

Norgren Pneufit® C fittings are ready to use, offering fast assembly with no need for tools providing optimum flow.

Pneufit® C offers a broad range of over 1,000 composite push-in pneumatic fittings to complement our established all brass Pneufit® series.

Releasable stainless-steel grab-ring to grip nylon or polyurethane tube (85 or 95 durometer).

Nickel plated brass components provide corrosion and contamination resistance and an extended life.

Pre applied thread sealant on all taper threads and recessed captive O-ring on parallel threads provides optimum rapid sealing.

Internal and external hexagons on straight fittings.

Immediate quality sealing using silicone free U-packing.

Mounting holes on all union fittings.

Also introducing Miniature Pneufit® M an ultra compact alternative where space is at a premium.



## Technical data

Operating pressure:

750mm Hg vacuum, up to 10 bar

Temperature:

0 to 60°C

Medium:

compressed air

Tube sizes

Standard sizes:

4, 6, 8, 10, 12, 16 mm

Miniature sizes:

3, 4, and 6 mm

Thread sizes

Standard sizes:

M5, M6, 1/8, 1/4, 3/8 and 1/2 inch

ISO G and ISO R

Miniature sizes:

M3, M5 and 1/8 inch ISO R

Tube types

Nylon 11 or 12

Polyurethane 85, 95 or 98 durometer

## Materials

Body: PBT

Seals: NBR (silicone free) u-packing and O-rings

Threaded bodies: nickel plated brass

Release sleeve and backing ring: POM

Grab-ring: stainless steel

Collar: nickel plated brass

Thread sealant: threebond 2350B

## Ordering Examples

Information 2





## Method of assembly



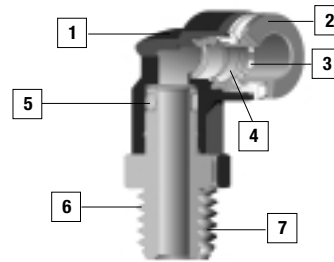
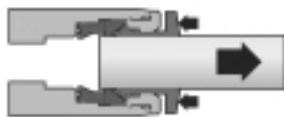
1. Ensure that the end tube is cut square and is free from burrs.

2. Push the tube through the release ring button and grab ring 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 release button and withdraw the tube.



- 1 Impact resistant PBT body in black for Pneufit® C and light gray for Pneufit® M.
- 2 Release buttons are red for metric, grey for inch, and light grey oval for Pneufit® M.
- 3 Stainless steel grab ring with special design to retain softer tube and provide easy releasability.
- 4 Silicon free U-packing provides leak tight tube seal under side loading.
- 5 Stem seal provides leak tight 360° swivel connection.
- 6 Nickel plated brass threads and notches on hex to signify NPT.
- 7 Pre-applied thread sealant on tapered threads and recessed captive O-ring on parallel threads.

## Options selector

| Series              | Substitute |
|---------------------|------------|
| Pneufit C Standard  | C          |
| Pneufit M Miniature | M          |

★0★ ★ ★ ★ ★ ★ ★ ★

Thread size/tube size

Thread size/tube size

Shape

Type

## Pneufit M

### Straight Adaptors and Connectors

|                                |                                          |                                                            |                                                      |                                                  |
|--------------------------------|------------------------------------------|------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------|
| <b>Straight Union</b><br>M0020 | <b>Straight Union (unequal)</b><br>M0020 | <b>Straight Adaptor (external + internal hex)</b><br>M0225 | <b>Straight Adaptor (internal hex only)</b><br>M022A | <b>Straight Adaptor (female thread)</b><br>M0226 |
|                                |                                          |                                                            |                                                      |                                                  |
| Page 16                        | Page 16                                  | Page 16                                                    | Page 16                                              | Page 16                                          |

### Elbow-and Tee connectors and Adaptors

|                             |                                          |                           |                                    |                                         |
|-----------------------------|------------------------------------------|---------------------------|------------------------------------|-----------------------------------------|
| <b>Union Elbow</b><br>M0040 | <b>90° Swivel Elbow Adaptor</b><br>M0247 | <b>Union Tee</b><br>M0060 | <b>Swivel Tee Adaptor</b><br>M0267 | <b>Swivel Side Tee Adaptor</b><br>M0268 |
|                             |                                          |                           |                                    |                                         |
| Page 16                     | Page 16                                  | Page 17                   | Page 17                            | Page 17                                 |



## Pneufit C

### Straight Adaptors and Connectors

|                                                                                                                                           |                                                                                                                                          |                                                                                                                                                            |                                                                                                                                                            |                                                                                                                                                                |                                                                                                                                                    |                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Straight Union</b><br>C0020<br><br>Page 05            | <b>Straight Union (unequal)</b><br>C0020<br><br>Page 05 | <b>Straight Adaptor (external + internal hex)</b><br>C0125<br><br>Page 05 | <b>Straight Adaptor (external + internal hex)</b><br>C0225<br><br>Page 05 | <b>Straight Adaptor (internal hex only)</b><br>C012A<br>C022A<br><br>Page 05 | <b>Straight Adaptor (female thread)</b><br>C0226<br><br>Page 06 | <b>Stem Reducer (stem/tube)</b><br>C0023<br><br>Page 06 |
| <b>Stem Expander (stem/tube)</b><br>C0023<br><br>Page 06 | <b>Bulkhead Union</b><br>C0029<br><br>Page 06           | <b>Straight Adaptor (female bulkhead)</b><br>C0232<br><br>Page 06         | <b>Stem Union (equal + unequal)</b><br>C0022<br><br>Page 06               | <b>Plug</b><br>C0004<br><br>Page 07                                          | <b>Cap (female plug)</b><br>C0012<br><br>Page 07                |                                                                                                                                            |

### Elbow Connectors and Adaptors

|                                                                                                                             |                                                                                                                                                                |                                                                                                                                          |                                                                                                                                           |                                                                                                                                                               |                                                                                                                                                           |                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Union Elbow</b><br>C0040<br><br>Page 07 | <b>90° Swivel Elbow Adaptor</b><br>C0147<br><br>Page 07                       | <b>90° Swivel Elbow Adaptor</b><br>C0247<br><br>Page 07 | <b>Stem Elbow</b><br>C0043<br><br>Page 08                | <b>90° Swivel Elbow Adaptor (extended)</b><br>C0154<br>C0254<br><br>Page 08 | <b>90° Swivel Elbow Adaptor (female)</b><br>C0148/C0248<br><br>Page 08 |                                                                                                                                         |
| <b>Banjo</b><br>C0A51<br><br>Page 9      | <b>Banjo with top port</b><br>C0D51<br>C0E51<br>C0F51<br>C0G51<br><br>Page 9 | <b>Banjo Flow Control (out)</b><br>C0TA0<br><br>Page 9 | <b>Banjo Flow Control (out)</b><br>C0K51<br><br>Page 9 | <b>Banjo Flow Control (in)</b><br>C0SA0<br><br>Page 10                    | <b>Banjo Flow Control (in)</b><br>C0L51<br><br>Page 10               | <b>In line flow control</b><br>C00GE<br><br>Page 10 |

### Tee Connectors and Adaptors

|                                                                                                                                      |                                                                                                                                                     |                                                                                                                                      |                                                                                                                                           |                                                                                                                                            |                                                                                                                                         |                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Union Tee</b><br>C0060<br><br>Page 10          | <b>Swivel Tee Adaptor</b><br>C0167<br><br>Page 11                | <b>Swivel Tee Adaptor</b><br>C0267<br><br>Page 11 | <b>Swivel Side Tee Adaptor</b><br>C0168<br><br>Page 11 | <b>Swivel Side Tee Adaptor</b><br>C0268<br><br>Page 11 | <b>Union Tee (unequal)</b><br>C006A<br><br>Page 10 | <b>Stem Side Tee (unequal)</b><br>C0063<br><br>Page 12 |
| <b>Stem Tee (unequal)</b><br>C0064<br><br>Page 12 | <b>Swivel Tee Adaptor (female)</b><br>C016C/C026C<br><br>Page 12 |                                                                                                                                      |                                                                                                                                           |                                                                                                                                            |                                                                                                                                         |                                                                                                                                             |

### Y Connectors

|                                                                                                                                             |                                                                                                                                    |                                                                                                                                    |                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Union Y (equal + unequal)</b><br>C0082<br><br>Page 13 | <b>Swivel Y Adaptor</b><br>C0188<br><br>Page 13 | <b>Swivel Y Adaptor</b><br>C0288<br><br>Page 14 | <b>Stem Y (equal + unequal)</b><br>C0084<br><br>Page 14 |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

### Cross and Manifolds

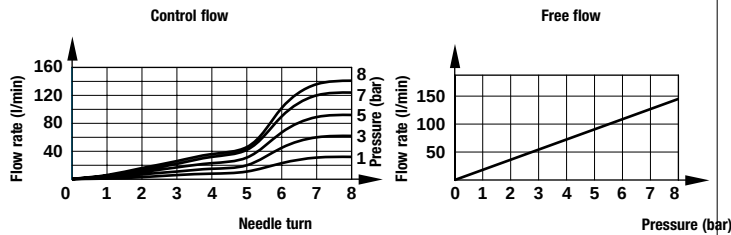
|                                                                                                                               |                                                                                                                                  |                                                                                                                                 |                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Union Cross</b><br>C0090<br><br>Page 14 | <b>Manifold Union</b><br>C00D3<br><br>Page 15 | <b>Male Manifold</b><br>C01D3<br><br>Page 15 | <b>Stem Manifold</b><br>C00J3<br><br>Page 15 |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|



## Speed controllers flowrate for C0K51, C0TA0, C0L51 and C0SA0 banjo types

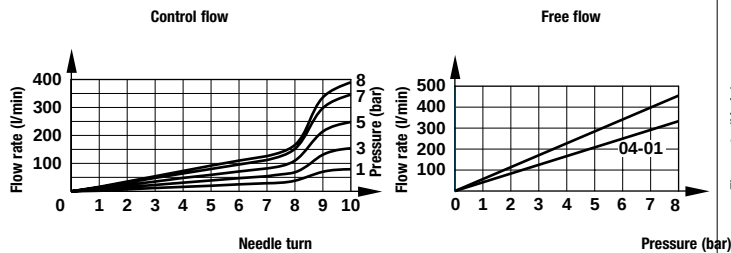
3, 4 and 6 mm

M5



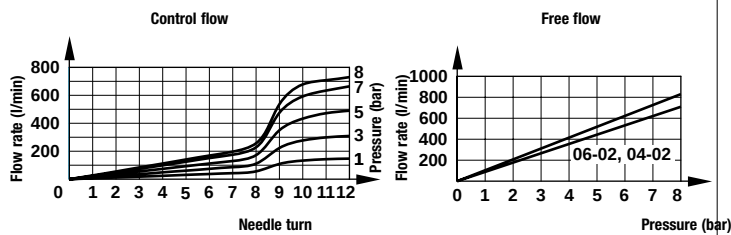
4, 6 and 8 mm

1/8



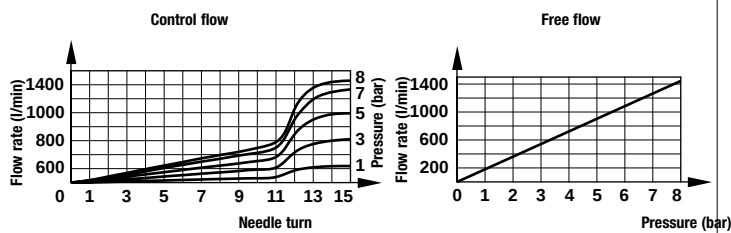
4, 6, 8, 10 and 12 mm

1/4



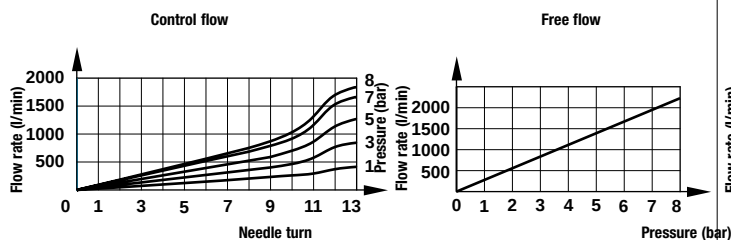
6, 8, 10 and 12 mm

3/8



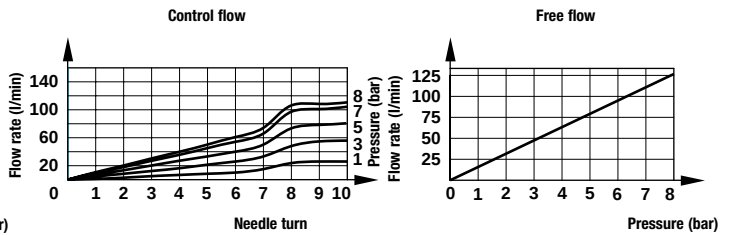
8, 10 and 12 mm

1/2

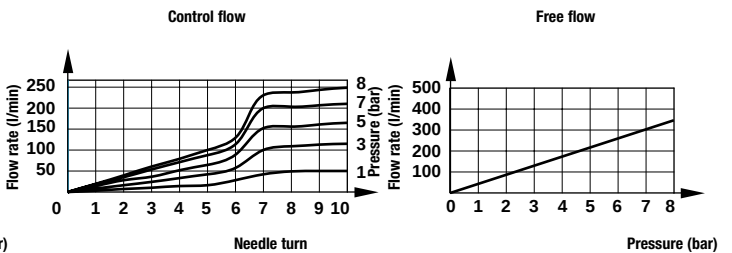


## Speed controllers flowrate for C00GE banjo types

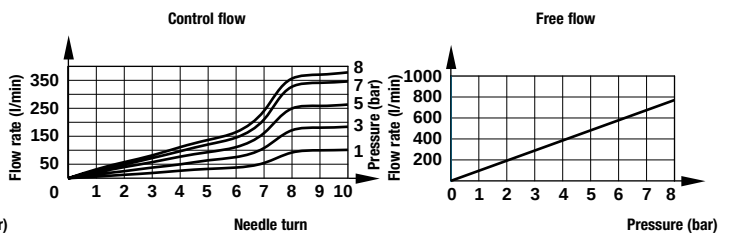
C00GE0400



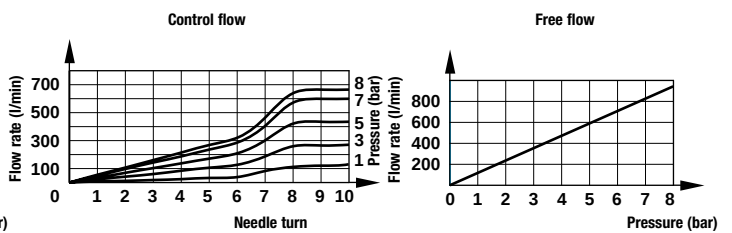
C00GE0600



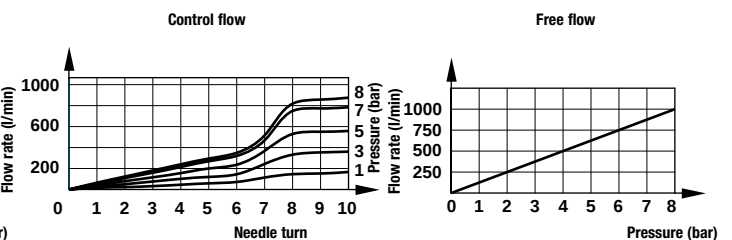
C00GE0800



C00GE1000

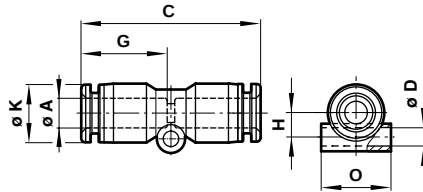


C00GE1200





## C0020

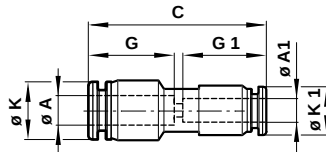


## Straight Union

| Ø A | C    | Ø D | G    | H   | Ø K  | O    | Typ       |
|-----|------|-----|------|-----|------|------|-----------|
| 4   | 34,5 | 3,3 | 16,5 | 4,5 | 9,5  | 10,5 | C00200400 |
| 6   | 37,0 | 3,3 | 17,5 | 5,5 | 12,0 | 12,5 | C00200600 |
| 8   | 39,5 | 4,3 | 18,5 | 7,0 | 14,0 | 14,5 | C00200800 |
| 10  | 43,0 | 4,3 | 19,5 | 8,0 | 16,5 | 17,5 | C00201000 |
| 12  | 48,0 | 4,3 | 22,0 | 9,5 | 19,0 | 20,5 | C00201200 |
| 16  | 51,0 | -*  | 24,0 | -*  | 25,0 | -*   | C00201600 |

