

- Very compact units
- Easy tube insertion for rapid assembly of pneumatic circuits
- Positive tube anchorage
- All BSP taper threads pre-coated with non-PTFE based sealant
- Straight adaptors feature internal hexagon for Allen key
- Silicone free 'O'-rings



## Technical Data

Medium:

Compressed air

(For other media please consult Technical Department)

Operating Pressure:

Vacuum – 18 bar

(Dependent upon operating specification of tubing)

Vacuum: = –750mm of Hg i.e. 98%

Operating Temperature:

–20°C\* to +80°C

(–20°C to +200°C with Viton 'O'-ring - add suffix V)

## Tube Sizes

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

## Tubing Types:

Nylon 11 or 12, Polyurethane and other plasticised or unplasticised tubing which conforms to the tolerances specified in BS 5409, Part 1, 1976, light and normal duty, DIN 73378, DIN 74234, NFE 49-100

## Materials

Nickel plated brass or glass filled nylon for body

Nickel plated brass for collet

Silicone free nitrile rubber 'O' ring (Viton optional)

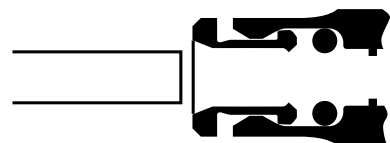
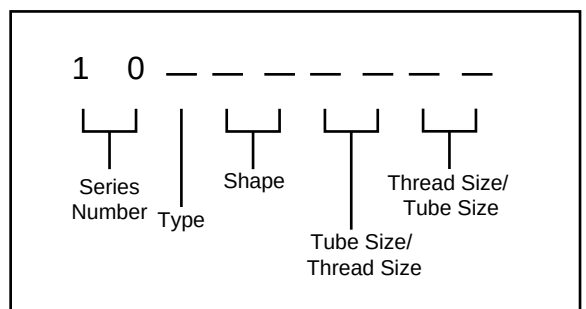
Plastic sealing washer (parallel threads)

Non - PTFE thread sealant (taper threads)

## Ordering Information

To order, quote appropriate product number from the tables on the following pages.

Pneufit's new product numbering system is designed to make identification and selection simple:



**Warning:** The push-in tube fittings in this section must not be used in vehicle air braking systems. For push-in fittings suited to these applications please consult our Technical Service for details.



## Straight Connectors and Adaptors

|                                                                                                                                                                               |                                                                                                                                                                          |                                                                                                                                                                        |                                                                                                                                                                         |                                                                                                                                                                                    |                                                                                                                                                                         |                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>STEM TAILPIECE ADAPTOR</b><br>stem to hose bore<br><br><b>10019</b><br><br>Page 9.3.001.09 | <b>STRAIGHT CONNECTOR</b><br>tube to tube<br><br><b>10020</b><br><br>Page 9.3.001.04    | <b>STRAIGHT STEM CONNECTOR</b><br>(metal)<br><br><b>10022</b><br><br>Page 9.3.001.09  | <b>STRAIGHT STEM CONNECTOR</b><br>(plastic)<br><br><b>11022</b><br><br>Page 9.3.001.09 | <b>REDUCING/EXPANDING CONNECTOR</b><br>stem to tube<br><br><b>10023</b><br><br>Page 9.3.001.03/04 | <b>BULKHEAD CONNECTOR</b><br>tube to tube<br><br><b>10029</b><br><br>Page 9.3.001.04 | <b>MIXED BULKHEAD CONNECTOR</b><br>pif/compression<br><br><b>10031</b><br><br>Page 9.3.001.04    |
| <b>STRAIGHT STEM ADAPTOR</b><br>BSP taper<br><br><b>10115</b><br><br>Page 9.3.001.03          | <b>STRAIGHT STEM ADAPTOR</b><br>BSP parallel<br><br><b>10215</b><br><br>Page 9.3.001.03 | <b>STRAIGHT STEM ADAPTOR</b><br>NPTF taper<br><br><b>10415</b><br><br>Page 9.3.001.03 | <b>STRAIGHT ADAPTOR</b><br>BSP taper<br><br><b>10125</b><br><br>Page 9.3.001.04        | <b>STRAIGHT ADAPTOR</b><br>BSP parallel<br><br><b>10225</b><br><br>Page 9.3.001.04                | <b>STRAIGHT ADAPTOR</b><br>NPTF taper<br><br><b>10425</b><br><br>Page 9.3.001.05     | <b>FEMALE STRAIGHT ADAPTOR</b><br>female parallel BSP<br><br><b>10226</b><br><br>Page 9.3.001.05 |

## Elbow Connectors, Adaptors and Banjos

|                                                                                                                                                                             |                                                                                                                                                                                          |                                                                                                                                                                                          |                                                                                                                                                                                       |                                                                                                                                                                          |                                                                                                                                                                               |                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ELBOW CONNECTOR</b><br>tube to tube<br><br><b>10040</b><br><br>Page 9.3.001.06           | <b>STEM ELBOW CONNECTOR</b><br>stem to tube<br><br><b>10043</b><br><br>Page 9.3.001.05                  | <b>BULKHEAD SWIVEL ELBOW CONNECTOR</b><br>tube to tube<br><br><b>10049</b><br><br>Page 9.3.001.06       | <b>ELBOW ADAPTOR</b><br>BSP taper<br><br><b>10145</b><br><br>Page 9.3.001.06                         | <b>90° SWIVEL ELBOW ADAPTOR</b><br>BSP taper<br><br><b>10147</b><br><br>Page 9.3.001.05 | <b>90° SWIVEL ELBOW ADAPTOR</b><br>BSP parallel<br><br><b>10247</b><br><br>Page 9.3.001.05 | <b>EXTENDED SWIVEL ELBOW ADAPTOR</b><br>BSP taper<br><br><b>10154</b><br><br>Page 9.3.001.06 |
| <b>45° SWIVEL ELBOW ADAPTOR</b><br>BSP parallel<br><br><b>10257</b><br><br>Page 9.3.001.05 | <b>ELBOW BANJO ASSEMBLY</b><br>non-Regulating BSP parallel<br><br><b>10A51</b><br><br>Page 9.3.001.012 | <b>ELBOW BANJO ASSEMBLY</b><br>regulating-out BSP parallel<br><br><b>10K51</b><br><br>Page 9.3.001.012 | <b>ELBOW BANJO ASSEMBLY</b><br>regulating-out BSP taper<br><br><b>10TA0</b><br><br>Page 9.3.001.013 |                                                                                                                                                                          |                                                                                                                                                                               |                                                                                                                                                                                 |

## Tee Connectors, Adaptors and Banjos, 'Y' Connectors and Adaptors, 4-way Connectors

|                                                                                                                                                                        |                                                                                                                                                                |                                                                                                                                                                      |                                                                                                                                                                         |                                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TEE CONNECTOR</b><br>tube x 3<br><br><b>10060</b><br><br>Page 9.3.001.06          | <b>TEE ADAPTOR</b><br>BSP taper<br><br><b>10165</b><br><br>Page 9.3.001.06  | <b>SWIVEL TEE ADAPTOR</b><br>BSP taper<br><br><b>10167</b><br><br>Page 9.3.001.07 | <b>SWIVEL TEE ADAPTOR</b><br>BSP parallel<br><br><b>10267</b><br><br>Page 9.3.001.07 | <b>TEE BANJO ASSEMBLY</b><br>non-regulating parallel thread<br><br><b>10A71</b><br><br>Page 9.3.001.012 | <b>FIXED SIDE TEE ADAPTOR</b><br>BSP taper<br><br><b>10175</b><br><br>Page 9.3.001.07 | <b>SWIVEL TEE ADAPTOR</b><br>BSP taper<br><br><b>10168</b><br><br>Page 9.3.001.07 |
| <b>SWIVEL TEE ADAPTOR</b><br>BSP parallel<br><br><b>10268</b><br><br>Page 9.3.001.07 | <b>'Y' CONNECTOR</b><br>tube x 3<br><br><b>10082</b><br><br>Page 9.3.001.08 | <b>'Y' STEM CONNECTOR</b><br><br><b>10084</b><br><br>Page 9.3.001.08              | <b>PARALLEL 'Y' ADAPTOR</b><br>BSP taper<br><br><b>10188</b><br><br>Page 9.3.001.08  | <b>PARALLEL 'Y' ADAPTOR</b><br>BSP parallel<br><br><b>10288</b><br><br>Page 9.3.001.08                  | <b>4-WAY CONNECTOR</b><br>tube x 4<br><br><b>10090</b><br><br>Page 9.3.001.07         |                                                                                                                                                                        |

## Banjo Bodies and Bolts

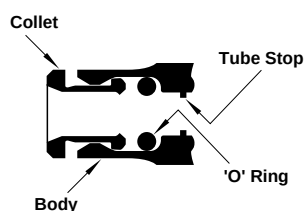
|                                                                                                                                                       |                                                                                                                                                      |                                                                                                                                                                                                 |                                                                                                                                                                                                 |                                                                                                                                                                                                 |                                                                                                                                                                                                                 |                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ELBOW BANJO BODY</b><br><br><b>10051</b><br><br>Page 9.3.001.010 | <b>TEE BANJO BODY</b><br><br><b>10071</b><br><br>Page 9.3.001.010 | <b>BANJO BOLT</b><br>non-regulating single stacking BSP parallel<br><br><b>20A00</b><br><br>Page 9.3.001.011 | <b>BANJO BOLT</b><br>non-regulating double stacking BSP parallel<br><br><b>20B00</b><br><br>Page 9.3.001.011 | <b>BANJO BOLT</b><br>non-regulating triple stacking BSP parallel<br><br><b>20C00</b><br><br>Page 9.3.001.011 | <b>BANJO BOLT</b><br>non-regulating single stacking with top port BSP parallel<br><br><b>20*00</b><br><br>Page 9.3.001.011 | <b>BANJO BOLT</b><br>regulating single stacking BSP parallel<br><br><b>20*00</b><br><br>Page 9.3.001.010 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Accessories, Manifolds

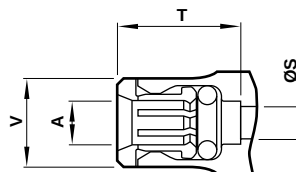
|                                                                                                                                                                         |                                                                                                                                                                    |                                                                                                                                                          |                                                                                                                                                       |                                                                                                                                                                                                                 |                                                                                                                                                             |                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRESSURE INDICATOR</b><br>Panel mounted<br><br><b>10009</b><br><br>Page 9.3.001.09 | <b>PRESSURE INDICATOR</b><br>plug in<br><br><b>10010</b><br><br>Page 9.3.001.09 | <b>SILENCER</b><br>plug in<br><br><b>10011</b><br><br>Page 9.3.001.09 | <b>PLUG</b><br>(acetal)<br><br><b>11004</b><br><br>Page 9.3.001.09 | <b>BANJO BOLT</b><br>non-regulating with test point single stacking BSP parallel<br><br><b>20J00</b><br><br>Page 9.3.001.011 | <b>MANIFOLD</b><br>tube x 8<br><br><b>100D6</b><br><br>Page 9.3.001.08 | <b>MANIFOLD</b><br>BSP Taper<br><br><b>101D6</b><br><br>Page 9.3.001.08 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|



## Assembly Details



## Typical Dimensions

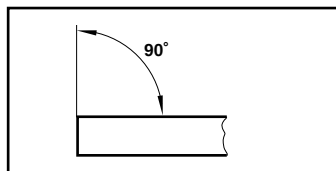


| A<br>O/D tube | S†   | T*<br>tubing stop | V    |
|---------------|------|-------------------|------|
| 4             | 2,8  | 14,0              | 7,5  |
| 5             | 3,4  | 15,0              | 10,0 |
| 6             | 4,4  | 15,5              | 11,0 |
| 8             | 6,0  | 16,5              | 13,0 |
| 10            | 7,6  | 21,0              | 14,5 |
| 12            | 9,6  | 24,5              | 18,0 |
| 14            | 11,5 | 24,5              | 20,0 |

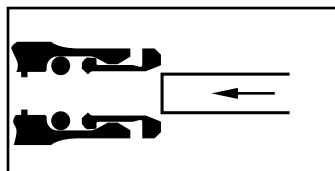
\* Dimensions here and in the individual tables refer to the collet being in the 'IN' position.

