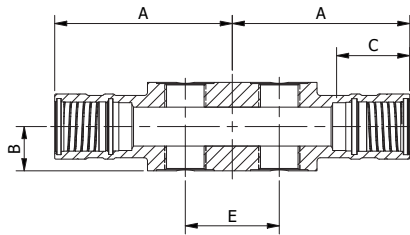
ORDER EXAMPLE:  
DM80221K2004

## BSPP (2) Port Female Branch Cross, Metric - DM80221

| Size OD (mm) | BSPP Size | Part Number  | Dimensions - mm (Inch) |              |                   |              | Weight K kg (lbs) |
|--------------|-----------|--------------|------------------------|--------------|-------------------|--------------|-------------------|
|              |           |              | A                      | B            | C Insertion Depth | D            |                   |
| 20           | 1/4"      | DM80221K2004 | 63.50 (2.50)           | 20.02 (0.79) | 37.08 (1.46)      | 44.45 (1.75) | 0.45 (1.00)       |
| 20           | 3/8"      | DM80221K2006 | 50.80 (2.20)           | 20.02 (0.79) | 37.08 (1.46)      | 47.63 (1.88) | 0.51 (1.12)       |
| 22           | 1/4"      | DM80221K2204 | 63.50 (2.50)           | 20.02 (0.79) | 38.10 (1.50)      | 44.45 (1.75) | 0.45 (1.00)       |
| 22           | 3/8"      | DM80221K2206 | 65.08 (2.56)           | 20.02 (0.79) | 38.10 (1.50)      | 47.63 (1.88) | 0.51 (1.12)       |
| 25           | 1/4"      | DM80221K2504 | 63.50 (2.50)           | 20.02 (0.79) | 41.91 (1.65)      | 44.45 (1.75) | 0.54 (1.20)       |
| 25           | 3/8"      | DM80221K2506 | 65.08 (2.56)           | 20.02 (0.79) | 41.91 (1.65)      | 47.63 (1.88) | 0.60 (1.32)       |
| 25           | 1/2"      | DM80221K2508 | 66.68 (2.63)           | 23.01 (0.91) | 41.91 (1.65)      | 53.98 (2.13) | 0.72 (1.59)       |
| 28           | 1/4"      | DM80221K2804 | 66.68 (2.63)           | 20.02 (0.79) | 44.45 (1.75)      | 44.45 (1.75) | 0.59 (1.29)       |
| 28           | 3/8"      | DM80221K2806 | 68.25 (2.69)           | 21.08 (0.83) | 44.45 (1.75)      | 47.63 (1.88) | 0.61 (1.34)       |
| 28           | 1/2"      | DM80221K2808 | 69.85 (2.75)           | 23.01 (0.91) | 44.45 (1.75)      | 53.98 (2.13) | 0.72 (1.59)       |
| 30           | 1/4"      | DM80221K3004 | 71.44 (2.81)           | 21.44 (0.84) | 46.99 (1.85)      | 47.63 (1.88) | 0.77 (1.70)       |
| 30           | 3/8"      | DM80221K3006 | 73.02 (2.88)           | 21.08 (0.83) | 46.99 (1.85)      | 47.63 (1.88) | 0.78 (1.73)       |
| 30           | 1/2"      | DM80221K3008 | 74.63 (2.94)           | 23.01 (0.91) | 46.99 (1.85)      | 53.98 (2.13) | 0.90 (1.99)       |
| 35           | 1/4"      | DM80221K3504 | 72.24 (2.84)           | 25.40 (1.00) | 50.80 (2.00)      | 53.98 (2.13) | 0.86 (1.89)       |
| 35           | 3/8"      | DM80221K3506 | 73.81 (2.91)           | 24.61 (0.97) | 50.80 (2.00)      | 53.98 (2.13) | 0.87 (1.92)       |
| 35           | 1/2"      | DM80221K3508 | 75.41 (2.97)           | 24.61 (0.97) | 50.80 (2.00)      | 57.15 (2.25) | 0.94 (2.07)       |
| 38           | 1/4"      | DM80221K3804 | 80.98 (3.19)           | 26.19 (1.03) | 54.61 (2.15)      | 57.15 (2.25) | 1.31 (2.89)       |
| 38           | 3/8"      | DM80221K3806 | 82.55 (3.25)           | 26.19 (1.03) | 54.61 (2.15)      | 57.15 (2.25) | 1.34 (2.96)       |
| 38           | 1/2"      | DM80221K3808 | 84.15 (3.31)           | 27.79 (1.09) | 54.61 (2.15)      | 63.50 (2.50) | 1.49 (3.28)       |
| 42           | 3/8"      | DM20221K2006 | 82.55 (3.25)           | 29.36 (1.16) | 60.45 (2.38)      | 63.50 (2.50) | 1.51 (3.33)       |
| 42           | 1/2"      | DM20221K2008 | 84.15 (3.31)           | 28.58 (1.13) | 60.45 (2.38)      | 63.50 (2.50) | 1.54 (3.39)       |
| 60           | 3/8"      | DM20221K3206 | 107.95 (4.25)          | 38.10 (1.50) | 88.90 (3.50)      | 81.28 (3.20) | 2.86 (6.30)       |
| 60           | 1/2"      | DM20221K3208 | 139.47 (4.31)          | 38.10 (1.50) | 88.90 (3.50)      | 81.28 (3.20) | 2.92 (6.43)       |

