

# Pneufit® 10 Series (Metric) Push-in fittings



- > Reliable and corrosion resistant
- > Wide range of types available
- > Very compact units
- > Positive tube connection
- > Port size: 1/8" ... 1/2", BSP threads
- > Tube sizes: Ø4 ... 16 mm
- > All taper threads pre-coated with non-PTFE based sealant
- > Straight adaptors feature internal hexagon for allen key
- > Silicon free, 'O'-rings



## Technical features

### Medium:

Compressed air  
(For other media please consult Technical Department)

### Operating pressure:

Vacuum: -14.5 ... 261 psi  
(750mm Hg ... 18 bar)  
(Dependent upon operating specification of tubing)

### Standard:

Conforms to BS ISO 14743

### Operating temperature:

-4 ... 176 °F (20°C ... +80°C)

### Tube sizes:

4, 5, 6, 8, 10, 12, 14, 16 mm O/D

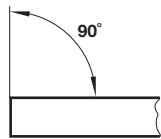
### Tubing types:

Nylon 11 or 12, Polyurethane  
(95 durometer or above)  
and LDPE (low density polyethylene)

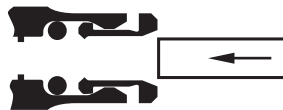
### Materials:

Body: Nickel plated brass  
Collet: Nickel plated brass  
'O'-ring: VMQ free NBR  
Washer (Banjo): Nylon  
Thread sealant: Non-PTFE

## Method of assembly



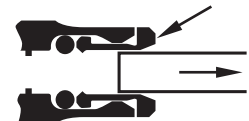
1. Ensure that the end of the tube is cut square and is free from burrs.



2. Push the tube through the collet into the fitting.

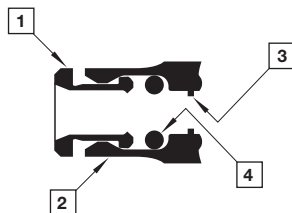


3. Continue pushing the tube through the 'O'-ring until it bottoms on the tube stop then pull back.



4. To disconnect push the tube into the fitting, hold down the collet and withdraw the tube.

## Components



- 1 Collet
- 2 Body
- 3 Tube stop
- 4 'O'-ring

## Option selector

|             |                    |                       |
|-------------|--------------------|-----------------------|
| Thread type | 10 ★ ★ ★ ★ ★ ★ ★ ★ | Thread size/tube size |
| Shape       |                    | Thread size/tube size |

## Straight adaptors and connectors

|                                                                                                                                                              |                                                                                                                                                                 |                                                                                                                                                                                                  |                                                                                                                                                                       |                                                                                                                                                  |                                                                                                                                                           |                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <p>Straight adaptor, Metric O/D tube to BSP taper 10125</p>  <p>Page 4</p>  | <p>Straight adaptor, Metric O/D tube to BSP parallel 10225</p>  <p>Page 4</p>  | <p>Straight adaptor (internal hex.), Metric O/D to BSP parallel and metric 10225 &amp; 1022A</p>  <p>Page 4</p> | <p>Straight adaptor, Metric O/D tube to female BSP parallel 10226</p>  <p>Page 5</p> | <p>Straight connector Metric O/D tube 10020</p>  <p>Page 6</p> | <p>Unequal straight connector Metric O/D tube 10020</p>  <p>Page 6</p> | <p>Cap/female plug Metric 10012</p>  <p>Page 6</p> |
| <p>Straight stem adaptor, Metric tube to BSP taper 10115</p>  <p>Page 7</p> | <p>Straight stem adaptor, Metric tube to BSP parallel 10215</p>  <p>Page 7</p> | <p>Bulkhead connector Metric O/D tube 10029</p>  <p>Page 8</p>                                                  | <p>Bulkhead adaptor, Metric O/D to female BSP parallel 10232</p>  <p>Page 7</p>      | <p>Reducing connector Metric O/D tube 10023</p>  <p>Page 8</p> | <p>Expanding connector Metric O/D tube 10023</p>  <p>Page 8</p>        | <p>Straight stem Metric 10022</p>  <p>Page 9</p>   |
| <p>Stem connector Metric tube bore 10019</p>  <p>Page 10</p>                | <p>Protective cap Metric (Thermoplastic) 10000</p>  <p>Page 10</p>             | <p>Cartridge connector Metric O/D tube 10036</p>  <p>Page 9</p>                                                 |                                                                                                                                                                       |                                                                                                                                                  |                                                                                                                                                           |                                                                                                                                       |

## Elbow adaptors and connectors

|                                                                                                                                                                    |                                                                                                                                                                   |                                                                                                                                                                       |                                                                                                                                                 |                                                                                                                                                                              |                                                                                                                                                                             |                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Swivel elbow adaptor, Metric O/D tube to BSP taper 10147</p>  <p>Page 11</p> | <p>Fixed elbow adaptor, Metric O/D tube to BSP taper 10145</p>  <p>Page 10</p> | <p>Swivel elbow adaptor, Metric O/D tube to BSP parallel 10247</p>  <p>Page 12</p> | <p>Elbow connector Metric O/D tube 10040</p>  <p>Page 11</p> | <p>Extended swivel elbow adaptor, Metric O/D tube to BSP taper 10154</p>  <p>Page 12</p> | <p>45° Swivel elbow adaptor, Metric O/D tube to BSP parallel 10257</p>  <p>Page 13</p> | <p>Bulkhead swivel elbow connector Metric O/D tube 10049</p>  <p>Page 13</p> |
| <p>Stem elbow connector Metric O/D tube 10043</p>  <p>Page 13</p>               |                                                                                                                                                                   |                                                                                                                                                                       |                                                                                                                                                 |                                                                                                                                                                              |                                                                                                                                                                             |                                                                                                                                                                   |

## Tee, Y adaptors and connectors

|                                                                                                                                                                  |                                                                                                                                                                     |                                                                                                                                               |                                                                                                                                                                       |                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Swivel tee adaptor, Metric O/D tube to BSP taper 10167</p>  <p>Page 14</p> | <p>Swivel tee adaptor, Metric O/D tube to BSP parallel 10267</p>  <p>Page 14</p> | <p>Tee connector Metric O/D tube 10060</p>  <p>Page 15</p> | <p>Swivel side tee adaptor, Metric O/D tube to BSP taper 10168</p>  <p>Page 16</p> | <p>Swivel side tee adaptor, Metric O/D tube to BSP parallel 10268</p>  <p>Page 15</p> |
| <p>Swivel Y-adaptor, Metric O/D tube to BSP taper 10188</p>  <p>Page 16</p>   | <p>Swivel Y-adaptor, Metric O/D tube to BSP parallel 10288</p>  <p>Page 16</p>   | <p>Y-connector Metric O/D tube 10082</p>  <p>Page 17</p>   |                                                                                                                                                                       |                                                                                                                                                                           |

## Elbow flow controls and banjo flow controls

Elbow flow control,  
regulating out, BSP  
taper  
10TA0



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Elbow flow control,  
regulating out, BSP  
parallel  
(Aluminum Body)  
10KA0



Page 17

Banjo flow control,  
regulating out, BSP  
parallel to Metric O/D  
tube push-in  
10K51



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Elbow banjo assembly  
regulating-out BSP  
parallel  
16K51



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## Banjos, banjo bodies and bolts

Banjo elbow non-  
regulating, BSP parallel  
to Metric O/D tube  
Push-in  
10A51



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Banjo elbow non-  
regulating, BSP parallel  
to BSP parallel  
16A51



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Banjo tee, BSP parallel  
to Metric O/D tube  
push-in  
10A71



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Banjo elbow body  
to Metric O/D tube  
push-in  
10O51



Page 20

Banjo elbow body to  
BSP parallel  
16O51



Page 20

Banjo tee body to Met-  
ric O/D tube push-in  
10O71



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Banjo bolt, non-  
regulating stacking  
20A00, 20B00, 20C00



Page 21

Banjo bolt, regulating  
out, BSP parallel  
20K00



Page 21

Banjo bolt, regulating  
in, BSP parallel  
20L00



Page 22

Banjo bolt, regulating  
bi-directional, BSP  
parallel  
20M00



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## Accessories

Silencer Metric  
10011



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Plug Metric  
(Nylon) 11004



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## Function fittings

Pilot operated check  
valve, BSP taper  
(Aluminum Body)  
101GA



Page 23

Pilot operated check  
valve, BSP parallel  
(Aluminum Body)  
102GA



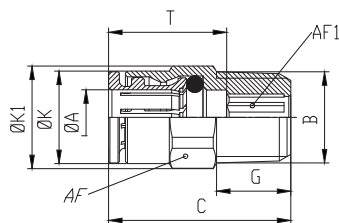
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## Dimensions

### Straight adaptor, Metric O/D tube to BSP taper 10125

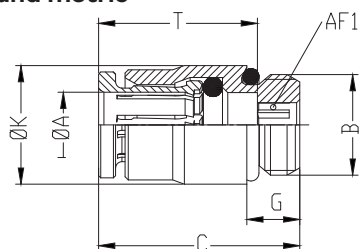
Dimensions in inches (mm)

Projection/First angle



| Ø A | B    | C           | G           | AF   | AF1   | ØK          | ØK1         | T           | Weight oz (g) | Model     |
|-----|------|-------------|-------------|------|-------|-------------|-------------|-------------|---------------|-----------|
| 4   | R1/8 | 0.75 (19)   | 0.30 (7.5)  | (12) | (2.5) | 0.35 (8.8)  | 0.52 (13.2) | 0.55 (14)   | 0.35 (10)     | 101250418 |
| 4   | R1/4 | 0.89 (22.5) | 0.43 (11)   | (14) | (2.5) | 0.35 (8.8)  | 0.60 (15.2) | 0.55 (14)   | 0.67 (19)     | 101250428 |
| 5   | R1/8 | 0.79 (20)   | 0.30 (7.5)  | (12) | (3)   | 0.39 (9.8)  | 0.52 (13.2) | 0.60 (15)   | 0.39 (11)     | 101250518 |
| 5   | R1/4 | 0.91 (23)   | 0.43 (11)   | (14) | (3)   | 0.39 (9.8)  | 0.60 (15.2) | 0.60 (15)   | 0.67 (19)     | 101250528 |
| 6   | R1/8 | 0.87 (22)   | 0.30 (7.5)  | (12) | (4)   | 0.46 (11.7) | 0.52 (13.2) | 0.63 (16)   | 0.39 (11)     | 101250618 |
| 6   | R1/4 | 0.96 (24.5) | 0.43 (11)   | (14) | (4)   | 0.46 (11.7) | 0.60 (15.2) | 0.63 (16)   | 0.63 (18)     | 101250628 |
| 8   | R1/8 | 1.06 (27)   | 0.30 (7.5)  | (14) | (5)   | 0.54 (13.7) | 0.60 (15.2) | 0.69 (17.5) | 0.56 (16)     | 101250818 |
| 8   | R1/4 | 1.06 (27)   | 0.43 (11)   | (14) | (6)   | 0.54 (13.7) | 0.60 (15.2) | 0.69 (17.5) | 0.63 (18)     | 101250828 |
| 8   | R3/8 | 1.08 (27.5) | 0.45 (11.5) | (19) | (6)   | 0.54 (13.7) | 0.81 (20.5) | 0.69 (17.5) | 1.23 (35)     | 101250838 |
| 8   | R1/2 | 1.12 (28.5) | 0.55 (14)   | (22) | (6)   | 0.54 (13.7) | 0.96 (24.5) | 0.69 (17.5) | 1.87 (53)     | 101250848 |
| 10  | R1/8 | 1.16 (29.5) | 0.30 (7.5)  | (17) | (5)   | 0.61 (15.4) | 0.73 (18.5) | 0.80 (20.2) | 0.67 (19)     | 101251018 |
| 10  | R1/4 | 1.30 (33)   | 0.43 (11)   | (17) | (7)   | 0.61 (15.4) | 0.73 (18.5) | 0.80 (20.2) | 0.95 (27)     | 101251028 |
| 10  | R3/8 | 1.12 (28.5) | 0.45 (11.5) | (19) | (8)   | 0.61 (15.4) | 0.81 (20.5) | 0.80 (20.2) | 1.09 (31)     | 101251038 |
| 10  | R1/2 | 1.12 (28.5) | 0.55 (14)   | (22) | (8)   | 0.61 (15.4) | 0.96 (24.5) | 0.80 (20.2) | 1.66 (47)     | 101251048 |
| 12  | R1/4 | 1.26 (32)   | 0.43 (11)   | (19) | (7)   | 0.72 (18.3) | 0.81 (20.5) | 0.76 (19.2) | 1.02 (29)     | 101251228 |
| 12  | R3/8 | 1.22 (31)   | 0.45 (11.5) | (19) | (9)   | 0.72 (18.3) | 0.81 (20.5) | 0.76 (19.2) | 1.16 (33)     | 101251238 |
| 12  | R1/2 | 1.16 (29.5) | 0.55 (14)   | (22) | (10)  | 0.72 (18.3) | 0.96 (24.5) | 0.76 (19.2) | 1.73 (49)     | 101251248 |
| 14  | R3/8 | 1.32 (33.5) | 0.45 (11.5) | (22) | (9)   | 0.81 (20.5) | 0.96 (24.5) | 0.80 (20.2) | 1.41 (40)     | 101251438 |
| 14  | R1/2 | 1.20 (30.5) | 0.55 (14)   | (22) | (12)  | 0.81 (20.5) | 0.96 (24.5) | 0.80 (20.2) | 1.52 (43)     | 101251448 |
| 16  | R1/2 | 1.32 (33.5) | 0.55 (14)   | (24) | (12)  | 0.81 (23.5) | 0.96 (26.5) | 0.91 (23)   | 2.08 (59)     | 101251648 |

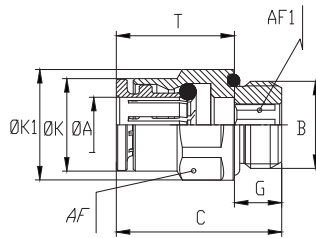
### Straight adaptor (internal hex.), Metric O/D tube to BSP parallel and metric 10225 & 1022A



| ØA | B    | C           | G        | ØK          | T           | AF1   | Weight oz (g) | Model     |
|----|------|-------------|----------|-------------|-------------|-------|---------------|-----------|
| 4  | M3   | 0.71 (18)   | 0.12 (3) | 0.33 (8.5)  | 0.55 (14)   | (1.5) | 0.14 (4)      | 102250403 |
| 4  | M5   | 0.79 (20)   | 0.16 (4) | 0.34 (8.8)  | 0.55 (14)   | (2)   | 0.14 (4)      | 102250405 |
| 4  | G1/8 | 0.71 (18)   | 0.20 (5) | 0.44 (11.2) | 0.55 (14)   | (2.5) | 0.32 (9)      | 1022A0418 |
| 5  | M5   | 0.83 (21)   | 0.16 (4) | 0.39 (9.8)  | 0.59 (15)   | (2)   | 0.18 (5)      | 102250505 |
| 6  | M5   | 0.83 (21)   | 0.16 (4) | 0.41 (10.4) | 0.59 (15)   | (2)   | 0.21 (6)      | 102250605 |
| 6  | G1/8 | 0.75 (19)   | 0.20 (5) | 0.44 (11.2) | 0.59 (15)   | (4)   | 0.25 (7)      | 1022A0618 |
| 8  | G1/8 | 0.93 (23.5) | 0.20 (5) | 0.49 (12.4) | 0.64 (16.2) | (5)   | 0.32 (9)      | 1022A0818 |

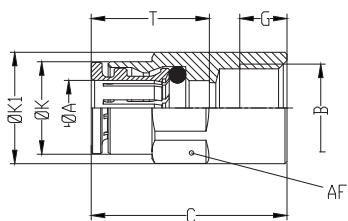
## Straight adaptor, Metric O/D tube to BSP parallel 10225

