

- > Port size: Ø 4 ... 16 mm O/D tube, BSP threads
- > 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 PA or PUR 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.



Technical features

Medium:

Compressed air

Operating pressure:

10 bar (145 psi) max.

Vacuum:

750 mm of Hg

Thread sizes:

M5, M6, 1/8, 1/4, 3/8 and 1/2 ISO G, ISO Rc and ISO R

Ambient/Media temperature:

-20°C ... +60°C (-4 ... 140°F)

Tube sizes:

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

Tubing types:

PA 11 or 12

PUR 85, 95 or 98 durometer

Warning:

The Norgren Pneufit® C range must not be used in vehicle air braking or ancillary systems. For push in fittings suitable for these applications, please refer to the Fleetfit range.

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: chemitech G-175L

Method of assembly



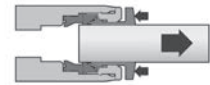
1. Ensure that the end of the tube is cut square and is free from burrs.



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

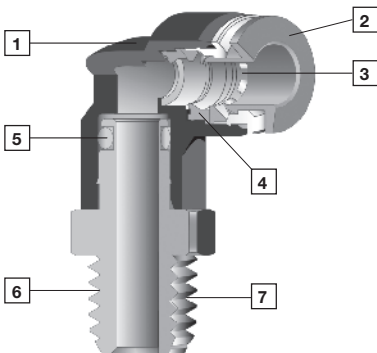


3. Continue pushing the tube through the 'O'-ring until it bottoms on the tube stop then pull back.



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

Components












- 1 Impact resistant PBT body in black
- 2 Release buttons are red for metric, grey for inch
- 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.

Option selector











Straight adaptors and connectors

<p>Straight adaptor, BSPT thread (external + internal hex) C0125</p>  <p>Page 7</p>	<p>Straight adaptor, BSPP thread (external + internal hex) C0225</p>  <p>Page 7</p>	<p>Straight adaptor, metric or BSPT thread (internal hex only) C012A/C022A</p>  <p>Page 7</p>	<p>Female adaptor, metric or BSPP thread C0226</p>  <p>Page 7</p>	<p>Straight union C0020</p>  <p>Page 8</p>	<p>Straight union (unequal) C0020</p>  <p>Page 8</p>	<p>Stem reducer C0023</p>  <p>Page 8</p>
<p>Stem expander (stem/tube) C0023</p>  <p>Page 8</p>	<p>Bulkhead union C0029</p>  <p>Page 8</p>	<p>Straight adaptor, BSPP thread (female bulkhead) C0232</p>  <p>Page 8</p>	<p>Stem union (equal) C0022</p>  <p>Page 8</p>	<p>Stem union (unequal) C0022</p>  <p>Page 9</p>	<p>Plug C0004</p>  <p>Page 9</p>	<p>Cap (female plug) C0012</p>  <p>Page 9</p>










Elbow adaptors and connectors

<p>Union elbow C0040</p>  <p>Page 9</p>	<p>90° Swivel elbow adaptor, BSPT thread C0147</p>  <p>Page 9</p>	<p>90° Swivel elbow adaptor, BSPP thread C0247</p>  <p>Page 9</p>	<p>Stem elbow C0043</p>  <p>Page 10</p>	<p>90° Swivel elbow adaptor (extended), metric or BSPT thread C0154/C0254</p>  <p>Page 10</p>	<p>90° Swivel elbow adaptor (female), metric or BSPT thread C0148/C0248</p>  <p>Page 10</p>	<p>Bulkhead union elbow C0049</p>  <p>Page 10</p>
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Y and quadruple connectors

<p>Union Y (equal + unequal) C0082</p>  <p>Page 11</p>	<p>Swivel Y adaptor, BSPT thread C0188</p>  <p>Page 11</p>	<p>Swivel Y adaptor, BSPP thread C0288</p>  <p>Page 11</p>	<p>Stem Y (equal + unequal) C0084</p>  <p>Page 11</p>	<p>Quadruple stem reducer C0096</p>  <p>Page 12</p>	<p>Quadruple Y union, BSPT thread C0195</p>  <p>Page 12</p>	<p>Quadruple Y union, BSPP thread C0295</p>  <p>Page 12</p>	<p>Quadruple reducer C0097</p>  <p>Page 12</p>
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Tee connectors and adaptors

<p>Union tee (equal) C0060</p>  <p>Page 12</p>	<p>Union tee (unequal) C006A</p>  <p>Page 12</p>	<p>Swivel tee adaptor, BSPT thread C0167</p>  <p>Page 13</p>	<p>Swivel tee adaptor, BSPP thread C0267</p>  <p>Page 13</p>	<p>Swivel side tee adaptor (female), metric or BSPT thread C016C/C026C</p>  <p>Page 13</p>	<p>Stem tee (equal) C0063</p>  <p>Page 13</p>
<p>Stem tee (unequal) C0063</p>  <p>Page 13</p>	<p>Stem side tee (equal) C0064</p>  <p>Page 14</p>	<p>Stem side tee (unequal) C0064</p>  <p>Page 14</p>	<p>Swivel side tee adaptor, BSPT thread C0168</p>  <p>Page 14</p>	<p>Swivel side tee adaptor, BSPP thread C0268</p>  <p>Page 14</p>	

Banjo flow controler
**Banjo flow control (out),
BSPT thread
C0TA0**


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**Banjo flow control (out),
metric or BSPP thread
COK51**


Page 20

**Banjo flow control (in),
BSPT thread
COSAO**


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**Banjo flow control (in),
metric or BSPP thread
COL51**


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**Shrouded banjo (out),
BSPT thread
COTBO**