† Dimensions here (minimum bore diameter) are common per tube size for all Connectors, Elbows and Tees unless otherwise stated.

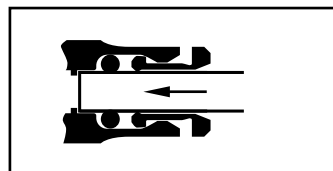
## Method of Assembly



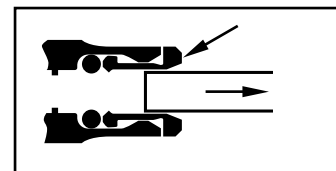
1. Ensure that the end of the tube is cut square and is free from burrs.



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



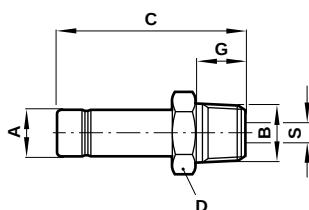
3. Push the tube firmly through the 'O' ring until it bottoms on the tube stop then pull back.



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

## Straight Stem Adaptor

O/D tube stem to male taper BSP thread

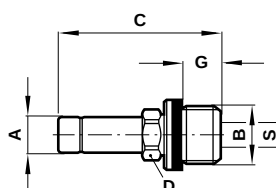


## 10115

| Product number | A<br>O/D stem | B<br>thread BSP | C    | D<br>A/F | G    | S    |
|----------------|---------------|-----------------|------|----------|------|------|
| 101150418      | 4             | 1/8             | 30,0 | 10       | 7,7  | 2,1  |
| 101150428      | 4             | 1/4             | 33,5 | 14       | 11,1 | 2,1  |
| 101150518      | 5             | 1/8             | 31,0 | 11       | 7,7  | 3,2  |
| 101150528      | 5             | 1/4             | 35,0 | 14       | 11,1 | 3,2  |
| 101150618      | 6             | 1/8             | 32,0 | 12       | 7,7  | 4,1  |
| 101150628      | 6             | 1/4             | 35,0 | 14       | 11,1 | 4,1  |
| 101150818      | 8             | 1/8             | 33,0 | 14       | 7,7  | 7,1  |
| 101150828      | 8             | 1/4             | 36,5 | 14       | 11,1 | 5,1  |
| 101150838      | 8             | 3/8             | 40,0 | 19       | 12,7 | 5,1  |
| 101151028      | 10            | 1/4             | 40,0 | 15       | 11,1 | 7,7  |
| 101151038      | 10            | 3/8             | 45,0 | 19       | 12,7 | 7,7  |
| 101151048      | 10            | 1/2             | 48,0 | 22       | 15,9 | 8,1  |
| 101151238      | 12            | 3/8             | 48,0 | 19       | 12,7 | 9,1  |
| 101151248      | 12            | 1/2             | 51,5 | 22       | 15,9 | 9,1  |
| 101151448      | 14            | 1/2             | 51,4 | 22       | 15,9 | 11,2 |

## Straight Stem Adaptor

O/D tube stem to male parallel BSP thread



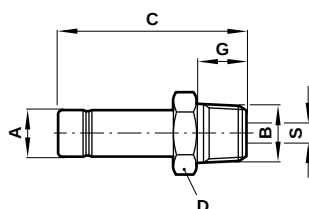
## 10215

| Product number | A<br>O/D stem | B<br>thread BSP | C    | D<br>A/F | G    | S    |
|----------------|---------------|-----------------|------|----------|------|------|
| 102150418      | 4             | 1/8             | 29,0 | 8        | 4,9  | 2,1  |
| 102150428      | 4             | 1/4             | 33,0 | 10       | 7,5  | 2,1  |
| 102150518      | 5             | 1/8             | 30,5 | 8        | 4,9  | 3,3  |
| 102150528      | 5             | 1/4             | 34,0 | 10       | 7,5  | 3,3  |
| 102150618      | 6             | 1/8             | 31,0 | 8        | 4,9  | 4,0  |
| 102150628      | 6             | 1/4             | 34,5 | 10       | 7,5  | 4,0  |
| 102150818      | 8             | 1/8             | 32,5 | 10       | 4,9  | 5,0  |
| 102150828      | 8             | 1/4             | 35,5 | 10       | 7,5  | 6,0  |
| 102150838      | 8             | 3/8             | 39,0 | 13       | 8,9  | 6,0  |
| 102151028      | 10            | 1/4             | 41,5 | 13       | 7,5  | 6,5  |
| 102151038      | 10            | 3/8             | 43,5 | 13       | 8,9  | 8,0  |
| 102151048      | 10            | 1/2             | 49,0 | 17       | 12,2 | 8,0  |
| 102151238      | 12            | 3/8             | 48,5 | 17       | 8,9  | 10,0 |
| 102151248      | 12            | 1/2             | 52,5 | 17       | 12,2 | 10,0 |
| 102151438      | 14            | 3/8             | 48,5 | 17       | 8,9  | 10,0 |
| 102151448      | 14            | 1/2             | 52,5 | 17       | 12,2 | 11,5 |

Supplied Complete with Sealing Washer

## Straight Stem Adaptor

O/D tube stem to male taper NPTF thread

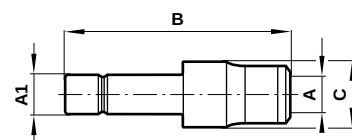


## 10415

| Product number | A<br>O/D stem | B<br>thread NPTF | C    | D<br>A/F | G    | S   |
|----------------|---------------|------------------|------|----------|------|-----|
| 104150418      | 4             | 1/8              | 31,8 | 1/16     | 9,5  | 2,1 |
| 104150428      | 4             | 1/4              | 36,7 | 9/16     | 14,3 | 2,1 |
| 104150518      | 5             | 1/8              | 33,3 | 1/16     | 9,5  | 3,2 |
| 104150528      | 5             | 1/4              | 38,2 | 9/16     | 14,3 | 3,2 |
| 104150618      | 6             | 1/8              | 33,7 | 1/16     | 9,5  | 4,0 |
| 104150628      | 6             | 1/4              | 38,6 | 9/16     | 14,3 | 4,0 |
| 104150818      | 8             | 1/4              | 34,8 | 1/16     | 9,5  | 5,0 |
| 104150828      | 8             | 1/4              | 39,6 | 9/16     | 14,3 | 5,0 |
| 104151028      | 10            | 1/4              | 44,1 | 9/16     | 14,3 | 7,6 |
| 104151038      | 10            | 3/8              | 46,1 | 11/16    | 14,3 | 7,6 |
| 104151048      | 10            | 1/2              | 51,1 | 7/8      | 19,0 | 8,1 |
| 104151238      | 12            | 3/8              | 49,6 | 11/16    | 14,3 | 9,1 |
| 104151248      | 12            | 1/2              | 54,6 | 7/8      | 19,0 | 9,1 |

## Reducing Connector

O/D tube stem to O/D tube



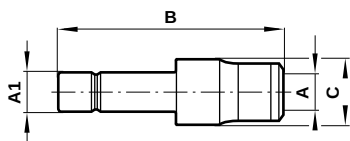
## 10023

| Product number | A1<br>O/D stem | A<br>O/D tube | B    | C    |
|----------------|----------------|---------------|------|------|
| 100230504      | 5              | 4             | 33,4 | 10,0 |
| 100230604      | 6              | 4             | 33,9 | 10,0 |
| 100230605      | 6              | 5             | 35,2 | 11,0 |
| 100230804      | 8              | 4             | 30,9 | 10,0 |
| 100230805      | 8              | 5             | 33,2 | 11,0 |
| 100230806      | 8              | 6             | 36,7 | 12,0 |
| 100231004      | 10             | 4             | 30,9 | 12,0 |
| 100231005      | 10             | 5             | 36,7 | 12,0 |
| 100231006      | 10             | 6             | 37,7 | 12,0 |
| 100231008      | 10             | 8             | 38,2 | 14,0 |
| 100231204      | 12             | 4             | 34,9 | 14,0 |
| 100231205      | 12             | 5             | 35,2 | 14,0 |
| 100231206      | 12             | 6             | 35,2 | 14,0 |
| 100231208      | 12             | 8             | 42,2 | 14,0 |
| 100231210      | 12             | 10            | 50,2 | 17,0 |
| 100231406      | 14             | 6             | 36,7 | 16,0 |
| 100231408      | 14             | 8             | 37,7 | 16,0 |
| 100231410      | 14             | 10            | 46,7 | 17,0 |
| 100231412      | 14             | 12            | 53,7 | 20,5 |



## Expanding Connector

O/D tube stem to O/D tube

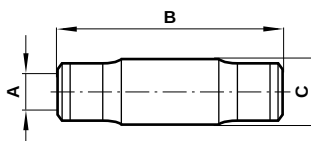


## 10023

| Product number | A1<br>O/D<br>stem | A<br>O/D<br>tube | B    | C    |
|----------------|-------------------|------------------|------|------|
| 100230406      | 4                 | 6                | 35,2 | 12,0 |
| 100230608      | 6                 | 8                | 37,7 | 14,0 |

## Straight Connector

O/D tube to O/D tube

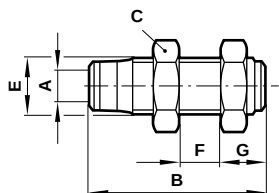


## 10020

| Product number | A<br>O/D<br>tube | B    | C    |
|----------------|------------------|------|------|
| 100200400      | 4                | 29,8 | 10,0 |
| 100200500      | 5                | 31,9 | 11,0 |
| 100200600      | 6                | 33,4 | 12,0 |
| 100200800      | 8                | 35,4 | 14,0 |
| 100201000      | 10               | 44,4 | 17,0 |
| 100201200      | 12               | 51,4 | 20,5 |
| 100201400      | 14               | 52,4 | 21,0 |

## Bulkhead Connector

O/D tube to O/D tube



## 10029

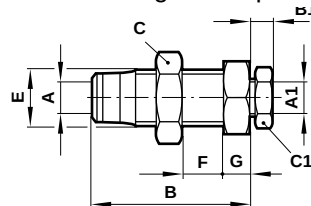
| Product number | A<br>O/D<br>tube | B    | C<br>A/F | E<br>thread | F  | G    |
|----------------|------------------|------|----------|-------------|----|------|
| 100290400      | 4                | 29,8 | 14       | M10x1,0     | 12 | 8,9  |
| 100290500      | 5                | 31,9 | 17       | M12x1,0     | 14 | 9,2  |
| 100290600      | 6                | 35,4 | 19       | M14x1,5     | 15 | 10,2 |
| 100290800      | 8                | 36,4 | 22       | M16x1,5     | 16 | 10,2 |
| 100291000      | 10               | 43,4 | 27       | M20x1,5     | 14 | 11,2 |
| 100291200      | 12               | 50,4 | 30       | M24x1,5     | 15 | 11,2 |
| 100291400      | 14               | 50,4 | 30       | M24x1,5     | 15 | 11,2 |

Fitting is supplied complete.  
Additional locknuts may be ordered separately.