Dimensions in inches (mm)  
Projection/First angle



| ØA | B    | C           | G        | ØK          | ØK1         | T           | AF   | AF1   | Weight oz (g) | Model     |
|----|------|-------------|----------|-------------|-------------|-------------|------|-------|---------------|-----------|
| 4  | G1/8 | 0.75 (19)   | 0.24 (6) | 0.35 (8.8)  | 0.53 (13.5) | 0.55 (14)   | (12) | (2.5) | 0.35 (10)     | 102250418 |
| 4  | G1/4 | 0.81 (20.5) | 0.28 (7) | 0.35 (8.8)  | 0.53 (13.5) | 0.55 (14)   | (15) | (2.5) | 0.49 (14)     | 102250428 |
| 5  | G1/8 | 0.83 (21)   | 0.24 (6) | 0.35 (8.8)  | 0.53 (13.5) | 0.60 (15)   | (12) | (2.5) | 0.39 (11)     | 102250518 |
| 5  | G1/4 | 0.83 (21)   | 0.28 (7) | 0.35 (8.8)  | 0.53 (13.5) | 0.60 (15)   | (15) | (2.5) | 0.53 (15)     | 102250528 |
| 6  | G1/8 | 0.83 (21)   | 0.24 (6) | 0.46 (11.7) | 0.53 (13.5) | 0.63 (16)   | (12) | (4)   | 0.35 (10)     | 102250618 |
| 6  | G1/4 | 0.87 (22)   | 0.28 (7) | 0.46 (11.7) | 0.53 (13.5) | 0.63 (16)   | (15) | (4)   | 0.46 (13)     | 102250628 |
| 8  | G1/8 | 1.02 (26)   | 0.24 (6) | 0.54 (13.7) | 0.60 (15.2) | 0.69 (17.5) | (14) | (5)   | 0.53 (15)     | 102250818 |
| 8  | G1/4 | 0.96 (24.5) | 0.28 (7) | 0.54 (13.7) | 0.65 (16.4) | 0.69 (17.5) | (15) | (6)   | 0.60 (17)     | 102250828 |
| 8  | G3/8 | 0.91 (23)   | 0.28 (7) | 0.54 (13.7) | 0.81 (20.5) | 0.69 (17.5) | (19) | (6)   | 0.95 (27)     | 102250838 |
| 8  | G1/2 | 0.94 (24)   | 0.31 (8) | 0.54 (13.7) | 0.98 (24.8) | 0.69 (17.5) | (22) | (8)   | 1.38 (39)     | 102250848 |
| 10 | G1/8 | 1.18 (30)   | 0.28 (7) | 0.61 (15.4) | 0.73 (18.5) | 0.80 (20.2) | (17) | (5)   | 0.92 (26)     | 102251018 |
| 10 | G1/4 | 1.18 (30)   | 0.28 (7) | 0.61 (15.4) | 0.73 (18.5) | 0.80 (20.2) | (17) | (7)   | 0.92 (26)     | 102251028 |
| 10 | G3/8 | 0.96 (24.5) | 0.28 (7) | 0.61 (15.4) | 0.81 (20.5) | 0.80 (20.2) | (19) | (8)   | 0.95 (27)     | 102251038 |
| 10 | G1/2 | 0.98 (25)   | 0.31 (8) | 0.61 (15.4) | 0.98 (24.8) | 0.80 (20.2) | (22) | (8)   | 1.38 (39)     | 102251048 |
| 12 | G1/4 | 1.16 (29.5) | 0.28 (7) | 0.72 (18.3) | 0.81 (20.5) | 0.76 (19.2) | (19) | (7)   | 1.02 (29)     | 102251228 |
| 12 | G3/8 | 0.94 (24)   | 0.28 (7) | 0.72 (18.3) | 0.81 (20.5) | 0.76 (19.2) | (19) | (9)   | 0.85 (24)     | 102251238 |
| 12 | G1/2 | 0.96 (24.5) | 0.31 (8) | 0.72 (18.3) | 0.98 (24.8) | 0.76 (19.2) | (22) | (9)   | 1.31 (37)     | 102251248 |
| 14 | G3/8 | 1.20 (30.5) | 0.28 (7) | 0.81 (20.5) | 0.98 (24.5) | 0.80 (20.2) | (22) | (10)  | 1.34 (38)     | 102251438 |
| 14 | G1/2 | 1.00 (25.5) | 0.31 (8) | 0.81 (20.5) | 0.98 (24.8) | 0.80 (20.2) | (22) | (10)  | 1.23 (35)     | 102251448 |
| 16 | G1/2 | 1.32 (33.5) | 0.31 (8) | 0.81 (20.5) | 0.98 (26.5) | 0.91 (23)   | (24) | -     | 1.73 (49)     | 102251648 |

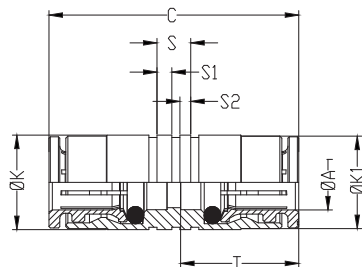
## Straight adaptor, Metric O/D tube to female BSP parallel 10226



| ØA | B     | C           | G          | ØK          | ØK1         | T           | AF   | Weight oz (g) | Model     |
|----|-------|-------------|------------|-------------|-------------|-------------|------|---------------|-----------|
| 4  | G1/8  | 0.94 (24)   | 0.24 (6)   | 0.35 (9)    | 0.51 (13)   | 0.55 (14)   | (12) | 0.49 (14)     | 102260418 |
| 4  | G1/4  | 1.02 (26)   | 0.28 (7)   | 0.35 (9)    | 0.65 (16.5) | 0.55 (14)   | (15) | 0.99 (28)     | 102260428 |
| 6  | G1/8  | 1.02 (26)   | 0.24 (6)   | 0.46 (11.7) | 0.51 (13)   | 0.63 (16)   | (12) | 0.49 (14)     | 102260618 |
| 6  | G1/4  | 1.08 (27.5) | 0.28 (7)   | 0.47 (11.9) | 0.65 (16.5) | 0.63 (16)   | (15) | 0.81 (23)     | 102260628 |
| 8  | G1/8  | 1.06 (27)   | 0.24 (6)   | 0.54 (13.7) | 0.60 (15.2) | 0.69 (17.5) | (14) | 0.56 (16)     | 102260818 |
| 8  | G1/4  | 1.14 (29)   | 0.28 (7)   | 0.54 (13.7) | 0.65 (16.5) | 0.69 (17.5) | (15) | 0.81 (23)     | 102260828 |
| 10 | G1/4  | 1.24 (31.5) | 0.28 (7)   | 0.61 (15.4) | 0.73 (18.5) | 0.80 (20.2) | (17) | 1.02 (29)     | 102261028 |
| 10 | G3/8  | 1.30 (33)   | 0.31 (8)   | 0.61 (15.4) | 0.79 (20)   | 0.80 (20.2) | (17) | 1.13 (32)     | 102261038 |
| 12 | G3/8  | 1.26 (32)   | 0.31 (8)   | 0.72 (18.3) | 0.80 (20.5) | 0.76 (19.2) | (19) | 1.31 (37)     | 102261238 |
| 12 | G 1/2 | 1.42 (36)   | 0.37 (9.5) | 0.72 (18.3) | 0.94 (24)   | 0.76 (19.2) | (19) | 1.73 (49)     | 102261248 |

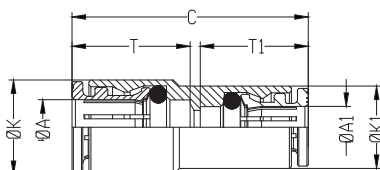
## Straight connector Metric O/D tube 10020

Dimensions in inches (mm)  
Projection/First angle



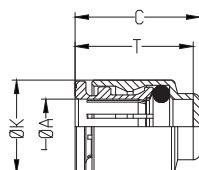
| ØA | C           | ØK        | ØK1       | S          | S1         | S2         | T           | Weight oz (g) | Model     |
|----|-------------|-----------|-----------|------------|------------|------------|-------------|---------------|-----------|
| 4  | 1.14 (29)   | 0.39 (10) | 0.39 (10) | 0.20 (5)   | 0.09 (2.2) | 0.06 (1.6) | 0.55 (14)   | 0.39 (11)     | 100200400 |
| 5  | 1.22 (31)   | 0.39 (10) | 0.39 (10) | 0.20 (5)   | 0.09 (2.2) | 0.06 (1.6) | 0.59 (15)   | 0.53 (15)     | 100200500 |
| 6  | 1.34 (34)   | 0.47 (12) | 0.47 (12) | 0.20 (5)   | 0.09 (2.2) | 0.06 (1.6) | 0.63 (16)   | 0.56 (16)     | 100200600 |
| 8  | 1.46 (37)   | 0.55 (14) | 0.55 (14) | 0.20 (5)   | 0.09 (2.2) | 0.06 (1.6) | 0.69 (17.5) | 0.81 (23)     | 100200800 |
| 10 | 1.63 (41.5) | 0.67 (17) | 0.67 (17) | 0.20 (5)   | 0.09 (2.2) | 0.06 (1.6) | 0.80 (20.2) | 1.16 (33)     | 100201000 |
| 12 | 1.56 (39.5) | 0.75 (19) | 0.75 (19) | 0.20 (5.2) | 0.09 (2.2) | 0.06 (1.6) | 0.76 (19.2) | 1.41 (40)     | 100201200 |
| 14 | 1.63 (41.5) | 0.83 (21) | 0.83 (21) | 0.20 (5.2) | 0.09 (2.2) | 0.06 (1.6) | 0.80 (20.2) | 1.66 (47)     | 100201400 |

## Unequal straight connector Metric O/D tube 10020



| ØA | ØA1 | ØK        | ØK1         | T           | T1          | C           | Weight oz (g) | Model     |
|----|-----|-----------|-------------|-------------|-------------|-------------|---------------|-----------|
| 6  | 4   | 0.47 (12) | 0.35 (9)    | 0.63 (16)   | 0.55 (14)   | 1.24 (31.5) | 0.42 (12)     | 100200604 |
| 8  | 6   | 0.55 (14) | 0.48 (12.2) | 0.69 (17.5) | 0.63 (16)   | 1.38 (35)   | 0.67 (19)     | 100200806 |
| 10 | 8   | 0.63 (16) | 0.55 (14)   | 0.80 (20.2) | 0.69 (17.5) | 1.54 (39)   | 0.88 (25)     | 100201008 |
| 12 | 10  | 0.75 (19) | 0.63 (16)   | 0.76 (19.2) | 0.80 (20.2) | 1.60 (40.5) | 1.24 (35)     | 100201210 |

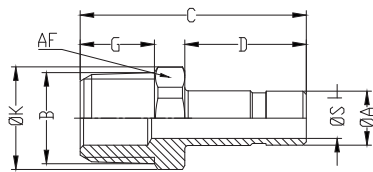
## Cap / female plug Metric 10012



| ØA | C           | ØK          | T           | Weight oz (g) | Model     |
|----|-------------|-------------|-------------|---------------|-----------|
| 4  | 0.59 (15)   | 0.35 (8.8)  | 0.55 (14)   | 0.14 (4)      | 100120400 |
| 6  | 0.67 (17)   | 0.46 (11.8) | 0.63 (16)   | 0.25 (7)      | 100120600 |
| 8  | 0.73 (18.5) | 0.54 (13.8) | 0.69 (17.5) | 0.32 (9)      | 100120800 |
| 10 | 0.83 (21)   | 0.62 (15.8) | 0.80 (20.2) | 0.42 (12)     | 100121000 |
| 12 | 0.79 (20)   | 0.70 (17.8) | 0.76 (19.2) | 0.53 (15)     | 100121200 |

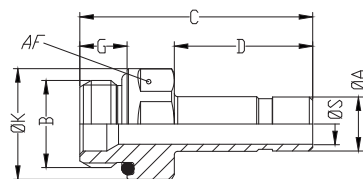
## Straight stem adaptor, Metric tube to BSP taper 10115

Dimensions in inches (mm)  
Projection/First angle



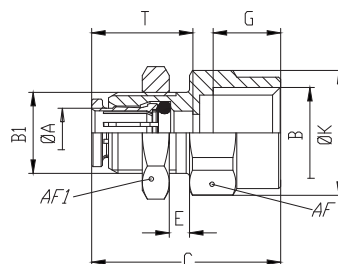
| ØA | B    | C           | D           | G           | ØK          | ØS         | AF   | Weight oz (g) | Model     |
|----|------|-------------|-------------|-------------|-------------|------------|------|---------------|-----------|
| 4  | R1/8 | 1.12 (28.5) | 0.65 (16.5) | 0.30 (7.5)  | 0.51 (13.2) | 0.08 (2)   | (12) | 0.35 (10)     | 101150418 |
| 6  | R1/8 | 1.18 (30)   | 0.71 (18)   | 0.30 (7.5)  | 0.51 (13.2) | 0.16 (4)   | (12) | 0.35 (10)     | 101150618 |
| 6  | R1/4 | 1.31 (33.5) | 0.71 (18)   | 0.43 (11)   | 0.60 (15.2) | 0.16 (4)   | (14) | 0.56 (16)     | 101150628 |
| 8  | R1/8 | 1.28 (32.5) | 0.81 (20.5) | 0.30 (7.5)  | 0.51 (13.2) | 0.22 (5.5) | (12) | 0.39 (11)     | 101150818 |
| 8  | R1/4 | 1.42 (36)   | 0.81 (20.5) | 0.43 (11)   | 0.60 (15.2) | 0.24 (6)   | (14) | 0.60 (17)     | 101150828 |
| 10 | R1/4 | 1.52 (38.5) | 0.91 (23)   | 0.43 (11)   | 0.60 (15.2) | 0.31 (8)   | (14) | 0.63 (18)     | 101151028 |
| 10 | R3/8 | 1.56 (39.5) | 0.91 (23)   | 0.45 (11.5) | 0.81 (20.5) | 0.31 (8)   | (19) | 1.06 (30)     | 101151038 |
| 12 | R3/8 | 1.59 (40.5) | 0.94 (24)   | 0.45 (11.5) | 0.81 (20.5) | 0.39 (10)  | (19) | 1.06 (30)     | 101151238 |
| 12 | R1/2 | 1.71 (43.5) | 0.94 (24)   | 0.55 (14)   | 0.96 (24.5) | 0.39 (10)  | (22) | 1.69 (48)     | 101151248 |

## Straight stem adaptor, Metric tube to BSP parallel 10215



| ØA | B    | C           | D           | G        | ØK          | ØS        | AF   | Weight oz (g) | Model     |
|----|------|-------------|-------------|----------|-------------|-----------|------|---------------|-----------|
| 4  | G1/8 | 1.12 (28.5) | 0.65 (16.5) | 0.24 (6) | 0.53 (13.5) | 0.08 (2)  | (12) | 0.35 (10)     | 102150418 |
| 6  | G1/8 | 1.18 (30)   | 0.71 (18)   | 0.24 (6) | 0.53 (13.5) | 0.16 (4)  | (12) | 0.35 (10)     | 102150618 |
| 6  | G1/4 | 1.3 (32)    | 0.71 (18)   | 0.28 (7) | 0.65 (16.4) | 0.16 (4)  | (15) | 0.63 (18)     | 102150628 |
| 8  | G1/8 | 1.3 (32.5)  | 0.81 (20.5) | 0.24 (6) | 0.53 (13.5) | 0.24 (6)  | (12) | 0.39 (11)     | 102150818 |
| 8  | G1/4 | 1.36 (34.5) | 0.81 (20.5) | 0.28 (7) | 0.65 (16.4) | 0.24 (6)  | (15) | 0.63 (18)     | 102150828 |
| 8  | G3/8 | 1.36 (34.5) | 0.81 (20.5) | 0.28 (7) | 0.81 (20.5) | 0.24 (6)  | (19) | 0.88 (25)     | 102150838 |
| 10 | G1/4 | 1.46 (37)   | 0.91 (23)   | 0.28 (7) | 0.65 (16.4) | 0.31 (8)  | (15) | 0.63 (18)     | 102151028 |
| 10 | G3/8 | 1.46 (37)   | 0.91 (23)   | 0.28 (7) | 0.81 (20.5) | 0.31 (8)  | (19) | 0.95 (27)     | 102151038 |
| 12 | G3/8 | 1.50 (38)   | 0.94 (24)   | 0.28 (7) | 0.81 (20.5) | 0.39 (10) | (19) | 0.95 (27)     | 102151238 |
| 12 | G1/2 | 1.57 (40)   | 0.94 (24)   | 0.31 (8) | 0.98 (24.8) | 0.39 (10) | (22) | 1.34 (38)     | 102151248 |