Page 21

**Shrouded banjo (out),
metric or BSPP thread
COKBO**


Page 21

**Swivel speed control
(out),
BSPT thread
COT56**


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**Swivel speed control
(out),
metric or BSPP thread
COK56**


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**Speed control and pilot
check,
metric or BSPT thread
CO1GN**


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**Speed control and pilot
check,
metric or BSPT thread
CO2GN**


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**In-line flow control
COOGE**


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**In-line flow control
C00GP**


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Cross and manifolds
**Union cross
C0090**


Page 14

**Manifold union
C00D3**


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**Male manifold, BSPT
thread
C01D3**


Page 15

**Stem manifold
C00J3**


Page 15

**Banjo, metric or BSPP
thread
C0A51**


Page 15

**Banjo (with top port),
metric or BSPT thread
COD51, COE51, COF51,
COG51**


Page 15

**2x Swivel elbow
adaptor,
BSPT thread
C0Q51**


Page 16

**2x Swivel elbow adap-
tor,
BSPP thread
C0B51**


Page 16

**3x Swivel elbow adap-
tor,
BSPT thread
COH51**


Page 16

**3x Swivel elbow adap-
tor,
BSPP thread
C0C51**


Page 16

**Single universal tee,
BSPT thread
C0N71**


Page 17

**Single universal tee,
BSPP thread
C0A71**


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**Double universal tee,
BSPT thread
COQ71**


Page 17

**Double universal tee,
BSPP thread
C0B71**


Page 17

**Triple universal tee,
BSPT thread
C0H71**


Page 18

**Triple universal tee,
BSPP thread
C0C71**


Page 18

**Branch adaptor,
BSPT thread
CON70**


Page 18

**Branch adaptor, metric
or BSPP thread
COA70**


Page 18

**Female branch adaptor,
BSPT thread
C0*7K**


Page 19

**Female branch adaptor,
metric or BSPP thread
C0*7J**


Page 19

**Double branch adaptor,
BSPT thread
C0Q70**


Page 19

**Double branch adaptor,
BSPP thread
C0B70**


Page 19

**Triple branch adaptor,
BSPT thread
COH70**


Page 20

**Triple branch adaptor,
BSPP thread
C0C70**


Page 20

In-line non-return valve

In-line non-return valve
C00GL



Page 25

In-line non-return valve
(in), BSPT thread
C01G2



Page 25

In-line non-return valve
(in), metric or BSPP
thread
C02G2



Page 25

In-line non-return valve
(out), BSPT thread
C01G3



Page 25

In-line non-return valve
(out), metric or BSPP
thread
C02G3



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Self sealing adaptors

Straight adaptor,
BSPT thread
C0124



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Straight adaptor,
BSPP thread
C0224



Page 26

Straight union
C002J



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Swivel elbow,
BSPT thread
C014J



Page 26

Swivel elbow,
BSPP thread
C024J



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Hand valves

3/2 Shut-off valves,
BSPT thread
C01GG



Page 27

3/2 Shut-off valves,
BSPT thread
C01GH



Page 27

3/2 Shut-off valves,
BSPT thread
C01GJ



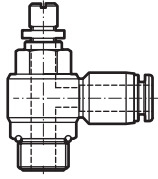
Page 27

3/2 Shut-off valves
C01GF

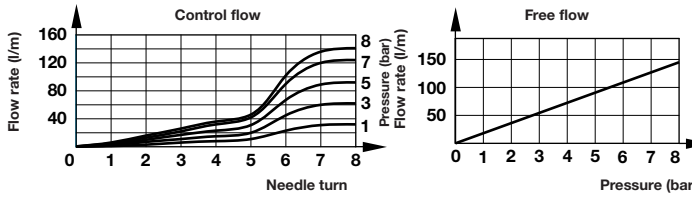


Page 27

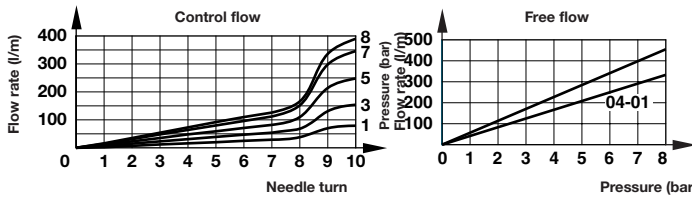
**Speed controllers flowrate for C0K51, C0TA0,
C0L51, C0K56, C0T56 and C0SA0 banjo types**