## Mixed Bulkhead Connector

Push-in fitting to compression fitting

## 10031

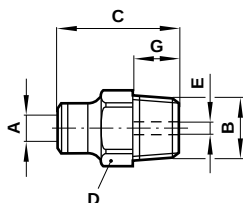


Fitting is supplied complete.  
Additional locknuts may be ordered separately.  
(Nut and sleeve are for 36 Series fittings.)

| Product number | A<br>O/D<br>tube | A1<br>O/D<br>tube | B    | B1   | C<br>A/F | C1 | E<br>thread | F    | G  |
|----------------|------------------|-------------------|------|------|----------|----|-------------|------|----|
| 100310404      | 4                | 4                 | 26,9 | 6,0  | 17       | 8  | M12x1,0     | 9,5  | 17 |
| 100310606      | 6                | 6                 | 29,7 | 7,0  | 22       | 13 | M15x1,0     | 9,5  | 19 |
| 100310808      | 8                | 8                 | 33,7 | 8,0  | 24       | 13 | M18x1,5     | 11,2 | 22 |
| 100311010      | 10               | 10                | 40,2 | 8,0  | 27       | 17 | M20x1,5     | 14,3 | 27 |
| 100311212      | 12               | 12                | 44,2 | 9,0  | 30       | 19 | M24x1,5     | 17,5 | 30 |
| 100311414      | 14               | 14                | 46,2 | 11,5 | 32       | 22 | M26x1,5     | 18,5 | 32 |

## Straight Adaptor

O/D tube to male taper  
BSP thread

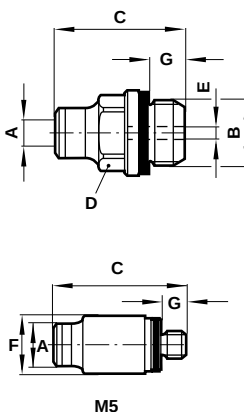


## 10125

| Product number | A<br>O/D<br>tube | B<br>thread | C    | D<br>A/F | E<br>A/F | G    |
|----------------|------------------|-------------|------|----------|----------|------|
| 101250418      | 4                | 1/8         | 20,5 | 10,0     | 3        | 7,7  |
| 101250428      | 4                | 1/4         | 23,0 | 14,0     | 3        | 11,1 |
| 101250518      | 5                | 3/8         | 22,7 | 10,0     | 4        | 7,7  |
| 101250528      | 5                | 1/2         | 23,2 | 14,0     | 4        | 11,1 |
| 101250618      | 6                | 1/2         | 23,2 | 11,0     | 4        | 7,7  |
| 101250628      | 6                | 3/4         | 25,2 | 14,0     | 4        | 11,1 |
| 101250818      | 8                | 3/8         | 26,7 | 13,0     | 5        | 7,7  |
| 101250828      | 8                | 1/4         | 28,2 | 14,0     | 6        | 11,1 |
| 101250838      | 8                | 3/8         | 27,2 | 17,0     | 6        | 12,7 |
| 101250848      | 8                | 1/2         | 29,2 | 22,0     | 6        | 15,9 |
| 101251018      | 10               | 1/8         | 31,7 | 17,0     | 5        | 7,7  |
| 101251028      | 10               | 1/4         | 34,2 | 17,0     | 7        | 11,1 |
| 101251038      | 10               | 3/8         | 34,2 | 17,0     | 8        | 12,7 |
| 101251048      | 10               | 1/2         | 33,7 | 22,0     | 8        | 15,9 |
| 101251228      | 12               | 1/4         | 39,2 | 22,0     | 7        | 11,1 |
| 101251238      | 12               | 3/8         | 39,7 | 22,0     | 10       | 12,7 |
| 101251248      | 12               | 1/2         | 40,2 | 22,0     | 10       | 15,9 |
| 101251438      | 14               | 3/8         | 39,7 | 22,0     | 10       | 12,7 |
| 101251448      | 14               | 1/2         | 40,2 | 22,0     | 10       | 15,9 |

## Straight Adaptor

O/D tube to male metric  
or parallel BSP thread



## 10225

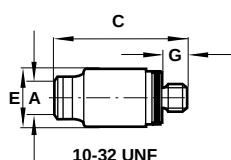
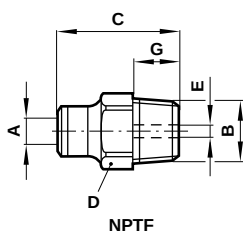
| Product number | A<br>O/D<br>tube | B<br>thread | C    | D<br>A/F | E<br>A/F | F  | G    |
|----------------|------------------|-------------|------|----------|----------|----|------|
| 102250405      | 4                | M5x0,8      | 21,3 | —        | 2,5      | 9  | 3,4  |
| 102250418      | 4                | 1/8         | 19,0 | 10       | 3        | —  | 4,9  |
| 102250428      | 4                | 1/4         | 21,5 | 10       | 3        | —  | 7,5  |
| 102250505      | 5                | M5x0,8      | 22,9 | —        | 2,5      | 10 | 3,4  |
| 102250518      | 5                | 3/8         | 23,7 | 10       | 4        | —  | 4,9  |
| 102250528      | 5                | 1/4         | 22,2 | 12       | 4        | —  | 7,5  |
| 102250605      | 6                | M5x0,8      | 23,8 | —        | 2,5      | 11 | 3,4  |
| 102250618      | 6                | 1/8         | 25,2 | 11       | 4        | —  | 4,9  |
| 102250628      | 6                | 1/4         | 23,7 | 13       | 4        | —  | 7,5  |
| 102250818      | 8                | 1/8         | 26,7 | 13       | 5        | —  | 4,9  |
| 102250828      | 8                | 1/4         | 28,2 | 14       | 6        | —  | 7,5  |
| 102250838      | 8                | 3/8         | 26,2 | 17       | 6        | —  | 8,9  |
| 102250848      | 8                | 1/2         | 31,7 | 17       | 6        | —  | 12,2 |
| 102251018      | 10               | 1/8         | 32,2 | 17       | 5        | —  | 4,9  |
| 102251028      | 10               | 1/4         | 33,7 | 17       | 7        | —  | 7,5  |
| 102251038      | 10               | 3/8         | 32,2 | 19       | 8        | —  | 8,9  |
| 102251048      | 10               | 1/2         | 32,2 | 19       | 8        | —  | 12,2 |
| 102251228      | 12               | 1/4         | 37,7 | 22       | 7        | —  | 7,5  |
| 102251238      | 12               | 3/8         | 38,2 | 22       | 10       | —  | 8,9  |
| 102251248      | 12               | 1/2         | 37,2 | 22       | 10       | —  | 12,2 |
| 102251438      | 14               | 3/8         | 38,2 | 22       | 10       | —  | 8,9  |
| 102251448      | 14               | 1/2         | 37,2 | 22       | 10       | —  | 12,2 |

Supplied Complete with Sealing Washer



## Straight Adaptor

O/D tube to male taper  
NPTF thread



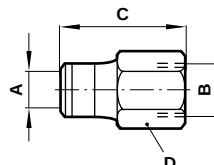
Supplied complete with sealing washer.

## 10425

| Product number | A<br>O/D tube | B<br>thread | C    | D<br>A/F | E<br>A/F | G     |
|----------------|---------------|-------------|------|----------|----------|-------|
| 104250418      | 4             | 1/8         | 22,7 | 7/16     | 3/32     | 9,5   |
| 104250428      | 4             | 1/4         | 26,5 | 9/16     | 1/8      | 14,25 |
| 104250518      | 5             | 1/8         | 24,5 | 7/16     | 5/32     | 9,5   |
| 104250528      | 5             | 1/4         | 26,3 | 9/16     | 5/32     | 14,25 |
| 104250610      | 6             | 10/32       | 24,0 |          | 11       | 3,4   |
| 104250618      | 6             | 1/8         | 25,0 | 7/16     | 5/32     | 9,5   |
| 104250628      | 6             | 1/4         | 28,3 | 9/16     | 5/32     | 14,25 |
| 104250638      | 6             | 3/8         | 27,2 | 11/16    | 5/32     | 14,25 |
| 104250818      | 8             | 1/8         | 28,5 | 7/16     | 3/16     | 9,5   |
| 104250828      | 8             | 1/4         | 31,1 | 9/16     | 1/4      | 14,25 |
| 104250838      | 8             | 3/8         | 31,1 | 11/16    | 1/4      | 14,25 |
| 104251018      | 10            | 1/8         | 33,5 | 11/16    | 3/16     | 9,5   |
| 104251028      | 10            | 1/4         | 37,3 | 11/16    | 9/32     | 14,25 |
| 104251038      | 10            | 3/8         | 35,8 | 11/16    | 5/16     | 14,25 |
| 104251048      | 10            | 1/2         | 36,8 | 7/8      | 5/16     | 19,05 |
| 104251228      | 12            | 1/4         | 42,3 | 7/8      | 9/32     | 14,25 |
| 104251238      | 12            | 3/8         | 41,3 | 7/8      | 13/32    | 14,25 |
| 104251248      | 12            | 1/2         | 43,3 | 7/8      | 13/32    | 19,05 |

## Straight Adaptor

O/D tube to female  
parallel metric or  
BSP thread

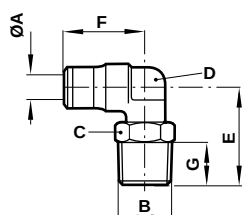


## 10226

| Product number | A<br>O/D tube | B<br>thread | C    | D<br>A/F |
|----------------|---------------|-------------|------|----------|
| 102260405      | 4             | M5x0,8      | 22,5 | 10       |
| 102260418      | 4             | 1/8         | 24,4 | 13       |
| 102260428      | 4             | 1/4         | 28,9 | 17       |
| 102260505      | 5             | M5x0,8      | 23,6 | 10       |
| 102260518      | 5             | 1/8         | 25,7 | 13       |
| 102260528      | 5             | 1/4         | 29,7 | 17       |
| 102260618      | 6             | 1/8         | 26,2 | 13       |
| 102260628      | 6             | 1/4         | 30,7 | 17       |
| 102260818      | 8             | 1/8         | 27,2 | 13       |
| 102260828      | 8             | 1/4         | 31,7 | 17       |
| 102261028      | 10            | 1/4         | 36,7 | 17       |
| 102261038      | 10            | 3/8         | 39,2 | 19       |
| 102261238      | 12            | 3/8         | 41,2 | 19       |
| 102261248      | 12            | 1/2         | 44,7 | 24       |

## 90° Swivel Elbow Adaptor

O/D tube to male taper  
BSP thread

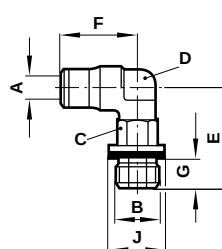


## 10147

| Product number | A<br>O/D tube | B<br>thread<br>BSP | C<br>A/F | D<br>A/F | E    | F    | G    |
|----------------|---------------|--------------------|----------|----------|------|------|------|
| 101470418      | 4             | 1/8                | 10       | 7,0      | 20,5 | 16,9 | 7,7  |
| 101470428      | 4             | 1/4                | 14       | 7,0      | 24,1 | 16,9 | 11,1 |
| 101470518      | 5             | 1/8                | 11       | 9,0      | 21,0 | 18,4 | 7,7  |
| 101470528      | 5             | 1/4                | 14       | 9,0      | 24,6 | 18,4 | 11,1 |
| 101470618      | 6             | 1/8                | 11       | 9,0      | 21,5 | 19,6 | 7,7  |
| 101470628      | 6             | 1/4                | 14       | 9,0      | 25,1 | 19,6 | 11,1 |
| 101470638      | 6             | 3/8                | 17       | 8,0      | 27,5 | 20,2 | 12,7 |
| 101470818      | 8             | 1/8                | 14       | 11,0     | 23,0 | 21,3 | 7,7  |
| 101470828      | 8             | 1/4                | 14       | 11,0     | 26,1 | 21,3 | 11,1 |
| 101470838      | 8             | 3/8                | 17       | 13,3     | 30,5 | 21,8 | 12,7 |
| 101470848      | 8             | 1/2                | 22       | 13,3     | 34,5 | 21,8 | 15,9 |
| 101471018      | 10            | 1/8                | 14       | 13,3     | 25,5 | 26,7 | 7,7  |
| 101471028      | 10            | 1/4                | 17       | 13,3     | 28,8 | 26,7 | 11,1 |
| 101471038      | 10            | 3/8                | 17       | 13,3     | 30,5 | 26,7 | 12,7 |
| 101471048      | 10            | 1/2                | 22       | 13,3     | 34,5 | 26,7 | 15,9 |
| 101471228      | 12            | 1/4                | 19       | 16,0     | 31,8 | 31,7 | 11,1 |
| 101471238      | 12            | 3/8                | 22       | 16,0     | 34,2 | 31,7 | 12,7 |
| 101471248      | 12            | 1/2                | 22       | 16,0     | 38,2 | 31,7 | 15,9 |
| 101471438      | 14            | 3/8                | 22       | 17,0     | 33,2 | 30,7 | 12,7 |
| 101471448      | 14            | 1/2                | 22       | 17,0     | 37,0 | 31,7 | 15,9 |