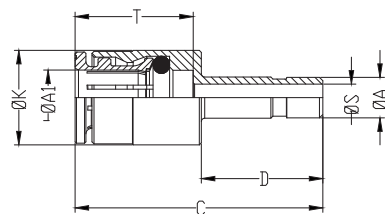
## Bulkhead adaptor, Metric O/D tube to female BSP parallel 10232



| ØA | B     | B1   | C           | E          | G        | ØK          | T           | AF   | AF1  | Weight oz (g) | Model     |
|----|-------|------|-------------|------------|----------|-------------|-------------|------|------|---------------|-----------|
| 6  | M12X1 | G1/8 | 0.96 (24.5) | 0.33 (8.5) | 0.24 (6) | 0.65 (16.4) | 0.59 (15)   | (15) | (17) | 0.67 (19)     | 102320618 |
| 6  | M12X1 | G1/4 | 1.02 (26)   | 0.26 (6.5) | 0.28 (7) | 0.73 (18.5) | 0.63 (16)   | (17) | (17) | 0.78 (22)     | 102320628 |
| 8  | M15X1 | G1/4 | 1.12 (28.5) | 0.37 (9.5) | 0.28 (7) | 0.73 (18.5) | 0.69 (17.5) | (17) | (19) | 0.92 (26)     | 102320828 |
| 10 | M18X1 | G3/8 | 1.28 (32.5) | 0.47 (12)  | 0.31 (8) | 0.96 (24.5) | 0.80 (20.2) | (22) | (22) | 1.52 (43)     | 102321038 |

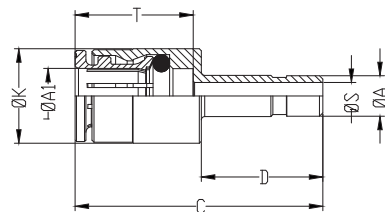
## Expanding connector Metric O/D tube 10023

Dimensions in inches (mm)  
Projection/First angle



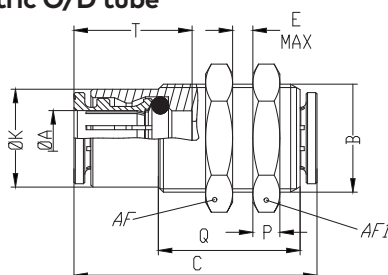
| ØA | ØA1 | C           | D           | ØK          | T           | ØS       | Weight oz (g) | Model     |
|----|-----|-------------|-------------|-------------|-------------|----------|---------------|-----------|
| 4  | 6   | 1.32 (33.5) | 0.65 (16.5) | 0.50 (12.7) | 0.63 (16)   | 0.08 (2) | 0.39 (11)     | 100230406 |
| 6  | 8   | 1.44 (36.5) | 0.71 (18)   | 0.55 (14)   | 0.69 (17.5) | 0.16 (4) | 0.53 (15)     | 100230608 |

## Reducing connector Metric O/D tube 10023



| ØA | ØA1 | C           | D           | ØK          | ØS          | T         | Weight oz (g) | Model     |
|----|-----|-------------|-------------|-------------|-------------|-----------|---------------|-----------|
| 5  | 4   | 1.30 (33)   | 0.71 (18)   | 0.35 (9)    | 0.12 (3)    | 0.55 (14) | 0.28 (8)      | 100230504 |
| 6  | 4   | 1.16 (29.5) | 0.71 (18)   | 0.35 (9)    | 0.14 (3.5)  | 0.55 (14) | 0.28 (8)      | 100230604 |
| 6  | 5   | 1.34 (34)   | 0.71 (18)   | 0.39 (10)   | 0.16 (4)    | 0.59 (15) | 0.32 (9)      | 100230605 |
| 8  | 4   | 1.26 (32)   | 0.81 (20.5) | 0.35 (9)    | 0.14 (3.5)  | 0.55 (14) | 0.35 (10)     | 100230804 |
| 8  | 5   | 1.30 (33)   | 0.81 (20.5) | 0.39 (10)   | 0.18 (4.5)  | 0.59 (15) | 0.35 (10)     | 100230805 |
| 8  | 6   | 1.34 (34)   | 0.81 (20.5) | 0.50 (12.7) | 0.22 (5.5)  | 0.63 (16) | 0.42 (12)     | 100230806 |
| 10 | 4   | 1.24 (31.5) | 0.91 (23)   | 0.40 (10.1) | 0.14 (3.5)  | 0.55 (14) | 0.56 (16)     | 100231004 |
| 10 | 6   | 1.44 (36.5) | 0.91 (23)   | 0.50 (12.7) | 0.22 (5.5)  | 0.63 (16) | 0.60 (17)     | 100231006 |
| 10 | 8   | 1.50 (38)   | 0.91 (23)   | 0.55 (14)   | 0.30 (7.5)  | 0.71 (18) | 0.53 (15)     | 100231008 |
| 12 | 4   | 1.46 (37)   | 0.94 (24)   | 0.48 (12.1) | 0.14 (3.5)  | 0.55 (14) | 0.99 (28)     | 100231204 |
| 12 | 6   | 1.32 (33.5) | 0.94 (24)   | 0.48 (12.1) | 0.22 (5.5)  | 0.63 (16) | 0.74 (21)     | 100231206 |
| 12 | 8   | 1.54 (39)   | 0.94 (24)   | 0.55 (14)   | 0.30 (7.5)  | 0.71 (18) | 0.78 (22)     | 100231208 |
| 12 | 10  | 1.59 (40.5) | 0.94 (24)   | 0.65 (16.5) | 0.37 (9.5)  | 0.79 (20) | 0.95 (27)     | 100231210 |
| 14 | 6   | 1.48 (37.5) | 1.10 (28)   | 0.56 (14.1) | 0.22 (5.5)  | 0.63 (16) | 1.20 (34)     | 100231406 |
| 14 | 8   | 1.52 (38.5) | 1.10 (28)   | 0.56 (14.1) | 0.30 (7.5)  | 0.71 (18) | 1.06 (30)     | 100231408 |
| 14 | 10  | 1.75 (44.5) | 1.10 (28)   | 0.65 (16.5) | 0.37 (9.5)  | 0.79 (20) | 1.16 (33)     | 100231412 |
| 14 | 12  | 1.71 (43.5) | 1.10 (28)   | 0.74 (18.8) | 0.45 (11.5) | 0.75 (19) | 0.95 (27)     | 100231410 |

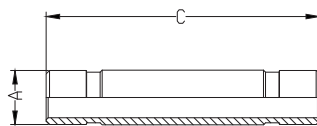
## Bulkhead connector Metric O/D tube 10029



| ØA | B     | C           | E           | ØK          | P          | Q           | T           | AF   | AF1  | Weight oz (g) | Model     |
|----|-------|-------------|-------------|-------------|------------|-------------|-------------|------|------|---------------|-----------|
| 4  | M10X1 | 1.14 (29)   | 0.41 (10.5) | 0.35 (8.8)  | 0.16 (4)   | 0.79 (20)   | 0.55 (14)   | (14) | (14) | 0.56 (16)     | 100290400 |
| 5  | M12X1 | 1.22 (31)   | 0.41 (10.5) | 0.39 (9.8)  | 0.16 (4)   | 0.79 (20)   | 0.59 (15)   | (17) | (17) | 0.88 (25)     | 100290500 |
| 6  | M14X1 | 1.30 (33)   | 0.41 (10.5) | 0.49 (12.5) | 0.16 (4)   | 0.79 (20)   | 0.63 (16)   | (17) | (17) | 0.99 (28)     | 100290600 |
| 8  | M16X1 | 1.42 (36)   | 0.45 (11.5) | 0.57 (14.5) | 0.16 (4)   | 0.83 (21)   | 0.69 (17.5) | (19) | (19) | 1.23 (35)     | 100290800 |
| 10 | M18X1 | 1.63 (41.5) | 0.51 (13)   | 0.64 (16.3) | 0.18 (4.5) | 0.93 (23.5) | 0.80 (20.2) | (22) | (22) | 1.80 (51)     | 100291000 |
| 12 | M20X1 | 1.56 (39.5) | 0.57 (14.5) | 0.74 (18.8) | 0.18 (4.5) | 0.98 (25)   | 0.76 (19.2) | (24) | (24) | 1.98 (56)     | 100291200 |
| 14 | M22X1 | 1.63 (41.5) | 0.69 (17.5) | 0.81 (20.5) | 0.22 (5.5) | 1.18 (30)   | 0.80 (20.2) | (27) | (27) | 2.89 (82)     | 100291400 |

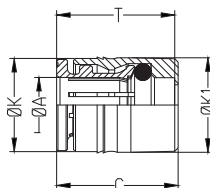
## Straight stem Metric 10022

Dimensions in inches (mm)  
Projection/First angle



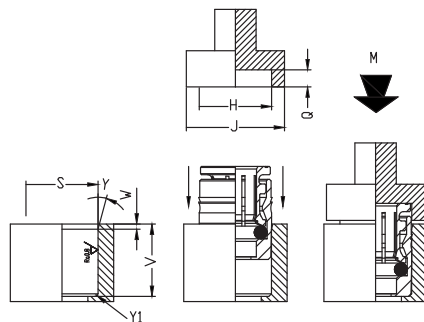
| ØA | C           | Weight oz (g) | Model     |
|----|-------------|---------------|-----------|
| 4  | 1.28 (32.5) | 0.11 (3)      | 100220400 |
| 6  | 1.40 (35.5) | 0.25 (7)      | 100220600 |
| 8  | 1.59 (40.5) | 0.35 (10)     | 100220800 |
| 10 | 1.81 (46)   | 0.46 (13)     | 100221000 |
| 12 | 1.89 (48)   | 0.60 (17)     | 100221200 |

## Cartridge connector Metric O/D tube 10036



| ØA | C           | ØK          | ØK1         | T           | Weight oz (g) | Model     |
|----|-------------|-------------|-------------|-------------|---------------|-----------|
| 4  | 0.57 (14.5) | 0.34 (8.6)  | 0.35 (9)    | 0.55 (14)   | 0.14 (4)      | 100360400 |
| 6  | 0.65 (16.5) | 0.46 (11.8) | 0.48 (12.2) | 0.63 (16)   | 0.28 (8)      | 100360600 |
| 8  | 0.71 (18)   | 0.54 (13.8) | 0.56 (14.2) | 0.69 (17.5) | 0.39 (11)     | 100360800 |
| 10 | 0.81 (20.5) | 0.62 (15.8) | 0.64 (16.2) | 0.78 (20.2) | 0.53 (15)     | 100361000 |

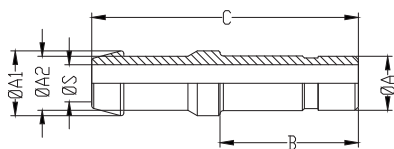
## Insertion & tool 10036



| H          | J         | M Min lbs<br>(Kg) | M Max lbs<br>(Kg) | Q          | ØS (tol. +0.01/<br>-0.04mm) | V           | W          | Y   | Y1             | Model     |
|------------|-----------|-------------------|-------------------|------------|-----------------------------|-------------|------------|-----|----------------|-----------|
| 0.35 (8.8) | 0.55 (14) | 440.93 (200)      | 793.66 (360)      | 0.13 (3.3) | 0.344 (8.75)                | 0.43 (11)   | 0.02 (0.5) | 15° | 0.02 (0.5)X45° | 100360400 |
| 0.47 (12)  | 0.67 (17) | 352.74 (160)      | 1256.63 (570)     | 0.15 (3.8) | 0.470 (11.95)               | 0.47 (12)   | 0.02 (0.5) | 15° | 0.02 (0.5)X45° | 100360600 |
| 0.55 (14)  | 0.75 (19) | 308.65 (140)      | 881.85 (400)      | 0.13 (3.3) | 0.549 (13.95)               | 0.55 (14)   | 0.02 (0.5) | 15° | 0.02 (0.5)X45° | 100360800 |
| 0.63 (16)  | 0.83 (21) | 330.70 (150)      | 1433 (650)        | 0.14 (3.5) | 0.628 (15.95)               | 0.65 (16.5) | 0.02 (0.5) | 15° | 0.02 (0.5)X45° | 100361000 |

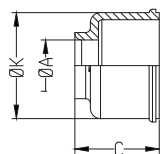
## Stem connector, Metric tube bore 10019

Dimensions in inches (mm)  
Projection/First angle



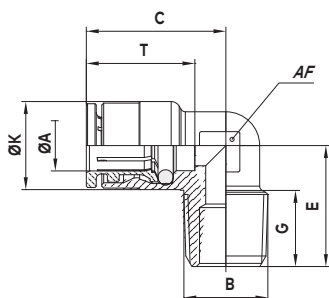
| ØA | ØA1        | ØA2         | B           | C           | ØS         | Weight oz (g) | Model     |
|----|------------|-------------|-------------|-------------|------------|---------------|-----------|
| 6  | 0.26 (6.5) | 0.20 (5)    | 0.71 (18)   | 1.42 (36)   | 0.11 (2.7) | 0.17 (5)      | 100190605 |
| 6  | 0.31 (8)   | 0.26 (6.5)  | 0.71 (18)   | 1.42 (36)   | 0.16 (4)   | 0.21 (6)      | 100190606 |
| 8  | 0.31 (8)   | 0.26 (6.5)  | 0.81 (20.5) | 1.48 (37.5) | 0.17 (4.3) | 0.25 (7)      | 100190806 |
| 8  | 0.37 (9.5) | 0.31 (8)    | 0.81 (20.5) | 1.56 (39.5) | 0.22 (5.5) | 0.35 (10)     | 100190808 |
| 10 | 0.47 (12)  | 0.39 (10)   | 0.91 (23)   | 1.69 (43)   | 0.31 (8)   | 0.45 (13)     | 100191010 |
| 12 | 0.59 (15)  | 0.49 (12.5) | 0.94 (24)   | 1.73 (44)   | 0.39 (10)  | 0.63 (18)     | 100191212 |

## Protective cap Metric (Thermoplastic) 10000



| ØA | C           | ØK          | Weight oz (g) | Model     |
|----|-------------|-------------|---------------|-----------|
| 4  | 0.42 (10.7) | 0.42 (10.7) | 0.04 (1)      | 100000400 |
| 5  | 0.43 (11)   | 0.46 (11.7) | 0.04 (1)      | 100000500 |
| 6  | 0.45 (11.5) | 0.54 (13.7) | 0.04 (1)      | 100000600 |
| 8  | 0.57 (14.5) | 0.62 (15.7) | 0.04 (1)      | 100000800 |
| 10 | 0.52 (13.2) | 0.73 (18.5) | 0.04 (1)      | 100001000 |
| 12 | 0.61 (15.5) | 0.81 (20.7) | 0.07 (2)      | 100001200 |