**Note:** Only available in Stainless Steel.

# DM 80 Series - Metric Tube



\*MATERIAL CODE:  
K = STAINLESS STEEL

ORDER EXAMPLE:  
DM80241K2004

## BSPP (4) Port Female Branch Cross, Metric - DM80241

| Size OD<br>(mm) | BSPP Size | Part Number  | Dimensions - mm (Inch) |              |                      |              |              | Weight<br>K<br>kg (lbs) |
|-----------------|-----------|--------------|------------------------|--------------|----------------------|--------------|--------------|-------------------------|
|                 |           |              | A                      | B            | C<br>Insertion Depth | C            | E            |                         |
| 20              | 1/4"      | DM80241K2004 | 88.90 (3.50)           | 20.02 (0.79) | 37.08 (1.46)         | 44.45 (1.75) | 50.80 (2.00) | 0.92 (2.02)             |
| 20              | 3/8"      | DM80241K2006 | 92.08 (3.63)           | 20.02 (0.79) | 37.08 (1.46)         | 47.63 (1.88) | 53.97 (2.13) | 1.13 (2.50)             |
| 22              | 1/4"      | DM80241K2204 | 88.90 (3.50)           | 20.02 (0.79) | 38.10 (1.50)         | 44.45 (1.75) | 50.80 (2.00) | 1.01 (2.24)             |
| 22              | 3/8"      | DM80241K2206 | 92.08 (3.63)           | 20.02 (0.79) | 38.10 (1.50)         | 47.63 (1.88) | 53.97 (2.13) | 1.06 (2.33)             |
| 25              | 1/4"      | DM80241K2504 | 88.90 (3.50)           | 20.02 (0.79) | 41.91 (1.65)         | 44.45 (1.75) | 50.80 (2.00) | 1.01 (2.24)             |
| 25              | 3/8"      | DM80241K2506 | 92.08 (3.63)           | 20.02 (0.79) | 41.91 (1.65)         | 47.63 (1.88) | 53.97 (2.13) | 1.15 (2.54)             |
| 25              | 1/2"      | DM80241K2508 | 95.25 (3.75)           | 23.02 (0.91) | 41.91 (1.65)         | 53.98 (2.13) | 57.15 (2.25) | 1.50 (3.30)             |
| 28              | 1/4"      | DM80241K2804 | 92.08 (3.63)           | 20.02 (0.79) | 44.45 (1.75)         | 44.45 (1.75) | 50.80 (2.00) | 1.04 (2.30)             |
| 28              | 3/8"      | DM80241K2806 | 95.25 (3.75)           | 21.08 (0.83) | 44.45 (1.75)         | 47.63 (1.88) | 53.97 (2.13) | 1.14 (2.51)             |
| 28              | 1/2"      | DM80241K2808 | 98.43 (3.88)           | 23.01 (0.91) | 44.45 (1.75)         | 53.98 (2.13) | 57.15 (2.25) | 1.46 (3.22)             |
| 30              | 1/4"      | DM80241K3004 | 96.82 (3.81)           | 21.43 (0.84) | 46.99 (1.85)         | 47.63 (1.88) | 50.80 (2.00) | 1.25 (2.75)             |
| 30              | 3/8"      | DM80241K3006 | 100.02 (3.94)          | 21.08 (0.83) | 46.99 (1.85)         | 47.63 (1.88) | 53.97 (2.13) | 1.28 (2.82)             |
| 30              | 1/2"      | DM80241K3008 | 103.20 (4.06)          | 23.01 (0.91) | 46.99 (1.85)         | 53.98 (2.13) | 57.15 (2.25) | 1.60 (3.52)             |
| 35              | 1/4"      | DM80241K3504 | 97.64 (3.84)           | 25.40 (1.00) | 50.80 (2.00)         | 53.98 (2.13) | 50.80 (2.00) | 1.48 (3.26)             |
| 35              | 3/8"      | DM80241K3506 | 100.81 (3.97)          | 24.61 (0.97) | 50.80 (2.00)         | 53.98 (2.13) | 53.97 (2.13) | 1.51 (3.34)             |
| 35              | 1/2"      | DM80241K3508 | 103.99 (4.09)          | 24.61 (0.97) | 50.80 (2.00)         | 57.15 (2.25) | 57.15 (2.25) | 1.69 (3.73)             |
| 38              | 1/4"      | DM80241K3804 | 106.38 (4.19)          | 26.19 (1.03) | 54.61 (2.15)         | 57.15 (2.25) | 50.80 (2.00) | 1.98 (4.37)             |
| 38              | 3/8"      | DM80241K3806 | 109.55 (4.31)          | 26.19 (1.03) | 54.61 (2.15)         | 57.15 (2.25) | 53.97 (2.13) | 2.06 (4.55)             |
| 38              | 1/2"      | DM80241K3808 | 112.73 (4.44)          | 27.79 (1.09) | 54.61 (2.15)         | 63.50 (2.50) | 57.15 (2.25) | 2.44 (5.38)             |
| 42              | 3/8"      | DM20241K2006 | 109.55 (4.31)          | 29.36 (1.16) | 60.45 (2.38)         | 63.50 (2.50) | 53.97 (2.13) | 2.39 (5.28)             |
| 42              | 1/2"      | DM20241K2008 | 112.73 (4.44)          | 28.58 (1.13) | 60.45 (2.38)         | 63.50 (2.50) | 57.15 (2.25) | 2.44 (5.37)             |
| 60              | 3/8"      | DM20241K3206 | 134.95 (5.31)          | 38.10 (1.50) | 88.90 (3.50)         | 81.28 (3.20) | 53.97 (2.13) | 4.21 (9.29)             |
| 60              | 1/2"      | DM20241K3208 | 138.13 (5.44)          | 38.10 (1.50) | 88.90 (3.50)         | 81.28 (3.20) | 57.15 (2.25) | 4.33 (9.55)             |