## 90° Swivel Elbow Adaptor

O/D tube to male metric or  
parallel BSP thread



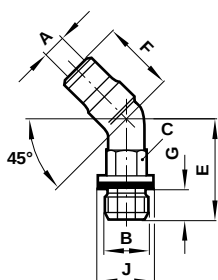
## 10247

| Product number | A<br>O/D tube | B<br>thread | C<br>D<br>A/F | E    | F    | G    | J    |
|----------------|---------------|-------------|---------------|------|------|------|------|
| 102470405      | 4             | M5 x 0,8    | 8             | 7,0  | 19,0 | 17,0 | 3,4  |
| 102470418      | 4             | 1/8         | 11            | 7,0  | 21,8 | 16,9 | 4,9  |
| 102470428      | 4             | 1/4         | 11            | 7,0  | 25,5 | 16,9 | 7,5  |
| 102470505      | 5             | M5 x 0,8    | 8             | 9,0  | 20,0 | 18,4 | 3,4  |
| 102470518      | 5             | 1/8         | 11            | 9,0  | 22,3 | 18,4 | 4,9  |
| 102470528      | 5             | 1/4         | 11            | 9,0  | 26,0 | 18,4 | 7,5  |
| 102470605      | 6             | M5 x 0,8    | 8             | 9,0  | 20,5 | 19,6 | 3,4  |
| 102470618      | 6             | 1/8         | 11            | 9,0  | 22,8 | 19,6 | 4,9  |
| 102470628      | 6             | 1/4         | 11            | 9,0  | 26,5 | 19,6 | 7,5  |
| 102470818      | 8             | 1/8         | 13            | 11,0 | 23,8 | 21,3 | 4,9  |
| 102470828      | 8             | 1/4         | 17            | 11,0 | 29,1 | 21,3 | 7,5  |
| 102470838      | 8             | 3/8         | 19            | 13,3 | 33,3 | 21,8 | 8,9  |
| 102470848      | 8             | 1/2         | 19            | 13,3 | 39,3 | 21,8 | 12,2 |
| 102471018      | 10            | 1/8         | 17            | 13,3 | 26,3 | 26,7 | 4,9  |
| 102471028      | 10            | 1/4         | 17            | 13,3 | 31,6 | 26,7 | 7,5  |
| 102471038      | 10            | 3/8         | 19            | 13,3 | 33,3 | 26,7 | 8,9  |
| 102471048      | 10            | 1/2         | 19            | 13,3 | 39,3 | 26,7 | 12,2 |
| 102471228      | 12            | 1/4         | 19            | 16,0 | 35,3 | 31,7 | 7,5  |
| 102471238      | 12            | 3/8         | 19            | 16,0 | 37,0 | 31,7 | 8,9  |
| 102471248      | 12            | 1/2         | 19            | 16,0 | 43,0 | 31,7 | 12,2 |
| 102471438      | 14            | 3/8         | 19            | 17,0 | 36,0 | 30,7 | 8,9  |
| 102471448      | 14            | 1/2         | 24            | 17,0 | 39,2 | 31,7 | 12,2 |

Supplied complete with sealing washer.

## 45° Swivel Adaptor

O/D tube to male parallel BSP thread



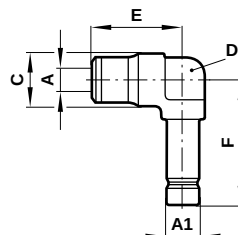
## 10257

| Product number | A<br>O/D tube | B<br>thread<br>BSP | C<br>A/F | E    | F    | G   | J    |
|----------------|---------------|--------------------|----------|------|------|-----|------|
| 102570618      | 6             | 1/8                | 11       | 19,3 | 17,7 | 4,9 | 13,8 |
| 102570628      | 6             | 1/4                | 11       | 23,0 | 17,7 | 7,5 | 17,8 |
| 102570818      | 8             | 1/8                | 11       | 20,6 | 19,5 | 4,9 | 13,8 |
| 102570828      | 8             | 1/4                | 17       | 25,9 | 19,5 | 7,5 | 17,8 |

Supplied Complete with Sealing Washer

## Stem Elbow Connector

O/D tube stem to O/D tube



## 10043

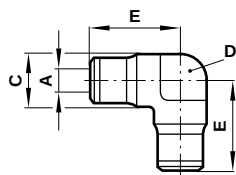
| Product number | A<br>O/D tube | A1<br>O/D stem | C  | D<br>A/F | E    | F    | G    |
|----------------|---------------|----------------|----|----------|------|------|------|
| 100430400      | 4             | 4              | 10 | 7        | 9,4  | 25,0 | 17,0 |
| 100430600*     | 6             | 6              | 12 | 9        | 18,9 | 27,5 | 18,5 |
| 100430800      | 8             | 8              | 14 | -        | 21,2 | 29,5 | 19,5 |
| 100430805      | 8             | 5              | 14 | -        | 19,5 | 30,0 | 20,0 |

\* Extended stem version=100440600



## Elbow Connector

O/D tube to O/D tube



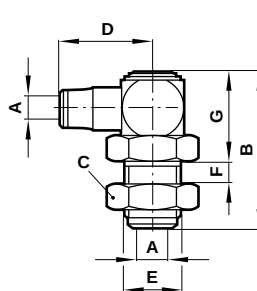
### 10040

| Product number | A<br>O/D tube | C    | D<br>A/F | E    |
|----------------|---------------|------|----------|------|
| 100400400      | 4             | 10,1 | 7,0      | 17,0 |
| 100400500      | 5             | 11,1 | 7,0      | 18,4 |
| 100400600*     | 6             | 12,1 | 8,0      | 19,6 |
| 100400800      | 8             | 14,3 | 11,0     | 21,3 |
| 100401000      | 10            | 17,1 | 13,3     | 26,7 |
| 100401200      | 12            | 20,6 | 16,0     | 31,7 |
| 100401400      | 14            | 21,6 | 17,0     | 33,2 |

\* Bracketed version = 100410600

## Bulkhead Swivel Elbow Connector

O/D tube to O/D tube



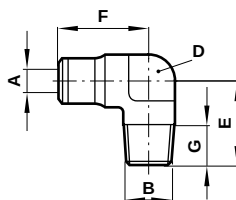
| Product number | A<br>O/D tube | B    | C<br>A/F | D    | E<br>thread | F<br>max | G    |
|----------------|---------------|------|----------|------|-------------|----------|------|
| 100490400      | 4             | 35,5 | 17       | 20,6 | M12x1,0     | 7        | 21,5 |
| 100490500      | 5             | 35,7 | 17       | 21,7 | M12x1,0     | 7        | 21,7 |
| 100490600      | 6             | 40,0 | 19       | 24,2 | M14x1,5     | 7        | 24,5 |
| 100490800      | 8             | 45,2 | 22       | 26,7 | M16x1,5     | 7        | 30,0 |
| 100491000      | 10            | 49,2 | 27       | 31,7 | M22x1,5     | 9        | 31,0 |
| 100491200      | 12            | 53,8 | 30       | 38,2 | M24x1,5     | 12       | 32,5 |
| 100491400      | 14            | 56,8 | 32       | 38,2 | M26x1,5     | 15       | 32,5 |

Fitting is supplied complete.

Additional locknuts may be ordered separately.

## Fixed Elbow Adaptor

O/D tube to male taper BSP thread

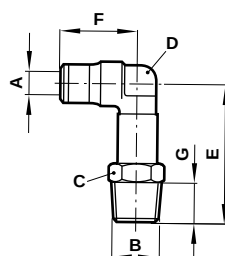


### 10145

| Product number | A<br>O/D tube | B<br>thread<br>BSP | D<br>A/F | E    | F    | G    |
|----------------|---------------|--------------------|----------|------|------|------|
| 101450418      | 4             | 1/8                | 7,0      | 15,0 | 16,9 | 7,7  |
| 101450428      | 4             | 1/4                | 11,0     | 20,2 | 18,2 | 11,1 |
| 101450518      | 5             | 1/8                | 7,0      | 15,5 | 18,4 | 7,7  |
| 101450528      | 5             | 1/4                | 11,0     | 20,2 | 20,0 | 11,1 |
| 101450618      | 6             | 1/8                | 8,0      | 16,0 | 19,6 | 7,7  |
| 101450628      | 6             | 1/4                | 11,0     | 20,2 | 20,0 | 11,1 |
| 101450818      | 8             | 1/8                | 11,0     | 16,9 | 21,3 | 7,7  |
| 101450828      | 8             | 1/4                | 11,0     | 20,2 | 21,3 | 11,1 |
| 101450838      | 8             | 3/8                | 13,3     | 23,3 | 22,0 | 12,7 |
| 101450848      | 8             | 1/2                | 17,0     | 28,8 | 24,2 | 15,9 |
| 101451018      | 10            | 1/8                | 13,3     | 18,5 | 26,7 | 7,7  |
| 101451028      | 10            | 1/4                | 13,3     | 21,6 | 26,7 | 11,1 |
| 101451038      | 10            | 3/8                | 13,3     | 23,3 | 26,7 | 12,7 |
| 101451048      | 10            | 1/2                | 17,0     | 28,8 | 28,7 | 15,9 |
| 101451228      | 12            | 1/4                | 16,0     | 23,3 | 31,7 | 11,1 |
| 101451238      | 12            | 3/8                | 16,0     | 25,0 | 31,7 | 12,7 |
| 101451248      | 12            | 1/2                | 17,0     | 28,8 | 32,2 | 15,9 |

## Extended Swivel Elbow Adaptor

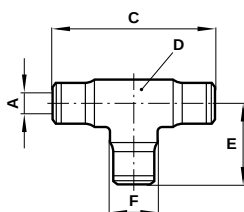
O/D tube to male taper BSP thread



| Product number | A<br>O/D tube | B<br>thread<br>BSP | C<br>A/F | E    | F    | G    | D    |
|----------------|---------------|--------------------|----------|------|------|------|------|
| 101540418      | 4             | 1/8                | 10,0     | 34,0 | 16,9 | 7,7  | 7,0  |
| 101540428      | 4             | 1/4                | 14,0     | 40,1 | 16,9 | 11,1 | 7,0  |
| 101540618      | 6             | 1/8                | 11,0     | 36,6 | 19,6 | 7,7  | 9,0  |
| 101540628      | 6             | 1/4                | 14,3     | 41,1 | 19,6 | 11,1 | 9,0  |
| 101540818      | 8             | 1/8                | 14,0     | 40,3 | 21,3 | 7,7  | 11,0 |
| 101540828      | 8             | 1/4                | 14,0     | 44,4 | 21,3 | 11,1 | 11,0 |
| 101540838      | 8             | 3/8                | 17,0     | 51,5 | 21,8 | 12,7 | 13,3 |
| 101541038      | 10            | 3/8                | 17,0     | 51,5 | 26,7 | 12,7 | 13,3 |

## Tee Connector

O/D tube to O/D tube



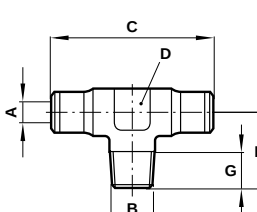
### 10060

| Product number | A<br>O/D tube | C    | D<br>A/F | E    | F    |
|----------------|---------------|------|----------|------|------|
| 100600400      | 4             | 33,8 | 7,0      | 16,9 | 10,1 |
| 100600500      | 5             | 36,8 | 7,0      | 18,4 | 11,1 |
| 100600600*     | 6             | 39,2 | 8,0      | 19,6 | 12,1 |
| 100600800      | 8             | 42,6 | 11,0     | 21,3 | 14,3 |
| 100601000      | 10            | 53,4 | 13,3     | 26,7 | 17,1 |
| 100601200      | 12            | 63,4 | 16,0     | 31,7 | 20,6 |
| 100601400      | 14            | 66,4 | 17,0     | 33,2 | 21,6 |