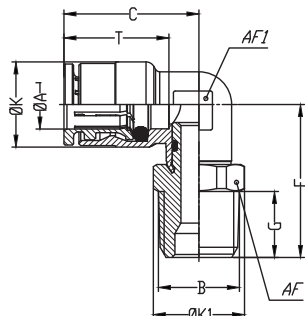
## Fixed elbow adaptor, Metric O/D to BSP taper 10145



| ØA | B    | C           | E           | G           | ØK          | T           | AF   | Weight oz (g) | Model     |
|----|------|-------------|-------------|-------------|-------------|-------------|------|---------------|-----------|
| 4  | R1/8 | 0.69 (17.5) | 0.59 (15)   | 0.30 (7.5)  | 0.35 (9)    | 0.55 (14)   | (8)  | 0.35 (10)     | 101450418 |
| 4  | R1/4 | 0.75 (19)   | 0.77 (19.5) | 0.47 (12)   | 0.35 (9)    | 0.55 (14)   | (9)  | 0.53 (15)     | 101450428 |
| 6  | R1/8 | 0.79 (20)   | 0.61 (15.5) | 0.30 (7.5)  | 0.5 (12.7)  | 0.63 (16)   | (9)  | 0.39 (11)     | 101450618 |
| 6  | R1/4 | 0.79 (20)   | 0.77 (19.5) | 0.47 (12)   | 0.5 (12.7)  | 0.63 (16)   | (9)  | 0.63 (18)     | 101450628 |
| 8  | R1/8 | 0.89 (22.5) | 0.67 (17)   | 0.26 (6.5)  | 0.56 (14.2) | 0.69 (17.5) | (11) | 0.63 (18)     | 101450818 |
| 8  | R1/4 | 0.89 (22.5) | 0.49 (12.5) | 0.77 (19.5) | 0.56 (14.2) | 0.69 (17.5) | (11) | 0.63 (18)     | 101450828 |
| 8  | R3/8 | 0.96 (24.5) | 0.49 (12.5) | 0.85 (21.5) | 0.56 (14.2) | 0.69 (17.5) | (12) | 0.92 (26)     | 101450838 |
| 10 | R1/4 | 1.02 (26)   | 0.47 (12)   | 0.85 (21.5) | 0.65 (16.5) | 0.80 (20.2) | (13) | 0.95 (27)     | 101451028 |
| 10 | R3/8 | 1.02 (26)   | 0.47 (12)   | 0.85 (21.5) | 0.65 (16.5) | 0.80 (20.2) | (13) | 0.99 (28)     | 101451038 |
| 10 | R1/2 | 1.04 (26.5) | 0.63 (16)   | 1.14 (29)   | 0.65 (16.5) | 0.80 (20.2) | (15) | 1.80 (51)     | 101451048 |
| 12 | R1/4 | 1.04 (26.5) | 0.51 (13)   | 0.89 (22.5) | 0.77 (19.5) | 0.76 (19.2) | (15) | 1.27 (36)     | 101451228 |
| 12 | R3/8 | 1.04 (26.5) | 0.45 (11.5) | 0.87 (22)   | 0.77 (19.5) | 0.76 (19.2) | (15) | 1.20 (34)     | 101451238 |
| 12 | R1/2 | 1.04 (26.5) | 0.63 (16)   | 1.14 (29)   | 0.77 (19.5) | 0.76 (19.2) | (15) | 1.90 (54)     | 101451248 |

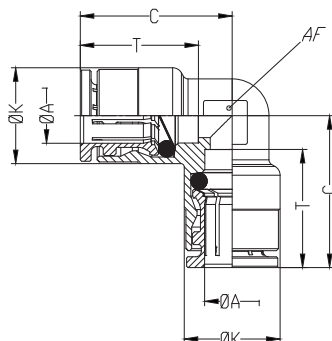
## Swivel elbow adaptor, Metric O/D tube to BSP taper 10147

Dimensions in inches (mm)  
Projection/First angle



| ØA | B    | C           | E           | G           | ØK          | ØK1         | T           | AF   | AF1  | Weight (g) | Model     |
|----|------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|------------|-----------|
| 4  | R1/8 | 0.69 (17.5) | 0.81 (20.5) | 0.30 (7.5)  | 0.35 (9)    | 0.52 (13.2) | 0.55 (14)   | (12) | (8)  | 0.53 (15)  | 101470418 |
| 4  | R1/4 | 0.69 (17.5) | 0.94 (24)   | 0.43 (11)   | 0.35 (9)    | 0.60 (15.2) | 0.55 (14)   | (14) | (8)  | 0.88 (25)  | 101470428 |
| 5  | R1/8 | 0.80 (20.5) | 0.81 (20.5) | 0.30 (7.5)  | 0.39 (10)   | 0.52 (13.2) | 0.59 (15)   | (12) | (9)  | 0.56 (16)  | 101470518 |
| 5  | R1/4 | 0.80 (20.5) | 0.94 (24)   | 0.43 (11)   | 0.39 (10)   | 0.60 (15.2) | 0.59 (15)   | (14) | (9)  | 0.92 (26)  | 101470528 |
| 6  | R1/8 | 0.79 (20)   | 0.83 (21)   | 0.30 (7.5)  | 0.50 (12.7) | 0.52 (13.2) | 0.63 (16)   | (12) | (9)  | 0.74 (21)  | 101470618 |
| 6  | R1/4 | 0.79 (20)   | 0.96 (24.5) | 0.04 (1)    | 0.50 (12.7) | 0.60 (15.2) | 0.63 (16)   | (14) | (9)  | 0.99 (28)  | 101470628 |
| 6  | R3/8 | 0.79 (20)   | 1.00 (25.5) | 0.45 (11.5) | 0.50 (12.7) | 0.81 (20.5) | 0.63 (16)   | (19) | (9)  | 1.38 (39)  | 101470638 |
| 8  | R1/8 | 0.89 (22.5) | 0.87 (22)   | 0.30 (7.5)  | 0.56 (14.2) | 0.52 (13.2) | 0.69 (17.5) | (12) | (11) | 0.78 (22)  | 101470818 |
| 8  | R1/4 | 0.89 (22.5) | 1.00 (25.5) | 0.43 (11)   | 0.56 (14.2) | 0.60 (15.2) | 0.69 (17.5) | (14) | (11) | 1.02 (29)  | 101470828 |
| 8  | R3/8 | 0.89 (22.5) | 1.06 (27)   | 0.45 (11.5) | 0.56 (14.2) | 0.81 (20.5) | 0.69 (17.5) | (19) | (11) | 1.66 (47)  | 101470838 |
| 8  | R1/2 | 0.89 (22.5) | 1.16 (29.5) | 0.55 (14)   | 0.56 (14.2) | 0.96 (24.5) | 0.69 (17.5) | (22) | (11) | 2.29 (65)  | 101470848 |
| 10 | R1/8 | 1.02 (26)   | 0.96 (24.5) | 0.30 (7.5)  | 0.65 (16.5) | 0.60 (15.2) | 0.80 (20.2) | (14) | (13) | 1.31 (37)  | 101471018 |
| 10 | R1/4 | 1.02 (26)   | 1.10 (28)   | 0.43 (11)   | 0.65 (16.5) | 0.60 (15.2) | 0.80 (20.2) | (14) | (13) | 1.48 (42)  | 101471028 |
| 10 | R3/8 | 1.02 (26)   | 1.16 (29)   | 0.45 (11.5) | 0.65 (16.5) | 0.81 (20.5) | 0.80 (20.2) | (19) | (13) | 1.59 (45)  | 101471038 |
| 10 | R1/2 | 1.02 (26)   | 1.26 (32)   | 0.55 (14)   | 0.65 (16.5) | 0.96 (24.5) | 0.80 (20.2) | (22) | (13) | 2.33 (66)  | 101471048 |
| 12 | R1/4 | 1.04 (26.5) | 1.16 (29.5) | 0.43 (11)   | 0.77 (19.5) | 0.73 (18.5) | 0.76 (19.2) | (17) | (15) | 1.80 (51)  | 101471228 |
| 12 | R3/8 | 1.04 (26.5) | 1.18 (30)   | 0.45 (11.5) | 0.77 (19.5) | 0.81 (20.5) | 0.76 (19.2) | (19) | (15) | 2.05 (58)  | 101471238 |
| 12 | R1/2 | 1.04 (26.5) | 1.30 (33)   | 0.55 (14)   | 0.77 (19.5) | 0.98 (24.8) | 0.76 (19.2) | (22) | (15) | 2.05 (58)  | 101471248 |
| 14 | R3/8 | 1.12 (28.5) | 1.22 (31)   | 0.45 (11.5) | 0.85 (21.5) | 0.81 (20.5) | 0.80 (20.2) | (19) | (17) | 2.01 (57)  | 101471438 |
| 14 | R1/2 | 1.12 (28.5) | 1.34 (34)   | 0.55 (14)   | 0.85 (21.5) | 0.98 (24.8) | 0.80 (20.2) | (22) | (17) | 2.58 (73)  | 101471448 |

## Elbow connector Metric O/D tube 10040

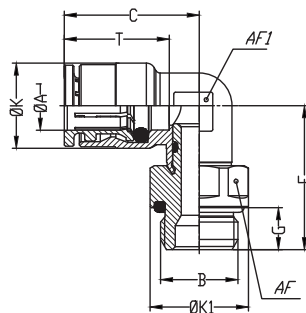


| ØA | C           | ØK          | T           | AF   | Weight oz (g) | Model     |
|----|-------------|-------------|-------------|------|---------------|-----------|
| 4  | 0.69 (17.5) | 0.35 (9)    | 0.55 (14)   | (8)  | 0.28 (8)      | 100400400 |
| 5  | 0.81 (20.5) | 0.39 (10)   | 0.59 (15)   | (9)  | 0.53 (15)     | 100400500 |
| 6  | 0.79 (20)   | 0.50 (12.7) | 0.63 (16)   | (9)  | 0.60 (17)     | 100400600 |
| 8  | 0.89 (22.5) | 0.56 (14.2) | 0.67 (17)   | (11) | 0.78 (22)     | 100400800 |
| 10 | 1.02 (26)   | 0.65 (16.5) | 0.80 (20.2) | (13) | 1.06 (30)     | 100401000 |
| 12 | 1.04 (26.5) | 0.77 (19.5) | 0.76 (19.2) | (15) | 1.55 (44)     | 100401200 |
| 14 | 1.12 (28.5) | 0.85 (21.5) | 0.80 (20.2) | (17) | 2.50 (71)     | 100401400 |

## Swivel elbow adaptor, Metric O/D to BSP parallel

### 10247

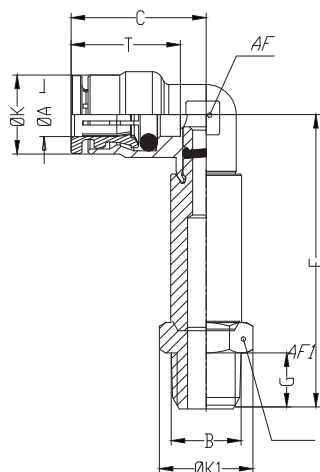
Dimensions in inches (mm)  
Projection/First angle



| ØA | B    | C           | E           | G        | ØK          | ØK1         | T           | AF   | AF1  | Weight oz (g) | Model     |
|----|------|-------------|-------------|----------|-------------|-------------|-------------|------|------|---------------|-----------|
| 4  | M3   | 0.69 (17.5) | 0.63 (16)   | 0.12 (3) | 0.35 (9)    | 0.35 (8.8)  | 0.55 (14)   | (8)  | (8)  | 0.42 (12)     | 102470403 |
| 4  | M5   | 0.69 (17.5) | 0.67 (17)   | 0.16 (4) | 0.35 (9)    | 0.35 (8.8)  | 0.55 (14)   | (8)  | (8)  | 0.42 (12)     | 102470405 |
| 4  | G1/8 | 0.69 (17.5) | 0.81 (20.5) | 0.24 (6) | 0.35 (9)    | 0.53 (13.5) | 0.55 (14)   | (8)  | (12) | 0.53 (15)     | 102470418 |
| 4  | G1/4 | 0.69 (17.5) | 0.89 (22.5) | 0.28 (7) | 0.35 (9)    | 0.65 (16.4) | 0.55 (14)   | (8)  | (15) | 0.88 (25)     | 102470428 |
| 5  | M5   | 0.81 (20.5) | 0.67 (17)   | 0.16 (4) | 0.39 (10)   | 0.35 (8.8)  | 0.59 (15)   | (9)  | (8)  | 0.46 (13)     | 102470505 |
| 5  | G1/8 | 0.81 (20.5) | 0.81 (20.5) | 0.24 (6) | 0.39 (10)   | 0.53 (13.5) | 0.59 (15)   | (9)  | (12) | 0.56 (16)     | 102470518 |
| 5  | G1/4 | 0.81 (20.5) | 0.89 (22.5) | 0.28 (7) | 0.39 (10)   | 0.65 (16.4) | 0.59 (15)   | (9)  | (15) | 0.92 (26)     | 102470528 |
| 6  | M5   | 0.79 (20)   | 0.69 (17.5) | 0.16 (4) | 0.50 (12.7) | 0.43 (10.9) | 0.63 (16)   | (9)  | (10) | 0.49 (14)     | 102470605 |
| 6  | G1/8 | 0.79 (20)   | 0.83 (21)   | 0.24 (6) | 0.50 (12.7) | 0.53 (13.5) | 0.63 (16)   | (9)  | (12) | 0.67 (19)     | 102470618 |
| 6  | G1/4 | 0.79 (20)   | 0.91 (23)   | 0.28 (7) | 0.50 (12.7) | 0.65 (16.4) | 0.63 (16)   | (9)  | (15) | 0.95 (27)     | 102470628 |
| 8  | G1/8 | 0.89 (22.5) | 0.87 (22)   | 0.24 (6) | 0.56 (14.2) | 0.53 (13.5) | 0.69 (17.5) | (11) | (12) | 0.78 (22)     | 102470818 |
| 8  | G1/4 | 0.89 (22.5) | 0.94 (24)   | 0.28 (7) | 0.56 (14.2) | 0.65 (16.4) | 0.69 (17.5) | (11) | (15) | 0.99 (28)     | 102470828 |
| 8  | G3/8 | 0.89 (22.5) | 0.94 (24)   | 0.28 (7) | 0.56 (14.2) | 0.81 (20.5) | 0.69 (17.5) | (11) | (19) | 1.59 (45)     | 102470838 |
| 8  | G1/2 | 0.89 (22.5) | 1.02 (26)   | 0.31 (8) | 0.56 (14.2) | 0.98 (24.8) | 0.69 (17.5) | (11) | (22) | 1.87 (53)     | 102470848 |
| 10 | G1/8 | 1.02 (26)   | 0.96 (24.5) | 0.24 (6) | 0.65 (16.5) | 0.60 (15.2) | 0.80 (20.2) | (13) | (14) | 1.31 (37)     | 102471018 |
| 10 | G1/4 | 1.02 (26)   | 1.04 (26.5) | 0.28 (7) | 0.65 (16.5) | 0.65 (16.4) | 0.80 (20.2) | (13) | (15) | 1.45 (41)     | 102471028 |
| 10 | G3/8 | 1.02 (26)   | 1.04 (26.5) | 0.28 (7) | 0.65 (16.5) | 0.81 (20.5) | 0.80 (20.2) | (13) | (19) | 1.59 (45)     | 102471038 |
| 10 | G1/2 | 1.02 (26)   | 1.12 (28.5) | 0.31 (8) | 0.65 (16.5) | 0.98 (24.8) | 0.80 (20.2) | (13) | (22) | 1.87 (53)     | 102471048 |
| 12 | G1/4 | 1.04 (26.5) | 1.06 (27)   | 0.28 (7) | 0.77 (19.5) | 0.73 (18.5) | 0.76 (19.2) | (15) | (17) | 1.80 (51)     | 102471228 |
| 12 | G3/8 | 1.04 (26.5) | 1.08 (27.5) | 0.28 (7) | 0.77 (19.5) | 0.81 (20.5) | 0.76 (19.2) | (15) | (19) | 1.98 (56)     | 102471238 |
| 12 | G1/2 | 1.04 (26.5) | 1.16 (29.5) | 0.31 (8) | 0.77 (19.5) | 0.98 (24.8) | 0.76 (19.2) | (15) | (22) | 2.05 (58)     | 102471248 |
| 14 | G3/8 | 1.12 (28.5) | 1.12 (28.5) | 0.28 (7) | 0.85 (21.5) | 0.81 (20.5) | 0.80 (20.2) | (17) | (19) | 1.87 (53)     | 102471438 |
| 14 | G1/2 | 1.12 (28.5) | 1.20 (30.5) | 0.31 (8) | 0.85 (21.5) | 0.98 (24.8) | 0.80 (20.2) | (17) | (22) | 2.15 (61)     | 102471448 |