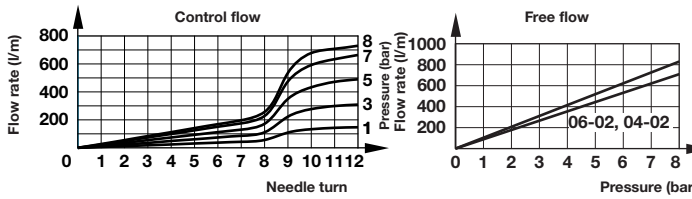
**3, 4 and 6 mm
M5**



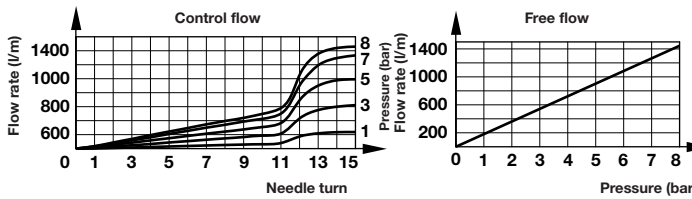
**4, 6 and 8 mm
1/8**



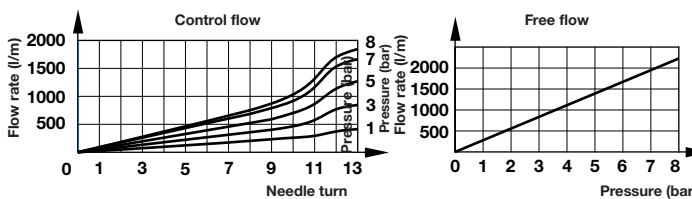
**4, 6, 8, 10 and 12 mm
1/4**



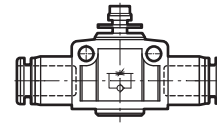
**6, 8, 10 and 12 mm
3/8**



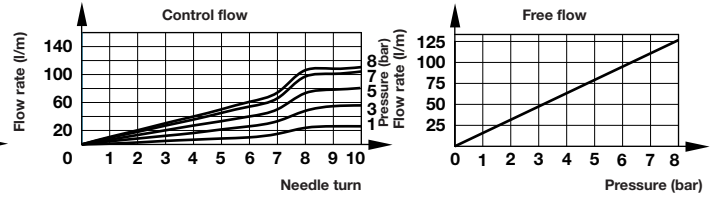
8, 10 and 12 mm 1/2



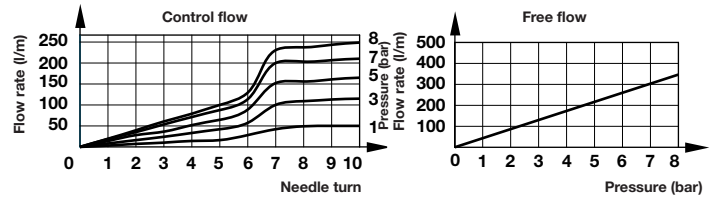
Speed controllers flowrate for C00GE, C00GP



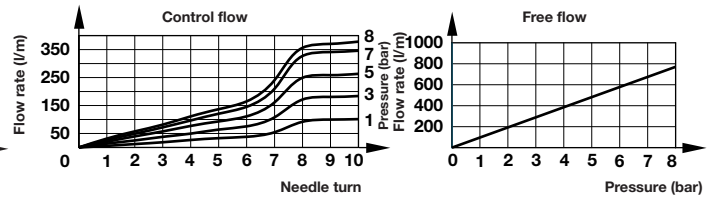
C00G*0400



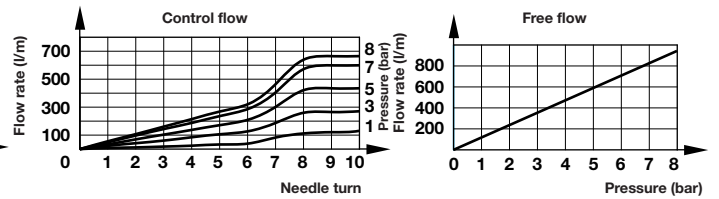
C00G*0600



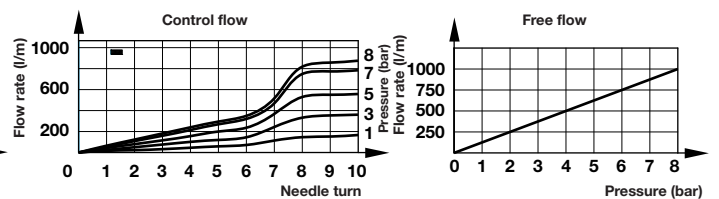
C00G*0800



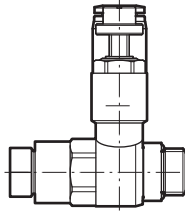
C00G*1000



C00G*1200

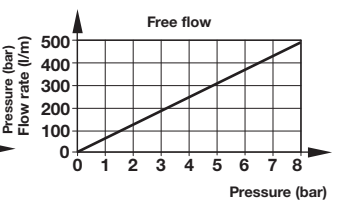
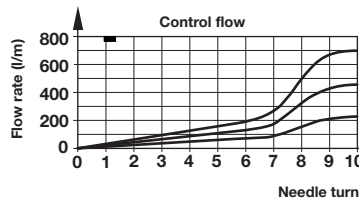
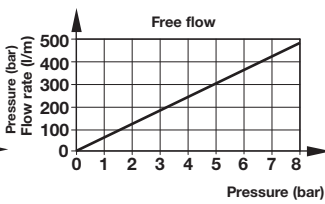
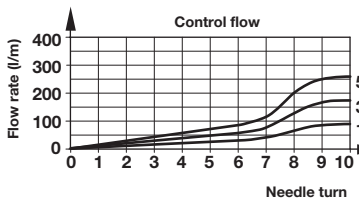


Speed controllers flowrate for C01GN and C02GN banjo types



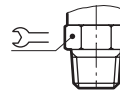
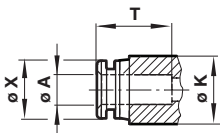
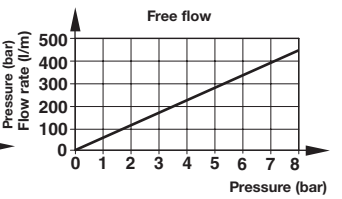
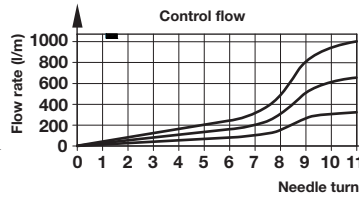
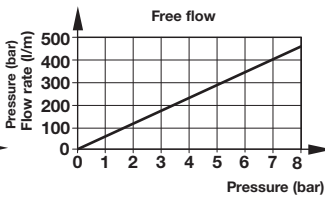
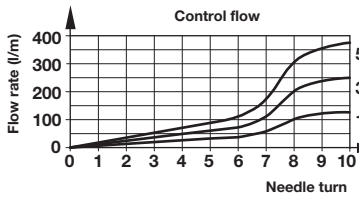
6 and 8 mm
 1/8