\* no nail hole in 16 mm

## C0020

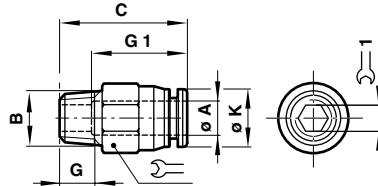


## Straight Union

(Unequal)

| Ø A | Ø A1 | C    | G    | G1   | Ø K  | Ø K1 | Typ       |
|-----|------|------|------|------|------|------|-----------|
| 6   | 4    | 36,5 | 17,5 | 16,5 | 12,0 | 9,5  | C00200604 |
| 8   | 6    | 37,5 | 18,5 | 17,5 | 14,0 | 12,0 | C00200806 |
| 10  | 8    | 41,0 | 19,5 | 18,5 | 16,5 | 14,0 | C00201008 |
| 12  | 10   | 44,0 | 22,0 | 19,5 | 19,0 | 16,5 | C00201210 |
| 16  | 12   | 49,5 | 24,0 | 22,0 | 25,0 | 19,0 | C00201612 |

## C0125

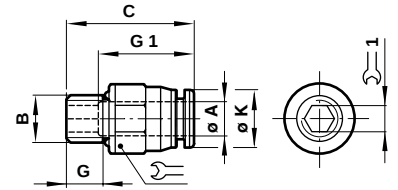


## Straight Adaptor

(External + internal hex)

| Ø A | B    | C    | G    | G1   | Ø K  | 1  | Typ       |
|-----|------|------|------|------|------|----|-----------|
| 4   | R1/8 | 21,5 | 8,0  | 16,0 | 9,5  | 10 | C01250418 |
| 4   | R1/4 | 20,5 | 10,0 | 16,0 | 9,5  | 14 | C01250428 |
| 4   | R3/8 | 22,0 | 11,0 | 16,0 | 9,5  | 17 | C01250438 |
| 6   | R1/8 | 22,0 | 8,0  | 16,5 | 12,0 | 12 | C01250618 |
| 6   | R1/4 | 21,0 | 10,0 | 16,5 | 12,0 | 14 | C01250628 |
| 6   | R3/8 | 22,0 | 11,0 | 16,5 | 12,0 | 17 | C01250638 |
| 6   | R1/2 | 29,5 | 14,0 | 16,5 | 12,0 | 19 | C01250648 |
| 8   | R1/8 | 27,5 | 8,0  | 17,5 | 14,0 | 14 | C01250818 |
| 8   | R1/4 | 25,5 | 10,0 | 17,5 | 14,0 | 14 | C01250828 |
| 8   | R3/8 | 23,0 | 11,0 | 17,5 | 14,0 | 17 | C01250838 |
| 8   | R1/2 | 29,5 | 14,0 | 17,5 | 14,0 | 19 | C01250848 |
| 10  | R1/8 | 28,5 | 8,0  | 18,5 | 16,5 | 17 | C01251018 |
| 10  | R1/4 | 30,5 | 10,0 | 18,5 | 16,5 | 17 | C01251028 |
| 10  | R3/8 | 24,5 | 11,0 | 18,5 | 16,5 | 17 | C01251038 |
| 10  | R1/2 | 29,5 | 14,0 | 18,5 | 16,5 | 19 | C01251048 |
| 12  | R1/8 | 31,5 | 8,0  | 21,0 | 19,0 | 19 | C01251218 |
| 12  | R1/4 | 33,0 | 10,0 | 21,0 | 19,0 | 19 | C01251228 |
| 12  | R3/8 | 30,0 | 11,0 | 21,0 | 19,0 | 19 | C01251238 |
| 12  | R1/2 | 30,0 | 14,0 | 21,0 | 19,0 | 19 | C01251248 |
| 16  | R3/8 | 37,5 | 11,0 | 25,0 | 25,0 | 24 | C01251638 |
| 16  | R1/2 | 40,5 | 14,0 | 25,0 | 25,0 | 24 | C01251648 |

## C0225

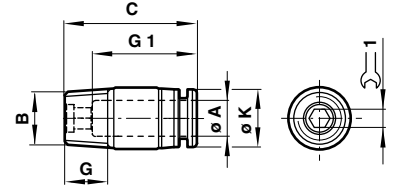


## Straight Adaptor

(External + internal hex)

| Ø A | B    | C    | G   | G1   | Ø K  | 1  | Typ       |
|-----|------|------|-----|------|------|----|-----------|
| 4   | M5   | 22,0 | 4,0 | 16,0 | 9,5  | 10 | C02250405 |
| 4   | M6   | 22,0 | 8,0 | 16,0 | 9,5  | 10 | C02250406 |
| 4   | G1/8 | 21,5 | 6,0 | 16,0 | 9,5  | 13 | C02250418 |
| 4   | G1/4 | 23,5 | 8,0 | 16,0 | 9,5  | 15 | C02250428 |
| 4   | G3/8 | 22,0 | 8,0 | 16,0 | 9,5  | 17 | C02250438 |
| 6   | M5   | 23,5 | 5,0 | 16,5 | 12,0 | 10 | C02250605 |
| 6   | M6   | 23,0 | 4,0 | 16,5 | 12,0 | 12 | C02250606 |
| 6   | G1/8 | 26,5 | 6,0 | 17,5 | 12,0 | 15 | C02250618 |
| 6   | G1/4 | 24,5 | 8,0 | 16,5 | 12,0 | 15 | C02250628 |
| 6   | G3/8 | 25,5 | 8,0 | 16,5 | 12,0 | 17 | C02250638 |
| 8   | G1/8 | 26,5 | 6,0 | 17,5 | 14,0 | 15 | C02250818 |
| 8   | G1/4 | 26,5 | 8,0 | 17,5 | 14,0 | 15 | C02250828 |
| 8   | G3/8 | 25,0 | 8,0 | 17,5 | 14,0 | 17 | C02250838 |
| 8   | G1/2 | 26,0 | 9,0 | 17,5 | 14,0 | 21 | C02250848 |
| 10  | G1/8 | 29,5 | 6,0 | 18,5 | 16,5 | 17 | C02251018 |
| 10  | G1/4 | 30,0 | 8,0 | 18,5 | 16,5 | 17 | C02251028 |
| 10  | G3/8 | 27,0 | 8,0 | 18,5 | 16,5 | 17 | C02251038 |
| 10  | G1/2 | 28,5 | 9,0 | 18,5 | 16,5 | 21 | C02251048 |
| 12  | G1/4 | 32,0 | 8,0 | 21,0 | 19,0 | 19 | C02251228 |
| 12  | G3/8 | 31,5 | 8,0 | 21,0 | 19,0 | 19 | C02251238 |
| 12  | G1/2 | 31,5 | 9,0 | 21,0 | 19,0 | 21 | C02251248 |
| 16  | G3/8 | 36,5 | 8,0 | 25,0 | 25,0 | 24 | C02251638 |
| 16  | G1/2 | 36,5 | 9,0 | 25,0 | 25,0 | 24 | C02251648 |

## C012A, C022A



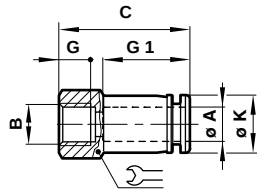
## Straight Adaptor

(Internal hex only)

| Ø A | B    | C    | G    | G1   | Ø K  | 1 | Typ       |
|-----|------|------|------|------|------|---|-----------|
| 4   | M5   | 22,0 | 4,5  | 16,0 | 9,5  | 2 | C022A0405 |
| 4   | M6   | 22,0 | 4,0  | 16,0 | 9,5  | 2 | C022A0406 |
| 4   | R1/8 | 20,5 | 8,0  | 16,0 | 9,5  | 3 | C012A0418 |
| 4   | R1/4 | 20,5 | 10,0 | 16,0 | 9,5  | 3 | C012A0428 |
| 4   | R3/8 | 20,5 | 11,0 | 16,0 | 9,5  | 3 | C012A0438 |
| 6   | M5   | 22,5 | 5,0  | 16,5 | 12,0 | 2 | C022A0605 |
| 6   | M6   | 22,5 | 4,0  | 16,5 | 12,0 | 2 | C022A0606 |
| 6   | R1/8 | 22,0 | 8,0  | 16,5 | 12,0 | 4 | C012A0618 |
| 6   | R1/4 | 22,5 | 10,0 | 16,5 | 12,0 | 4 | C012A0628 |
| 6   | R3/8 | 22,5 | 11,0 | 16,5 | 12,0 | 4 | C012A0638 |
| 8   | R1/8 | 27,0 | 8,0  | 17,5 | 14,0 | 4 | C012A0818 |
| 8   | R1/4 | 25,0 | 10,0 | 17,5 | 14,0 | 6 | C012A0828 |
| 8   | R3/8 | 25,0 | 11,0 | 17,5 | 14,0 | 6 | C012A0838 |
| 8   | R1/2 | 25,0 | 14,0 | 17,5 | 14,0 | 6 | C012A0848 |
| 10  | R1/8 | 28,0 | 8,0  | 18,5 | 16,5 | 5 | C012A1018 |
| 10  | R1/4 | 29,0 | 10,0 | 18,5 | 16,5 | 6 | C012A1028 |
| 10  | R3/8 | 29,0 | 11,0 | 18,5 | 16,5 | 6 | C012A1038 |
| 10  | R1/2 | 29,0 | 14,0 | 18,5 | 16,5 | 6 | C012A1048 |
| 12  | R1/8 | 35,0 | 8,0  | 21,0 | 19,0 | 5 | C012A1218 |
| 12  | R1/4 | 32,5 | 10,0 | 21,0 | 19,0 | 6 | C012A1228 |
| 12  | R3/8 | 32,5 | 11,0 | 21,0 | 19,0 | 8 | C012A1238 |
| 12  | R1/2 | 32,5 | 14,0 | 21,0 | 19,0 | 8 | C012A1248 |



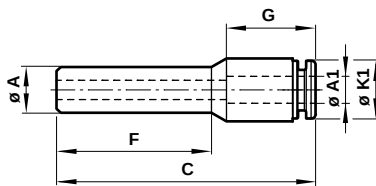
## C0226



### Straight Adaptor (Female thread)

| Ø A | B    | C    | G    | G1   | Ø K  | 1/2 | Typ       |
|-----|------|------|------|------|------|-----|-----------|
| 4   | G1/8 | 26,5 | 9,0  | 16,0 | 9,5  | 14  | C02260418 |
| 4   | G1/4 | 28,5 | 11,0 | 16,0 | 9,5  | 17  | C02260428 |
| 4   | G3/8 | 30,0 | 12,0 | 16,0 | 9,5  | 22  | C02260438 |
| 6   | G1/8 | 27,5 | 9,0  | 16,5 | 12,0 | 14  | C02260618 |
| 6   | G1/4 | 29,5 | 11,0 | 16,5 | 12,0 | 17  | C02260628 |
| 6   | G3/8 | 30,0 | 12,0 | 16,5 | 12,0 | 22  | C02260638 |
| 8   | G1/8 | 28,5 | 9,0  | 17,5 | 14,0 | 14  | C02260818 |
| 8   | G1/4 | 30,5 | 11,0 | 17,5 | 14,0 | 17  | C02260828 |
| 8   | G3/8 | 31,5 | 12,0 | 17,5 | 14,0 | 22  | C02260838 |
| 8   | G1/2 | 34,5 | 14,0 | 17,5 | 14,0 | 24  | C02260848 |
| 10  | G1/8 | 31,5 | 9,0  | 18,5 | 16,5 | 17  | C02261018 |
| 10  | G1/4 | 31,5 | 11,0 | 18,5 | 16,5 | 17  | C02261028 |
| 10  | G3/8 | 32,5 | 12,0 | 18,5 | 16,5 | 22  | C02261038 |
| 10  | G1/2 | 34,5 | 14,0 | 18,5 | 16,5 | 24  | C02261048 |
| 12  | G1/4 | 34,5 | 11,0 | 21,0 | 19,0 | 22  | C02261228 |
| 12  | G3/8 | 34,5 | 12,0 | 21,0 | 19,0 | 22  | C02261238 |
| 12  | G1/2 | 36,5 | 14,0 | 21,0 | 19,0 | 24  | C02261248 |

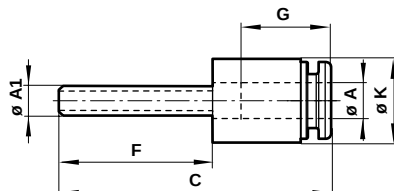
## C0023



### Stem Reducer (Stem/tube)

| Ø A | Ø A1 | C    | F    | G    | Ø K1 | Typ       |
|-----|------|------|------|------|------|-----------|
| 6   | 4    | 41,0 | 21,5 | 13,0 | 9,5  | C00230604 |
| 8   | 4    | 42,0 | 22,5 | 13,0 | 9,5  | C00230804 |
| 8   | 6    | 44,5 | 23,5 | 13,5 | 12,0 | C00230806 |
| 10  | 6    | 47,5 | 26,5 | 13,5 | 12,0 | C00231006 |
| 10  | 8    | 49,5 | 27,5 | 14,0 | 14,0 | C00231008 |
| 12  | 6    | 52,0 | 29,5 | 13,5 | 12,0 | C00231206 |
| 12  | 8    | 52,5 | 30,5 | 14,0 | 14,0 | C00231208 |
| 12  | 10   | 56,5 | 31,0 | 15,0 | 16,5 | C00231210 |
| 16  | 12   | 57,5 | 33,0 | 18,5 | 19,0 | C00231612 |

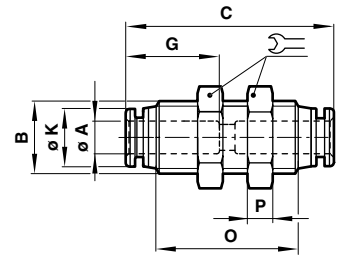
## C0023



### Stem Expander (Stem/tube)

| Ø A | Ø A1 | C    | F    | G    | Ø K  | Typ       |
|-----|------|------|------|------|------|-----------|
| 6   | 4    | 41,0 | 24,0 | 13,5 | 12,0 | C00230406 |
| 8   | 6    | 44,0 | 26,5 | 14,0 | 14,0 | C00230608 |