## Extended swivel elbow adaptor, Metric O/D tube to BSP taper

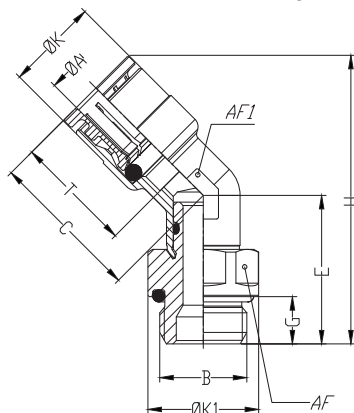
### 10154



| ØA | B    | C           | E           | G           | ØK          | ØK1         | T           | AF   | AF1  | Weight oz (g) | Model     |
|----|------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|---------------|-----------|
| 6  | R1/8 | 0.79 (20)   | 1.44 (36.5) | 0.30 (7.5)  | 0.50 (12.7) | 0.52 (13.2) | 0.63 (16)   | (9)  | (12) | 0.88 (25)     | 101540618 |
| 6  | R1/4 | 0.79 (20)   | 1.61 (41)   | 0.43 (11)   | 0.50 (12.7) | 0.52 (13.2) | 0.63 (16)   | (9)  | (14) | 1.05 (30)     | 101540628 |
| 8  | R1/8 | 0.89 (22.5) | 1.59 (40.5) | 0.30 (7.5)  | 0.56 (14.2) | 0.52 (13.2) | 0.69 (17.5) | (11) | (12) | 1.23 (35)     | 101540818 |
| 8  | R1/4 | 0.89 (22.5) | 1.75 (44.5) | 0.43 (11)   | 0.56 (14.2) | 0.52 (13.2) | 0.69 (17.5) | (11) | (14) | 1.34 (38)     | 101540828 |
| 8  | R3/8 | 0.89 (22.5) | 1.93 (49)   | 0.45 (11.5) | 0.56 (14.2) | 0.81 (20.5) | 0.69 (17.5) | (19) | (19) | 2.01 (57)     | 101541038 |

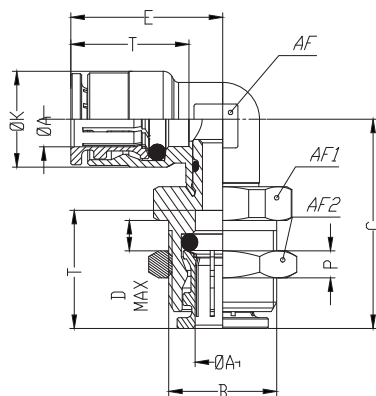
### 45° Swivel elbow adaptor, Metric O/D tube to BSP parallel 10257

Dimensions in inches (mm)  
Projection/First angle



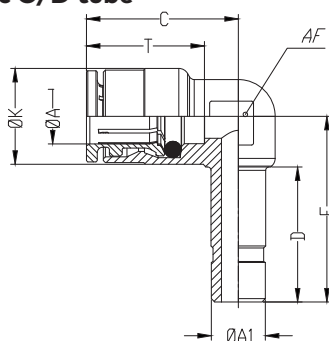
| ØA | B    | C           | E         | G        | H           | ØK          | ØK1         | T           | AF   | AF1  | Weight oz (g) | Model     |
|----|------|-------------|-----------|----------|-------------|-------------|-------------|-------------|------|------|---------------|-----------|
| 6  | G1/8 | 0.81 (20.5) | 0.79 (20) | 0.24 (6) | 1.56 (39.5) | 0.50 (12.7) | 0.53 (13.5) | 0.63 (16)   | (12) | (11) | 0.78 (22)     | 102570618 |
| 6  | G1/4 | 0.81 (20.5) | 0.87 (22) | 0.28 (7) | 1.59 (40.5) | 0.50 (12.7) | 0.65 (16.4) | 0.63 (16)   | (15) | (11) | 0.99 (28)     | 102570628 |
| 8  | G1/8 | 0.89 (22.5) | 0.79 (20) | 0.24 (6) | 1.61 (41)   | 0.56 (14.2) | 0.53 (13.5) | 0.69 (17.5) | (12) | (11) | 0.85 (24)     | 102570818 |
| 8  | G1/4 | 0.89 (22.5) | 0.87 (22) | 0.28 (7) | 1.67 (42.5) | 0.56 (14.2) | 0.65 (16.4) | 0.69 (17.5) | (15) | (11) | 1.02 (29)     | 102570828 |

### Bulkhead swivel elbow connector Metric O/D tube 10049



| ØA | B     | C           | D          | E           | ØK          | P          | T           | AF   | AF1  | AF2  | Weight oz (g) | Model     |
|----|-------|-------------|------------|-------------|-------------|------------|-------------|------|------|------|---------------|-----------|
| 4  | M10X1 | 1.00 (25.5) | 0.28 (7)   | 0.69 (17.5) | 0.35 (9)    | 0.16 (4)   | 0.55 (14)   | (8)  | (14) | (14) | 0.81 (23)     | 100490400 |
| 6  | M14X1 | 1.04 (26.5) | 0.28 (7)   | 0.79 (20)   | 0.50 (12.7) | 0.16 (4)   | 0.63 (16)   | (9)  | (17) | (17) | 1.27 (36)     | 100490600 |
| 8  | M16X1 | 1.12 (28.5) | 0.31 (8)   | 0.89 (22.5) | 0.56 (14.2) | 0.16 (4)   | 0.69 (17.5) | (11) | (19) | (19) | 1.59 (45)     | 100490800 |
| 10 | M18X1 | 1.32 (33.5) | 0.37 (9.5) | 1.02 (26)   | 0.65 (16.5) | 0.18 (4.5) | 0.80 (20.2) | (13) | (22) | (22) | 2.30 (65)     | 100491000 |
| 12 | M20X1 | 1.46 (37)   | 0.51 (13)  | 1.04 (26.5) | 0.77 (19.5) | 0.18 (4.5) | 0.76 (19.2) | (15) | (24) | (24) | 2.93 (83)     | 100491200 |

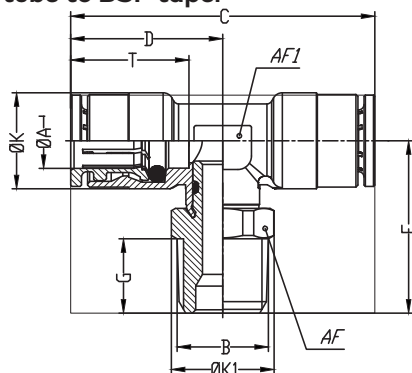
### Stem elbow connector Metric O/D tube 10043



| ØA | ØA1      | C           | D           | E           | ØK          | T           | AF   | Weight oz (g) | Model     |
|----|----------|-------------|-------------|-------------|-------------|-------------|------|---------------|-----------|
| 4  | 0.16 (4) | 0.69 (17.5) | 0.65 (16.5) | 0.87 (22)   | 0.35 (9)    | 0.55 (14)   | (8)  | 0.28 (8)      | 100430400 |
| 6  | 0.24 (6) | 0.79 (20)   | 0.71 (18)   | 0.96 (24.5) | 0.50 (12.7) | 0.63 (16)   | (9)  | 0.49 (14)     | 100430600 |
| 8  | 0.31 (8) | 0.89 (22.5) | 0.79 (20)   | 1.08 (27.5) | 0.56 (14.2) | 0.69 (17.5) | (11) | 0.74 (21)     | 100430800 |

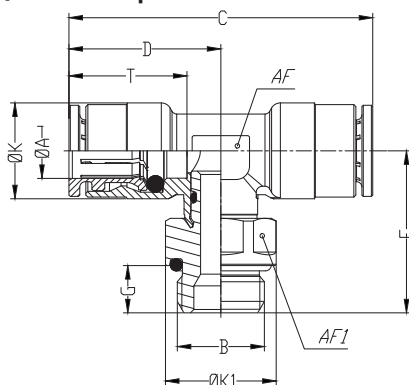
## Swivel tee adaptor, Metric O/D tube to BSP taper 10167

Dimensions in inches (mm)  
Projection/First angle



| ØA | B    | C         | E           | F           | G           | ØK          | ØK1         | T           | AF   | AF1  | Weight oz (g) | Model     |
|----|------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|---------------|-----------|
| 4  | R1/8 | 1.38 (35) | 0.52 (13.2) | 0.81 (20.5) | 0.69 (17.5) | 0.30 (7.5)  | 0.55 (14)   | 0.35 (9)    | (12) | (8)  | 0.67 (19)     | 101670418 |
| 6  | R1/8 | 1.57 (40) | 0.52 (13.2) | 0.83 (21)   | 0.79 (20)   | 0.30 (7.5)  | 0.63 (16)   | 0.50 (12.7) | (12) | (9)  | 1.02 (29)     | 101670618 |
| 6  | R1/4 | 1.57 (40) | 0.60 (15.2) | 0.96 (24.5) | 0.79 (20)   | 0.43 (11)   | 0.63 (16)   | 0.50 (12.7) | (14) | (9)  | 1.09 (31)     | 101670628 |
| 8  | R1/8 | 1.77 (45) | 0.52 (13.2) | 0.87 (22)   | 0.89 (22.5) | 0.30 (7.5)  | 0.69 (17.5) | 0.56 (14.2) | (12) | (11) | 1.31 (37)     | 101670818 |
| 8  | R1/4 | 1.77 (45) | 0.60 (15.2) | 1.00 (25.5) | 0.89 (22.5) | 0.43 (11)   | 0.69 (17.5) | 0.56 (14.2) | (14) | (11) | 1.41 (40)     | 101670828 |
| 8  | R3/8 | 1.77 (45) | 0.81 (20.5) | 1.06 (27)   | 0.89 (22.5) | 0.45 (11.5) | 0.69 (17.5) | 0.56 (14.2) | (19) | (11) | 2.01 (57)     | 101670838 |
| 10 | R1/4 | 2.05 (52) | 0.60 (15.2) | 1.10 (28)   | 1.02 (26)   | 0.43 (11)   | 0.80 (20.2) | 0.65 (16.5) | (14) | (13) | 2.11 (60)     | 101671028 |
| 10 | R3/8 | 2.05 (52) | 0.81 (20.5) | 1.14 (29)   | 1.02 (26)   | 0.45 (11.5) | 0.80 (20.2) | 0.65 (16.5) | (19) | (13) | 2.19 (62)     | 101671038 |
| 10 | R1/2 | 2.05 (52) | 0.96 (24.5) | 1.26 (32)   | 1.02 (26)   | 0.55 (14)   | 0.80 (20.2) | 0.65 (16.5) | (22) | (13) | 2.47 (70)     | 101671048 |
| 12 | R1/4 | 2.09 (53) | 0.73 (18.5) | 1.16 (29.5) | 1.04 (26.5) | 0.43 (11)   | 0.76 (19.2) | 0.77 (19.5) | (17) | (15) | 2.11 (60)     | 101671228 |
| 12 | R3/8 | 2.09 (53) | 0.81 (20.5) | 1.18 (30)   | 1.04 (26.5) | 0.45 (11.5) | 0.76 (19.2) | 0.77 (19.5) | (19) | (15) | 2.36 (67)     | 101671238 |
| 12 | R1/2 | 2.09 (53) | 0.98 (24.8) | 1.30 (33)   | 1.04 (26.5) | 0.55 (14)   | 0.76 (19.2) | 0.77 (19.5) | (22) | (15) | 2.72 (77)     | 101671248 |
| 14 | R3/8 | 2.24 (57) | 0.81 (20.5) | 1.22 (31)   | 1.12 (28.5) | 0.45 (11.5) | 0.80 (20.2) | 0.85 (21.5) | (19) | (17) | 2.61 (74)     | 101671438 |
| 14 | R1/2 | 2.24 (57) | 0.96 (24.5) | 1.34 (34)   | 1.12 (28.5) | 0.55 (14)   | 0.80 (20.2) | 0.85 (21.5) | (22) | (17) | 3.25 (92)     | 101671448 |

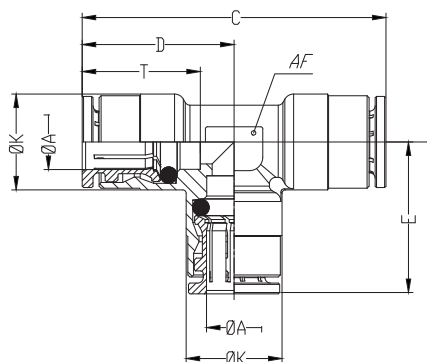
## Swivel tee adaptor, Metric O/D to BSP parallel 10267



| ØA | B    | C         | D           | E           | G        | ØK          | ØK1         | T           | AF   | AF1  | Weight oz (g) | Model     |
|----|------|-----------|-------------|-------------|----------|-------------|-------------|-------------|------|------|---------------|-----------|
| 4  | M5   | 1.38 (35) | 0.69 (17.5) | 0.67 (17)   | 0.16 (4) | 0.35 (9)    | 0.35 (8.8)  | 0.55 (14)   | (8)  | (8)  | 0.49 (14)     | 102670405 |
| 4  | G1/8 | 1.38 (35) | 0.69 (17.5) | 0.81 (20.5) | 0.24 (6) | 0.35 (9)    | 0.53 (13.5) | 0.55 (14)   | (8)  | (12) | 0.67 (19)     | 102670418 |
| 6  | M5   | 1.57 (40) | 0.79 (20)   | 0.69 (17.5) | 0.16 (4) | 0.50 (12.7) | 0.43 (10.9) | 0.63 (16)   | (9)  | (10) | 0.99 (28)     | 102670605 |
| 6  | G1/8 | 1.57 (40) | 0.79 (20)   | 0.83 (21)   | 0.24 (6) | 0.50 (12.7) | 0.53 (13.5) | 0.63 (16)   | (9)  | (12) | 1.02 (29)     | 102670618 |
| 6  | G1/4 | 1.57 (40) | 0.79 (20)   | 0.91 (23)   | 0.28 (7) | 0.50 (12.7) | 0.65 (16.4) | 0.63 (16)   | (9)  | (15) | 1.06 (30)     | 102670628 |
| 8  | G1/8 | 1.77 (45) | 0.89 (22.5) | 0.87 (22)   | 0.24 (6) | 0.56 (14.2) | 0.53 (13.5) | 0.69 (17.5) | (11) | (12) | 1.31 (37)     | 102670818 |
| 8  | G1/4 | 1.77 (45) | 0.89 (22.5) | 0.94 (24)   | 0.28 (7) | 0.56 (14.2) | 0.64 (16.4) | 0.69 (17.5) | (11) | (15) | 1.38 (39)     | 102670828 |
| 8  | G3/8 | 1.77 (45) | 0.89 (22.5) | 0.94 (24)   | 0.28 (7) | 0.56 (14.2) | 0.81 (20.5) | 0.69 (17.5) | (11) | (19) | 1.94 (55)     | 102670838 |
| 10 | G1/4 | 2.05 (52) | 1.02 (26)   | 1.04 (26.5) | 0.28 (7) | 0.65 (16.5) | 0.64 (16.4) | 0.80 (20.2) | (13) | (15) | 2.08 (59)     | 102671028 |
| 10 | G3/8 | 2.05 (52) | 1.02 (26)   | 1.04 (26.5) | 0.28 (7) | 0.65 (16.5) | 0.81 (20.5) | 0.80 (20.2) | (13) | (19) | 1.98 (56)     | 102671038 |
| 10 | G1/2 | 2.05 (52) | 1.02 (26)   | 1.12 (28.5) | 0.31 (8) | 0.65 (16.5) | 0.98 (24.8) | 0.80 (20.2) | (13) | (22) | 2.05 (58)     | 102671048 |
| 12 | G1/4 | 2.09 (53) | 1.04 (26.5) | 1.06 (27)   | 0.28 (7) | 0.77 (19.5) | 0.73 (18.5) | 0.76 (19.2) | (15) | (17) | 2.12 (60)     | 102671228 |
| 12 | G3/8 | 2.09 (53) | 1.04 (26.5) | 1.08 (27.5) | 0.28 (7) | 0.77 (19.5) | 0.81 (20.5) | 0.76 (19.2) | (15) | (19) | 2.29 (65)     | 102671238 |
| 14 | G3/8 | 2.24 (57) | 1.12 (28.5) | 1.12 (28.5) | 0.28 (7) | 0.85 (21.5) | 0.81 (20.5) | 0.80 (20.2) | (17) | (19) | 2.40 (68)     | 102671438 |
| 14 | G1/2 | 2.24 (57) | 1.12 (28.5) | 1.20 (30.5) | 0.31 (8) | 0.85 (21.5) | 0.98 (24.8) | 0.80 (20.2) | (17) | (22) | 2.82 (80)     | 102671448 |