8, 10 and 12 mm
 3/8



6 and 8 mm
 1/4

10 and 12 mm
 1/2



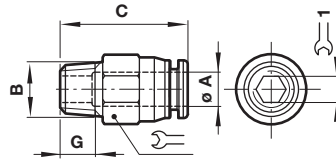
Technical data

Ø A	Ø K	T*1)	Ø X
4	10,5	15	9,5
6	12,5	16,5	12
8	14,5	18,5	14
10	17,5	20	16,5
12	20,5	23	19
16	27	23,5	25

Thread	Recommended torque	Thread	Recommended torque
M5	1,5 Nm		
M6	2,3 Nm		
G1/8	10 Nm	R1/8	7 Nm
G1/4	15 Nm	R1/4	12 Nm
G3/8	25 Nm	R3/8	22 Nm
G1/2	40 Nm	R1/2	28 Nm

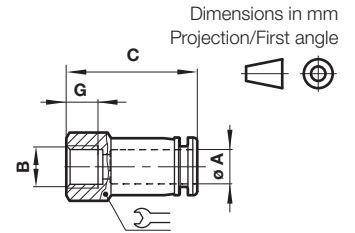
*1) Dimensions here and in the individual tables refer to the collet being in the 'IN' position.

Straight adaptor (external + internal hex)
C0125



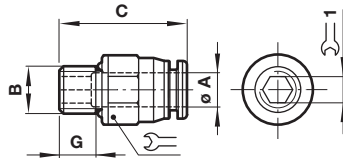
Ø A	B	C	G			Model
4	R1/8	21,5	8	10	3	C01250418
4	R1/4	20,5	10	14	3	C01250428
4	R3/8	22	11	17	3	C01250438
6	R1/8	22	8	12	4	C01250618
6	R1/4	21	10	14	5	C01250628
6	R3/8	22	11	17	5	C01250638
6	R1/2	29,5	14	19	5	C01250648
8	R1/8	27,5	8	14	5	C01250818
8	R1/4	25,5	10	14	6	C01250828
8	R3/8	23	11	17	6	C01250838
8	R1/2	29,5	14	19	6	C01250848
10	R1/8	28,5	8	17	5	C01251018
10	R1/4	30,5	10	17	6	C01251028
10	R3/8	24,5	11	17	8	C01251038
10	R1/2	29,5	14	19	8	C01251048
12	R1/8	31,5	8	19	5	C01251218
12	R1/4	33	10	19	6	C01251228
12	R3/8	30	11	19	8	C01251238
12	R1/2	30	14	19	8	C01251248
16	R3/8	37,5	11	24	10	C01251638
16	R1/2	40,5	14	24	10	C01251648

Female adaptor
C0226



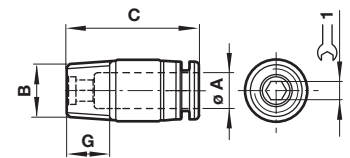
Ø A	B	C	G		Model
4	M5	26	7	12	C02260405
4	G1/8	26,5	9	14	C02260418
4	G1/4	28,5	11	17	C02260428
4	G3/8	30	12	22	C02260438
6	G1/8	27,5	9	14	C02260618
6	G1/4	29,5	11	17	C02260628
6	G3/8	30	12	22	C02260638
8	G1/8	28,5	9	14	C02260818
8	G1/4	30,5	11	17	C02260828
8	G3/8	31,5	12	22	C02260838
8	G1/2	34,5	14	24	C02260848
10	G1/8	31,5	9	17	C02261018
10	G1/4	31,5	11	17	C02261028
10	G3/8	32,5	12	22	C02261038
10	G1/2	34,5	14	24	C02261048
12	G1/4	34,5	11	22	C02261228
12	G3/8	34,5	12	22	C02261238
12	G1/2	36,5	14	24	C02261248

Straight adaptor (external + internal hex)
C0225



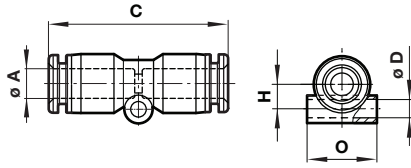
Ø A	B	C	G			Model
4	M5	22	4	10	-	C02250405
4	M6	22	8	10	-	C02250406
4	G1/8	21,5	6	13	3	C02250418
4	G1/4	23,5	8	15	3	C02250428
4	G3/8	22	8	17	3	C02250438
6	M5	23,5	5	12	-	C02250605
6	M6	23	4	12	-	C02250606
6	G1/8	26,5	6	13	4	C02250618
6	G1/4	24,5	8	15	5	C02250628
6	G3/8	25,5	8	17	5	C02250638
8	G1/8	26,5	6	15	5	C02250818
8	G1/4	26,5	8	15	6	C02250828
8	G3/8	25	8	17	6	C02250838
8	G1/2	26	9	21	6	C02250848
10	G1/8	29,5	6	17	5	C02251018
10	G1/4	30	8	17	8	C02251028
10	G3/8	27	8	17	8	C02251038
10	G1/2	28,5	9	21	8	C02251048
12	G1/4	32	8	19	8	C02251228
12	G3/8	31,5	8	19	8	C02251238
12	G1/2	31,5	9	21	8	C02251248
16	G3/8	36,5	8	24	8	C02251638
16	G1/2	36,5	9	24	10	C02251648