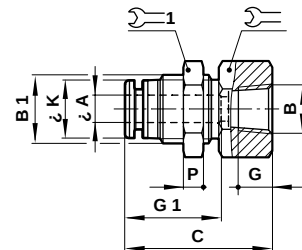
## C0029



### Bulkhead Union

| Ø A | B     | C    | G    | Ø K  | O    | P | 1/2 | Typ       |
|-----|-------|------|------|------|------|---|-----|-----------|
| 4   | M12x1 | 35,5 | 16,5 | 9,5  | 24,5 | 4 | 14  | C00290400 |
| 6   | M14x1 | 40,0 | 17,5 | 12,0 | 27,5 | 4 | 17  | C00290600 |
| 8   | M16x1 | 42,0 | 18,5 | 14,0 | 29,5 | 5 | 19  | C00290800 |
| 10  | M20x1 | 45,0 | 19,5 | 16,5 | 31,5 | 5 | 24  | C00291000 |
| 12  | M22x1 | 50,5 | 22,0 | 19,0 | 36,0 | 5 | 26  | C00291200 |

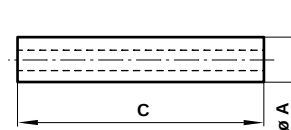
## C0232



### Straight Adaptor (Female bulkhead)

| Ø A | B    | B1    | C    | G    | G1   | Ø K  | P | 1/2 | 1  | Typ       |
|-----|------|-------|------|------|------|------|---|-----|----|-----------|
| 4   | G1/8 | M12x1 | 26,5 | 9,0  | 17,0 | 9,5  | 4 | 14  | 14 | C02320418 |
| 4   | G1/4 | M12x1 | 29,0 | 11,0 | 17,0 | 9,5  | 4 | 17  | 17 | C02320428 |
| 4   | G3/8 | M12x1 | 30,0 | 12,0 | 17,0 | 9,5  | 4 | 17  | 19 | C02320438 |
| 6   | G1/8 | M14x1 | 28,5 | 9,0  | 17,5 | 12,0 | 4 | 17  | 17 | C02320618 |
| 6   | G1/4 | M14x1 | 30,5 | 11,0 | 17,5 | 12,0 | 4 | 17  | 17 | C02320628 |
| 6   | G3/8 | M14x1 | 31,5 | 12,0 | 17,5 | 12,0 | 4 | 17  | 22 | C02320638 |
| 8   | G1/8 | M16x1 | 29,5 | 9,0  | 18,5 | 14,0 | 5 | 19  | 19 | C02320818 |
| 8   | G1/4 | M16x1 | 31,5 | 11,0 | 18,5 | 14,0 | 5 | 19  | 19 | C02320828 |
| 8   | G3/8 | M16x1 | 32,5 | 12,0 | 18,5 | 14,0 | 5 | 19  | 22 | C02320838 |
| 10  | G1/4 | M20x1 | 32,5 | 11,0 | 19,5 | 16,5 | 5 | 24  | 24 | C02321028 |
| 10  | G3/8 | M20x1 | 33,5 | 12,0 | 19,5 | 16,5 | 5 | 24  | 24 | C02321038 |
| 10  | G1/2 | M20x1 | 36,0 | 14,0 | 19,5 | 16,5 | 5 | 24  | 24 | C02321048 |
| 12  | G1/4 | M22x1 | 38,0 | 11,0 | 22,0 | 19,0 | 5 | 28  | 24 | C02321228 |
| 12  | G3/8 | M22x1 | 38,0 | 12,0 | 22,0 | 19,0 | 5 | 26  | 24 | C02321238 |
| 12  | G1/2 | M22x1 | 40,0 | 14,0 | 22,0 | 19,0 | 5 | 26  | 24 | C02321248 |

## C0022

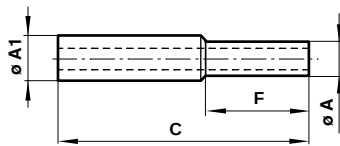


### Stem Union (Unequal)

| Ø A | C    | Typ       |
|-----|------|-----------|
| 4   | 37,0 | C00220400 |
| 6   | 38,0 | C00220600 |
| 8   | 41,0 | C00220800 |
| 10  | 44,0 | C00221000 |
| 12  | 49,0 | C00221200 |
| 16  | 53,0 | C00221600 |

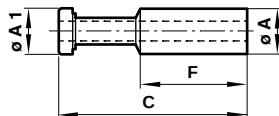


## C0022

Stem Union  
(Unequal)

| Ø A | Ø A1 | C    | F    | Typ       |
|-----|------|------|------|-----------|
| 4   | 6    | 38,0 | 18,0 | C00220604 |
| 6   | 8    | 41,5 | 20,5 | C00220806 |
| 8   | 10   | 43,5 | 21,5 | C00221008 |
| 10  | 12   | 46,5 | 22,5 | C00221210 |
| 12  | 16   | 52,0 | 25,0 | C00221612 |

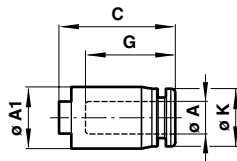
## C0004



Plug

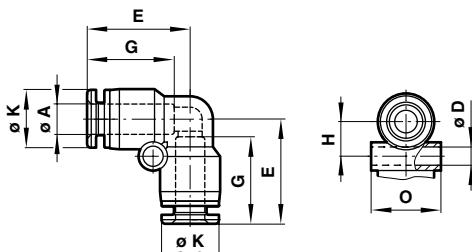
| Ø A | Ø A1 | C    | F    | Typ       |
|-----|------|------|------|-----------|
| 4   | 4    | 30,0 | 17,5 | C00040400 |
| 6   | 6    | 34,0 | 18,5 | C00040600 |
| 8   | 8    | 38,0 | 21,0 | C00040800 |
| 10  | 10   | 42,0 | 24,0 | C00041000 |
| 12  | 12   | 46,0 | 29,5 | C00041200 |
| 16  | 16   | 50,0 | 30,0 | C00041600 |

## C0012

Cap  
(Female plug)

| Ø A | Ø A1 | C    | G    | Ø K  | Typ       |
|-----|------|------|------|------|-----------|
| 4   | 10,5 | 18,0 | 17,0 | 9,5  | C00120400 |
| 6   | 12,5 | 19,0 | 17,5 | 12,0 | C00120600 |
| 8   | 14,5 | 21,0 | 18,5 | 14,0 | C00120800 |
| 10  | 17,5 | 23,0 | 19,5 | 16,5 | C00121000 |
| 12  | 19,5 | 25,0 | 22,0 | 19,0 | C00121200 |
| 16  | 24,0 | 25,0 | 18,0 | 25,0 | C00121600 |

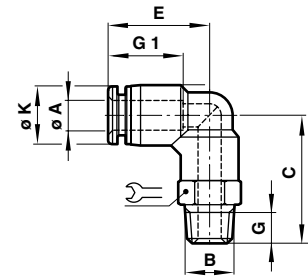
## C0040



Union Elbow

| Ø A | Ø D | E    | G    | H    | Ø K  | Ø    | Typ       |
|-----|-----|------|------|------|------|------|-----------|
| 4   | 3,3 | 19,0 | 15,5 | 8,5  | 9,5  | 10,5 | C00400400 |
| 6   | 3,3 | 21,0 | 17,5 | 7,5  | 12,0 | 12,5 | C00400600 |
| 8   | 4,3 | 22,5 | 18,5 | 9,0  | 14,0 | 14,5 | C00400800 |
| 10  | 4,3 | 26,0 | 20,0 | 12,0 | 16,5 | 18,0 | C00401000 |
| 12  | 4,3 | 30,0 | 23,0 | 13,5 | 19,0 | 21,0 | C00401200 |
| 16  | 4,3 | 34,0 | 24,0 | 16,0 | 25,0 | 25,5 | C00401600 |

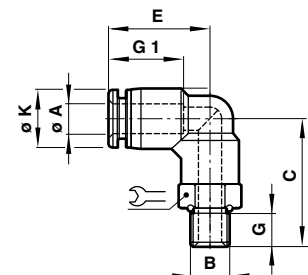
## C0147



90° Swivel Elbow Adaptor

| Ø A | B    | C    | E    | G    | G1   | Ø K  | Typ       |
|-----|------|------|------|------|------|------|-----------|
| 4   | R1/8 | 24,5 | 18,5 | 8,0  | 17,0 | 9,5  | C01470418 |
| 4   | R1/4 | 26,5 | 18,5 | 10,0 | 17,0 | 9,5  | C01470428 |
| 4   | R3/8 | 27,5 | 18,5 | 11,0 | 17,0 | 9,5  | C01470438 |
| 6   | R1/8 | 26,5 | 20,5 | 8,0  | 17,5 | 12,0 | C01470618 |
| 6   | R1/4 | 29,5 | 20,5 | 10,0 | 17,5 | 12,0 | C01470628 |
| 6   | R3/8 | 30,5 | 20,5 | 11,0 | 17,5 | 12,0 | C01470638 |
| 6   | R1/2 | 33,5 | 20,5 | 14,0 | 17,5 | 12,0 | C01470648 |
| 8   | R1/8 | 28,0 | 23,0 | 8,0  | 18,5 | 14,0 | C01470818 |
| 8   | R1/4 | 31,0 | 23,0 | 10,0 | 18,5 | 14,0 | C01470828 |
| 8   | R3/8 | 32,0 | 23,0 | 11,0 | 18,5 | 14,0 | C01470838 |
| 8   | R1/2 | 35,0 | 23,0 | 14,0 | 18,5 | 14,0 | C01470848 |
| 10  | R1/8 | 28,5 | 23,5 | 8,0  | 19,5 | 16,5 | C01471018 |
| 10  | R1/4 | 31,5 | 23,5 | 10,0 | 19,5 | 16,5 | C01471028 |
| 10  | R3/8 | 32,5 | 23,5 | 11,0 | 19,5 | 16,5 | C01471038 |
| 10  | R1/2 | 35,5 | 23,5 | 14,0 | 19,5 | 16,5 | C01471048 |
| 12  | R1/8 | 32,5 | 27,5 | 8,0  | 22,0 | 19,0 | C01471218 |
| 12  | R1/4 | 34,5 | 27,5 | 10,0 | 22,0 | 19,0 | C01471228 |
| 12  | R3/8 | 35,5 | 27,5 | 11,0 | 22,0 | 19,0 | C01471238 |
| 12  | R1/2 | 38,5 | 27,5 | 14,0 | 22,0 | 19,0 | C01471248 |
| 16  | R3/8 | 43,0 | 32,5 | 11,0 | 24,0 | 25,0 | C01471638 |
| 16  | R1/2 | 46,0 | 32,5 | 14,0 | 24,0 | 25,0 | C01471648 |

## C0247

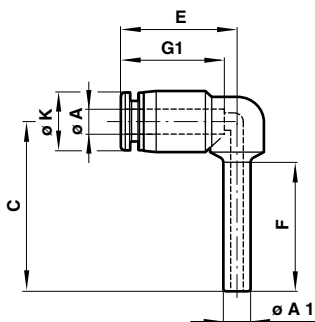


90° Swivel Elbow Adaptor

| Ø A | B    | C    | E    | G    | G1   | Ø K  | Typ       |
|-----|------|------|------|------|------|------|-----------|
| 4   | M5   | 22,0 | 18,5 | 4,5  | 17,0 | 9,5  | C02470405 |
| 4   | M6   | 22,0 | 18,5 | 4,5  | 17,0 | 9,5  | C02470406 |
| 4   | G1/8 | 22,5 | 18,5 | 6,0  | 17,0 | 9,5  | C02470418 |
| 4   | G1/4 | 24,5 | 18,5 | 8,0  | 17,0 | 9,5  | C02470428 |
| 4   | G3/8 | 24,5 | 18,5 | 8,0  | 17,0 | 9,5  | C02470438 |
| 6   | M5   | 24,0 | 20,5 | 4,5  | 17,0 | 12,0 | C02470605 |
| 6   | M6   | 24,0 | 20,5 | 4,5  | 17,5 | 12,0 | C02470606 |
| 6   | G1/8 | 24,5 | 20,5 | 6,0  | 17,5 | 12,0 | C02470618 |
| 6   | G1/4 | 26,5 | 20,5 | 8,0  | 17,5 | 12,0 | C02470628 |
| 6   | G3/8 | 26,5 | 20,5 | 9,0  | 17,5 | 12,0 | C02470638 |
| 8   | G1/8 | 26,0 | 23,0 | 8,0  | 18,5 | 14,0 | C02470818 |
| 8   | G1/4 | 28,0 | 23,0 | 8,0  | 18,5 | 14,0 | C02470828 |
| 8   | G3/8 | 28,0 | 23,0 | 9,0  | 18,5 | 14,0 | C02470838 |
| 8   | G1/2 | 29,0 | 23,0 | 10,0 | 18,5 | 14,0 | C02470848 |
| 10  | G1/8 | 26,5 | 23,5 | 6,0  | 19,5 | 16,5 | C02471018 |
| 10  | G1/4 | 28,5 | 23,5 | 8,0  | 19,5 | 16,5 | C02471028 |
| 10  | G3/8 | 28,5 | 23,5 | 9,0  | 19,5 | 16,5 | C02471038 |
| 10  | G1/2 | 29,5 | 23,5 | 10,0 | 19,5 | 16,5 | C02471048 |
| 12  | G1/4 | 32,5 | 27,5 | 8,0  | 22,0 | 19,0 | C02471228 |
| 12  | G3/8 | 32,5 | 27,5 | 9,0  | 22,0 | 19,0 | C02471238 |
| 12  | G1/2 | 32,5 | 27,5 | 10,0 | 22,0 | 19,0 | C02471248 |
| 16  | G3/8 | 41,0 | 32,5 | 9,0  | 24,0 | 25,0 | C02471638 |
| 16  | G1/2 | 42,0 | 32,5 | 10,0 | 24,0 | 25,0 | C02471648 |



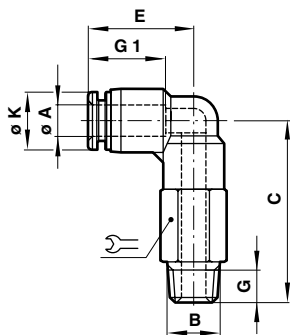
## C0043



### Stem Elbow

| Ø A | Ø A1 | C    | E    | G1   | F    | Ø K  | Typ       |
|-----|------|------|------|------|------|------|-----------|
| 4   | 4    | 28,5 | 19,0 | 17,0 | 22,0 | 9,5  | C00430400 |
| 6   | 6    | 31,5 | 20,5 | 17,5 | 24,0 | 12,0 | C00430600 |
| 8   | 8    | 34,5 | 23,0 | 19,0 | 26,0 | 14,0 | C00430800 |
| 10  | 10   | 38,0 | 24,0 | 19,5 | 28,0 | 16,5 | C00431000 |
| 12  | 12   | 41,0 | 28,0 | 22,0 | 30,0 | 19,0 | C00431200 |
| 16  | 16   | 48,5 | 32,0 | 24,0 | 35,0 | 25,0 | C00431600 |