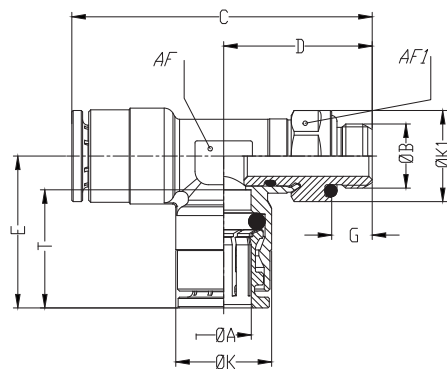
## Tee connector Metric O/D tube 10060

Dimensions in inches (mm)  
Projection/First angle



| ØA | C         | D           | E           | ØK          | T           | AF   | Weight oz (g) | Model     |
|----|-----------|-------------|-------------|-------------|-------------|------|---------------|-----------|
| 4  | 1.38 (35) | 0.69 (17.5) | 0.69 (17.5) | 0.35 (9)    | 0.55 (14)   | (8)  | 0.49 (14)     | 100600400 |
| 5  | 1.61 (41) | 0.81 (20.5) | 0.81 (20.5) | 0.39 (10)   | 0.59 (15)   | (9)  | 0.74 (21)     | 100600500 |
| 6  | 1.57 (40) | 0.79 (20)   | 0.79 (20)   | 0.50 (12.7) | 0.63 (16)   | (9)  | 0.85 (24)     | 100600600 |
| 8  | 1.77 (45) | 0.89 (22.5) | 0.89 (22.5) | 0.56 (14.2) | 0.69 (17.5) | (11) | 1.12 (32)     | 100600800 |
| 10 | 2.05 (52) | 1.02 (26)   | 1.02 (26)   | 0.65 (16.5) | 0.80 (20.2) | (13) | 1.52 (43)     | 100601000 |
| 12 | 2.09 (53) | 1.04 (26.5) | 1.04 (26.5) | 0.77 (19.5) | 0.76 (19.2) | (15) | 2.12 (60)     | 100601200 |
| 14 | 2.24 (57) | 1.12 (28.5) | 1.12 (28.5) | 0.85 (21.5) | 0.80 (20.2) | (17) | 2.65 (75)     | 100601400 |

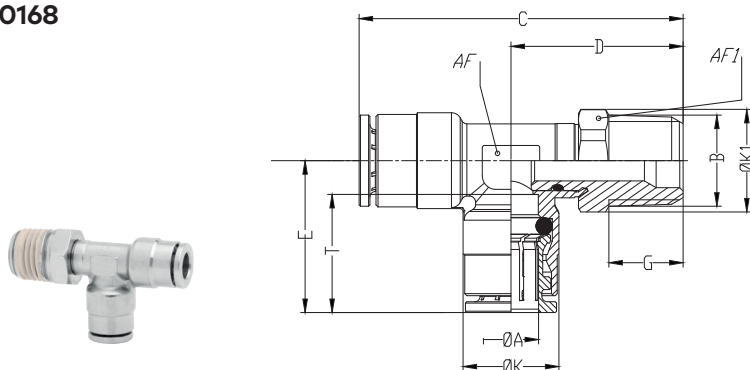
## Swivel side tee adaptor, Metric O/D tube to BSP parallel 10268



| ØA | B    | C           | D           | E           | G        | ØK          | ØK1         | T           | AF   | AF1  | Weight oz (g) | Model     |
|----|------|-------------|-------------|-------------|----------|-------------|-------------|-------------|------|------|---------------|-----------|
| 4  | M5   | 1.36 (34.5) | 0.67 (17)   | 0.69 (17.5) | 0.16 (4) | 0.35 (9)    | 0.35 (8.8)  | 0.55 (14)   | (8)  | (8)  | 0.63 (18)     | 102680405 |
| 4  | G1/8 | 1.50 (38)   | 0.83 (21)   | 0.69 (17.5) | 0.24 (6) | 0.35 (9)    | 0.53 (13.5) | 0.55 (14)   | (8)  | (12) | 0.67 (19)     | 102680418 |
| 6  | G1/8 | 1.61 (41)   | 0.91 (23)   | 0.79 (20)   | 0.24 (6) | 0.50 (12.7) | 0.53 (13.5) | 0.63 (16)   | (9)  | (12) | 0.92 (26)     | 102680618 |
| 6  | G1/4 | 1.69 (43)   | 0.89 (22.5) | 0.79 (20)   | 0.28 (7) | 0.50 (12.7) | 0.65 (16.4) | 0.63 (16)   | (9)  | (15) | 1.27 (36)     | 102680628 |
| 8  | G1/8 | 1.75 (44.5) | 0.87 (22)   | 0.89 (22.5) | 0.24 (6) | 0.56 (14.2) | 0.53 (13.5) | 0.69 (17.5) | (11) | (12) | 1.09 (31)     | 102680818 |
| 8  | G1/4 | 1.83 (46.5) | 0.94 (24)   | 0.89 (22.5) | 0.28 (7) | 0.56 (14.2) | 0.65 (16.4) | 0.69 (17.5) | (11) | (15) | 1.48 (42)     | 102680828 |
| 8  | G3/8 | 1.83 (46.5) | 0.94 (24)   | 0.89 (22.5) | 0.28 (7) | 0.56 (14.2) | 0.81 (20.5) | 0.69 (17.5) | (11) | (19) | 1.76 (50)     | 102680838 |
| 10 | G1/4 | 2.07 (52.5) | 1.04 (26.5) | 1.02 (26)   | 0.28 (7) | 0.65 (16.5) | 0.65 (16.4) | 0.80 (20.2) | (13) | (15) | 1.62 (46)     | 102681028 |
| 10 | G3/8 | 2.07 (52.5) | 1.04 (26.5) | 1.02 (26)   | 0.28 (7) | 0.65 (16.5) | 0.81 (20.5) | 0.80 (20.2) | (13) | (19) | 2.33 (66)     | 102681038 |
| 12 | G1/4 | 2.10 (53.5) | 1.06 (27)   | 1.04 (26.5) | 0.28 (7) | 0.77 (19.5) | 0.73 (18.5) | 0.76 (19.2) | (15) | (17) | 2.6 (73)      | 102681228 |
| 12 | G3/8 | 2.12 (54)   | 1.08 (27.5) | 1.04 (26.5) | 0.28 (7) | 0.77 (19.5) | 0.81 (20.5) | 0.76 (19.2) | (15) | (19) | 2.26 (64)     | 102681238 |
| 12 | G1/2 | 2.20 (56)   | 1.16 (29.5) | 1.04 (26.5) | 0.31 (8) | 0.77 (19.5) | 0.98 (24.8) | 0.76 (19.2) | (15) | (22) | 2.40 (68)     | 102681248 |

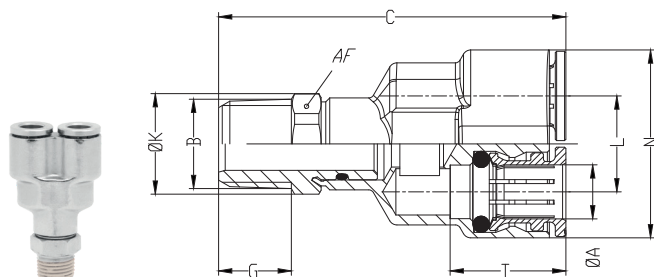
## Swivel side tee adaptor, Metric to O/D tube to BSP taper 10168

Dimensions in inches (mm)  
Projection/First angle



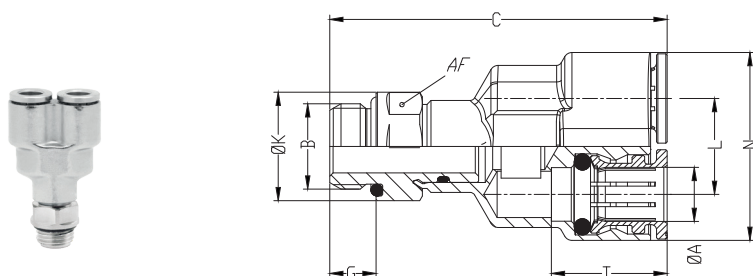
| ØA | B    | C           | D           | E           | G           | ØK          | ØK1         | T           | AF   | AF1  | Weight oz (g) | Model     |
|----|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|---------------|-----------|
| 4  | R1/8 | 1.50 (38)   | 0.81 (20.5) | 0.69 (17.5) | 0.30 (7.5)  | 0.35 (9)    | 0.47 (13.2) | 0.55 (14)   | (8)  | (12) | 0.67 (19)     | 101680418 |
| 6  | R1/8 | 1.61 (41)   | 0.83 (21)   | 0.79 (20)   | 0.30 (7.5)  | 0.50 (12.7) | 0.47 (13.2) | 0.63 (16)   | (9)  | (12) | 0.92 (26)     | 101680618 |
| 6  | R1/4 | 1.75 (44.5) | 0.96 (24.5) | 0.79 (20)   | 0.43 (11)   | 0.50 (12.7) | 0.54 (15.2) | 0.63 (16)   | (9)  | (14) | 1.27 (36)     | 101680628 |
| 8  | R1/8 | 1.75 (44.5) | 0.87 (22)   | 0.89 (22.5) | 0.30 (7.5)  | 0.56 (14.2) | 0.47 (13.2) | 0.69 (17.5) | (11) | (12) | 1.09 (31)     | 101680818 |
| 8  | R1/4 | 1.89 (48)   | 1.00 (25.5) | 0.89 (22.5) | 0.43 (11)   | 0.56 (14.2) | 0.54 (15.2) | 0.69 (17.5) | (11) | (14) | 1.52 (43)     | 101680828 |
| 8  | R3/8 | 1.95 (49.5) | 1.06 (27)   | 0.89 (22.5) | 0.45 (11.5) | 0.56 (14.2) | 0.72 (20.5) | 0.69 (17.5) | (11) | (19) | 1.83 (52)     | 101680838 |
| 10 | R1/4 | 2.13 (54)   | 1.10 (28)   | 1.02 (26)   | 0.43 (11)   | 0.65 (16.5) | 0.54 (15.2) | 0.80 (20.2) | (13) | (14) | 1.66 (47)     | 101681028 |
| 10 | R3/8 | 2.17 (55)   | 1.14 (29)   | 1.02 (26)   | 0.45 (11.5) | 0.65 (16.5) | 0.72 (20.5) | 0.80 (20.2) | (13) | (19) | 2.54 (72)     | 101681038 |
| 12 | R1/4 | 2.20 (56)   | 1.16 (29.5) | 1.04 (26.5) | 0.43 (11)   | 0.77 (19.5) | 0.65 (18.5) | 0.76 (19.2) | (15) | (17) | 2.58 (73)     | 101681228 |
| 12 | R3/8 | 2.22 (56.5) | 1.18 (30)   | 1.04 (26.5) | 0.45 (11.5) | 0.77 (19.5) | 0.72 (20.5) | 0.76 (19.2) | (15) | (19) | 2.33 (66)     | 101681238 |
| 12 | R1/2 | 2.34 (59.5) | 1.30 (33)   | 1.04 (26.5) | 0.55 (14)   | 0.77 (19.5) | 0.87 (24.8) | 0.76 (19.2) | (15) | (22) | 3.00 (85)     | 101681248 |

## Swivel Y-adaptor, Metric O/D tube to BSP taper 10188



| ØA | B    | C           | G          | ØK          | L           | N           | T           | AF   | Weight oz (g) | Model     |
|----|------|-------------|------------|-------------|-------------|-------------|-------------|------|---------------|-----------|
| 6  | R1/8 | 1.65 (42)   | 0.30 (7.5) | 0.52 (13.2) | 0.49 (12.5) | 0.96 (24.5) | 0.63 (16)   | (12) | 1.05 (30)     | 101880618 |
| 6  | R1/4 | 1.79 (45.5) | 0.43 (11)  | 0.60 (15.2) | 0.49 (12.5) | 0.96 (24.5) | 0.63 (16)   | (14) | 1.34 (38)     | 101880628 |
| 8  | R1/4 | 2.07 (52.5) | 0.43 (11)  | 0.60 (15.2) | 0.57 (14.5) | 1.12 (28.5) | 0.69 (17.5) | (14) | 1.66 (47)     | 101880828 |

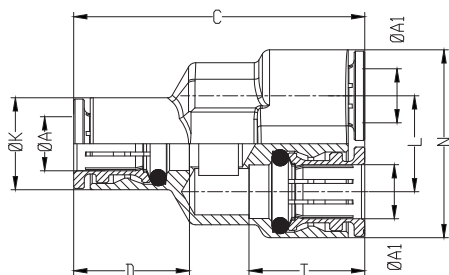
## Swivel Y-adaptor, Metric O/D tube to BSP parallel 10288



| ØA | B    | C         | G        | ØK          | L           | N           | T           | AF   | Weight oz (g) | Model     |
|----|------|-----------|----------|-------------|-------------|-------------|-------------|------|---------------|-----------|
| 6  | G1/8 | 1.65 (42) | 0.24 (6) | 0.53 (13.5) | 0.49 (12.5) | 0.96 (24.5) | 0.63 (16)   | (12) | 1.05 (30)     | 102880618 |
| 6  | G1/4 | 1.73 (44) | 0.28 (7) | 0.65 (16.4) | 0.49 (12.5) | 0.96 (24.5) | 0.63 (16)   | (15) | 1.31 (37)     | 102880628 |
| 8  | G1/4 | 2.00 (51) | 0.28 (7) | 0.65 (16.4) | 0.57 (14.5) | 1.12 (28.5) | 0.69 (17.5) | (15) | 1.62 (46)     | 102880828 |

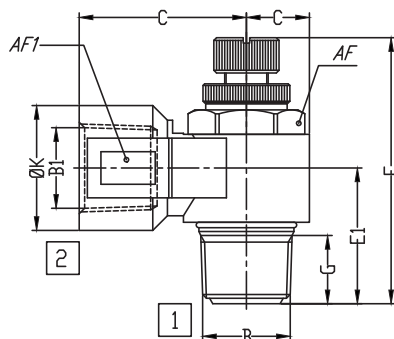
## Y-Connector Metric O/D tube 10082

Dimensions in inches (mm)  
Projection/First angle



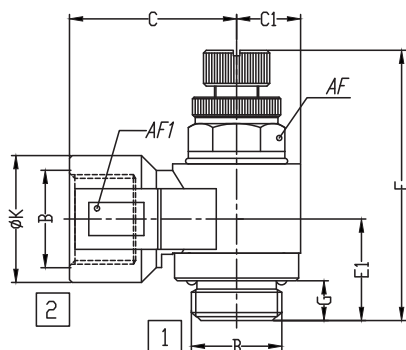
| ØA | ØA1 | C           | D           | ØK        | L           | N           | T           | Weight oz (g) | Model     |
|----|-----|-------------|-------------|-----------|-------------|-------------|-------------|---------------|-----------|
| 4  | 4   | 1.30 (33)   | 0.55 (14)   | 0.35 (9)  | 0.35 (9)    | 0.71 (18)   | 0.55 (14)   | 0.67 (19)     | 100820400 |
| 6  | 6   | 1.54 (39)   | 0.63 (16)   | 0.47 (12) | 0.49 (12.5) | 0.96 (24.5) | 0.63 (16)   | 1.06 (30)     | 100820600 |
| 6  | 4   | 1.46 (37)   | 0.63 (16)   | 0.47 (12) | 0.43 (11)   | 0.96 (24.5) | 0.63 (16)   | 1.31 (37)     | 100820604 |
| 8  | 8   | 1.73 (44)   | 0.69 (17.5) | 0.55 (14) | 0.57 (14.5) | 1.12 (28.5) | 0.69 (17.5) | 1.48 (42)     | 100820800 |
| 8  | 6   | 1.69 (43)   | 0.69 (17.5) | 0.55 (14) | 0.57 (14.5) | 1.12 (28.5) | 0.69 (17.5) | 1.76 (50)     | 100820806 |
| 10 | 10  | 2.11 (53.5) | 0.80 (20.2) | 0.63 (16) | 0.63 (16)   | 1.26 (32)   | 0.80 (20.2) | 2.22 (63)     | 100821000 |
| 10 | 8   | 2.05 (52)   | 0.80 (20.2) | 0.63 (16) | 0.63 (16)   | 1.26 (32)   | 0.80 (20.2) | 2.33 (66)     | 100821008 |