Straight adaptor (internal hex only)
C012A, C022A



Ø A	B	C	G		Model
4	M5	22	4,5	2	C022A0405
4	M6	22	4	3	C022A0406
4	R1/8	20,5	8	3	C012A0418
4	R1/4	20,5	10	3	C012A0428
4	R3/8	20,5	11	3	C012A0438
6	M5	22,5	5	2	C022A0605
6	M6	22,5	4	3	C022A0606
6	R1/8	22	8	4	C012A0618
6	R1/4	22,5	10	4	C012A0628
6	R3/8	22,5	11	4	C012A0638
8	R1/8	27	8	5	C012A0818
8	R1/4	25	10	6	C012A0828
8	R3/8	25	11	6	C012A0838
8	R1/2	25	14	6	C012A0848
10	R1/8	28	8	5	C012A1018
10	R1/4	29	10	6	C012A1028
10	R3/8	29	11	8	C012A1038
10	R1/2	29	14	8	C012A1048
12	R1/8	35	8	5	C012A1218
12	R1/4	32,5	10	6	C012A1228
12	R3/8	32,5	11	8	C012A1238
12	R1/2	32,5	14	8	C012A1248

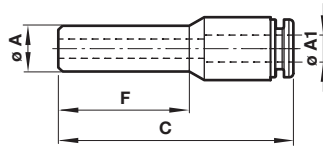
**Straight union
C0020**



Ø A	C	Ø D	H	O	Model
4	34,5	3,3	4,5	10,5	C00200400
6	37	3,3	5,5	12,5	C00200600
8	39,5	4,3	7	14,5	C00200800
10	43	4,3	8	17,5	C00201000
12	48	4,3	9,5	20,5	C00201200
16	51	-	-	-	C00201600*

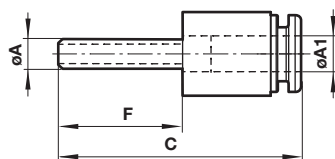
*No nail hole in 16 mm

**Stem reducer
C0023**



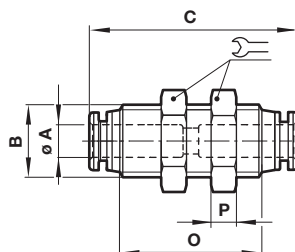
Ø A	Ø A1	C	F	Model
6	4	41	21,5	C00230604
8	4	42	22,5	C00230804
8	6	44,5	23,5	C00230806
10	6	47,5	26,5	C00231006
10	8	49,5	27,5	C00231008
12	6	52	29,5	C00231206
12	8	52,5	30,5	C00231208
12	10	56,5	31	C00231210
16	12	57,5	33	C00231612

**Stem expander (stem/tube)
C0023**



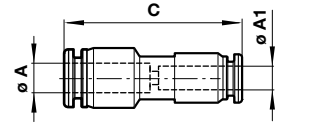
Ø A	Ø A1	C	F	Model
4	6	41	24	C00230406
6	8	44	26,5	C00230608

**Bulkhead union
C0029**



Ø A	B	C	O	P	1	Model
4	M12x1	35,5	24,5	4	14	C00290400
6	M14x1	40	27,5	4	17	C00290600
8	M16x1	42	29,5	5	19	C00290800
10	M20x1	45	31,5	5	24	C00291000
12	M22x1	50,5	36	5	26	C00291200

**Straight union (unequal)
C0020**

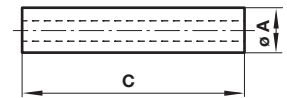


Dimensions in mm
Projection/First angle



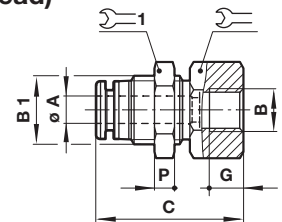
Ø A	Ø A1	C	Model
6	4	36,5	C00200604
8	4	38,5	C00200804
8	6	37,5	C00200806
10	6	40	C00201006
10	8	41	C00201008
12	8	46	C00201208
12	10	44	C00201210
16	12	49,5	C00201612

**Stem union (equal)
C0022**

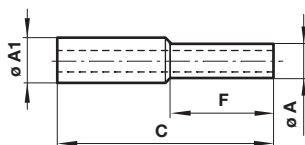


Ø A	C	Model
4	37	C00220400
6	38	C00220600
8	41	C00220800
10	44	C00221000
12	49	C00221200
16	53	C00221600

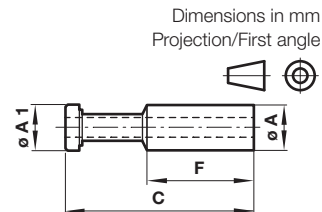
**Straight adaptor (female bulkhead)
C0232**



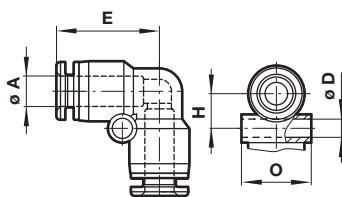
Ø A	B	B1	C	G	P	1	1	Model
4	G1/8	M12x1	26,5	9	4	14	14	C02320418
4	G1/4	M12x1	29	11	4	14	17	C02320428
4	G3/8	M12x1	30	12	4	14	22	C02320438
6	G1/8	M14x1	28,5	9	4	17	17	C02320618
6	G1/4	M14x1	30,5	11	4	17	17	C02320628
6	G3/8	M14x1	31,5	12	4	17	22	C02320638
8	G1/8	M16x1	29,5	9	5	19	19	C02320818
8	G1/4	M16x1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