\* Bracketed version = 100610600

## Fixed Tee Adaptor

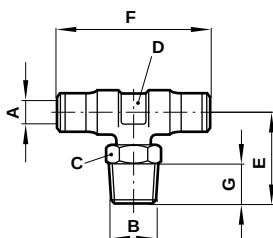
O/D tube to male taper BSP thread



| Product number | A<br>O/D tube | B<br>thread<br>BSP | C    | D    | E    | G    |
|----------------|---------------|--------------------|------|------|------|------|
| 101650418      | 4             | 1/8                | 33,8 | 7,0  | 15,0 | 7,7  |
| 101650518      | 5             | 1/8                | 36,8 | 7,0  | 15,5 | 7,7  |
| 101650528      | 5             | 1/4                | 40,0 | 11,0 | 20,2 | 11,1 |
| 101650618      | 6             | 1/8                | 39,2 | 8,0  | 16,0 | 7,7  |
| 101650628      | 6             | 1/4                | 40,0 | 11,0 | 20,2 | 11,1 |
| 101650818      | 8             | 1/8                | 42,6 | 11,0 | 16,9 | 7,7  |
| 101650828      | 8             | 1/4                | 42,6 | 11,0 | 20,2 | 11,1 |
| 101650838      | 8             | 3/8                | 44,0 | 13,3 | 23,3 | 12,7 |
| 101651028      | 10            | 1/4                | 53,4 | 13,3 | 21,6 | 11,1 |
| 101651038      | 10            | 3/8                | 53,4 | 13,3 | 23,3 | 12,7 |
| 101651228      | 12            | 1/4                | 63,4 | 16,0 | 23,3 | 11,1 |
| 101651238      | 12            | 3/8                | 63,2 | 16,0 | 25,0 | 12,7 |

**Swivel Tee Adaptor****10167**

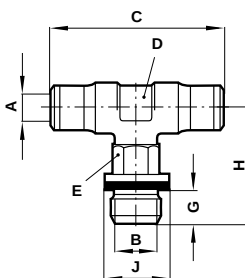
O/D tube to male taper BSP thread



| Product number | A O/D tube | B thread | C    | D A/F | E  | G    | H    |
|----------------|------------|----------|------|-------|----|------|------|
| 101670418      | 4          | 1/8      | 33,8 | 7,0   | 10 | 7,7  | 20,5 |
| 101670428      | 4          | 1/4      | 33,8 | 7,0   | 14 | 11,1 | 24,1 |
| 101670518      | 5          | 1/8      | 36,8 | 9,0   | 11 | 7,7  | 21,0 |
| 101670528      | 5          | 1/4      | 36,8 | 9,0   | 14 | 11,1 | 24,6 |
| 101670618      | 6          | 1/8      | 39,2 | 9,0   | 11 | 7,7  | 21,5 |
| 101670628      | 6          | 1/4      | 39,2 | 9,0   | 14 | 11,1 | 25,1 |
| 101670818      | 8          | 1/8      | 42,6 | 11,0  | 14 | 7,7  | 23,0 |
| 101670828      | 8          | 1/4      | 42,6 | 11,0  | 14 | 11,1 | 26,1 |
| 101670838      | 8          | 3/8      | 43,6 | 13,3  | 17 | 12,7 | 30,5 |
| 101671028      | 10         | 1/4      | 53,4 | 13,3  | 17 | 11,1 | 28,8 |
| 101671038      | 10         | 3/8      | 53,4 | 13,3  | 17 | 12,7 | 30,5 |
| 101671048      | 10         | 1/2      | 53,4 | 13,3  | 22 | 15,9 | 34,5 |
| 101671228      | 12         | 1/4      | 63,4 | 16,0  | 19 | 11,1 | 31,8 |
| 101671238      | 12         | 3/8      | 63,4 | 16,0  | 22 | 12,7 | 34,2 |
| 101671248      | 12         | 1/2      | 63,4 | 16,0  | 22 | 15,9 | 38,2 |
| 101671438      | 14         | 3/8      | 61,4 | 17,0  | 22 | 12,7 | 33,2 |
| 101671448      | 14         | 1/2      | 63,4 | 17,0  | 22 | 15,9 | 37,0 |

**Swivel Tee Adaptor****10267**

O/D tube to male metric or parallel BSP thread

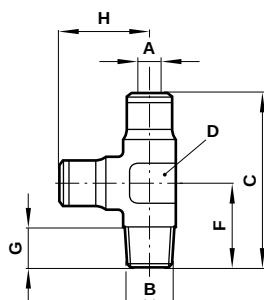


| Product number | A O/D tube | B thread | C    | D A/F | E  | F    | G    | H    | J    |
|----------------|------------|----------|------|-------|----|------|------|------|------|
| 102670405      | 4          | M5 x 0,8 | 34,0 | 7,0   | 8  | 5,0  | 3,4  | 19,5 | 8,0  |
| 102670418      | 4          | 1/8      | 33,8 | 7,0   | 11 | 7,2  | 4,9  | 21,8 | 13,8 |
| 102670505      | 5          | M5 x 0,8 | 36,8 | 9,0   | 8  | 20,0 | 3,4  | 20,0 | 8,0  |
| 102670518      | 5          | 1/8      | 36,8 | 9,0   | 11 | 7,2  | 4,9  | 22,3 | 13,8 |
| 102670528      | 5          | 1/4      | 36,8 | 9,0   | 11 | 9,8  | 7,5  | 26,0 | 17,8 |
| 102670605      | 6          | M5 x 0,8 | 39,2 | 9,0   | 8  | 20,5 | 3,4  | 20,5 | 8,0  |
| 102670618      | 6          | 1/8      | 39,2 | 9,0   | 11 | 7,2  | 4,9  | 22,8 | 13,8 |
| 102670628      | 6          | 1/4      | 39,2 | 9,0   | 11 | 9,8  | 7,5  | 26,5 | 17,8 |
| 102670818      | 8          | 1/8      | 42,6 | 11,0  | 13 | 7,2  | 4,9  | 23,6 | 13,8 |
| 102670828      | 8          | 1/4      | 42,6 | 11,0  | 17 | 9,8  | 7,5  | 29,1 | 17,8 |
| 102670838      | 8          | 3/8      | 43,6 | 13,3  | 19 | 11,2 | 8,9  | 21,8 | 21,8 |
| 102671028      | 10         | 1/4      | 53,4 | 13,3  | 17 | 9,8  | 7,5  | 31,6 | 17,8 |
| 102671038      | 10         | 3/8      | 53,4 | 13,3  | 19 | 11,2 | 8,9  | 33,3 | 21,8 |
| 102671228      | 12         | 1/4      | 63,4 | 16,0  | 19 | 9,8  | 7,5  | 35,3 | 17,8 |
| 102671238      | 12         | 3/8      | 63,4 | 16,0  | 19 | 11,2 | 8,9  | 37,0 | 21,8 |
| 102671438      | 14         | 3/8      | 61,4 | 17,0  | 19 | 11,2 | 8,9  | 36,0 | 21,8 |
| 102671448      | 14         | 1/2      | 63,4 | 17,0  | 24 | 14,7 | 12,2 | 39,2 | 25,8 |

Supplied Complete with Sealing Washer

**Fixed Side Tee Adaptor****10175**

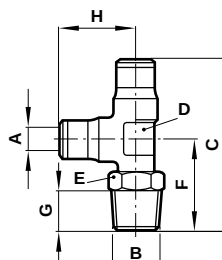
O/D tube to male taper BSP thread



| Product number | A O/D tube | B thread BSP | C A/F | D A/F | F    | G    | H    |
|----------------|------------|--------------|-------|-------|------|------|------|
| 101750418      | 4          | 1/8          | 31,9  | 7,0   | 15,0 | 7,7  | 16,9 |
| 101750518      | 5          | 1/8          | 33,9  | 7,0   | 15,5 | 7,7  | 18,4 |
| 101750528      | 5          | 1/4          | 40,2  | 11,0  | 20,2 | 11,1 | 20,0 |
| 101750618      | 6          | 1/8          | 35,6  | 8,0   | 16,0 | 7,7  | 19,6 |
| 101750628      | 6          | 1/4          | 40,2  | 11,0  | 20,2 | 11,1 | 20,0 |
| 101750818      | 8          | 1/8          | 38,2  | 11,0  | 16,9 | 7,7  | 21,3 |
| 101750828      | 8          | 1/4          | 41,5  | 11,0  | 20,2 | 11,1 | 21,3 |
| 101750838      | 8          | 3/8          | 45,3  | 13,3  | 23,3 | 12,7 | 22,0 |
| 101751028      | 10         | 1/4          | 48,3  | 13,3  | 21,6 | 11,1 | 26,7 |
| 101751038      | 10         | 3/8          | 50,0  | 13,3  | 23,3 | 12,7 | 26,7 |
| 101751228      | 12         | 1/4          | 55,0  | 16,0  | 23,3 | 11,1 | 31,7 |
| 101751238      | 12         | 3/8          | 56,7  | 16,0  | 25,0 | 12,7 | 31,7 |

**Swivel Side Tee Adaptor****10168**

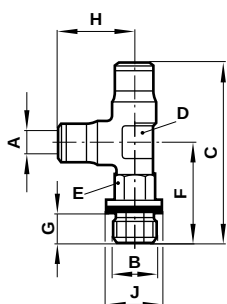
O/D tube to male taper BSP thread



| Product number | A O/D tube | B thread | C    | D A/F | E  | F    | G    | J    |
|----------------|------------|----------|------|-------|----|------|------|------|
| 101680418      | 4          | 1/8      | 37,4 | 7,0   | 10 | 20,5 | 7,7  | 16,9 |
| 101680428      | 4          | 1/4      | 41,0 | 7,0   | 14 | 24,1 | 11,1 | 16,9 |
| 101680518      | 5          | 1/8      | 39,4 | 9,0   | 11 | 21,0 | 7,7  | 18,4 |
| 101680528      | 5          | 1/4      | 43,0 | 9,0   | 14 | 24,6 | 11,1 | 18,4 |
| 101680618      | 6          | 1/8      | 41,1 | 9,0   | 11 | 21,5 | 7,7  | 19,6 |
| 101680628      | 6          | 1/4      | 44,7 | 9,0   | 14 | 25,1 | 11,1 | 19,6 |
| 101680818      | 8          | 1/8      | 44,3 | 11,0  | 14 | 23,0 | 7,7  | 21,3 |
| 101680828      | 8          | 1/4      | 47,4 | 11,0  | 14 | 26,1 | 11,1 | 21,3 |
| 101680838      | 8          | 3/8      | 52,3 | 13,3  | 17 | 30,5 | 12,7 | 21,8 |
| 101681028      | 10         | 1/4      | 55,5 | 13,3  | 17 | 28,8 | 11,1 | 26,7 |
| 101681038      | 10         | 3/8      | 57,2 | 13,3  | 17 | 30,5 | 12,7 | 26,7 |
| 101681228      | 12         | 1/4      | 63,5 | 16,0  | 19 | 31,8 | 11,1 | 31,7 |
| 101681238      | 12         | 3/8      | 65,9 | 16,0  | 22 | 34,2 | 12,7 | 31,7 |
| 101681248      | 12         | 1/2      | 69,9 | 16,0  | 22 | 38,2 | 15,9 | 31,7 |
| 101681438      | 14         | 3/8      | 66,5 | 17,0  | 22 | 33,2 | 12,7 | 33,2 |
| 101681448      | 14         | 1/2      | 70,2 | 17,0  | 22 | 37,0 | 15,9 | 33,2 |