## Elbow flow control, regulating out, BSP taper (Aluminum body) 10TA0



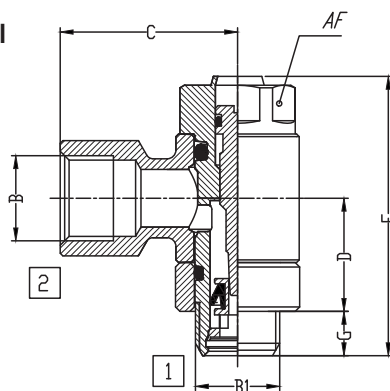
| B    | B1    | C           | C1          | E Max       | E1          | G           | ØK          | AF   | AF1  | Weight oz (g) | Model     |
|------|-------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|---------------|-----------|
| R1/8 | Rc1/8 | 0.72 (18.2) | 0.29 (7.3)  | 1.60 (40.7) | 0.63 (16)   | 0.30 (7.6)  | 0.57 (14.5) | (12) | (15) | 1.06 (30)     | 10TA01818 |
| R1/4 | Rc1/4 | 1.04 (26.5) | 0.37 (9.5)  | 1.83 (46.6) | 0.83 (21.1) | 0.42 (10.6) | 0.71 (18)   | (15) | (19) | 2.12 (60)     | 10TA02828 |
| R3/8 | Rc3/8 | 1.21 (30.8) | 0.46 (11.6) | 2.16 (54.9) | 0.98 (25)   | 0.50 (12.6) | 0.91 (23)   | (19) | (24) | 3.77 (107)    | 10TA03838 |
| R1/2 | Rc1/2 | 1.52 (38.7) | 0.55 (14)   | 2.37 (60.1) | 1.46 (29.1) | 0.57 (14.5) | 1.04 (26.5) | (24) | (28) | 6.00 (170)    | 10TA04848 |

## Elbow flow control, regulating out, BSP parallel (Aluminum body) 10KA0



| B    | C           | C1          | E Max       | E1          | G        | ØK          | AF   | AF1  | Weight oz (g) | Model     |
|------|-------------|-------------|-------------|-------------|----------|-------------|------|------|---------------|-----------|
| G1/8 | 0.70 (17.7) | 0.29 (7.3)  | 1.60 (40.7) | 0.58 (14.8) | 0.24 (6) | 0.57 (14.5) | (8)  | (15) | 1.09 (31)     | 10KA01818 |
| G1/4 | 1.02 (26)   | 0.37 (9.5)  | 1.83 (46.6) | 0.62 (15.8) | 0.31 (8) | 0.71 (18)   | (12) | (19) | 2.33 (66)     | 10KA02828 |
| G3/8 | 1.19 (30.3) | 0.46 (11.6) | 2.16 (54.9) | 0.72 (18.4) | 0.31 (8) | 0.91 (23)   | (15) | (24) | 4.13 (117)    | 10KA03838 |
| G1/2 | 1.50 (38.2) | 0.55 (14)   | 2.37 (60.1) | 0.87 (22.1) | 0.35 (9) | 1.04 (26.5) | (19) | (28) | 6.35 (180)    | 10KA04848 |

### Elbow banjo assembly Regulating-out BSP parallel 16K51

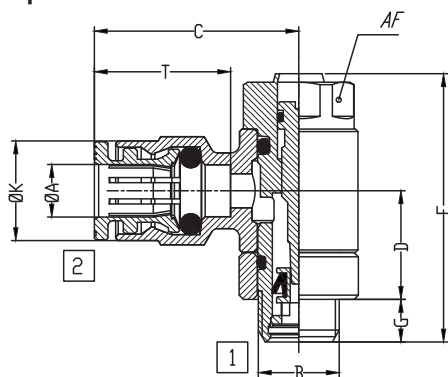


Dimensions in inches (mm)  
Projection/First angle



| B    | B1   | C           | D           | E           | G        | AF   | Weight oz (g) | Model     |
|------|------|-------------|-------------|-------------|----------|------|---------------|-----------|
| G1/8 | G1/8 | 0.79 (20)   | 0.49 (12.5) | 1.24 (31.5) | 0.20 (5) | (12) | 1.06 (30)     | 16K511818 |
| G1/4 | G1/4 | 0.93 (23.5) | 0.49 (12.5) | 1.28 (32.5) | 0.24 (6) | (15) | 1.66 (47)     | 16K512828 |
| G3/8 | G3/8 | 1.04 (26.5) | 0.49 (12.5) | 1.65 (42)   | 0.31 (8) | (19) | 2.61 (74)     | 16K513838 |
| G1/2 | G1/2 | 1.36 (34.5) | 0.96 (24.5) | 2.78 (70.5) | 0.31 (8) | (27) | 8.29 (235)    | 16K514848 |

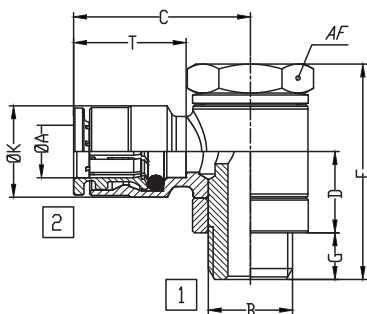
### Banjo flow control, regulating out, BSP parallel to tube push-in 10K51



| ØA | B    | C           | D           | E           | ØK          | G          | T           | AF   | Weight oz (g) | Model     |
|----|------|-------------|-------------|-------------|-------------|------------|-------------|------|---------------|-----------|
| 4  | M5   | 0.71 (18)   | 0.20 (5)    | 0.85 (21.5) | 0.34 (8.6)  | 0.14 (3.5) | 0.55 (14)   | (8)  | 0.39 (11)     | 10K510405 |
| 4  | G1/8 | 0.85 (21.5) | 0.49 (12.5) | 1.24 (31.5) | 0.35 (9)    | 0.20 (5)   | 0.55 (14)   | (12) | 1.02 (29)     | 10K510418 |
| 6  | M5   | 0.75 (19)   | 0.20 (5)    | 0.85 (21.5) | 0.41 (10.4) | 0.14 (3.5) | 0.59 (15)   | (8)  | 0.42 (12)     | 10K510605 |
| 6  | G1/8 | 0.94 (24)   | 0.49 (12.5) | 1.24 (31.5) | 0.50 (12.7) | 0.20 (5)   | 0.63 (16)   | (12) | 1.09 (31)     | 10K510618 |
| 6  | G1/4 | 1.02 (26)   | 0.49 (12.5) | 1.28 (32.5) | 0.50 (12.7) | 0.24 (6)   | 0.63 (16)   | (15) | 1.55 (44)     | 10K510628 |
| 8  | G1/8 | 1.00 (25.5) | 0.49 (12.5) | 1.24 (31.5) | 0.56 (14.2) | 0.20 (5)   | 0.67 (17)   | (12) | 1.20 (34)     | 10K510818 |
| 8  | G1/4 | 1.08 (27.5) | 0.49 (12.5) | 1.28 (32.5) | 0.56 (14.2) | 0.24 (6)   | 0.67 (17)   | (15) | 1.66 (47)     | 10K510828 |
| 8  | G3/8 | 1.12 (28.5) | 0.49 (12.5) | 1.59 (40.5) | 0.56 (14.2) | 0.31 (8)   | 0.67 (17)   | (18) | 2.40 (68)     | 10K510838 |
| 10 | G1/4 | 1.14 (29)   | 0.49 (12.5) | 1.28 (32.5) | 0.65 (16.5) | 0.24 (6)   | 0.80 (20.2) | (15) | 1.66 (47)     | 10K511028 |
| 10 | G3/8 | 1.20 (30.5) | 0.49 (12.5) | 1.59 (40.5) | 0.65 (16.5) | 0.31 (8)   | 0.80 (20.2) | (18) | 2.40 (68)     | 10K511038 |
| 12 | G3/8 | 1.16 (29.5) | 0.49 (12.5) | 1.59 (40.5) | 0.77 (19.5) | 0.31 (8)   | 0.76 (19.2) | (18) | 2.79 (79)     | 10K511238 |
| 12 | G1/2 | 1.28 (32.5) | 0.96 (24.5) | 2.95 (75)   | 0.77 (19.5) | 0.31 (8)   | 0.76 (19.2) | (27) | 6.42 (182)    | 10K511248 |

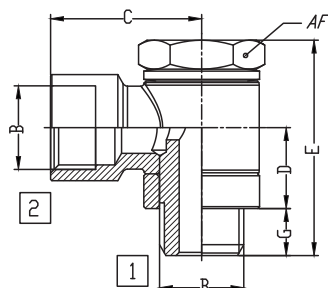
### Banjo elbow nonregulating, BSP parallel to tube push-in 10A51

Dimensions in inches (mm)  
Projection/First angle



| ØA | B    | C           | D           | E           | G        | ØK          | T           | AF   | Weight oz (g) | Model     |
|----|------|-------------|-------------|-------------|----------|-------------|-------------|------|---------------|-----------|
| 4  | M5   | 0.75 (19)   | 0.22 (5.5)  | 0.71 (18)   | 0.16 (4) | 0.35 (9)    | 0.55 (14)   | (8)  | 0.46 (13)     | 10A510405 |
| 4  | G1/8 | 0.85 (21.5) | 0.49 (12.5) | 1.22 (31)   | 0.24 (6) | 0.35 (9)    | 0.55 (14)   | (14) | 1.02 (29)     | 10A510418 |
| 6  | M5   | 0.89 (22.5) | 0.22 (5.5)  | 0.71 (18)   | 0.16 (4) | 0.50 (12.7) | 0.63 (16)   | (8)  | 0.56 (16)     | 10A510605 |
| 6  | G1/8 | 0.94 (24)   | 0.49 (12.5) | 1.22 (31)   | 0.24 (6) | 0.50 (12.7) | 0.63 (16)   | (14) | 1.09 (31)     | 10A510618 |
| 6  | G1/4 | 1.02 (26)   | 0.49 (12.5) | 1.32 (33.5) | 0.31 (8) | 0.50 (12.7) | 0.63 (16)   | (17) | 1.62 (46)     | 10A510628 |
| 8  | G1/8 | 1.00 (25.5) | 0.49 (12.5) | 1.22 (31)   | 0.24 (6) | 0.56 (14.2) | 0.69 (17.5) | (14) | 1.19 (34)     | 10A510818 |
| 8  | G1/4 | 1.08 (27.5) | 0.49 (12.5) | 1.32 (33.5) | 0.31 (8) | 0.56 (14.2) | 0.69 (17.5) | (17) | 1.73 (49)     | 10A510828 |
| 10 | G1/4 | 1.14 (29)   | 0.49 (12.5) | 1.32 (33.5) | 0.31 (8) | 0.65 (16.5) | 0.80 (20.2) | (17) | 1.73 (49)     | 10A511028 |
| 10 | G3/8 | 1.20 (30.5) | 0.49 (12.5) | 1.34 (34)   | 0.31 (8) | 0.65 (16.5) | 0.80 (20.2) | (19) | 2.12 (60)     | 10A511038 |

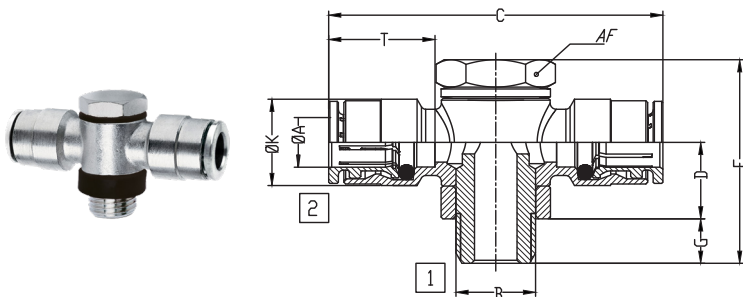
### Banjo elbow nonregulating, BSP parallel to BSP parallel 16A51



| B    | C           | D           | E           | G        | AF   | Weight oz (g) | Model     |
|------|-------------|-------------|-------------|----------|------|---------------|-----------|
| G1/8 | 0.79 (20)   | 0.49 (12.5) | 1.22 (31)   | 0.24 (6) | (14) | 1.02 (29)     | 16A511818 |
| G1/4 | 0.93 (23.5) | 0.49 (12.5) | 1.32 (33.5) | 0.31 (8) | (17) | 1.69 (48)     | 16A512828 |
| G3/8 | 1.04 (26.5) | 0.49 (12.5) | 1.34 (34)   | 0.31 (8) | (19) | 2.26 (64)     | 16A513838 |
| G1/2 | 1.34 (34)   | 0.49 (12.5) | 1.38 (35)   | 0.35 (9) | (27) | 3.67 (104)    | 16A514848 |

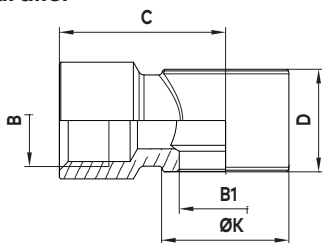
### Banjo tee, BSP parallel to tube push-in 10A71

Dimensions in inches (mm)  
Projection/First angle



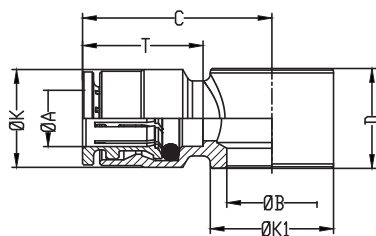
| ØA | B    | C         | E           | G           | ØK       | D           | T           | AF   | Weight oz (g) | Model     |
|----|------|-----------|-------------|-------------|----------|-------------|-------------|------|---------------|-----------|
| 6  | G1/8 | 1.89 (48) | 0.49 (12.5) | 1.22 (31)   | 0.24 (6) | 0.50 (12.7) | 0.63 (16)   | (14) | 1.09 (31)     | 10A710618 |
| 6  | G1/4 | 2.05 (52) | 0.49 (12.5) | 1.32 (33.5) | 0.31 (8) | 0.50 (12.7) | 0.63 (16)   | (17) | 1.62 (46)     | 10A710628 |
| 8  | G1/8 | 2.00 (51) | 0.49 (12.5) | 1.22 (31)   | 0.24 (6) | 0.56 (14.2) | 0.69 (17.5) | (14) | 1.20 (34)     | 10A710818 |
| 8  | G1/4 | 2.17 (55) | 0.49 (12.5) | 1.32 (33.5) | 0.31 (8) | 0.56 (14.2) | 0.69 (17.5) | (17) | 1.73 (49)     | 10A710828 |

### Banjo elbow body to BSP parallel 16051



| B    | ØB1         | ØK        | D           | C           | Weight oz (g) | Model      |
|------|-------------|-----------|-------------|-------------|---------------|------------|
| G1/8 | 0.38 (9.8)  | 0.55 (14) | 0.57 (14.5) | 0.79 (20)   | 0.49 (14)     | 160511818Z |
| G1/4 | 0.52 (13.2) | 0.71 (18) | 0.57 (14.5) | 0.93 (23.5) | 0.74 (21)     | 160512828Z |
| G3/8 | 0.66 (16.7) | 0.83 (21) | 0.57 (14.5) | 1.04 (26.5) | 0.95 (27)     | 160513838Z |
| G1/2 | 0.83 (21)   | 1.73 (44) | 0.57 (14.5) | 1.34 (34)   | 1.55 (44)     | 160514848Z |