**Stem union (unequal)
C0022**


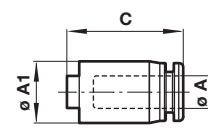
Ø A	Ø A1	C	F	Model
4	6	38	18	C00220604
6	8	41,5	20,5	C00220806
8	10	43,5	21,5	C00221008
10	12	46,5	22,5	C00221210
12	16	52	25	C00221612

**Plug
C0004**


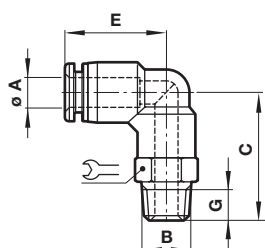
Ø A	Ø A1	C	F	Model
4	4	30	17,5	C00040400
6	6	34	18,5	C00040600
8	8	38	21	C00040800
10	10	42	24	C00041000
12	12	46	29,5	C00041200
16	16	50	30	C00041600

**Union elbow
C0040**


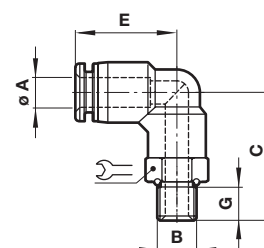
Ø A	Ø D	E	H	O	Model
4	3,3	19	8,5	10,5	C00400400
6	3,3	21	7,5	12,5	C00400600
8	4,3	22,5	9	14,5	C00400800
10	4,3	26	12	18	C00401000
12	4,3	30	13,5	21	C00401200
16	4,3	34	16	25,5	C00401600

**Cap (female plug)
C0012**


Ø A	Ø A1	C	Model
4	10,5	18	C00120400
6	12,5	19	C00120600
8	14,5	21	C00120800
10	17,5	23	C00121000
12	19,5	25	C00121200
16	24	25	C00121600

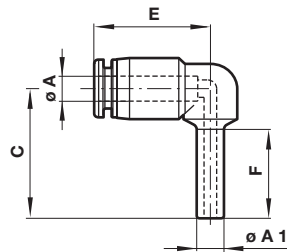
**90° Swivel elbow adaptor
C0147**


Ø A	B	C	E	G	⌀	Model
4	R1/8	24,5	18,5	8	10	C01470418
4	R1/4	26,5	18,5	10	14	C01470428
4	R3/8	27,5	18,5	11	17	C01470438
6	R1/8	26,5	20,5	8	12	C01470618
6	R1/4	29,5	20,5	10	14	C01470628
6	R3/8	30,5	20,5	11	17	C01470638
6	R1/2	33,5	20,5	14	21	C01470648
8	R1/8	28	23	8	14	C01470818
8	R1/4	31	23	10	14	C01470828
8	R3/8	32	23	11	17	C01470838
8	R1/2	35	23	14	21	C01470848
10	R1/8	28,5	23,5	8	17	C01471018
10	R1/4	31,5	23,5	10	17	C01471028
10	R3/8	32,5	23,5	11	17	C01471038
10	R1/2	35,5	23,5	14	21	C01471048
12	R1/8	32,5	27,5	8	19	C01471218
12	R1/4	34,5	27,5	10	19	C01471228
12	R3/8	35,5	27,5	11	19	C01471238
12	R1/2	38,5	27,5	14	21	C01471248
16	R3/8	43	32,5	11	24	C01471638
16	R1/2	46	32,5	14	24	C01471648

**90° Swivel elbow adaptor
C0247**


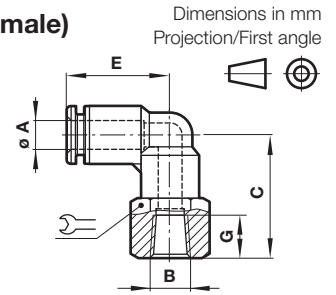
Ø A	B	C	E	G	⌀	Model
4	M5	22	18,5	4,5	10	C02470405
4	M6	22	18,5	4,5	10	C02470406
4	G1/8	22,5	18,5	6	14	C02470418
4	G1/4	24,5	18,5	8	17	C02470428
4	G3/8	24,5	18,5	8	20	C02470438
6	M5	24	20,5	4,5	12	C02470605
6	M6	24	20,5	4,5	12	C02470606
6	G1/8	24,5	20,5	6	14	C02470618
6	G1/4	26,5	20,5	8	17	C02470628
6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

**Stem elbow
C0043**



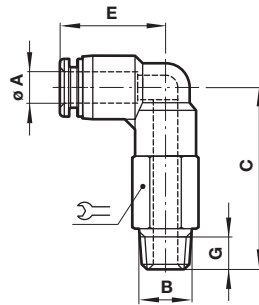
Ø A	Ø A1	C	E	F	Model
4	4	28,5	19	22	C00430400
6	6	31,5	20,5	24	C00430600
8	8	34,5	23	26	C00430800
10	10	38	24	28	C00431000
12	12	41	28	30	C00431200
16	16	48,5	32	35	C00431600

**90° Swivel elbow adaptor (female)
C0148/C0248**



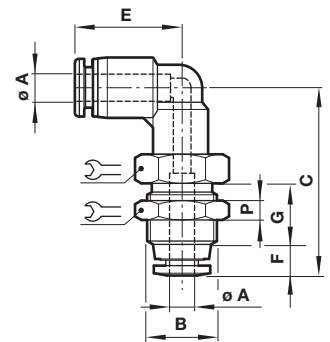
Ø A	B	C	E	G	⌀	Model
4	M5	21,5	18,5	4,5	10	C02480405
4	M6	21,5	18,5	4,5	10	C02480406
4	R1/8	22,5	18,5	9	14	C01480418
4	R1/4	24,5	18,5	11	17	C01480428
6	M5	23,5	20,5	4,5	12	C02480605
6	M6	23,5	20,5	4,5	12	C02480606
6	R1/8	24,5	20,5	9	14	C01480618
6	R1/4	26,5	20,5	11	17	C01480628
6	R3/8	27,5	20,5	12	21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