**Swivel Side Tee Adaptor****10268**

O/D tube to male metric or parallel BSP thread

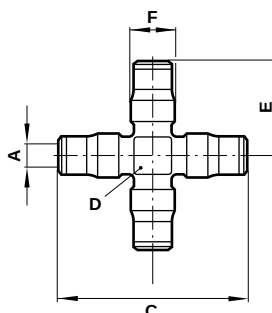


| Product number | A O/D tube | B thread | C    | D A/F | E    | F    | G    | H    | J    |
|----------------|------------|----------|------|-------|------|------|------|------|------|
| 102680405      | 4          | M5x0,8   | 36,5 | 7,0   | 8,0  | 19,5 | 3,4  | 17,0 | 8,0  |
| 102680418      | 4          | 1/8      | 38,7 | 7,0   | 11,0 | 21,8 | 4,9  | 16,9 | 13,8 |
| 102680505      | 5          | M5x0,8   | 39,0 | 7,0   | 8,0  | 20,6 | 3,4  | 18,4 | 8,0  |
| 102680518      | 5          | 1/8      | 40,7 | 9,0   | 11,0 | 22,3 | 4,9  | 18,4 | 13,8 |
| 102680528      | 5          | 1/4      | 44,4 | 9,0   | 11,0 | 26,0 | 7,5  | 18,4 | 17,8 |
| 102680618      | 6          | 1/8      | 42,4 | 9,0   | 11,0 | 22,8 | 4,9  | 19,6 | 13,8 |
| 102680628      | 6          | 1/4      | 46,1 | 9,0   | 11,0 | 26,5 | 7,5  | 19,6 | 17,8 |
| 102680818      | 8          | 1/8      | 45,1 | 11,0  | 13,0 | 23,8 | 4,9  | 21,3 | 13,8 |
| 102680828      | 8          | 1/4      | 50,4 | 11,0  | 17,0 | 29,1 | 7,5  | 21,3 | 17,8 |
| 102680838      | 8          | 3/8      | 55,0 | 13,3  | 19,0 | 33,3 | 8,9  | 21,3 | 21,9 |
| 102681028      | 10         | 1/4      | 58,3 | 13,3  | 17,0 | 31,6 | 7,4  | 26,7 | 17,8 |
| 102681038      | 10         | 3/8      | 60,0 | 13,3  | 19,0 | 33,3 | 8,9  | 26,7 | 21,8 |
| 102681228      | 12         | 1/4      | 67,0 | 16,0  | 19,0 | 35,3 | 7,5  | 31,7 | 17,8 |
| 102681238      | 12         | 3/8      | 68,7 | 16,0  | 19,0 | 37,0 | 8,9  | 31,7 | 21,8 |
| 102681438      | 14         | 3/8      | 69,2 | 17,0  | 19,0 | 36,0 | 8,9  | 33,2 | 21,8 |
| 102681448      | 14         | 1/2      | 72,5 | 17,0  | 24,0 | 39,2 | 12,2 | 33,2 | 25,8 |

Supplied complete with sealing washer.

**4 Way Cross Connector****10090**

O/D tube x 4



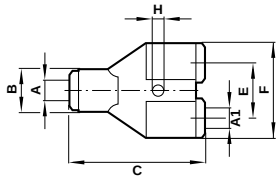
| Product number | A O/D stem | C    | D A/F | E    | F    |
|----------------|------------|------|-------|------|------|
| 100900400      | 4          | 42,0 | 10    | 21,0 | 10,4 |
| 100900500      | 5          | 45,4 | 10    | 22,7 | 11,1 |
| 100900600      | 6          | 47,4 | 10    | 23,7 | 12,1 |
| 100900800      | 8          | 57,4 | 13    | 28,7 | 14,3 |
| 100901000      | 10         | 68,4 | 13    | 34,2 | 17,1 |



## Parallel Y Connector

O/D tube to O/D tube

# 10082



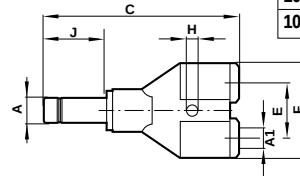
| Product number | A O/D tube | A1 O/D tube | B    | C    | E    | F    | H   |
|----------------|------------|-------------|------|------|------|------|-----|
| 100820400      | 4          | 4           | 11   | 34,0 | 11,0 | 22,0 | 3,2 |
| 100820600      | 6          | 6           | 13   | 38,4 | 14,0 | 27,0 | 3,2 |
| 100820800      | 8          | 8           | 15   | 40,4 | 16,0 | 31,0 | 3,2 |
| 100821000      | 10         | 10          | 20,0 | 49,4 | 20,6 | 42,0 | 4,2 |
| 100820604      | 6          | 4           | 13   | 38,2 | 14,0 | 27,0 | 3,2 |
| 100820806      | 8          | 6           | 15   | 40,4 | 16,3 | 31,0 | 3,2 |
| 100821008      | 10         | 8           | 20,0 | 49,4 | 20,6 | 42,0 | 4,2 |

Plastic Body. N.B Mounting hole

## Parallel Y Stem Connector

O/D stem to O/D tube

# 10084

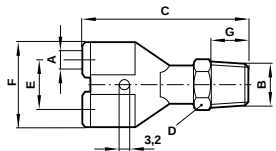


| Product number | A O/D stem | A1 O/D tube | C    | E  | F    | H    | J    |
|----------------|------------|-------------|------|----|------|------|------|
| 100840404      | 4          | 4           | 50,2 | 11 | 22,5 | 3,20 | 17,3 |
| 100840604      | 6          | 4           | 51,4 | 11 | 22,5 | 3,20 | 18,5 |
| 100840606      | 6          | 6           | 55,7 | 14 | 28,0 | 3,20 | 18,5 |
| 100840808      | 8          | 8           | 58,7 | 16 | 32,0 | 3,20 | 19,5 |

## Parallel Y Adaptor

O/D tube to male taper BSP thread

# 10188



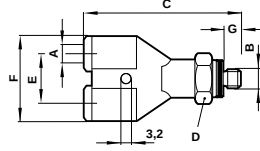
| Product number | A O/D tube | B thread | C    | D A/F | E    | F    | G    |
|----------------|------------|----------|------|-------|------|------|------|
| 101880418      | 4          | 1/8      | 43,7 | 10    | 11,0 | 22,5 | 7,7  |
| 101880618      | 6          | 1/8      | 48,2 | 11    | 14,0 | 28,0 | 7,7  |
| 101880818      | 8          | 1/8      | 51,2 | 14    | 16,0 | 32,0 | 7,7  |
| 101880828      | 8          | 1/4      | 54,7 | 11    | 16,0 | 32,0 | 11,1 |
| 101881038      | 10         | 3/8      | 66,9 | 19    | 22   | 42,5 | 12,7 |
| 101881048      | 10         | 1/2      | 70,1 | 22    | 22   | 42,5 | 15,9 |

Plastic Body. N.B Mounting hole

## Parallel Y Adaptor

O/D tube to male metric or parallel BSP thread

# 10288

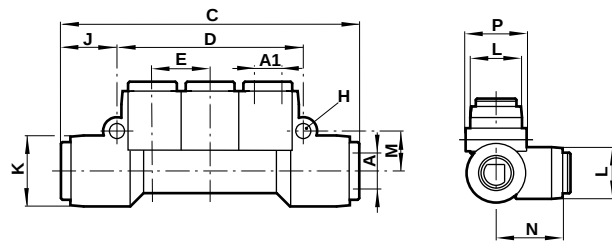


| Product number | A O/D tube | B thread | C    | D A/F | E    | F    | G   |
|----------------|------------|----------|------|-------|------|------|-----|
| 102880405      | 4          | M5 x 0,8 | 42,7 | 10    | 11,0 | 22,5 | 3,4 |
| 102880605      | 6          | M5 x 0,8 | 47,2 | 11    | 14,0 | 28,0 | 3,4 |

Plastic Body. N.B Mounting hole  
Supplied Complete with Sealing Washer

## Manifold

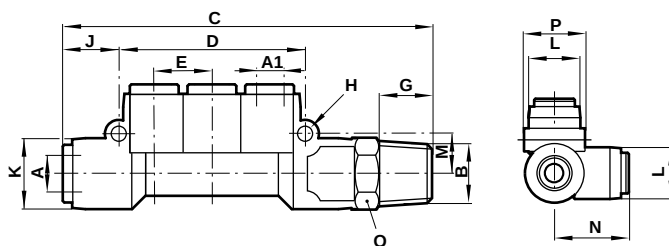
O/D tube to O/D tube



| Product number | A O/D tube inlet | A1 O/D tube outlet | C  | D    | E    | H   | J    | K    | L    | M    | N    | P    |
|----------------|------------------|--------------------|----|------|------|-----|------|------|------|------|------|------|
| 100D60804      | 8                | 4                  | 68 | 42,0 | 13,0 | 3,4 | 12,7 | 16,0 | 14,0 | 9,0  | 20,0 | 16,4 |
| 100D60806      | 8                | 6                  | 68 | 42,0 | 13,0 | 3,4 | 12,7 | 16,0 | 14,0 | 9,0  | 20,2 | 16,4 |
| 100D61006      | 10               | 6                  | 83 | 48,0 | 15,0 | 3,4 | 17,2 | 20,0 | 16,0 | 10,5 | 22,7 | 20,4 |
| 100D61008      | 10               | 8                  | 83 | 48,0 | 15,0 | 3,4 | 17,2 | 20,0 | 16,0 | 10,5 | 22,7 | 20,4 |

## Manifold

O/D tube to male taper BSP thread



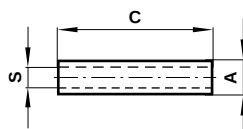
| Product number | A O/D tube inlet | A1 O/D tube outlet | B thread | C   | D    | E    | G    | H   | J    | K    | L    | M    | N    | P    | Q A/F |
|----------------|------------------|--------------------|----------|-----|------|------|------|-----|------|------|------|------|------|------|-------|
| 101D60428      | 8                | 4                  | 1/4      | 83  | 42,0 | 13,0 | 11,1 | 3,4 | 12,7 | 16,0 | 14,0 | 9,0  | 20,2 | 16,4 | 17    |
| 101D60438      | 8                | 4                  | 3/8      | 85  | 42,0 | 13,0 | 12,7 | 3,4 | 12,7 | 16,0 | 14,0 | 9,0  | 20,2 | 6,4  | 19    |
| 101D60628      | 8                | 6                  | 1/4      | 83  | 42,0 | 13,0 | 11,1 | 3,4 | 12,7 | 16,0 | 14,0 | 9,0  | 20,2 | 16,4 | 17    |
| 101D60638      | 8                | 6                  | 3/8      | 85  | 42,0 | 13,0 | 12,7 | 3,4 | 12,7 | 16,0 | 14,0 | 9,0  | 20,2 | 16,4 | 19    |
| 101D60838      | 10               | 8                  | 3/8      | 100 | 48,0 | 15,0 | 12,7 | 3,4 | 17,2 | 20,0 | 16,0 | 10,5 | 22,7 | 20,4 | 19    |
| 101D60848      | 10               | 8                  | 1/2      | 104 | 48,0 | 15,0 | 15,9 | 3,4 | 17,2 | 20,0 | 16,0 | 10,5 | 22,7 | 20,4 | 22    |



## Straight Stem Connector – Plastic

11022

O/D tube stem to O/D tube stem

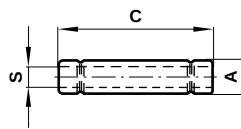


| Product number | A<br>O/D stem | C    | S    |
|----------------|---------------|------|------|
| 110220400      | 4             | 30,2 | 2,5  |
| 110220500      | 5             | 33,2 | 3,3  |
| 110220600      | 6             | 34,0 | 4,0  |
| 110220800      | 8             | 36,0 | 5,4  |
| 110221000      | 10            | 45,0 | 7,0  |
| 110221200      | 12            | 52,0 | 8,5  |
| 110221400      | 14            | 51,8 | 11,0 |

## Straight Stem Connector – Brass

10022

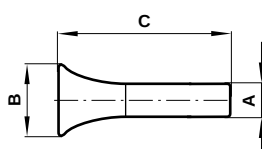
O/D tube stem to O/D tube stem



| Product number | A<br>O/D stem | B    | S    |
|----------------|---------------|------|------|
| 100220400      | 4             | 30,2 | 2,6  |
| 100220500      | 5             | 33,2 | 3,4  |
| 100220600      | 6             | 34,0 | 4,0  |
| 100220800      | 8             | 36,0 | 6,0  |
| 100221000      | 10            | 45,0 | 7,6  |
| 100221200      | 12            | 52,0 | 9,6  |
| 100221400      | 14            | 51,8 | 11,5 |