**Note:** Only available in Stainless Steel.

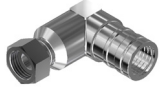
## Notes

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# Specialty Fitting Configuration Guide

## DM 80 Series - Metric Tube

6mm to 60mm

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |    |    |    |    |    |
| <b>JIC 37° 90° Elbow Male</b><br>DM80355                                            | <b>JIC 37° Branch Tee Male</b><br>DM80177                                           | <b>JIC 37° Run Tee Male</b><br>DM80178                                              | <b>JIC 37° 90° Elbow Female Swivel</b><br>DM80354                                   | <b>JIC 37° Branch Tee Female Swivel</b><br>DM80170                                    | <b>NPT 90° Elbow Male</b><br>DM80057                                                  |
|    |    |    |    |    |    |
| <b>NPT Branch Tee Male</b><br>DM80176                                               | <b>NPT Run Tee Male</b><br>DM80181                                                  | <b>NPT 90° Elbow Female</b><br>DM80061                                              | <b>ORFS 90° Elbow Male</b><br>DM80011                                               | <b>ORFS Branch Tee Male</b><br>DM80013                                                | <b>ORFS Run Tee Male</b><br>DM80014                                                   |
|  |  |  |  |  |  |
| <b>ORFS 90° Elbow Female Swivel</b><br>DM80021                                      | <b>ORFS Branch Tee Female Swivel</b><br>DM80023                                     | <b>SAE 90° Elbow Male</b><br>DM80105                                                | <b>SAE Branch Tee Male</b><br>DM80174                                               | <b>SAE Run Tee Male</b><br>DM80179                                                    | <b>SAE 90° Elbow Female</b><br>DM80387                                                |
|  |  |  |  |  |  |
| <b>BSPP 90° Elbow Male</b><br>DM80168                                               | <b>BSPP Branch Tee Male</b><br>DM80175                                              | <b>BSPP Run Tee Male</b><br>DM80180                                                 | <b>BSPP 90° Elbow Female</b><br>DM80169                                             | <b>DIN 24° 90° Elbow Male</b><br>DM80073                                              | <b>DIN 24° Branch Tee Male</b><br>DM80182                                             |
|  |  |  |  |  |  |
| <b>DIN 24° Run Tee Male</b><br>DM80183                                              | <b>DIN 24° 90° Elbow Female Swivel</b><br>DM80069                                   | <b>DIN 24° Branch Tee Female Swivel</b><br>DM80184                                  | <b>Compact Elbow x Code 61 Flange</b><br>DM80231                                    | <b>Compact Elbow x Code 62 Flange</b><br>DM80232                                      | <b>90° PYPLOK® x SAE Code 61 Flange</b><br>DM80391                                    |

# Specialty Fitting Configuration Guide

## DM 80 Series - Metric Tube

6mm to 60mm



**90° PYPLOCK® x  
SAE Code 62  
Flange**  
DM80392



**NPS to Metric  
Tube Reducer**  
DM20801



**Extra Long  
Coupling**  
DM80301

Introduction

Technical  
Information

DM 20 –  
NPS Pipe

DM 60 –  
OD Tube

DM 80 –  
Metric Tube

DM Series  
Thread Adapter

DM80 –  
Metric JS Tube

DP 40N –  
NPS Low  
Pressure

DP 40M –  
Metric Low  
Pressure

PYPLOCK®  
Tooling

Installation  
Procedures

Appendix

## Notes

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