**90° Swivel elbow adaptor (extended)
C0154/C0254**



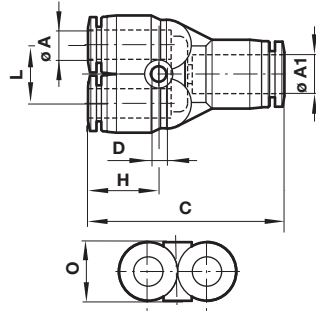
Ø A	B	C	E	G	⌀	Model
4	M5	33,5	18,5	4,6	10	C02540405
4	M6	33	18,5	4,6	10	C02540406
4	R1/8	35,5	18,5	8	10	C01540418
4	R1/4	37,5	18,5	10	14	C01540428
4	R3/8	38,5	18,5	11	17	C01540438
6	M5	38	20,5	4,5	12	C02540605
6	M6	37,5	20,5	4,5	12	C02540606
6	R1/8	40	20,5	8	12	C01540618
6	R1/4	42	20,5	10	14	C01540628
6	R3/8	43	20,5	11	17	C01540638
6	R1/2	46	20,5	14	21	C01540648
8	R1/8	44	23	8	14	C01540818
8	R1/4	46	23	10	14	C01540828
8	R3/8	47	23	11	17	C01540838
8	R1/2	50	23	14	21	C01540848
10	R1/8	47,5	23,5	8	17	C01541018
10	R1/4	49,5	23,5	10	17	C01541028
10	R3/8	50,5	23,5	11	17	C01541038
10	R1/2	53,5	23,5	14	21	C01541048
12	R1/8	54	27,5	8	19	C01541218
12	R1/4	56	27,5	10	19	C01541228
12	R3/8	57	27,5	11	19	C01541238
12	R1/2	60	27,5	14	21	C01541248
16	R3/8	69	32,5	11	24	C01541638
16	R1/2	72	32,5	14	24	C01541648

**Bulkhead union elbow
C0049**



Ø A	B	C	E	F	G	P	⌀	Model
4	M12x1	32,5	18,5	5,5	9	4	14	C00490400
6	M14x1	38	20,5	6	11	4	17	C00490600
8	M16x1	40,5	23	6,5	11,5	5	19	C00490800
10	M20x1	42,5	23,5	7	12	5	24	C00491000
12	M22x1	48	27,5	7,5	15	5	26	C00491200

**Union Y
C0082**



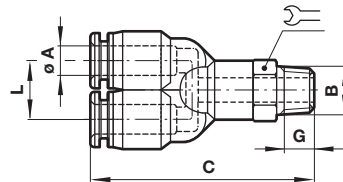
Equal

Ø A	Ø A1	C	D	H	L	O	Model
4	4	37	3,3	14,5	10,5	10,5	C00820400
6	6	40	3,3	16,5	12,5	12,5	C00820600
8	8	43	4,3	18,5	14,5	14,5	C00820800
10	10	47,5	4,3	19	17,5	17,5	C00821000
12	12	53	4,3	22	20,5	20,5	C00821200

Unequal

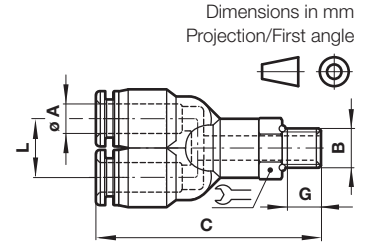
Ø A	Ø A1	C	D	H	L	O	Model
4	6	38	3,3	15	10,5	10,5	C00820604
4	8	39,5	3,3	15	10,5	15	C00820804
6	8	41	4,3	16	12,5	13	C00820806
6	10	43	3,3	16,5	13	17,5	C00821006
8	10	43	4,3	17	14,5	15	C00821008
8	12	48	3,3	17,5	15	21	C00821208
10	12	46,5	4,3	18,5	17,5	18	C00821210

**Swivel Y adaptor
C0188**



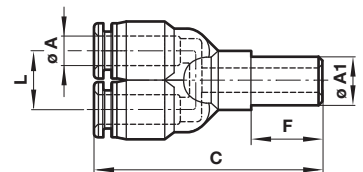
Ø A	B	C	G	L	Model
4	R1/8	41,5	8	10,5	C01880418
4	R1/4	42,5	10	10,5	C01880428
4	R3/8	43,5	11	10,5	C01880438
6	R1/8	44	8	12,5	C01880618
6	R1/4	47	10	12,5	C01880628
6	R3/8	48	11	12,5	C01880638
6	R1/2	51	14	12,5	C01880648
8	R1/8	45,5	8	14,5	C01880818
8	R1/4	48,5	10	14,5	C01880828
8	R3/8	48,5	11	14,5	C01880838
8	R1/2	52,5	14	14,5	C01880848
10	R1/8	49	8	17,5	C01881018
10	R1/4	52	10	17,5	C01881028
10	R3/8	53	11	17,5	C01881038
10	R1/2	56,2	14	17,5	C01881048
12	R1/8	52,5	3	20,5	C01881218
12	R1/4	54,5	8	20,5	C01881228
12	R3/8	55,5	11	20,5	C01881238
12	R1/2	58,5	14	20,5	C01881248