## C0154, C0254

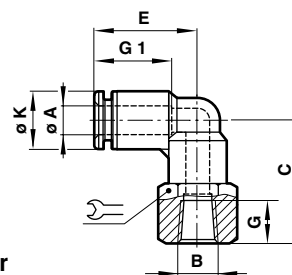


### 90° Swivel Elbow Adaptor

(Extended)

| Ø A | B    | C    | E    | G    | G1   | Ø K  | Typ       |
|-----|------|------|------|------|------|------|-----------|
| 4   | M5   | 33,5 | 18,5 | 4,6  | 17,0 | 9,5  | C02540405 |
| 4   | M6   | 33,0 | 18,5 | 4,6  | 17,0 | 9,5  | C02540406 |
| 4   | R1/8 | 35,5 | 18,5 | 8,0  | 17,0 | 9,5  | C01540418 |
| 4   | R1/4 | 37,5 | 18,5 | 10,0 | 17,0 | 9,5  | C01540428 |
| 4   | R3/8 | 38,5 | 18,5 | 11,0 | 17,0 | 9,5  | C01540438 |
| 6   | M5   | 38,0 | 20,5 | 4,5  | 17,5 | 12,0 | C02540605 |
| 6   | M6   | 37,5 | 20,5 | 4,5  | 17,5 | 12,0 | C02540606 |
| 6   | R1/8 | 40,0 | 20,5 | 8,0  | 17,5 | 12,0 | C01540618 |
| 6   | R1/4 | 42,0 | 20,5 | 10,0 | 17,5 | 12,0 | C01540628 |
| 6   | R3/8 | 43,0 | 20,5 | 11,0 | 17,5 | 12,0 | C01540638 |
| 6   | R1/2 | 46,0 | 20,5 | 14,0 | 17,5 | 12,0 | C01540648 |
| 8   | R1/8 | 44,0 | 23,0 | 8,0  | 18,5 | 14,0 | C01540818 |
| 8   | R1/4 | 46,0 | 23,0 | 10,0 | 18,5 | 14,0 | C01540828 |
| 8   | R3/8 | 47,0 | 23,0 | 11,0 | 18,5 | 14,0 | C01540838 |
| 8   | R1/2 | 50,0 | 23,0 | 14,0 | 18,5 | 14,0 | C01540848 |
| 10  | R1/8 | 47,5 | 23,5 | 8,0  | 19,5 | 16,5 | C01541018 |
| 10  | R1/4 | 49,5 | 23,5 | 10,0 | 19,5 | 16,5 | C01541028 |
| 10  | R3/8 | 50,5 | 23,5 | 11,0 | 19,5 | 16,5 | C01541038 |
| 10  | R1/2 | 53,5 | 23,5 | 14,0 | 19,5 | 16,5 | C01541048 |
| 12  | R1/8 | 54,0 | 27,5 | 8,0  | 22,0 | 19,0 | C01541218 |
| 12  | R1/4 | 56,0 | 27,5 | 10,0 | 22,0 | 19,0 | C01541228 |
| 12  | R3/8 | 57,0 | 27,5 | 11,0 | 22,0 | 19,0 | C01541238 |
| 12  | R1/2 | 60,0 | 27,5 | 14,0 | 22,0 | 19,0 | C01541248 |
| 16  | R3/8 | 69,0 | 32,5 | 11,0 | 24,0 | 25,0 | C01541638 |
| 16  | R1/2 | 72,0 | 32,5 | 14,0 | 24,0 | 25,0 | C01541648 |

## C0148/C0248



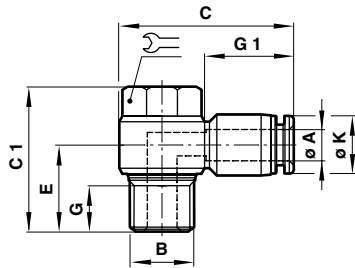
### 90° Swivel Elbow Adaptor

(Female)

| Ø A | B    | C    | E    | G    | G1   | Ø K  | Typ       |
|-----|------|------|------|------|------|------|-----------|
| 4   | M5   | 21,5 | 18,5 | 4,5  | 17,0 | 9,5  | C02480405 |
| 4   | M6   | 21,5 | 18,5 | 4,5  | 17,0 | 9,5  | C02480406 |
| 4   | R1/8 | 22,5 | 18,5 | 9,0  | 17,0 | 9,5  | C01480418 |
| 4   | R1/4 | 24,5 | 18,5 | 11,0 | 17,0 | 9,5  | C01480428 |
| 6   | M5   | 23,5 | 20,5 | 4,5  | 17,5 | 12,0 | C02480605 |
| 6   | M6   | 23,5 | 20,5 | 4,5  | 17,5 | 12,0 | C02480606 |
| 6   | R1/8 | 24,5 | 20,5 | 9,0  | 17,5 | 12,0 | C01480618 |
| 6   | R1/4 | 26,5 | 20,5 | 11,0 | 17,5 | 12,0 | C01480628 |
| 6   | R3/8 | 27,5 | 20,5 | 12,0 | 17,5 | 12,0 | C01480638 |
| 8   | R1/8 | 26,0 | 23,0 | 9,0  | 18,5 | 14,0 | C01480818 |
| 8   | R1/4 | 28,0 | 23,0 | 11,0 | 18,5 | 14,0 | C01480828 |
| 8   | R3/8 | 29,0 | 23,0 | 12,0 | 18,5 | 14,0 | C01480838 |
| 10  | R1/4 | 28,5 | 23,5 | 11,0 | 19,5 | 16,5 | C01481028 |
| 10  | R3/8 | 29,5 | 23,5 | 12,0 | 19,5 | 16,5 | C01481038 |
| 10  | R1/2 | 31,5 | 23,5 | 14,0 | 19,5 | 16,5 | C01481048 |
| 12  | R1/4 | 31,5 | 27,5 | 11,0 | 22,0 | 19,0 | C01481228 |
| 12  | R3/8 | 32,5 | 27,5 | 12,0 | 22,0 | 19,0 | C01481238 |
| 12  | R1/2 | 34,5 | 27,5 | 14,0 | 22,0 | 19,0 | C01481248 |



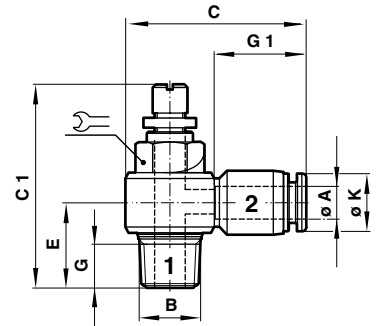
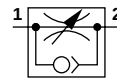
## C0A51



## Banjo

| Ø A | B    | C    | C1   | E    | G    | G1   | Ø K  | Typ          |
|-----|------|------|------|------|------|------|------|--------------|
| 4   | M5   | 25,0 | 18,0 | 10,0 | 3,5  | 16,5 | 9,5  | 8 C0A510405  |
| 4   | G1/8 | 30,5 | 25,0 | 14,5 | 11,0 | 16,5 | 9,5  | 8 C0A510418  |
| 4   | G1/4 | 34,5 | 29,0 | 16,5 | 10,0 | 16,5 | 9,5  | 15 C0A510428 |
| 6   | M5   | 18,0 | 28,0 | 11,0 | 3,5  | 17,5 | 12,0 | 8 C0A510605  |
| 6   | G1/8 | 31,0 | 25,0 | 14,5 | 8,0  | 17,5 | 12,0 | 11 C0A510618 |
| 6   | G1/4 | 35,0 | 29,0 | 16,5 | 10,0 | 17,5 | 12,0 | 15 C0A510628 |
| 6   | G3/8 | 38,5 | 32,5 | 20,5 | 11,0 | 17,5 | 12,0 | 19 C0A510638 |
| 8   | G1/8 | 33,0 | 25,0 | 13,5 | 8,0  | 18,5 | 14,0 | 11 C0A510818 |
| 8   | G1/4 | 37,0 | 29,0 | 16,0 | 10,0 | 18,5 | 14,0 | 15 C0A510828 |
| 8   | G3/8 | 40,0 | 32,5 | 20,5 | 11,0 | 18,5 | 14,0 | 19 C0A510838 |
| 8   | G1/2 | 46,0 | 39,5 | 23,0 | 14,0 | 18,5 | 14,0 | 24 C0A510848 |
| 10  | G1/4 | 39,0 | 29,0 | 15,5 | 10,0 | 19,5 | 16,5 | 15 C0A511028 |
| 10  | G3/8 | 42,0 | 32,5 | 19,5 | 11,0 | 19,5 | 16,5 | 19 C0A511038 |
| 10  | G1/2 | 47,5 | 39,5 | 23,0 | 14,0 | 19,5 | 16,5 | 24 C0A511048 |
| 12  | G3/8 | 46,0 | 32,5 | 18,5 | 11,0 | 22,0 | 19,0 | 19 C0A511238 |
| 12  | G1/2 | 50,0 | 39,5 | 21,5 | 14,0 | 22,0 | 19,0 | 24 C0A511248 |

## C0TA0

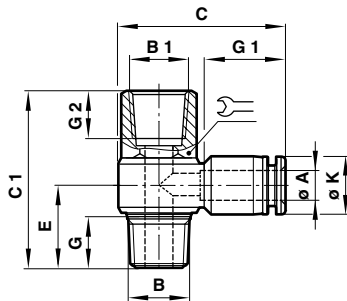


## Banjo Flow Control

(out)

| Ø A | B    | C    | C1   | E    | G    | G1   | Ø K  | Typ               |
|-----|------|------|------|------|------|------|------|-------------------|
|     |      |      | min. | max. |      |      |      |                   |
| 4   | R1/8 | 30,5 | 35,0 | 40,0 | 14,5 | 8,0  | 16,5 | 9,5 11 C0TA00418  |
| 4   | R1/4 | 34,5 | 40,0 | 45,5 | 18,0 | 10,0 | 16,5 | 9,5 15 C0TA00428  |
| 6   | R1/8 | 31,0 | 35,0 | 31,0 | 14,5 | 8,0  | 17,5 | 12,0 11 C0TA00618 |
| 6   | R1/4 | 35,0 | 40,0 | 45,5 | 18,0 | 10,0 | 17,5 | 12,0 15 C0TA00628 |
| 6   | R3/8 | 38,5 | 46,5 | 55,0 | 21,0 | 11,0 | 17,5 | 12,0 19 C0TA00638 |
| 8   | R1/8 | 33,0 | 35,0 | 40,0 | 15,5 | 8,0  | 18,5 | 14,0 11 C0TA00818 |
| 8   | R1/4 | 37,0 | 40,0 | 45,5 | 19,0 | 10,0 | 18,5 | 14,0 15 C0TA00828 |
| 8   | R3/8 | 40,0 | 46,5 | 55,0 | 21,0 | 11,0 | 18,5 | 14,0 19 C0TA00838 |
| 8   | R1/2 | 46,0 | 53,0 | 60,0 | 25,0 | 14,0 | 18,5 | 14,0 24 C0TA00848 |
| 10  | R1/4 | 39,0 | 40,0 | 45,5 | 20,0 | 10,0 | 19,5 | 16,5 15 C0TA01028 |
| 10  | R3/8 | 42,0 | 46,5 | 55,0 | 22,5 | 11,0 | 19,5 | 16,5 19 C0TA01038 |
| 10  | R1/2 | 47,5 | 53,0 | 60,0 | 25,0 | 14,0 | 19,5 | 16,5 24 C0TA01048 |
| 12  | R1/4 | 41,0 | 40,0 | 45,5 | 22,0 | 10,0 | 22,0 | 19,0 15 C0TA01228 |
| 12  | R3/8 | 46,0 | 46,5 | 55,0 | 23,0 | 11,0 | 22,0 | 19,0 19 C0TA01238 |
| 12  | R1/2 | 50,0 | 53,0 | 60,0 | 27,0 | 14,0 | 22,0 | 19,0 24 C0TA01248 |

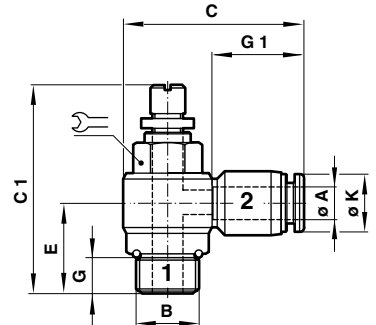
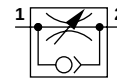
Control flow, see Page 4

C0D51  
C0E51  
C0F51  
C0G51

## Banjo with Top Port

| Ø A | B/B1 | C    | C1   | E    | G    | G1   | G2   | Ø K  | Typ          |
|-----|------|------|------|------|------|------|------|------|--------------|
| 4   | M5   | 25,0 | 20,0 | 10,0 | 3,5  | 16,5 | 6,0  | 9,5  | 8 C0D510405  |
| 4   | R1/8 | 30,5 | 30,0 | 14,5 | 9,0  | 16,5 | 8,0  | 9,5  | 17 C0E510418 |
| 4   | R1/4 | 34,5 | 35,5 | 18,0 | 11,0 | 16,5 | 10,0 | 9,5  | 17 C0F510428 |
| 6   | M5   | 28,0 | 20,0 | 11,0 | 3,5  | 17,5 | 6,0  | 12,0 | 8 C0D510605  |
| 6   | R1/8 | 31,0 | 30,0 | 14,5 | 9,0  | 17,5 | 8,0  | 12,0 | 14 C0E510618 |
| 6   | R1/4 | 35,0 | 35,5 | 18,0 | 11,0 | 17,5 | 10,0 | 12,0 | 17 C0F510628 |
| 6   | R3/8 | 38,5 | 41,0 | 21,0 | 12,0 | 17,5 | 11,0 | 12,0 | 21 C0G510638 |
| 8   | R1/8 | 33,0 | 30,0 | 15,5 | 9,0  | 18,5 | 8,0  | 14,0 | 14 C0E510818 |
| 8   | R1/4 | 38,0 | 35,5 | 19,0 | 11,0 | 18,5 | 10,0 | 14,0 | 17 C0F510828 |
| 8   | R3/8 | 40,0 | 41,0 | 21,0 | 12,0 | 18,5 | 11,0 | 14,0 | 21 C0G510838 |
| 10  | R1/4 | 39,0 | 35,5 | 20,0 | 11,0 | 19,5 | 10,0 | 16,5 | 17 C0F511028 |
| 10  | R3/8 | 42,0 | 41,0 | 22,5 | 12,0 | 19,5 | 11,0 | 16,5 | 21 C0G511038 |
| 12  | R3/8 | 46,0 | 41,0 | 23,0 | 12,0 | 22,0 | 11,0 | 19,0 | 21 C0G511238 |

## C0K51



## Banjo Flow Control

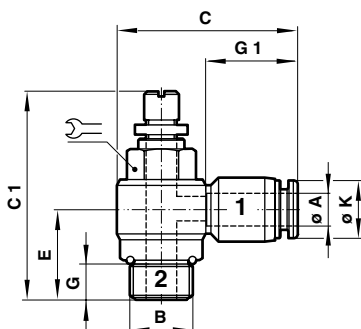
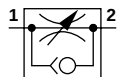
(out)

| Ø A | B    | C    | C1   | E    | G    | G1  | Ø K  | Typ               |
|-----|------|------|------|------|------|-----|------|-------------------|
|     |      |      | min. | max. |      |     |      |                   |
| 3   | M5   | 21,5 | 27,0 | 30,0 | 9,5  | 3,5 | 11,0 | 7,5 8 C0K510305   |
| 4   | M5   | 25,0 | 27,0 | 30,0 | 10,0 | 3,5 | 16,5 | 9,5 15 C0K510405  |
| 4   | G1/8 | 30,5 | 35,0 | 40,0 | 15,0 | 6,0 | 16,5 | 9,5 8 C0K510418   |
| 4   | G1/4 | 34,5 | 40,0 | 45,5 | 17,0 | 8,0 | 16,5 | 9,5 12 C0K510428  |
| 6   | M5   | 28,0 | 27,0 | 30,0 | 11,0 | 3,5 | 17,5 | 12,0 8 C0K510605  |
| 6   | G1/8 | 31,0 | 35,0 | 40,0 | 15,0 | 6,0 | 17,5 | 12,0 8 C0K510618  |
| 6   | G1/4 | 35,0 | 40,0 | 45,5 | 17,0 | 8,0 | 17,5 | 12,0 12 C0K510628 |
| 6   | G3/8 | 38,5 | 46,5 | 55,0 | 21,0 | 8,0 | 17,5 | 12,0 14 C0K510638 |
| 8   | G1/8 | 33,0 | 35,0 | 40,0 | 14,0 | 6,0 | 18,5 | 14,0 8 C0K510818  |
| 8   | G1/4 | 37,0 | 40,0 | 45,5 | 16,0 | 8,0 | 18,5 | 14,0 12 C0K510828 |
| 8   | G3/8 | 40,0 | 46,5 | 55,0 | 21,0 | 8,0 | 18,5 | 14,0 14 C0K510838 |
| 8   | G1/2 | 46,0 | 53,0 | 60,0 | 22,5 | 9,0 | 18,5 | 14,0 19 C0K510848 |
| 10  | G1/4 | 39,0 | 40,0 | 45,5 | 18,0 | 8,0 | 19,5 | 16,5 12 C0K511028 |
| 10  | G3/8 | 42,0 | 46,5 | 55,0 | 19,5 | 8,0 | 19,5 | 16,5 14 C0K511038 |
| 10  | G1/2 | 47,5 | 53,0 | 60,0 | 22,5 | 9,0 | 19,5 | 16,5 19 C0K511048 |
| 12  | G1/4 | 41,0 | 40,0 | 45,5 | 20,0 | 8,0 | 22,0 | 19,0 12 C0K511228 |
| 12  | G3/8 | 46,0 | 46,5 | 55,0 | 19,0 | 8,0 | 22,0 | 19,0 14 C0K511238 |
| 12  | G1/2 | 50,0 | 53,0 | 60,0 | 21,0 | 9,0 | 22,0 | 19,0 19 C0K511248 |