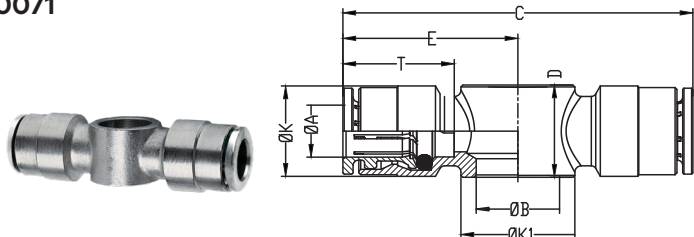
### Banjo elbow body to tube push-in 10051



| ØA | ØB          | C           | D           | ØK          | T           | ØK1       | Weight oz (g) | Model      |
|----|-------------|-------------|-------------|-------------|-------------|-----------|---------------|------------|
| 4  | 0.20 (5.1)  | 0.75 (19)   | 0.35 (9)    | 0.35 (8.8)  | 0.55 (14)   | 0.35 (9)  | 0.32 (9)      | 100510405Z |
| 4  | 0.39 (9.8)  | 0.85 (21.5) | 0.57 (14.5) | 0.35 (9)    | 0.55 (14)   | 0.55 (14) | 0.49 (14)     | 100510418Z |
| 6  | 0.20 (5.1)  | 0.89 (22.5) | 0.35 (9)    | 0.50 (12.7) | 0.63 (16)   | 0.39 (10) | 0.42 (12)     | 100510605Z |
| 6  | 0.39 (9.8)  | 0.94 (24)   | 0.57 (14.5) | 0.50 (12.7) | 0.63 (16)   | 0.55 (14) | 0.56 (16)     | 100510618Z |
| 6  | 0.52 (13.2) | 1.02 (26)   | 0.57 (14.5) | 0.50 (12.7) | 0.63 (16)   | 0.71 (18) | 0.67 (19)     | 100510628Z |
| 8  | 0.39 (9.8)  | 1.00 (25.5) | 0.57 (14.5) | 0.56 (14.2) | 0.69 (17.5) | 0.55 (14) | 0.67 (19)     | 100510818Z |
| 8  | 0.52 (13.2) | 1.08 (27.5) | 0.57 (14.5) | 0.56 (14.2) | 0.69 (17.5) | 0.71 (18) | 0.78 (22)     | 100510828Z |
| 8  | 0.66 (16.7) | 1.12 (28.5) | 0.57 (14.5) | 0.56 (14.2) | 0.69 (17.5) | 0.83 (21) | 0.81 (23)     | 100510838Z |
| 10 | 0.52 (13.2) | 1.14 (29)   | 0.57 (14.5) | 0.65 (16.5) | 0.80 (20.2) | 0.71 (18) | 0.78 (22)     | 100511028Z |
| 10 | 0.66 (16.7) | 1.20 (30.5) | 0.57 (14.5) | 0.65 (16.5) | 0.80 (20.2) | 0.83 (21) | 0.81 (23)     | 100511038Z |
| 12 | 0.66 (16.7) | 1.26 (32)   | 0.57 (14.5) | 0.77 (19.5) | 0.76 (19.2) | 0.83 (21) | 1.31 (37)     | 100511238Z |
| 12 | 0.83 (21)   | 1.26 (32)   | 0.57 (14.5) | 0.77 (19.5) | 0.76 (19.2) | 1.02 (26) | 1.31 (37)     | 100511248Z |

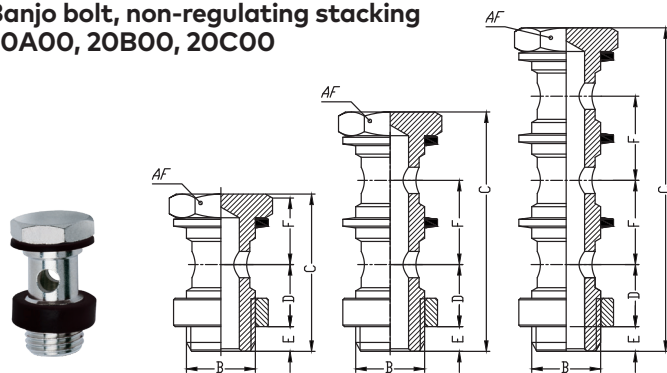
## Banjo tee body to tube push-in 10071

Dimensions in inches (mm)  
Projection/First angle



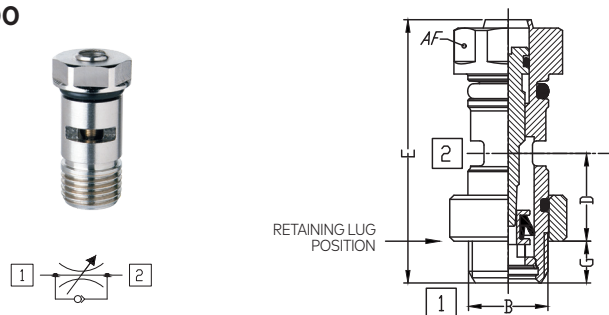
| ØA | ØB          | C         | E           | D           | ØK          | ØK1       | T           | Weight oz (g) | Model      |
|----|-------------|-----------|-------------|-------------|-------------|-----------|-------------|---------------|------------|
| 6  | 0.39 (9.8)  | 1.89 (48) | 0.57 (14.5) | 0.94 (24)   | 0.50 (12.7) | 0.55 (14) | 0.63 (16)   | 0.74 (21)     | 100710618Z |
| 6  | 0.52 (13.2) | 2.05 (52) | 0.57 (14.5) | 1.02 (26)   | 0.50 (12.7) | 0.70 (18) | 0.63 (16)   | 0.81 (23)     | 100710628Z |
| 8  | 0.39 (9.8)  | 2.01 (51) | 0.57 (14.5) | 1.00 (25.5) | 0.56 (14.2) | 0.55 (14) | 0.69 (17.5) | 0.74 (21)     | 100710818Z |
| 8  | 0.52 (13.2) | 2.17 (55) | 0.57 (14.5) | 1.08 (27.5) | 0.56 (14.2) | 0.70 (18) | 0.69 (17.5) | 0.78 (22)     | 100710828Z |

## Banjo bolt, non-regulating stacking 20A00, 20B00, 20C00



| B    | C           | D           | E        | F         | AF   | Type   | Weight oz (g) | Model      |
|------|-------------|-------------|----------|-----------|------|--------|---------------|------------|
| M5   | 0.71 (18)   | 0.22 (5.5)  | 0.16 (4) | -         | (8)  | Single | 0.14 (4)      | 20A000005Z |
| G1/8 | 1.22 (31)   | 0.49 (12.5) | 0.24 (6) | -         | (14) | Single | 0.53 (15)     | 20A000018Z |
| G1/4 | 1.32 (33.5) | 0.49 (12.5) | 0.31 (8) | -         | (17) | Single | 0.95 (27)     | 20A000028Z |
| G3/8 | 1.34 (34)   | 0.49 (12.5) | 0.31 (8) | -         | (19) | Single | 1.31 (37)     | 20A000038Z |
| G1/2 | 1.38 (35)   | 0.49 (12.5) | 0.35 (9) | -         | (27) | Single | 2.12 (60)     | 20A000048Z |
| G1/8 | 2.20 (56)   | 0.49 (12.5) | 0.24 (6) | 0.98 (25) | (14) | Double | 0.92 (26)     | 20B000018Z |
| G1/4 | 2.30 (58.5) | 0.49 (12.5) | 0.31 (8) | 0.98 (25) | (17) | Double | 1.55 (44)     | 20B000028Z |
| G3/8 | 2.32 (59)   | 0.49 (12.5) | 0.31 (8) | 0.98 (25) | (19) | Double | 2.26 (64)     | 20B000038Z |
| G1/4 | 2.42 (61.5) | 0.49 (12.5) | 0.31 (8) | 0.98 (25) | (17) | Triple | 1.48 (42)     | 20C000028Z |
| G3/8 | 2.44 (62)   | 0.49 (12.5) | 0.31 (8) | 0.98 (25) | (19) | Triple | 2.19 (62)     | 20C000038Z |

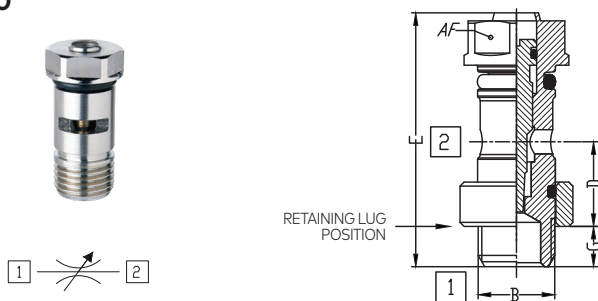
## Banjo bolt, regulating out, BSP parallel 20K00



| B    | D           | E           | G        | AF   | Weight oz (g) | Model      |
|------|-------------|-------------|----------|------|---------------|------------|
| G1/8 | 0.49 (12.5) | 1.24 (31.5) | 0.20 (5) | (12) | 0.53 (15)     | 20K000018Z |
| G1/4 | 0.49 (12.5) | 1.28 (32.5) | 0.24 (6) | (15) | 0.88 (25)     | 20K000028Z |
| G3/8 | 0.49 (12.5) | 1.65 (42)   | 0.31 (8) | (19) | 1.59 (45)     | 20K000038Z |

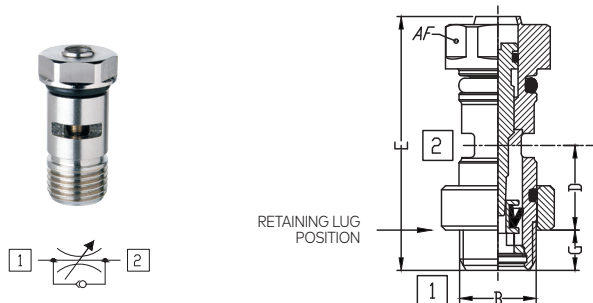
### Banjo bolt, regulating bi-directional, BSP parallel 20M00

Dimensions in inches (mm)  
Projection/First angle



| B    | D           | E           | G        | AF   | Weight oz (g) | Model      |
|------|-------------|-------------|----------|------|---------------|------------|
| G1/8 | 0.49 (12.5) | 1.24 (31.5) | 0.20 (5) | (12) | 0.60 (17)     | 20M000018Z |
| G1/4 | 0.49 (12.5) | 1.28 (32.5) | 0.24 (6) | (15) | 0.95 (27)     | 20M000028Z |

### Banjo bolt, regulating in, BSP parallel 20L00

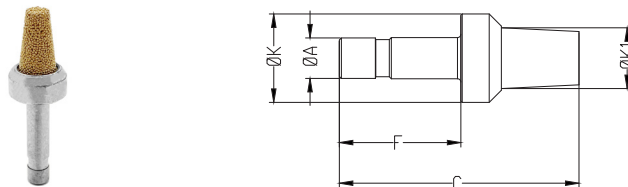


| B    | D           | E           | G        | AF   | Weight oz (g) | Model      |
|------|-------------|-------------|----------|------|---------------|------------|
| G1/8 | 0.49 (12.5) | 1.24 (31.5) | 0.20 (5) | (12) | 0.53 (15)     | 20L000018Z |
| G1/4 | 0.49 (12.5) | 1.28 (32.5) | 0.24 (6) | (15) | 0.88 (25)     | 20L000028Z |

#### Note:

Banjo bolts are supplied with a spacing washer with integral retention lug. The washer must be installed with the mounting lug at the lowest position to ensure retention on to thread.

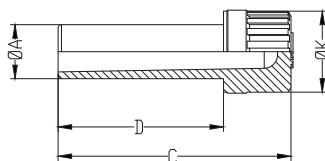
### Silencer Metric 10011



| ØA | C         | F           | ØK        | ØK1        | Weight oz (g) | Model     |
|----|-----------|-------------|-----------|------------|---------------|-----------|
| 4  | 1.14 (29) | 0.65 (16.5) | 0.35 (9)  | 0.17 (4.2) | 0.25 (7)      | 100110400 |
| 6  | 1.42 (36) | 0.71 (18)   | 0.51 (13) | 0.31 (8)   | 0.60 (17)     | 100110600 |
| 8  | 1.73 (44) | 0.81 (20.5) | 0.67 (17) | 0.35 (9)   | 1.27 (36)     | 100110800 |
| 10 | 2.20 (56) | 0.91 (23)   | 0.79 (20) | 0.47 (12)  | 1.76 (50)     | 100111000 |
| 12 | 2.24 (57) | 0.94 (24)   | 0.79 (20) | 0.47 (12)  | 1.80 (51)     | 100111200 |

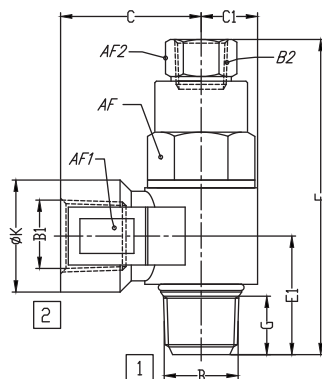
## Plug Metric (Nylon) 11004

Dimensions in inches (mm)  
Projection/First angle



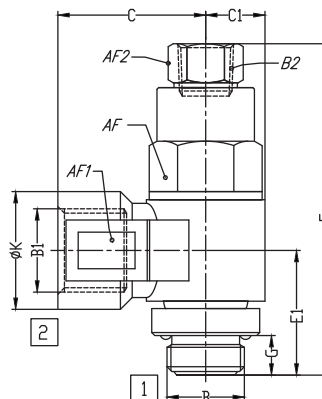
| ØA | C           | ØK        | D           | Weight oz (g) | Model     |
|----|-------------|-----------|-------------|---------------|-----------|
| 4  | 1.14 (29)   | 0.31 (8)  | 0.79 (20)   | 0.04 (1)      | 110040400 |
| 5  | 1.16 (29.5) | 0.31 (8)  | 0.81 (20.5) | 0.04 (1)      | 110040500 |
| 6  | 1.24 (31.5) | 0.31 (8)  | 0.89 (22.5) | 0.04 (1)      | 110040600 |
| 8  | 1.36 (34.5) | 0.47 (12) | 0.96 (24.5) | 0.07 (2)      | 110040800 |
| 10 | 1.46 (37)   | 0.47 (12) | 1.06 (27)   | 0.07 (2)      | 110041000 |
| 12 | 1.59 (40.5) | 0.63 (16) | 1.12 (28.5) | 0.11 (3)      | 110041200 |
| 14 | 1.67 (42.5) | 0.63 (16) | 1.20 (30.5) | 0.11 (3)      | 110041400 |

## Pilot operated check valve, BSP taper (Aluminum Body) 101GA



| B    | B1    | B2    | C           | C1          | E           | E1          | G           | ØK          | AF   | AF1  | AF2  | Weight oz (g) | Model     |
|------|-------|-------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|------|---------------|-----------|
| R1/8 | Rc1/8 | M5    | 0.72 (18.2) | 0.29 (7.3)  | 1.61 (40.8) | 0.61 (15.4) | 0.30 (7.6)  | 0.57 (14.5) | (12) | (15) | (8)  | 1.23 (35)     | 101GA1818 |
| R1/4 | Rc1/4 | Rc1/8 | 1.04 (26.5) | 0.37 (9.5)  | 1.93 (48.9) | 0.83 (21.1) | 0.42 (10.6) | 0.71 (18)   | (17) | (19) | (12) | 2.65 (75)     | 101GA2828 |
| R3/8 | Rc3/8 | Rc1/8 | 1.21 (30.8) | 0.46 (11.6) | 2.23 (56.7) | 0.98 (24.8) | 0.50 (12.6) | 0.91 (23)   | (20) | (24) | (12) | 4.34 (123)    | 101GA3838 |
| R1/2 | Rc1/2 | Rc1/4 | 1.52 (38.7) | 0.55 (14)   | 2.78 (70.6) | 1.22 (31)   | 0.57 (14.5) | 1.04 (26.5) | (24) | (28) | (17) | 7.30 (207)    | 101GA4848 |

## Pilot operated check valve, BSP parallel (Aluminum Body) 102GA



| B    | B1   | B2   | C           | C1          | E           | E1          | G          | ØK          | AF   | AF1  | AF2  | Weight oz (g) | Model     |
|------|------|------|-------------|-------------|-------------|-------------|------------|-------------|------|------|------|---------------|-----------|
| G1/8 | G1/8 | M5   | 0.70 (17.7) | 0.29 (7.3)  | 1.61 (40.8) | 0.64 (16.2) | 0.20 (5.1) | 0.57 (14.5) | (12) | (15) | (8)  | 1.23 (35)     | 102GA1818 |
| G1/4 | G1/4 | G1/8 | 1.02 (26)   | 0.37 (9.5)  | 1.93 (48.9) | 0.84 (21.3) | 0.26 (6.6) | 0.71 (18)   | (17) | (19) | (12) | 2.72 (77)     | 102GA2828 |
| G3/8 | G3/8 | G1/8 | 1.19 (30.3) | 0.46 (11.6) | 2.23 (56.7) | 0.98 (24.8) | 0.28 (7.2) | 0.91 (23)   | (20) | (24) | (12) | 4.52 (128)    | 102GA3838 |
| G1/2 | G1/2 | G1/4 | 1.50 (38.2) | 0.55 (14)   | 2.78 (70.6) | 1.17 (29.6) | 0.34 (8.7) | 1.04 (26.5) | (24) | (28) | (17) | 7.73 (219)    | 102GA4848 |

## Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Precision Engineering. Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.