## Plug (Plastic)

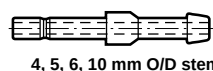
11004



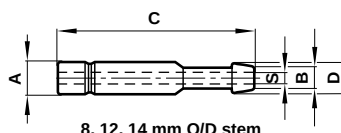
| Product number | A<br>O/D stem | B    | C    |
|----------------|---------------|------|------|
| 110040400      | 4             | 9,6  | 26,5 |
| 110040500      | 5             | 10,6 | 28,0 |
| 110040600      | 6             | 11,6 | 28,5 |
| 110040800      | 8             | 12,7 | 29,5 |
| 110041000      | 10            | 15,6 | 34,0 |
| 110041200      | 12            | 16,7 | 37,5 |
| 110041400      | 14            | 19,6 | 37,5 |

Stem Tailpiece Adaptor  
O/D tube stem to hose bore

10019



4, 5, 6, 10 mm O/D stem



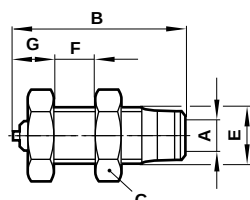
8, 12, 14 mm O/D stem

| Product number | A<br>O/D stem | B<br>hose bore | C    | D    | S<br>nom. |
|----------------|---------------|----------------|------|------|-----------|
| 100190403      | 4             | 3              | 34,0 | 4,3  | 1,8       |
| 100190405      | 4             | 5              | 34,0 | 6,3  | 2,1       |
| 100190505      | 5             | 5              | 35,6 | 6,3  | 2,8       |
| 100190605      | 6             | 5              | 36,0 | 6,3  | 2,8       |
| 100190606      | 6             | 6,3            | 36,0 | 8,0  | 4,0       |
| 100190806      | 8             | 6,3            | 37,0 | 8,0  | 4,3       |
| 100190808      | 8             | 8              | 38,5 | 9,6  | 5,5       |
| 100191006      | 10            | 6,3            | 41,5 | 8,0  | 4,3       |
| 100191008      | 10            | 8              | 43,0 | 9,6  | 5,5       |
| 100191010      | 10            | 10             | 44,0 | 12,0 | 7,3       |
| 100191208      | 12            | 8              | 46,5 | 9,6  | 5,5       |
| 100191210      | 12            | 10             | 46,5 | 12,0 | 7,3       |
| 100191212      | 12            | 12,5           | 47,3 | 15,0 | 9,7       |
| 100191412      | 14            | 12,5           | 47,2 | 15,0 | 9,7       |

## Pressure Indicators

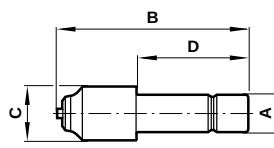
10009

Panel Mounted



| Product number | A<br>O/D tube | B    | C  | E<br>thread | F<br>max. | G   |
|----------------|---------------|------|----|-------------|-----------|-----|
| 100090400      | 4             | 28,4 | 14 | M10x1,0     | 6,5       | 8,3 |
| 100090600      | 6             | 30,5 | 19 | M14x1,5     | 7,0       | 9,3 |
| 100090800      | 8             | 32,5 | 22 | M16x1,5     | 7,0       | 9,3 |

Plug-In



10010

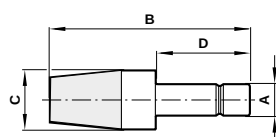
| Product number | A<br>thread | B    | C<br>A/F | D    |
|----------------|-------------|------|----------|------|
| 100100400      | 4           | 28,5 | 8,0      | 16,6 |
| 100100600      | 6           | 30,5 | 8,0      | 18,5 |
| 100100800      | 8           | 31,5 | 10,0     | 19,5 |

Note: The red button remains **OUT** at all times until pressed in.  
If it stays **IN** no pressure is present, if it returns **OUT** then pressure is present.  
The minimum operating pressure is 1 bar.

## Silencers

10011

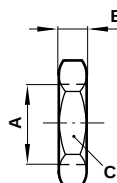
Plug-In



| Product number | A<br>thread | B    | C<br>A/F | D    |
|----------------|-------------|------|----------|------|
| 100110400      | 4           | 31,5 | 11,0     | 16,6 |
| 100110600      | 6           | 33,5 | 11,0     | 18,5 |
| 100110800      | 8           | 40,5 | 13,0     | 19,5 |
| 100111000      | 10          | 53,5 | 19,2     | 24,0 |
| 100111200      | 12          | 57,0 | 19,2     | 27,5 |

Sintered bronze element

## Bulkhead Locknut

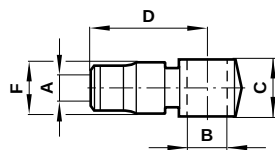


| Product number | A<br>thread | B | C<br>A/F |
|----------------|-------------|---|----------|
| 36252018       | M10x1,0     | 5 | 14       |
| 36252001       | M12x1,0     | 5 | 17       |
| 36252002       | M14x1,5     | 6 | 19       |
| 36252004       | M16x1,5     | 6 | 22       |
| 36252006       | M20x1,5     | 7 | 27       |
| 36252007       | M24x1,5     | 7 | 30       |



## Elbow Banjo Body

O/D tube

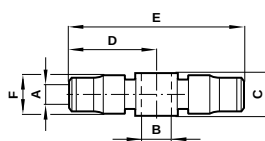


## 10051

| Product number | A<br>O/D<br>tube | B<br>thread<br>BSP | C    | D    | F    |
|----------------|------------------|--------------------|------|------|------|
| 100510405      | 4                | M5x0,8             | 12,6 | 18,7 | 9,5  |
| 100510418      | 4                | 1/8                | 14,0 | 20,6 | 11,0 |
| 100510505      | 5                | M5x0,8             | 12,6 | 20,2 | 11,0 |
| 100510518      | 5                | 1/8                | 14,0 | 21,7 | 11,5 |
| 100510605      | 6                | M5x0,8             | 12,6 | 22,2 | 12,5 |
| 100510618      | 6                | 1/8                | 14,0 | 23,7 | 12,5 |
| 100510628      | 6                | 1/4                | 16,0 | 24,2 | 13,0 |
| 100510818      | 8                | 1/8                | 14,0 | 23,7 | 14,0 |
| 100510828      | 8                | 1/4                | 16,0 | 24,7 | 14,0 |
| 100510838      | 8                | 3/8                | 20,5 | 26,7 | 16,5 |
| 100511028      | 10               | 1/4                | 16,0 | 30,2 | 16,0 |
| 100511038      | 10               | 3/8                | 20,5 | 31,2 | 17,0 |
| 100511238      | 12               | 3/8                | 20,5 | 33,2 | 17,5 |
| 100511248      | 12               | 1/2                | 22,0 | 38,2 | 17,5 |

## Tee Banjo Body

O/D tube



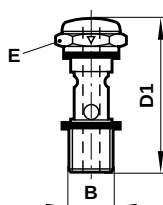
## 10071

| Product number | A<br>O/D<br>tube | B<br>thread<br>BSP | C    | D    | E    | F    |
|----------------|------------------|--------------------|------|------|------|------|
| 100710405      | 4                | M5x0,8             | 12,6 | 18,7 | 37,4 | 9,5  |
| 100710418      | 4                | 1/8                | 14,0 | 20,6 | 41,2 | 11,0 |
| 100710505      | 5                | M5x0,8             | 12,6 | 20,2 | 40,4 | 11,0 |
| 100710518      | 5                | 1/8                | 14,0 | 21,7 | 43,3 | 11,5 |
| 100710605      | 6                | M5x0,8             | 12,6 | 20,7 | 41,4 | 11,5 |
| 100710618      | 6                | 1/8                | 14,0 | 23,7 | 47,4 | 12,5 |
| 100710628      | 6                | 1/4                | 16,0 | 24,2 | 48,4 | 13,0 |
| 100710818      | 8                | 1/8                | 14,0 | 23,7 | 47,4 | 14,0 |
| 100710828      | 8                | 1/4                | 16,0 | 24,7 | 49,4 | 14,0 |

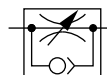
## Banjo Bolt – Regulating

Single stacking BSP parallel  
Pressure rating on this item 10 bar

## 20\*00

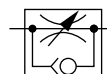


### Regulating Out



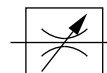
| Product number | B<br>thread | D1   | E<br>A/F |
|----------------|-------------|------|----------|
| 20K000005      | M5 x 0,8    | 27,3 | 8        |
| 20K000018      | 1/8         | 34,0 | 14       |
| 20K000028      | 1/4         | 36,5 | 17       |
| 20K000038      | 3/8         | 51,5 | 22       |
| 20K000048      | 1/2         | 57,0 | 27       |

### Regulating In



| Product number | B<br>thread | D1   | E<br>A/F |
|----------------|-------------|------|----------|
| 20L000005      | M5 x 0,8    | 27,3 | 8        |
| 20L000018      | 1/8         | 34,0 | 14       |
| 20L000028      | 1/4         | 36,5 | 17       |
| 20L000038      | 3/8         | 51,5 | 22       |
| 20L000048      | 1/2         | 57,0 | 27       |

### Bi-Directional Flow



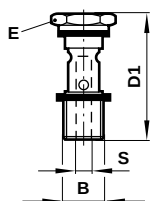
| Product number | B<br>thread | D1   | E<br>A/F |
|----------------|-------------|------|----------|
| 20M000005      | M5 x 0,8    | 27,3 | 8        |
| 20M000018      | 1/8         | 34,0 | 14       |
| 20M000028      | 1/4         | 36,5 | 17       |
| 20M000038      | 3/8         | 51,5 | 22       |
| 20M000048      | 1/2         | 57,0 | 27       |

All banjo bolts supplied complete with sealing washers.  
Arrow on bolt hexagon indicates free flow direction.



### Banjo Bolt – Non Regulating Single Stacking BSP parallel

## 20A00

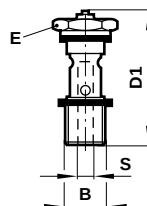


| Product number | B thread | D1   | E A/F | S    |
|----------------|----------|------|-------|------|
| 20A000005      | M5x0,8   | 22   | 8     | 2,5  |
| 20A000018      | 1/8      | 30   | 14    | 5,0  |
| 20A000028      | 1/4      | 34   | 17    | 8,5  |
| 20A000038      | 3/8      | 41   | 22    | 10,0 |
| 20A000048      | 1/2      | 47,5 | 27    | 11,5 |

Supplied complete with sealing washers.

### Banjo Bolt – Non Regulating Single Stacking with Test Point

## 20J00

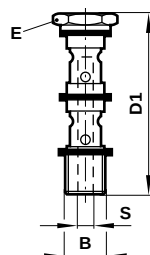


| Product number | B thread BSP | D1   | E A/F | S    |
|----------------|--------------|------|-------|------|
| 20J000018      | 1/8          | 35,0 | 14    | 5,0  |
| 20J000028      | 1/4          | 39,0 | 17    | 8,5  |
| 20J000038      | 3/8          | 46,0 | 22    | 10,0 |

Supplied complete with sealing washers.

### Banjo Bolt – Non Regulating Double Stacking BSP parallel

## 20B00

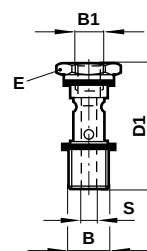


| Product number | B thread | D1   | E A/F | S    |
|----------------|----------|------|-------|------|
| 20B000005      | M5x0,8   | 34,5 | 8     | 2,5  |
| 20B000018      | 1/8      | 46,5 | 14    | 5,0  |
| 20B000028      | 1/4      | 52,5 | 17    | 8,5  |
| 20B000038      | 3/8      | 64,0 | 22    | 10,0 |
| 20B000048      | 1/2      | 72,5 | 27    | 11,5 |

Supplied complete with sealing washers.