Control flow, see Page 4



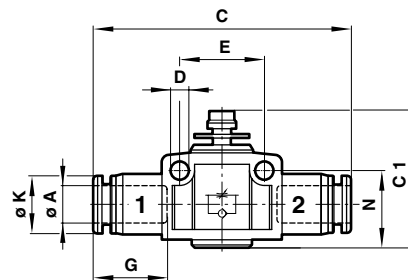
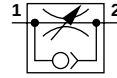
| Ø A | B    | C    | C1   |      | E    | G    | G1   | Ø K  | ≡  | Typ       |
|-----|------|------|------|------|------|------|------|------|----|-----------|
|     |      |      | min. | max. |      |      |      |      |    |           |
| 4   | R1/8 | 30,5 | 35,0 | 40,0 | 14,5 | 8,0  | 16,5 | 9,5  | 11 | COSA00418 |
| 4   | R1/4 | 34,5 | 40,0 | 45,5 | 18,0 | 10,0 | 16,5 | 9,5  | 15 | COSA00428 |
| 6   | R1/8 | 31,0 | 35,0 | 40,0 | 14,5 | 8,0  | 17,5 | 12,0 | 11 | COSA00618 |
| 6   | R1/4 | 35,0 | 40,0 | 45,5 | 18,0 | 10,0 | 17,5 | 12,0 | 15 | COSA00628 |
| 6   | R3/8 | 39,0 | 46,5 | 55,0 | 21,0 | 11,0 | 17,5 | 12,0 | 19 | COSA00638 |
| 8   | R1/8 | 33,0 | 35,0 | 40,0 | 15,5 | 8,0  | 18,5 | 14,0 | 11 | COSA00818 |
| 8   | R1/4 | 37,0 | 40,0 | 45,5 | 19,0 | 10,0 | 18,5 | 14,0 | 15 | COSA00828 |
| 8   | R3/8 | 40,0 | 46,5 | 55,0 | 21,0 | 11,0 | 18,5 | 14,0 | 19 | COSA00838 |
| 8   | R1/2 | 46,0 | 53,0 | 60,0 | 25,0 | 14,0 | 18,5 | 14,0 | 24 | COSA00848 |
| 10  | R1/4 | 39,0 | 40,0 | 45,5 | 20,0 | 10,0 | 19,5 | 16,5 | 15 | COSA01028 |
| 10  | R3/8 | 42,0 | 46,5 | 55,0 | 22,5 | 11,0 | 19,5 | 16,5 | 19 | COSA01038 |
| 10  | R1/2 | 47,5 | 53,0 | 60,0 | 25,0 | 14,0 | 19,5 | 16,5 | 24 | COSA01048 |
| 12  | R1/4 | 41,0 | 40,0 | 45,5 | 22,0 | 10,0 | 22   | 19,0 | 15 | COSA01228 |
| 12  | R3/8 | 46,0 | 46,5 | 55,0 | 23,0 | 11,0 | 22   | 19,0 | 19 | COSA01238 |
| 12  | R1/2 | 50,0 | 53,0 | 60,0 | 27,0 | 14,0 | 22   | 19,0 | 24 | COSA01248 |

**COL51**

(in)

| Ø A | B    | C    | C1   |      | E    | G   | G1   | Ø K  | ≡  | Typ       |
|-----|------|------|------|------|------|-----|------|------|----|-----------|
|     |      |      | min. | max. |      |     |      |      |    |           |
| 3   | M5   | 21,5 | 27,0 | 30,0 | 9,5  | 3,5 | 11,0 | 7,5  | 8  | COL510305 |
| 4   | M5   | 25,0 | 27,0 | 30,0 | 10,0 | 3,5 | 16,0 | 9,5  | 15 | COL510405 |
| 4   | G1/8 | 30,5 | 35,0 | 40,0 | 15,0 | 6,0 | 16,0 | 9,5  | 8  | COL510418 |
| 4   | G1/4 | 34,5 | 40,0 | 45,5 | 17,0 | 8,0 | 16,0 | 9,5  | 12 | COL510428 |
| 6   | M5   | 28,0 | 27,0 | 30,0 | 11,0 | 3,5 | 17,5 | 12,0 | 8  | COL510605 |
| 6   | G1/8 | 31,0 | 35,0 | 40,0 | 15,0 | 6,0 | 17,5 | 12,0 | 8  | COL510618 |
| 6   | G1/4 | 35,0 | 40,0 | 45,5 | 17,0 | 8,0 | 17,5 | 12,0 | 12 | COL510628 |
| 6   | G3/8 | 39,0 | 46,5 | 55,0 | 21,0 | 8,0 | 17,5 | 12,0 | 14 | COL510638 |
| 8   | G1/8 | 33,0 | 35,0 | 40,0 | 14,0 | 6,0 | 18,5 | 14,0 | 8  | COL510818 |
| 8   | G1/4 | 37,0 | 40,0 | 45,5 | 16,0 | 8,0 | 18,5 | 14,0 | 12 | COL510828 |
| 8   | G3/8 | 40,0 | 46,5 | 55,0 | 21,0 | 8,0 | 18,5 | 14,0 | 14 | COL510838 |
| 8   | G1/2 | 46,0 | 53,0 | 60,0 | 22,5 | 9,0 | 18,5 | 14,0 | 19 | COL510848 |
| 10  | G1/4 | 39,0 | 40,0 | 45,5 | 18,0 | 8,0 | 19,5 | 16,5 | 12 | COL511028 |
| 10  | G3/8 | 42,0 | 46,5 | 55,0 | 19,5 | 8,0 | 19,5 | 16,5 | 14 | COL511038 |
| 10  | G1/2 | 47,5 | 53,0 | 60,0 | 22,5 | 9,0 | 19,5 | 16,5 | 19 | COL511048 |
| 12  | G1/4 | 41,0 | 40,0 | 45,5 | 20,0 | 8,0 | 22,0 | 19,0 | 12 | COL511228 |
| 12  | G3/8 | 46,0 | 46,5 | 55,0 | 19,0 | 8,0 | 22,0 | 19,0 | 14 | COL511238 |
| 12  | G1/2 | 50,0 | 53,0 | 60,0 | 21,0 | 9,0 | 22,0 | 19,0 | 19 | COL511248 |

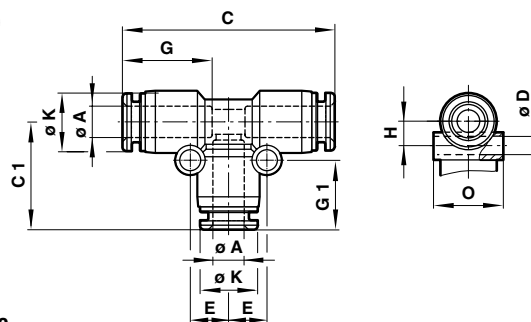
**C00GE**



### In-Line Flow Control

| Ø A | C    | C1   |      | D   | E    | G    | Ø K  | N    | Typ       |
|-----|------|------|------|-----|------|------|------|------|-----------|
|     |      | min. | max. |     |      |      |      |      |           |
| 4   | 45,0 | 30,0 | 33,0 | 3,3 | 15,0 | 16,5 | 9,5  | 13,5 | CO0GE0400 |
| 6   | 50,0 | 35,0 | 39,5 | 4,4 | 20,5 | 17,5 | 12,0 | 17,5 | CO0GE0600 |
| 8   | 55,5 | 37,5 | 42,0 | 4,4 | 23,0 | 18,5 | 14,0 | 20,0 | CO0GE0800 |
| 10  | 61,0 | 44,0 | 49,0 | 4,4 | 28,0 | 19,5 | 16,5 | 23,0 | CO0GE1000 |
| 12  | 70,0 | 47,5 | 53,5 | 4,4 | 32,0 | 22,0 | 19,0 | 25,5 | CO0GE1200 |

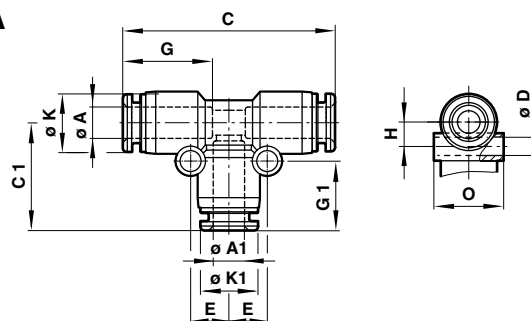
**C0060**



## Union Tee

| Ø A | C    | C1   | Ø D | E    | G    | G1   | H    | Ø K  | O    | Typ       |
|-----|------|------|-----|------|------|------|------|------|------|-----------|
| 4   | 36,5 | 19,0 | 3,3 | 6,5  | 16,5 | 12,5 | 8,5  | 9,5  | 10,5 | C00600400 |
| 6   | 42,0 | 21,5 | 3,3 | 7,5  | 17,5 | 13,5 | 7,5  | 12,0 | 12,5 | C00600600 |
| 8   | 45,0 | 23,5 | 4,3 | 9,0  | 18,5 | 15,0 | 9,0  | 14,0 | 14,5 | C00600800 |
| 10  | 48,0 | 25,5 | 4,3 | 10,0 | 20,0 | 15,5 | 11,0 | 16,5 | 17,5 | C00601000 |
| 12  | 57,0 | 29,5 | 4,3 | 13,0 | 22,0 | 16,5 | 12,5 | 19,0 | 20,5 | C00601200 |
| 16  | 68,0 | 34,5 | 4,3 | 16,0 | 24,0 | 18,0 | 16,0 | 25,0 | 25,5 | C00601600 |

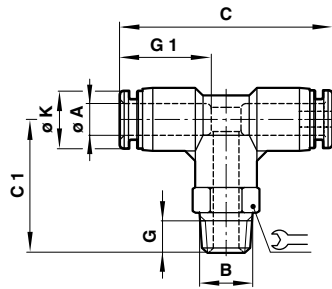
**C006A**



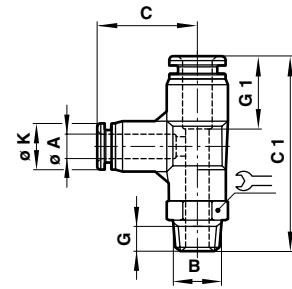
## Union Tee

(Unequal)

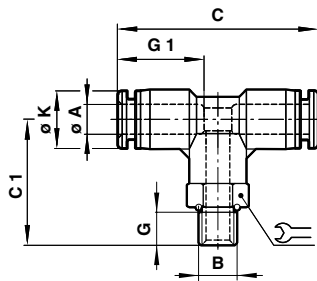
| Ø A | Ø A1 | C    | C1   | Ø D | E    | G    | G1   | H    | Ø K  | Ø K1 | O    | Typ       |
|-----|------|------|------|-----|------|------|------|------|------|------|------|-----------|
| 6   | 4    | 41,5 | 19,0 | 3,3 | 7,0  | 17,5 | 12,5 | 8,0  | 12,0 | 9,5  | 12,5 | C006A0604 |
| 8   | 6    | 45,0 | 22,0 | 4,3 | 8,5  | 18,5 | 13,5 | 9,5  | 14,0 | 12,0 | 15,0 | C006A0806 |
| 10  | 6    | 49,0 | 23,0 | 4,3 | 8,5  | 19,5 | 13,5 | 11,0 | 16,5 | 12,0 | 17,5 | C006A1006 |
| 10  | 8    | 49,0 | 25,0 | 4,3 | 9,5  | 19,5 | 15,0 | 11,0 | 16,5 | 14,0 | 17,5 | C006A1008 |
| 12  | 8    | 56,0 | 25,5 | 4,3 | 9,5  | 22,0 | 15,0 | 12,5 | 19,0 | 14,0 | 20,5 | C006A1208 |
| 12  | 10   | 56,0 | 27,5 | 4,3 | 11,0 | 22,0 | 15,5 | 12,5 | 19,0 | 16,5 | 20,5 | C006A1210 |
| 16  | 10   | 61,0 | 30,5 | 4,3 | 11,5 | 24,0 | 15,5 | 16,0 | 25,0 | 16,5 | 25,5 | C006A1610 |
| 16  | 12   | 63,5 | 33,0 | 4,3 | 13,0 | 24,0 | 16,5 | 16,0 | 25,0 | 19,0 | 25,5 | C006A1612 |

**C0167****Swivel Tee Adaptor**

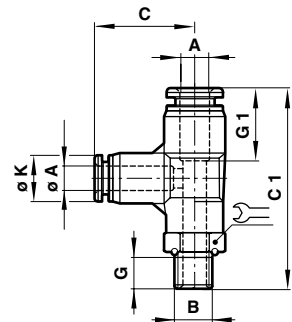
| Ø A | B    | C    | C1   | G    | G1   | Ø K  | ≡  | Typ       |
|-----|------|------|------|------|------|------|----|-----------|
| 4   | R1/8 | 37,5 | 24,5 | 8,0  | 17,0 | 9,5  | 10 | C01670418 |
| 4   | R1/4 | 37,5 | 26,5 | 10,0 | 17,0 | 9,5  | 14 | C01670428 |
| 4   | R3/8 | 37,5 | 27,5 | 11,0 | 17,0 | 9,5  | 17 | C01670438 |
| 6   | R1/8 | 41,0 | 26,5 | 8,0  | 17,5 | 12,0 | 12 | C01670618 |
| 6   | R1/4 | 41,0 | 29,5 | 10,0 | 17,5 | 12,0 | 14 | C01670628 |
| 6   | R3/8 | 41,0 | 30,5 | 11,0 | 17,5 | 12,0 | 17 | C01670638 |
| 6   | R1/2 | 41,0 | 33,5 | 14,0 | 17,5 | 12,0 | 22 | C01670648 |
| 8   | R1/8 | 44,0 | 28,0 | 8,0  | 18,5 | 14,0 | 14 | C01670818 |
| 8   | R1/4 | 44,0 | 31,0 | 10,0 | 18,5 | 14,0 | 14 | C01670828 |
| 8   | R3/8 | 44,0 | 32,0 | 11,0 | 18,5 | 14,0 | 17 | C01670838 |
| 8   | R1/2 | 44,0 | 35,0 | 14,0 | 18,5 | 14,0 | 22 | C01670848 |
| 10  | R1/8 | 47,0 | 28,5 | 8,0  | 19,5 | 16,5 | 17 | C01671018 |
| 10  | R1/4 | 47,0 | 32,0 | 10,0 | 19,5 | 16,5 | 17 | C01671028 |
| 10  | R3/8 | 47,0 | 32,5 | 11,0 | 19,5 | 16,5 | 17 | C01671038 |
| 10  | R1/2 | 47,0 | 35,5 | 14,0 | 19,5 | 16,5 | 22 | C01671048 |
| 12  | R1/8 | 55,0 | 32,5 | 8,0  | 22,0 | 19,0 | 19 | C01671218 |
| 12  | R1/4 | 55,0 | 34,5 | 10,0 | 22,0 | 19,0 | 19 | C01671228 |
| 12  | R3/8 | 55,0 | 35,5 | 11,0 | 22,0 | 19,0 | 19 | C01671238 |
| 12  | R1/2 | 55,0 | 38,5 | 14,0 | 22,0 | 19,0 | 22 | C01671248 |
| 16  | R3/8 | 64,5 | 43,0 | 11,0 | 24,0 | 25,0 | 24 | C01671638 |
| 16  | R1/2 | 64,5 | 46,0 | 14,0 | 24,0 | 25,0 | 24 | C01671648 |

**C0168****Swivel Side Tee Adaptor**

| Ø A | B    | C    | C1   | G    | G1   | Ø K  | ≡  | Typ       |
|-----|------|------|------|------|------|------|----|-----------|
| 4   | R1/8 | 20,0 | 45,0 | 8,0  | 17,0 | 9,5  | 10 | C01680418 |
| 4   | R1/4 | 20,0 | 48,0 | 10,0 | 17,0 | 9,5  | 14 | C01680428 |
| 4   | R3/8 | 20,0 | 49,0 | 11,0 | 17,0 | 9,5  | 17 | C01680438 |
| 6   | R1/8 | 21,5 | 48,5 | 8,0  | 17,5 | 12,0 | 12 | C01680618 |
| 6   | R1/4 | 21,5 | 51,0 | 10,0 | 17,5 | 12,0 | 14 | C01680628 |
| 6   | R3/8 | 21,5 | 52,0 | 11,0 | 17,5 | 12,0 | 17 | C01680638 |
| 6   | R1/2 | 21,5 | 55,0 | 14,0 | 17,5 | 12,0 | 22 | C01680648 |
| 8   | R1/8 | 23,5 | 52,0 | 8,0  | 18,5 | 14,0 | 14 | C01680818 |
| 8   | R1/4 | 23,5 | 55,0 | 10,0 | 18,5 | 14,0 | 14 | C01680828 |
| 8   | R3/8 | 23,5 | 56,0 | 11,0 | 18,5 | 14,0 | 17 | C01680838 |
| 8   | R1/2 | 23,5 | 59,0 | 14,0 | 18,5 | 14,0 | 22 | C01680848 |
| 10  | R1/8 | 25,5 | 55,5 | 8,0  | 19,5 | 16,5 | 17 | C01681018 |
| 10  | R1/4 | 25,5 | 58,5 | 10,0 | 19,5 | 16,5 | 17 | C01681028 |
| 10  | R3/8 | 25,5 | 59,5 | 11,0 | 19,5 | 16,5 | 17 | C01681038 |
| 10  | R1/2 | 25,5 | 62,5 | 14,0 | 19,5 | 16,5 | 22 | C01681048 |
| 12  | R1/8 | 30,0 | 63,0 | 8,0  | 22,0 | 19,0 | 19 | C01681218 |
| 12  | R1/4 | 30,0 | 65,0 | 10,0 | 22,0 | 19,0 | 19 | C01681228 |
| 12  | R3/8 | 30,0 | 66,0 | 11,0 | 22,0 | 19,0 | 19 | C01681238 |
| 12  | R1/2 | 30,0 | 69,0 | 14,0 | 22,0 | 19,0 | 22 | C01681248 |

**C0267****Swivel Tee Adaptor**

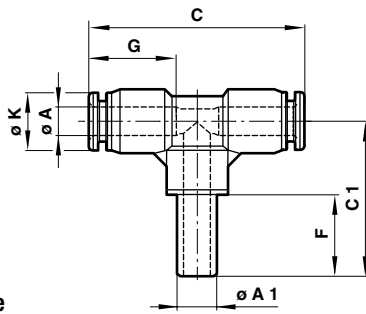
| Ø A | B    | C    | C1   | G    | G1   | Ø K  | ≡  | Typ       |
|-----|------|------|------|------|------|------|----|-----------|
| 4   | M5   | 37,5 | 22,0 | 4,5  | 17,0 | 9,5  | 10 | C02670405 |
| 4   | M6   | 37,5 | 22,0 | 4,5  | 17,0 | 9,5  | 10 | C02670406 |
| 4   | G1/8 | 37,5 | 22,0 | 6,0  | 17,0 | 9,5  | 14 | C02670418 |
| 4   | G1/4 | 37,5 | 24,0 | 8,0  | 17,0 | 9,5  | 17 | C02670428 |
| 4   | G3/8 | 37,5 | 24,0 | 8,0  | 17,0 | 9,5  | 20 | C02670438 |
| 6   | M5   | 41,0 | 24,0 | 4,5  | 17,5 | 12,0 | 12 | C02670605 |
| 6   | M6   | 41,0 | 24,0 | 4,5  | 17,5 | 12,0 | 12 | C02670606 |
| 6   | G1/8 | 41,0 | 24,5 | 6,0  | 17,5 | 12,0 | 14 | C02670618 |
| 6   | G1/4 | 41,0 | 26,5 | 8,0  | 17,5 | 12,0 | 17 | C02670628 |
| 6   | G3/8 | 41,0 | 27,5 | 9,0  | 17,5 | 12,0 | 20 | C02670638 |
| 6   | G1/2 | 41,0 | 28,5 | 9,0  | 17,5 | 12,0 | 24 | C02670648 |
| 8   | G1/8 | 44,5 | 26,0 | 6,0  | 18,5 | 14,0 | 14 | C02670818 |
| 8   | G1/4 | 44,5 | 28,0 | 8,0  | 18,5 | 14,0 | 17 | C02670828 |
| 8   | G3/8 | 44,5 | 29,0 | 9,0  | 18,5 | 14,0 | 20 | C02670838 |
| 8   | G1/2 | 44,5 | 30,0 | 10,0 | 18,5 | 14,0 | 24 | C02670848 |
| 10  | G1/8 | 47,0 | 26,5 | 6,0  | 19,5 | 16,5 | 17 | C02671018 |
| 10  | G1/4 | 47,0 | 28,5 | 8,0  | 19,5 | 16,5 | 17 | C02671028 |
| 10  | G3/8 | 47,0 | 29,5 | 9,0  | 19,5 | 16,5 | 20 | C02671038 |
| 10  | G1/2 | 47,0 | 30,5 | 10,0 | 19,5 | 16,5 | 24 | C02671048 |
| 12  | G1/4 | 55,0 | 31,5 | 8,0  | 22,0 | 19,0 | 19 | C02671228 |
| 12  | G3/8 | 55,0 | 32,5 | 9,0  | 22,0 | 19,0 | 20 | C02671238 |
| 12  | G1/2 | 55,0 | 33,5 | 10,0 | 22,0 | 19,0 | 24 | C02671248 |
| 16  | G3/8 | 64,5 | 40,0 | 9,0  | 24,0 | 25,0 | 24 | C02671638 |
| 16  | G1/2 | 64,5 | 41,0 | 10,0 | 24,0 | 25,0 | 24 | C02671648 |

**C0268****Swivel Side Tee Adaptor**

| Ø A | B    | C    | C1   | G    | G1   | Ø K  | ≡  | Typ       |
|-----|------|------|------|------|------|------|----|-----------|
| 4   | M5   | 20,0 | 42,0 | 4,5  | 17,0 | 9,5  | 10 | C02680405 |
| 4   | M6   | 20,0 | 42,0 | 4,5  | 17,0 | 9,5  | 10 | C02680406 |
| 4   | G1/8 | 20,0 | 43,0 | 6,0  | 17,0 | 9,5  | 14 | C02680418 |
| 4   | G1/4 | 20,0 | 45,0 | 8,0  | 17,0 | 9,5  | 17 | C02680428 |
| 4   | G3/8 | 20,0 | 45,0 | 8,0  | 17,0 | 9,5  | 20 | C02680438 |
| 6   | M5   | 21,5 | 46,0 | 4,5  | 17,5 | 12,0 | 12 | C02680605 |
| 6   | M6   | 21,5 | 46,0 | 4,5  | 17,5 | 12,0 | 12 | C02680606 |
| 6   | G1/8 | 21,5 | 47,0 | 6,0  | 17,5 | 12,0 | 14 | C02680618 |
| 6   | G1/4 | 21,5 | 49,0 | 8,0  | 17,5 | 12,0 | 17 | C02680628 |
| 6   | G3/8 | 21,5 | 50,0 | 9,0  | 17,5 | 12,0 | 20 | C02680638 |
| 8   | G1/8 | 23,5 | 50,0 | 6,0  | 18,5 | 14,0 | 14 | C02680818 |
| 8   | G1/4 | 23,5 | 52,0 | 8,0  | 18,5 | 14,0 | 17 | C02680828 |
| 8   | G3/8 | 23,5 | 56,0 | 9,0  | 18,5 | 14,0 | 20 | C02680838 |
| 8   | G1/2 | 23,5 | 54,0 | 10,0 | 18,5 | 14,0 | 24 | C02680848 |
| 10  | G1/8 | 25,5 | 54,0 | 6,0  | 19,5 | 16,5 | 17 | C02681018 |
| 10  | G1/4 | 25,5 | 56,0 | 8,0  | 19,5 | 16,5 | 17 | C02681028 |
| 10  | G3/8 | 25,5 | 57,0 | 9,0  | 19,5 | 16,5 | 20 | C02681038 |
| 10  | G1/2 | 25,5 | 58,0 | 10,0 | 19,5 | 16,5 | 24 | C02681048 |
| 12  | G1/4 | 30,0 | 62,0 | 8,0  | 22,0 | 19,0 | 19 | C02681228 |
| 12  | G3/8 | 30,0 | 63,0 | 9,0  | 22,0 | 19,0 | 20 | C02681238 |
| 12  | G1/2 | 30,0 | 64,0 | 10,0 | 22,0 | 19,0 | 24 | C02681248 |



## C0063



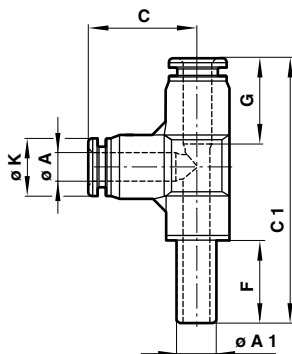
### Stem Side Tee (Equal)

| Ø A | Ø A1 | C    | C1   | F    | G    | Ø K  | Typ       |
|-----|------|------|------|------|------|------|-----------|
| 4   | 4    | 37,5 | 32,5 | 24,0 | 16,5 | 9,5  | C00630400 |
| 6   | 6    | 41,0 | 34,5 | 25,0 | 18,0 | 12,0 | C00630600 |
| 8   | 8    | 44,5 | 36,0 | 26,0 | 16,5 | 14,0 | C00630800 |
| 10  | 10   | 47,0 | 37,5 | 28,0 | 19,5 | 16,5 | C00631000 |
| 12  | 12   | 55,0 | 39,0 | 30,0 | 22,0 | 19,0 | C00631200 |

### (Unequal)

| Ø A | Ø A1 | C    | C1   | F    | G    | Ø K  | Typ       |
|-----|------|------|------|------|------|------|-----------|
| 4   | 6    | 37,5 | 33,5 | 25,0 | 17,0 | 9,5  | C00630604 |
| 6   | 8    | 41,0 | 35,5 | 28,0 | 17,5 | 12,0 | C00630806 |
| 8   | 10   | 44,5 | 38,5 | 28,0 | 18,5 | 14,0 | C00631008 |
| 10  | 12   | 47,0 | 39,5 | 30,0 | 19,5 | 16,5 | C00631210 |

## C0064



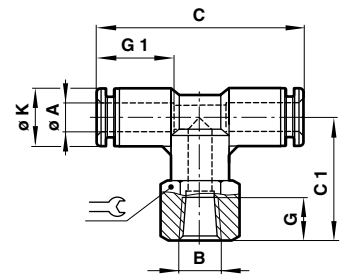
### Stem Tee (Equal)

| Ø A | Ø A1 | C    | C1   | F    | G    | Ø K  | Typ       |
|-----|------|------|------|------|------|------|-----------|
| 4   | 4    | 20,5 | 58,0 | 17,0 | 24,0 | 9,5  | C00640400 |
| 6   | 6    | 21,5 | 52,5 | 17,5 | 25,0 | 12,0 | C00640600 |
| 8   | 8    | 23,5 | 67,0 | 18,5 | 26,0 | 14,0 | C00640800 |
| 10  | 10   | 25,5 | 73,0 | 19,5 | 28,0 | 16,5 | C00641000 |
| 12  | 12   | 30,0 | 82,0 | 22,0 | 30,0 | 19,5 | C00641200 |

### (Unequal)

| Ø A | Ø A1 | C    | C1   | F    | G    | Ø K  | Typ       |
|-----|------|------|------|------|------|------|-----------|
| 4   | 6    | 20,0 | 59,0 | 17,0 | 25,0 | 9,5  | C00640604 |
| 6   | 8    | 21,5 | 63,5 | 17,5 | 26,0 | 12,0 | C00640806 |
| 8   | 10   | 23,5 | 69,5 | 18,5 | 28,0 | 14,0 | C00641008 |
| 10  | 12   | 25,5 | 75,0 | 19,5 | 30,0 | 16,5 | C00641210 |

## C016C/C026C

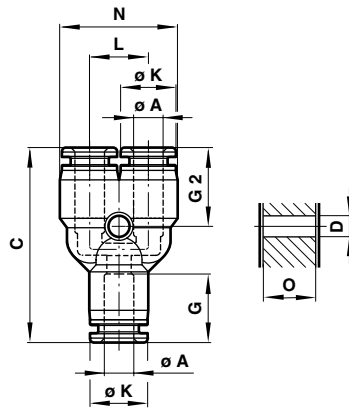


### Swivel Tee Adaptor (Female)

| Ø A | B    | C    | G    | G1   | C1   | Ø K  | Typ       |
|-----|------|------|------|------|------|------|-----------|
| 4   | M5   | 37,5 | 16,5 | 8,0  | 17,0 | 9,5  | C026C0405 |
| 4   | M6   | 37,5 | 16,5 | 8,0  | 17,0 | 9,5  | C026C0406 |
| 4   | R1/8 | 38,0 | 17,5 | 9,0  | 17,0 | 9,5  | C016C0418 |
| 4   | R1/4 | 38,0 | 19,5 | 11,0 | 17,0 | 9,5  | C016C0428 |
| 6   | M5   | 41,0 | 17,5 | 8,0  | 17,5 | 12,0 | C026C0605 |
| 6   | M6   | 41,0 | 17,5 | 8,0  | 17,5 | 12,0 | C026C0606 |
| 6   | R1/8 | 41,0 | 18,5 | 9,0  | 17,5 | 12,0 | C016C0618 |
| 6   | R1/4 | 41,0 | 20,5 | 11,0 | 17,5 | 12,0 | C016C0628 |
| 6   | R3/8 | 41,0 | 21,5 | 12,0 | 17,5 | 12,0 | C016C0638 |
| 8   | R1/8 | 44,5 | 21,0 | 9,0  | 18,5 | 14,0 | C016C0818 |
| 8   | R1/4 | 44,5 | 21,0 | 11,0 | 18,5 | 14,0 | C016C0828 |
| 8   | R3/8 | 44,5 | 22,0 | 12,0 | 18,5 | 14,0 | C016C0838 |
| 8   | R1/2 | 44,5 | 24,0 | 14,0 | 18,5 | 14,0 | C016C0848 |
| 10  | R1/8 | 47,0 | 20,0 | 9,0  | 19,5 | 16,5 | C016C1018 |
| 10  | R1/4 | 47,0 | 20,0 | 11,0 | 19,5 | 16,5 | C016C1028 |
| 10  | R3/8 | 47,0 | 21,0 | 12,0 | 19,5 | 16,5 | C016C1038 |
| 10  | R1/2 | 47,0 | 23,0 | 14,0 | 19,5 | 16,5 | C016C1048 |
| 12  | R1/4 | 55,0 | 21,0 | 11,0 | 22,0 | 19,0 | C016C1228 |
| 12  | R3/8 | 55,0 | 22,0 | 12,0 | 22,0 | 19,0 | C016C1238 |
| 12  | R1/2 | 55,0 | 24,0 | 14,0 | 22,0 | 19,0 | C016C1248 |