### Banjo Bolt – Non Regulating Single Stacking with Top Port BSP parallel

## 20\*00

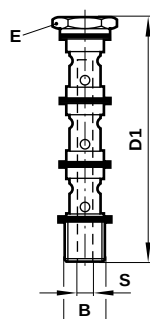


| Product number | B1 thread BSP | B thread BSP | D1   | E A/F | S    |
|----------------|---------------|--------------|------|-------|------|
| 20D000505      | M5x0,8        | M5x0,8       | 25,6 | 8     | 2,5  |
| 20D000528      | M5x0,8        | 1/4          | 34,0 | 17    | 8,5  |
| 20D000538      | M5x0,8        | 3/8          | 41,0 | 22    | 10,0 |
| 20E001818      | 1/8           | 1/8          | 36,0 | 14    | 5,0  |
| 20E001828      | 1/8           | 1/4          | 35,5 | 17    | 6,0  |
| 20E001838      | 1/8           | 3/8          | 41,0 | 22    | 10,0 |
| 20F002828      | 1/4           | 1/4          | 45,0 | 17    | 8,5  |
| 20G003838      | 3/8           | 3/8          | 52,0 | 22    | 10,0 |

Supplied complete with sealing washers.

### Banjo Bolt – Non Regulating Triple Stacking BSP parallel

## 20C00



| Product number | B thread | D1   | E A/F | S    |
|----------------|----------|------|-------|------|
| 20C000018      | 1/8      | 63,0 | 14    | 5,0  |
| 20C000028      | 1/4      | 71,5 | 17    | 8,5  |
| 20C000038      | 3/8      | 87,0 | 22    | 10,0 |

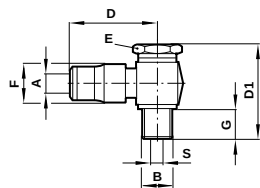
Supplied complete with sealing washers.



## Elbow Banjo Assembly Non Regulating Bolt

# 10A51

O/D tube to male metric or parallel BSP thread



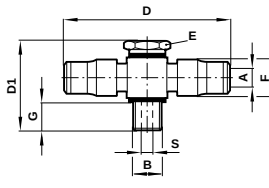
| Product number | A<br>O/D<br>tube | B<br>thread | D    | D1 | E<br>A/F | F    | G   | S    |
|----------------|------------------|-------------|------|----|----------|------|-----|------|
| 10A510405      | 4                | M5x0,8      | 18,7 | 22 | 8        | 9,5  | 4,0 | 2,5  |
| 10A510418      | 4                | 1/8         | 20,6 | 30 | 14       | 11,0 | 6,0 | 5,0  |
| 10A510505      | 5                | M5x0,8      | 20,2 | 22 | 8        | 11,0 | 4,0 | 2,5  |
| 10A510518      | 5                | 1/8         | 21,7 | 30 | 14       | 11,5 | 6,0 | 5,0  |
| 10A510605      | 6                | M5x0,8      | 22,2 | 22 | 8        | 12,5 | 4,0 | 2,5  |
| 10A510618      | 6                | 1/8         | 23,7 | 30 | 14       | 12,5 | 6,0 | 5,0  |
| 10A510628      | 6                | 1/4         | 24,2 | 34 | 17       | 13,0 | 7,4 | 8,5  |
| 10A510818      | 8                | 1/8         | 23,7 | 30 | 14       | 14,0 | 6,0 | 5,0  |
| 10A510828      | 8                | 1/4         | 24,7 | 34 | 17       | 14,0 | 7,4 | 8,5  |
| 10A510838      | 8                | 3/8         | 26,7 | 41 | 22       | 16,5 | 9,0 | 10,0 |
| 10A511028      | 10               | 1/4         | 30,2 | 34 | 17       | 16,0 | 7,4 | 8,5  |
| 10A511038      | 10               | 3/8         | 31,2 | 41 | 22       | 17,0 | 9,0 | 10,0 |

Supplied complete with sealing washers.

## Tee Banjo Assembly Non Regulating Bolt

# 10A71

O/D tube to male metric or parallel BSP thread



| Product number | A<br>O/D<br>tube | B<br>thread | D    | D1 | E<br>A/F | F    | G   | S   |
|----------------|------------------|-------------|------|----|----------|------|-----|-----|
| 10A710405      | 4                | M5x0,8      | 37,4 | 22 | 8        | 9,5  | 4,0 | 2,5 |
| 10A710418      | 4                | 1/8         | 41,2 | 30 | 14       | 11,0 | 6,0 | 5,0 |
| 10A710505      | 5                | M5x0,8      | 40,4 | 22 | 8        | 11,0 | 4,0 | 2,5 |
| 10A710518      | 5                | 1/8         | 43,4 | 30 | 14       | 11,5 | 6,0 | 5,0 |
| 10A710605      | 6                | M5x0,8      | 41,4 | 22 | 8        | 11,5 | 4,0 | 2,5 |
| 10A710618      | 6                | 1/8         | 47,4 | 30 | 14       | 12,5 | 6,0 | 5,0 |
| 10A710628      | 6                | 1/4         | 48,4 | 34 | 17       | 13,0 | 7,4 | 8,5 |
| 10A710818      | 8                | 1/8         | 47,4 | 30 | 14       | 14,0 | 6,0 | 5,0 |
| 10A710828      | 8                | 1/4         | 49,4 | 34 | 17       | 14,0 | 7,4 | 8,5 |

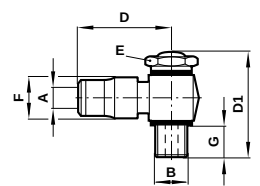
Supplied complete with sealing washers.

## Elbow Banjo Assembly Regulating Out

# 10K51

O/D tube to male metric or parallel BSP thread

Pressure rating on this item 10 bar

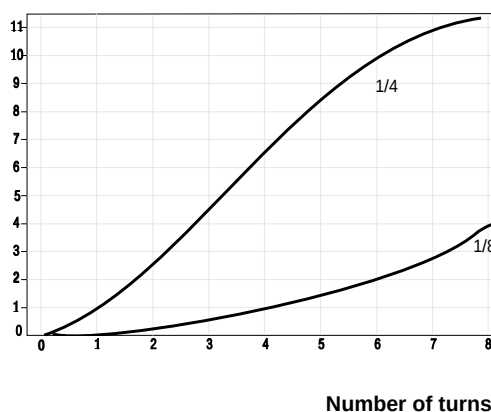


| Product number | A<br>O/D<br>tube | B<br>thread | D    | D1   | E<br>A/F | F    | G    |
|----------------|------------------|-------------|------|------|----------|------|------|
| 10K510405      | 4                | M5x0,8      | 18,7 | 27,0 | 8        | 9,5  | 4,4  |
| 10K510418      | 4                | 1/8         | 20,6 | 34,0 | 14       | 11,0 | 6,0  |
| 10K510505      | 5                | M5x0,8      | 20,2 | 27,0 | 8        | 11,0 | 4,4  |
| 10K510518      | 5                | 1/8         | 21,7 | 34,0 | 14       | 11,5 | 6,0  |
| 10K510605      | 6                | M5x0,8      | 22,2 | 27,0 | 8        | 12,5 | 4,4  |
| 10K510618      | 6                | 1/8         | 23,7 | 34,0 | 14       | 12,5 | 6,0  |
| 10K510628      | 6                | 1/4         | 24,2 | 36,5 | 17       | 13,0 | 6,0  |
| 10K510818      | 8                | 1/8         | 23,7 | 34,0 | 14       | 13,5 | 6,0  |
| 10K510828      | 8                | 1/4         | 24,7 | 36,5 | 17       | 14,0 | 6,0  |
| 10K510838      | 8                | 3/8         | 26,7 | 51,5 | 22       | 16,5 | 10,0 |
| 10K511028      | 10               | 1/4         | 30,2 | 36,5 | 17       | 15,7 | 6,0  |
| 10K511038      | 10               | 3/8         | 31,2 | 51,5 | 22       | 17,0 | 10,0 |
| 10K511238      | 12               | 3/8         | 33,2 | 51,5 | 22       | 17,5 | 10,0 |
| 10K511248      | 12               | 1/2         | 38,2 | 57,5 | 27       | 17,5 | 10,0 |

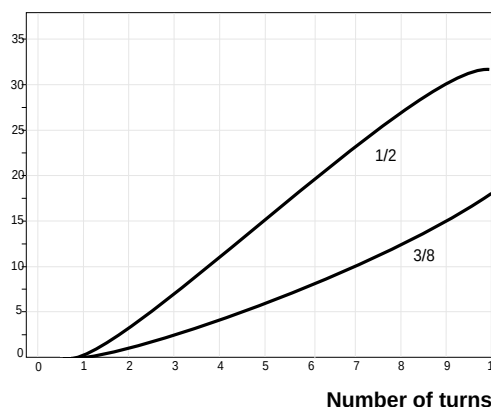
Supplied complete with sealing washers.

## Typical Flow Characteristics

Flow of Air (L/S)



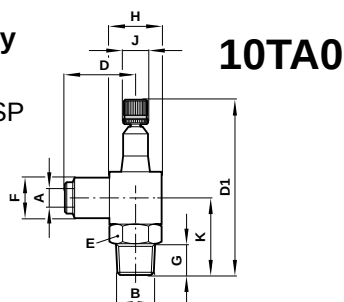
Flow of Air (L/S)





## Elbow Banjo Assembly

Regulating Out  
O/D tube to male taper BSP  
thread  
Pressure rating on this item  
10 bar

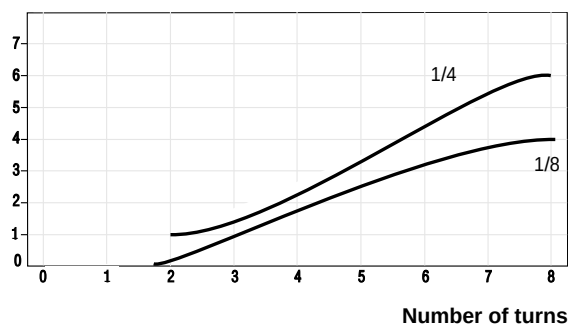


| Product number | A<br>O/D tube | B             | D1<br>Closed | D    | E<br>A/F | F    | G    | J    | H<br>Square | K    |
|----------------|---------------|---------------|--------------|------|----------|------|------|------|-------------|------|
| 10TA00418      | 4             | $\frac{1}{8}$ | 53           | 22,0 | 14       | 11,5 | 9,5  | 9,0  | 16          | 22,5 |
| 10TA00618      | 6             | $\frac{1}{8}$ | 53           | 23,0 | 14       | 13,0 | 9,5  | 9,0  | 16          | 22,5 |
| 10TA00628      | 6             | $\frac{1}{4}$ | 67           | 25,5 | 17       | 13,5 | 13,5 | 11,0 | 20          | 29,5 |
| 10TA00828      | 8             | $\frac{1}{4}$ | 67           | 27,0 | 17       | 15,5 | 14,5 | 11,0 | 20          | 29,5 |
| 10TA00838      | 8             | $\frac{3}{8}$ | 78           | 28,0 | 19       | 15,5 | 14,5 | 13,0 | 22          | 33,0 |
| 10TA01028      | 10            | $\frac{1}{4}$ | 67           | 31,5 | 17       | 19,5 | 13,5 | 11,0 | 20          | 29,5 |
| 10TA01038      | 10            | $\frac{3}{8}$ | 78           | 32,4 | 19       | 19,5 | 14,5 | 13,0 | 22          | 33,0 |
| 10TA01248      | 12            | $\frac{1}{2}$ | 90           | 38,0 | 22       | 24,0 | 15,9 | 17,0 | 28          | 41,5 |

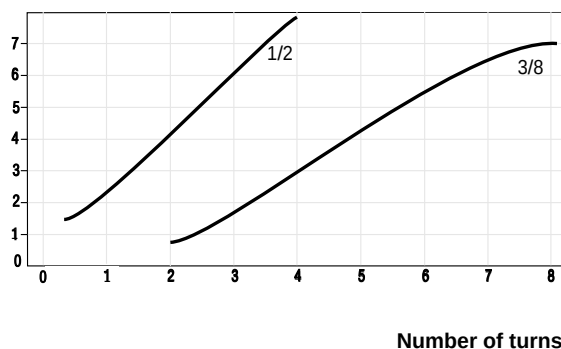
Plastic Body

## Typical Flow Characteristics

Flow of Air (L/S)



Flow of Air (L/S)



## 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 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 Norgren.

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 where applicable.