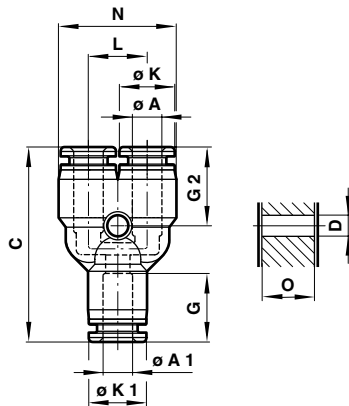


## C0082

Union Y  
(Equal)

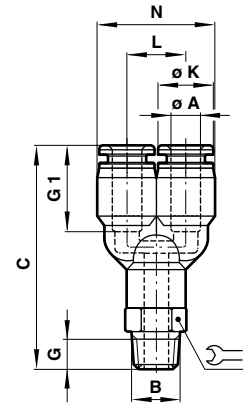
| Ø A | C    | D   | G    | G2   | Ø K  | L    | N    | O    | Typ       |
|-----|------|-----|------|------|------|------|------|------|-----------|
| 4   | 37,0 | 3,3 | 17,0 | 15   | 9,5  | 10,5 | 21,0 | 10,5 | C00820400 |
| 6   | 40,0 | 3,3 | 17,5 | 16   | 12,0 | 12,5 | 25,0 | 12,5 | C00820600 |
| 8   | 43,0 | 4,3 | 18,5 | 17   | 14,0 | 14,5 | 29,0 | 14,5 | C00820800 |
| 10  | 47,5 | 4,3 | 19,5 | 18,5 | 16,5 | 17,5 | 35,0 | 17,5 | C00821000 |
| 12  | 53,0 | 4,3 | 22,0 | 21,5 | 19,0 | 20,5 | 41,0 | 20,5 | C00821200 |

## C0082

Union Y  
(Unequal)

| Ø A | Ø A1 | C    | D   | G    | G2   | Ø K  | Ø K1 | L    | N    | O    | Type      |
|-----|------|------|-----|------|------|------|------|------|------|------|-----------|
| 4   | 6    | 38,0 | 3,3 | 17,5 | 15,0 | 10,5 | 12,5 | 10,5 | 21,0 | 10,5 | C00820604 |
| 6   | 8    | 41,0 | 4,3 | 18,5 | 16,0 | 12,5 | 14,5 | 12,5 | 25,0 | 13,0 | C00820806 |
| 8   | 10   | 43,0 | 4,3 | 19,5 | 17,0 | 14,5 | 17,5 | 14,5 | 29,0 | 15,0 | C00821008 |
| 10  | 12   | 46,5 | 4,3 | 22,0 | 18,5 | 17,5 | 20,5 | 17,5 | 35,0 | 18,0 | C00821210 |

## C0188

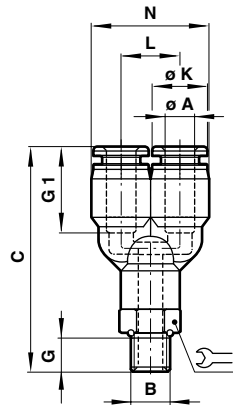


## Swivel Y Adaptor

| Ø A | B    | C    | G    | G1   | Ø K  | L    | N    | Ø  | Typ       |
|-----|------|------|------|------|------|------|------|----|-----------|
| 4   | R1/8 | 41,5 | 8,0  | 17,0 | 9,5  | 10,5 | 21,0 | 10 | C01880418 |
| 4   | R1/4 | 42,5 | 10,0 | 17,0 | 9,5  | 10,5 | 21,0 | 14 | C01880428 |
| 4   | R3/8 | 43,5 | 11,0 | 17,0 | 9,5  | 10,5 | 21,0 | 17 | C01880438 |
| 6   | R1/8 | 44,0 | 8,0  | 17,5 | 12,0 | 12,5 | 25,0 | 12 | C01880618 |
| 6   | R1/4 | 47,0 | 10,0 | 17,5 | 12,0 | 12,5 | 25,0 | 14 | C01880628 |
| 6   | R3/8 | 48,0 | 11,0 | 17,5 | 12,0 | 12,5 | 25,0 | 17 | C01880638 |
| 6   | R1/2 | 51,0 | 14,0 | 17,5 | 12,0 | 12,5 | 25,0 | 22 | C01880648 |
| 8   | R1/8 | 45,5 | 8,0  | 18,5 | 14,0 | 14,5 | 29,0 | 14 | C01880818 |
| 8   | R1/4 | 48,5 | 10,0 | 18,5 | 14,0 | 14,5 | 29,0 | 14 | C01880828 |
| 8   | R3/8 | 48,5 | 11,0 | 18,5 | 14,0 | 14,5 | 29,0 | 17 | C01880838 |
| 8   | R1/2 | 52,5 | 14,0 | 18,5 | 14,0 | 14,5 | 29,0 | 22 | C01880848 |
| 10  | R1/8 | 49,0 | 8,0  | 19,5 | 16,5 | 17,5 | 35,0 | 17 | C01881018 |
| 10  | R1/4 | 52,0 | 10,0 | 19,5 | 16,5 | 17,5 | 35,0 | 17 | C01881028 |
| 10  | R3/8 | 53,0 | 11,0 | 19,5 | 16,5 | 17,5 | 35,0 | 17 | C01881038 |
| 10  | R1/2 | 56,2 | 14,0 | 19,5 | 16,5 | 17,5 | 35,0 | 22 | C01881048 |
| 12  | R1/8 | 52,5 | 3,0  | 22,0 | 19,0 | 20,5 | 41,0 | 19 | C01881218 |
| 12  | R1/4 | 54,5 | 8,0  | 22,0 | 19,0 | 20,5 | 41,0 | 19 | C01881228 |
| 12  | R3/8 | 55,5 | 11,0 | 22,0 | 19,0 | 20,5 | 41,0 | 19 | C01881238 |
| 12  | R1/2 | 58,5 | 14,0 | 22,0 | 19,0 | 20,5 | 41,0 | 22 | C01881248 |



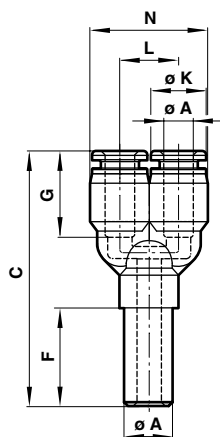
## C0288



### Swivel Y Adaptor

| Ø A | B    | C    | G    | G1   | Ø K  | L    | N    | Typ       |
|-----|------|------|------|------|------|------|------|-----------|
| 4   | M5   | 35,0 | 4,5  | 17,0 | 9,5  | 10,5 | 21,0 | C02880405 |
| 4   | M6   | 35,0 | 4,5  | 17,0 | 9,5  | 10,5 | 21,0 | C02880406 |
| 4   | G1/8 | 41,0 | 6,0  | 17,0 | 9,5  | 10,5 | 21,0 | C02880418 |
| 4   | G1/4 | 43,0 | 8,0  | 17,0 | 9,5  | 10,5 | 21,0 | C02880428 |
| 4   | G3/8 | 43,0 | 8,0  | 17,0 | 9,5  | 10,5 | 21,0 | C02880438 |
| 6   | M5   | 41,5 | 4,5  | 17,5 | 12,0 | 12,5 | 25,0 | C02880605 |
| 6   | M6   | 41,5 | 4,5  | 17,5 | 12,0 | 12,5 | 25,0 | C02880606 |
| 6   | G1/8 | 42,5 | 6,0  | 17,5 | 12,0 | 12,5 | 25,0 | C02880618 |
| 6   | G1/4 | 44,5 | 8,0  | 17,5 | 12,0 | 12,5 | 25,0 | C02880628 |
| 6   | G3/8 | 45,5 | 9,0  | 17,5 | 12,0 | 12,5 | 25,0 | C02880638 |
| 6   | G1/2 | 46,5 | 10,0 | 17,5 | 12,0 | 12,5 | 25,0 | C02880648 |
| 8   | G1/8 | 43,5 | 6,0  | 18,5 | 14,0 | 14,5 | 29,0 | C02880818 |
| 8   | G1/4 | 45,5 | 8,0  | 18,5 | 14,0 | 14,5 | 29,0 | C02880828 |
| 8   | G3/8 | 46,5 | 9,0  | 18,5 | 14,0 | 14,5 | 29,0 | C02880838 |
| 8   | G1/2 | 47,5 | 10,0 | 18,5 | 14,0 | 14,5 | 29,0 | C02880848 |
| 10  | G1/8 | 49,5 | 6,0  | 19,5 | 16,5 | 17,5 | 35,0 | C02881018 |
| 10  | G1/4 | 51,5 | 8,0  | 19,5 | 16,5 | 17,5 | 35,0 | C02881028 |
| 10  | G3/8 | 52,5 | 9,0  | 19,5 | 16,5 | 17,5 | 35,0 | C02881038 |
| 10  | G1/2 | 53,5 | 10,0 | 19,5 | 16,5 | 17,5 | 35,0 | C02881048 |
| 12  | G1/4 | 55,0 | 8,0  | 22,0 | 19,0 | 20,5 | 41,0 | C02881228 |
| 12  | G3/8 | 56,0 | 9,0  | 22,0 | 19,0 | 20,5 | 41,0 | C02881238 |
| 12  | G1/2 | 57,0 | 10,0 | 22,0 | 19,0 | 20,5 | 41,0 | C02881248 |

## C0084

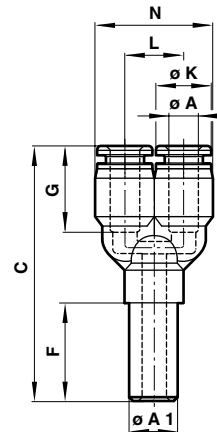


### Stem Y

(Equal)

| Ø A | Ø A | C    | F    | G    | Ø K  | L    | N    | Typ       |
|-----|-----|------|------|------|------|------|------|-----------|
| 4   | 4   | 49,5 | 22,0 | 17,0 | 9,5  | 10,5 | 21,0 | C00840400 |
| 6   | 6   | 54,5 | 24,0 | 17,5 | 12,0 | 12,5 | 25,0 | C00840600 |
| 8   | 8   | 60,0 | 26,0 | 18,5 | 14,0 | 14,5 | 29,0 | C00840800 |
| 10  | 10  | 66,0 | 28,0 | 20,0 | 16,5 | 17,5 | 35,0 | C00841000 |
| 12  | 12  | 71,5 | 30,0 | 22,0 | 19,0 | 20,5 | 41,0 | C00841200 |

## C0084

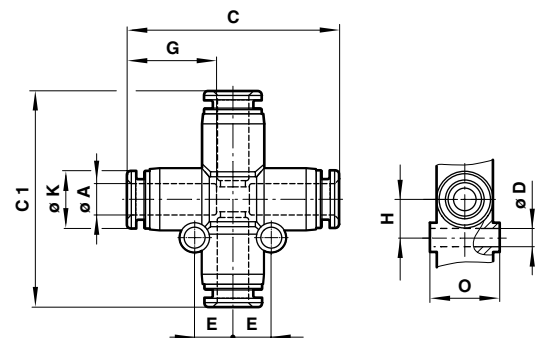


### Stem Y

(Unequal)

| Ø A | Ø A1 | C    | F    | G    | Ø K  | L    | N    | Typ       |
|-----|------|------|------|------|------|------|------|-----------|
| 4   | 6    | 51,5 | 24,0 | 17,5 | 9,5  | 10,5 | 21,0 | C00840604 |
| 6   | 8    | 56,5 | 26,0 | 18,5 | 12,0 | 12,5 | 25,0 | C00840806 |
| 8   | 10   | 62,0 | 28,0 | 20,0 | 14,0 | 14,5 | 29,0 | C00841008 |
| 10  | 12   | 68,0 | 30,0 | 22,0 | 16,5 | 17,5 | 35,0 | C00841210 |

## C0090

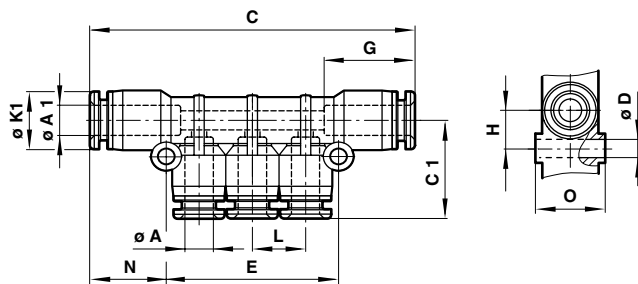


### Union Cross

| Ø A | C    | C1   | Ø D | E    | G    | H    | Ø K  | Typ       |
|-----|------|------|-----|------|------|------|------|-----------|
| 4   | 36,5 | 38,0 | 3,3 | 6,5  | 17,0 | 6,5  | 9,5  | C00900400 |
| 6   | 42,0 | 42,5 | 4,3 | 7,5  | 17,5 | 7,5  | 12,0 | C00900600 |
| 8   | 45,0 | 47,0 | 4,3 | 9,0  | 18,5 | 9,0  | 14,0 | C00900800 |
| 10  | 48,0 | 50,5 | 4,3 | 10,0 | 19,5 | 10,0 | 16,5 | C00901000 |
| 12  | 55,0 | 57,0 | 4,3 | 12,0 | 22,0 | 12,0 | 19,0 | C00901200 |



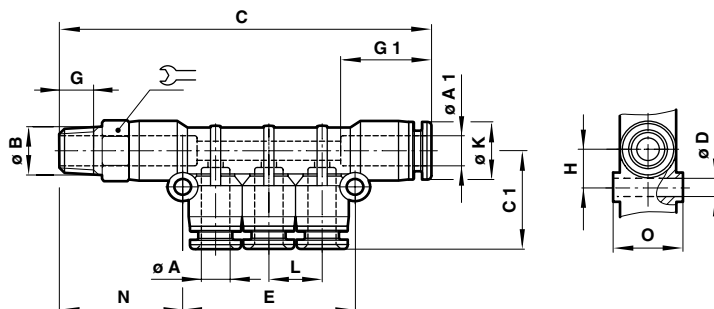
### C00D3



#### Manifold Union

| Ø A | Ø A1 | C    | C1   | D   | E    | G    | H   | Ø K1 | L    | N    | O    | Typ       |
|-----|------|------|------|-----|------|------|-----|------|------|------|------|-----------|
| 4   | 6    | 63,5 | 18,0 | 3,3 | 34,0 | 17,5 | 7,5 | 12,0 | 10,5 | 14,5 | 12,5 | C00D30604 |
| 4   | 8    | 65,5 | 21,5 | 4,3 | 35,0 | 18,5 | 9,0 | 14,0 | 10,5 | 15,5 | 14,5 | C00D30804 |
| 6   | 8    | 71,5 | 22,5 | 4,3 | 41,0 | 18,5 | 9,5 | 14,0 | 12,5 | 15,0 | 14,5 | C00D30806 |
| 6   | 10   | 78,0 | 23,5 | 4,3 | 42,0 | 19,5 | 9,5 | 16,5 | 12,5 | 18,5 | 17,5 | C00D31006 |
| 8   | 10   | 83,5 | 26,0 | 4,3 | 47,0 | 19,5 | 9,5 | 16,5 | 14,5 | 18,5 | 17,5 | C00D31008 |

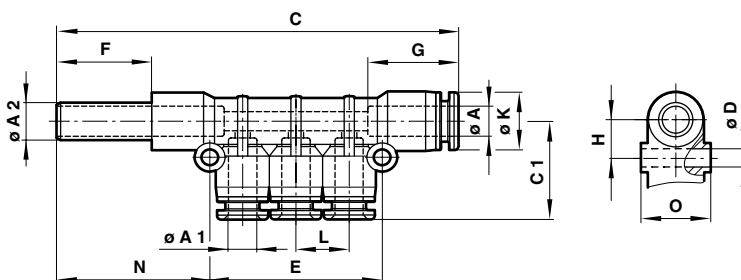
### C01D3



#### Male Manifold

| Ø A | Ø A1 | B    | C    | C1   | Ø D | E    | G    | G1   | H   | Ø K1 | L    | N    | O    | Typ       |
|-----|------|------|------|------|-----|------|------|------|-----|------|------|------|------|-----------|
| 4   | 6    | R1/8 | 72,0 | 24,0 | 3,3 | 34,0 | 8,0  | 17,5 | 7,5 | 12,0 | 10,5 | 23,5 | 12,5 | C01D30418 |
| 4   | 8    | R1/8 | 74,0 | 28,5 | 4,3 | 35,0 | 8,0  | 18,5 | 9,0 | 14,0 | 10,5 | 23,5 | 14,5 | C01D30428 |
| 6   | 8    | R1/4 | 82,5 | 34,0 | 4,3 | 41,0 | 10,0 | 18,5 | 9,5 | 14,0 | 12,5 | 26,5 | 14,5 | C01D30628 |
| 8   | 10   | R3/8 | 95,0 | 34,5 | 4,3 | 47,0 | 10,0 | 19,5 | 9,5 | 16,5 | 14,5 | 30,0 | 17,5 | C01D30838 |

### C00J3

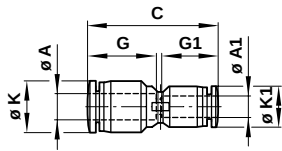


#### Stem Manifold

| Ø A | Ø A1 | Ø A2 | C     | C1   | Ø D | E    | F    | G    | H   | Ø K1 | L    | N    | O    | Typ       |
|-----|------|------|-------|------|-----|------|------|------|-----|------|------|------|------|-----------|
| 6   | 4    | 6    | 84,5  | 24,0 | 3,3 | 34,0 | 25,0 | 17,5 | 7,5 | 12,0 | 10,5 | 35,5 | 12,5 | C00J30604 |
| 8   | 4    | 8    | 89,5  | 28,5 | 4,3 | 35,0 | 28,5 | 18,5 | 9,0 | 14,0 | 10,5 | 39,5 | 14,5 | C00J30804 |
| 8   | 6    | 8    | 95,5  | 34,0 | 4,3 | 41,0 | 28,5 | 18,5 | 9,5 | 14,0 | 12,5 | 39,5 | 14,5 | C00J30806 |
| 10  | 8    | 10   | 109,5 | 34,5 | 4,3 | 47,0 | 31,0 | 19,5 | 9,5 | 16,5 | 14,5 | 44,5 | 17,5 | C00J31008 |

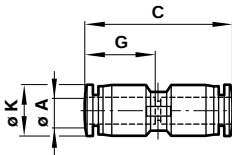


## M0020

Straight Union  
(Unequal)

| Ø A | Ø A1 | C    | G    | G1   | Ø K | Ø K1 | Typ       |
|-----|------|------|------|------|-----|------|-----------|
| 4   | 3    | 24,0 | 11,5 | 11,0 | 8   | 7    | M00200403 |
| 6   | 3    | 24,0 | 13,0 | 11,0 | 10  | 7    | M00200603 |
| 6   | 4    | 26,5 | 13,0 | 11,5 | 10  | 8    | M00200604 |

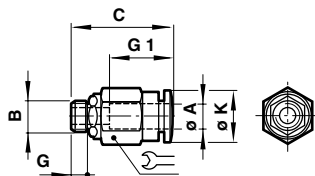
## M0020



## Straight Union

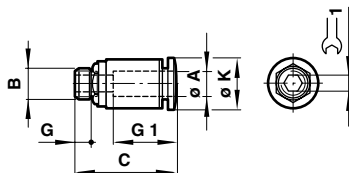
| Ø A | C    | G    | Ø K | Typ       |
|-----|------|------|-----|-----------|
| 3   | 23,5 | 11,0 | 7   | M00200300 |
| 4   | 26,0 | 11,5 | 8   | M00200400 |
| 6   | 26,5 | 13,0 | 10  | M00200600 |

## M0125, M0225

Straight Adaptor  
(External + internal hex)

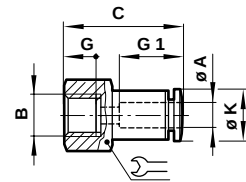
| Ø A | B    | C    | G   | G1   | Ø K  | Typ       |
|-----|------|------|-----|------|------|-----------|
| 3   | M3   | 17,0 | 4,0 | 11,0 | 7,0  | M02250303 |
| 3   | M5   | 17,5 | 4,5 | 11,0 | 7,0  | M02250305 |
| 3   | M6   | 18,0 | 5,0 | 11,0 | 7,0  | M02250306 |
| 4   | M3   | 17,5 | 4,0 | 11,5 | 8,0  | M02250403 |
| 4   | M5   | 18,0 | 4,5 | 11,5 | 8,0  | M02250405 |
| 4   | M6   | 19,0 | 5,0 | 11,5 | 8,0  | M02250406 |
| 4   | R1/8 | 19,0 | 6,0 | 11,5 | 8,0  | M01250418 |
| 6   | M5   | 19,5 | 4,5 | 13,0 | 10,0 | M02250605 |
| 6   | M6   | 20,0 | 5,0 | 13,0 | 10,0 | M02250606 |
| 6   | R1/8 | 19,5 | 8,0 | 13,0 | 10,0 | M01250618 |

## M012A, M022A

Straight Adaptor  
(Internal hex only)

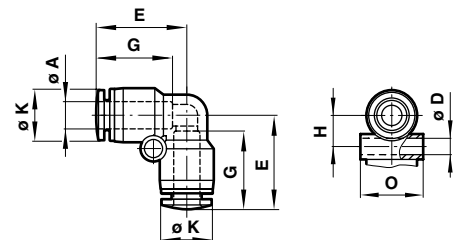
| Ø A | B    | C    | G   | G1   | Ø K  | Typ       |
|-----|------|------|-----|------|------|-----------|
| 3   | M3   | 17,0 | 4,0 | 11,0 | 7,0  | M022A0303 |
| 3   | M5   | 17,5 | 4,5 | 11,0 | 7,0  | M022A0305 |
| 3   | M6   | 18,0 | 5,0 | 11,0 | 8,0  | M022A0306 |
| 4   | M3   | 17,5 | 4,0 | 11,5 | 8,0  | M022A0403 |
| 4   | M5   | 19,0 | 4,5 | 11,5 | 8,0  | M022A0405 |
| 4   | M6   | 19,0 | 5,0 | 11,5 | 8,0  | M022A0406 |
| 4   | R1/8 | 17,5 | 8,0 | 11,5 | 8,0  | M012A0418 |
| 6   | M5   | 19,5 | 4,5 | 13,0 | 10,0 | M022A0605 |
| 6   | M6   | 20,0 | 5,0 | 13,0 | 10,0 | M022A0606 |
| 6   | R1/8 | 19,5 | 8,0 | 13,0 | 10,0 | M012A0618 |

## M0126, M0226

Straight Adaptor  
(Female thread)

| Ø A | B    | C    | G   | G1   | Ø K  | Typ       |
|-----|------|------|-----|------|------|-----------|
| 3   | M3   | 17,5 | 4,0 | 11,0 | 7,0  | M02260303 |
| 3   | M5   | 19,0 | 6,0 | 11,0 | 7,0  | M02260305 |
| 3   | M6   | 19,0 | 6,0 | 11,0 | 7,0  | M02260306 |
| 4   | M3   | 18,0 | 4,0 | 11,5 | 8,0  | M02260403 |
| 4   | M5   | 19,5 | 6,0 | 11,5 | 8,0  | M02260405 |
| 4   | M6   | 19,5 | 6,0 | 11,5 | 8,0  | M02260406 |
| 4   | R1/8 | 23,0 | 8,5 | 11,5 | 8,0  | M01260418 |
| 6   | M5   | 21,5 | 6,0 | 13,0 | 10,0 | M02260605 |
| 6   | M6   | 21,5 | 6,0 | 13,0 | 10,0 | M02260606 |
| 6   | R1/8 | 25,5 | 8,5 | 13,0 | 10,0 | M01260618 |

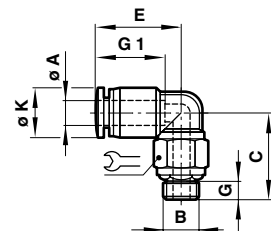
## M0040



## Union Elbow

| Ø A | Ø D | E    | G    | H   | Ø K  | O    | Typ       |
|-----|-----|------|------|-----|------|------|-----------|
| 3   | 3,2 | 13,5 | 11,0 | 5,5 | 7,0  | 7,5  | M00400300 |
| 4   | 3,2 | 14,5 | 11,5 | 6,0 | 8,0  | 8,5  | M00400400 |
| 6   | 3,2 | 16,5 | 13,0 | 7,0 | 10,0 | 10,5 | M00400600 |

## M0147, M0247

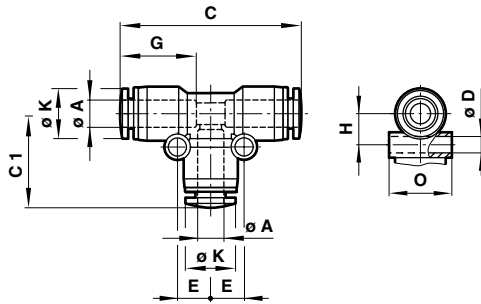


## 90° Swivel Elbow Adaptor

| Ø A | B    | C    | E    | G   | G1   | Ø K  | Typ       |
|-----|------|------|------|-----|------|------|-----------|
| 3   | M3   | 16,0 | 13,5 | 3,0 | 11,0 | 7,0  | M02470303 |
| 3   | M5   | 17,0 | 13,5 | 4,0 | 11,0 | 7,0  | M02470305 |
| 3   | M6   | 17,0 | 13,5 | 4,0 | 11,0 | 7,0  | M02470306 |
| 4   | M3   | 16,0 | 14,5 | 3,0 | 11,5 | 8,0  | M02470403 |
| 4   | M5   | 17,0 | 14,5 | 4,0 | 11,5 | 8,0  | M02470405 |
| 4   | M6   | 17,0 | 14,5 | 4,0 | 11,5 | 8,0  | M02470406 |
| 4   | R1/8 | 18,0 | 14,5 | 6,0 | 11,5 | 8,0  | M01470418 |
| 6   | M5   | 17,0 | 15,5 | 3,5 | 13,0 | 10,0 | M02470605 |
| 6   | M6   | 17,0 | 15,5 | 4,0 | 13,0 | 10,0 | M02470606 |
| 6   | R1/8 | 18,0 | 15,5 | 5,0 | 12,0 | 10,0 | M01470618 |



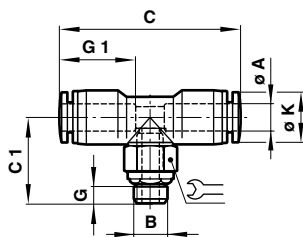
## M0060



### Union Tee

| Ø A | C    | C1   | Ø D | E   | G    | H   | Ø K  | O    | Typ       |
|-----|------|------|-----|-----|------|-----|------|------|-----------|
| 3   | 26,5 | 13,5 | 3,2 | 5,5 | 11,0 | 5,5 | 7,0  | 7,5  | M00600300 |
| 4   | 28,5 | 14,5 | 3,2 | 6,0 | 12,0 | 6,0 | 8,0  | 8,5  | M00600400 |
| 6   | 33,0 | 16,5 | 3,2 | 7,0 | 13,0 | 7,0 | 10,0 | 10,5 | M00600600 |

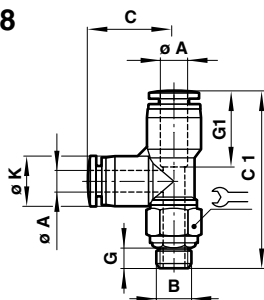
## M0167, M0267



### Swivel Tee Adaptor

| Ø A | B    | C    | C1   | G   | G1   | Ø K  | Ø D | Typ       |
|-----|------|------|------|-----|------|------|-----|-----------|
| 3   | M3   | 25,5 | 16,0 | 3,0 | 11,0 | 7,0  | 8   | M02670303 |
| 3   | M5   | 29,0 | 17,0 | 4,0 | 11,0 | 7,0  | 8   | M02670305 |
| 3   | M6   | 27,0 | 17,0 | 4,0 | 11,0 | 7,0  | 8   | M02670306 |
| 4   | M3   | 28,5 | 16,0 | 3,0 | 11,5 | 8,0  | 8   | M02670403 |
| 4   | M5   | 28,5 | 17,0 | 3,5 | 11,5 | 8,0  | 8   | M02670405 |
| 4   | M6   | 29,0 | 17,0 | 4,0 | 11,5 | 8,0  | 8   | M02670406 |
| 4   | R1/8 | 29,0 | 18,0 | 6,0 | 11,5 | 8,0  | 14  | M01670418 |
| 6   | M5   | 31,0 | 17,0 | 3,5 | 13,0 | 10,0 | 8   | M02670605 |
| 6   | M6   | 31,0 | 17,0 | 4,0 | 13,0 | 10,0 | 8   | M02670606 |
| 6   | R1/8 | 31,0 | 18,0 | 6,0 | 13,0 | 10,0 | 14  | M01670618 |

## M0168, M0268



### Swivel Side Tee Adaptor

| Ø A | B    | C    | C1   | G   | G1   | Ø K  | Ø D | Typ       |
|-----|------|------|------|-----|------|------|-----|-----------|
| 3   | M3   | 13,5 | 29,5 | 3,0 | 11,0 | 7,0  | 8   | M02680303 |
| 3   | M5   | 13,5 | 30,0 | 4,0 | 11,0 | 7,0  | 8   | M02680305 |
| 3   | M6   | 13,5 | 30,5 | 4,0 | 11,0 | 7,0  | 8   | M02680306 |
| 4   | M3   | 14,0 | 30,5 | 3,0 | 11,5 | 8,0  | 8   | M02680403 |
| 4   | M5   | 14,0 | 31,0 | 3,5 | 11,5 | 8,0  | 8   | M02680405 |
| 4   | M6   | 14,0 | 31,5 | 4,0 | 12,0 | 8,0  | 8   | M02680406 |
| 4   | R1/8 | 14,0 | 31,5 | 6,0 | 11,5 | 8,0  | 14  | M01680418 |
| 6   | M5   | 16,5 | 33,5 | 3,5 | 13,0 | 10,0 | 8   | M02680605 |
| 6   | M6   | 16,5 | 34,0 | 4,0 | 13,0 | 10,0 | 8   | M02680606 |
| 6   | R1/8 | 16,5 | 33,5 | 6,0 | 13,0 | 10,0 | 14  | M01680618 |