**Swivel Y adaptor
C0288**



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

**Stem Y
C0084**



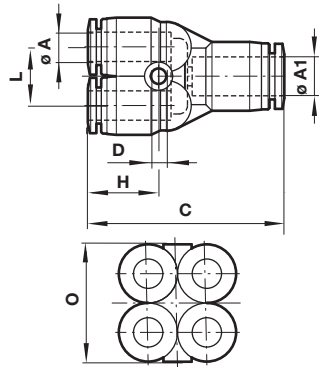
Equal

Ø A	Ø A1	C	F	L	Model
4	4	49,5	22	10,5	C00840400
6	6	54,5	24	12,5	C00840600
8	8	60	26	14,5	C00840800
10	10	66	28	17,5	C00841000
12	12	71,5	30	20,5	C00841200

Unequal

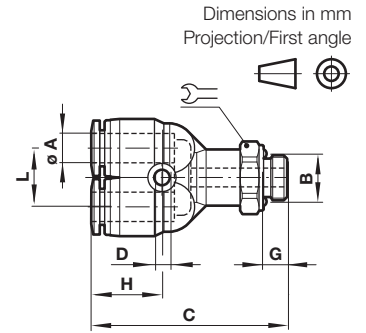
Ø A	Ø A1	C	F	L	Model
4	6	51,5	24	10,5	C00840604
6	8	56,5	26	12,5	C00840806
8	10	62	28	14,5	C00841008
10	12	68	30	17,5	C00841210

**Quadruple stem reducer
C0096**



Ø A	Ø A1	C	Ø D	H	L	O	Model
4	6	37	3,3	14	10,5	21	C00960604
6	8	40,5	3,3	15,5	12,5	25,5	C00960806

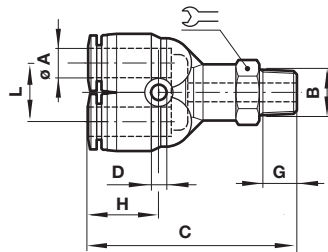
**Quadruple Y union
C0295**



Ø A	B	C	Ø D	G	H	L	O*	Model
4	G1/8	46	3,3	5	14	10,5	21	C02950418
4	G1/4	49	3,3	6,5	14	10,5	21	C02950428
6	G1/8	49	3,3	6,5	15,5	12,5	25,5	C02950618
6	G1/4	52	3,3	8	15,5	12,5	25,5	C02950628

* see drawing C0096 series

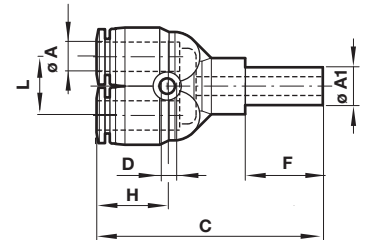
**Quadruple Y union
C0195**



Ø A	B	C	Ø D	G	H	L	O	Model
4	R1/8	44	3,3	8	14	10,5	21	C01950418
4	R1/4	48	3,3	10	14	10,5	21	C01950428
6	R1/8	48	3,3	8	15,5	12,5	25,5	C01950618
6	R1/4	51	3,3	10	15,5	12,5	25,5	C01950628

* see drawing C0096 series

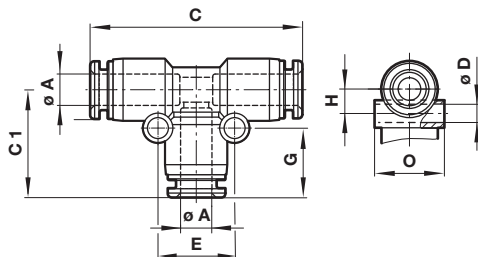
**Quadruple reducer
C0097**



Ø A	Ø A1	C	Ø D	F	H	L	O*	Model
4	6	43,5	3,3	17	14	12,5	21	C00970604
6	8	48	3,3	19	15,5	14,5	25,5	C00970806

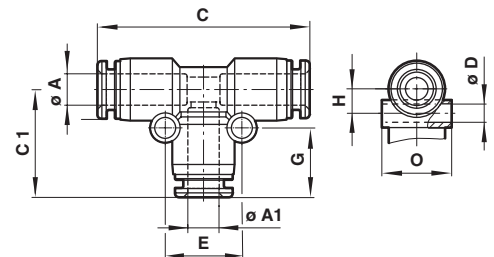
* see drawing C0096 series

**Union T (equal)
C0060**

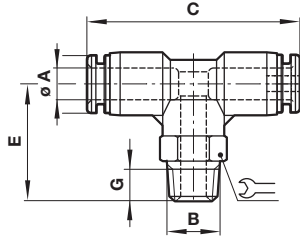



Ø A	C	C1	Ø D	E	G	H	O	Model
4	36,5	19	3,3	13	12,5	8,5	10,5	C00600400
6	42	21,5	3,3	15	13,5	7,5	12,5	C00600600
8	45	23,5	4,3	18	15	9	14,5	C00600800
10	48	25,5	4,3	20	15,5	11	17,5	C00601000
12	57	29,5	4,3	26	16,5	12,5	20,5	C00601200
16	68	34,5	4,3	32	18	16	25,5	C00601600

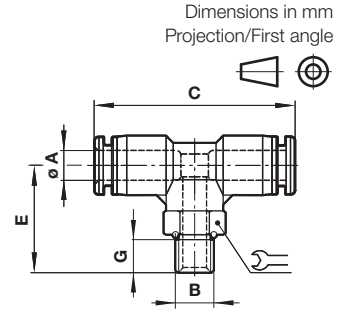
**Union T (unequal)
C006A**




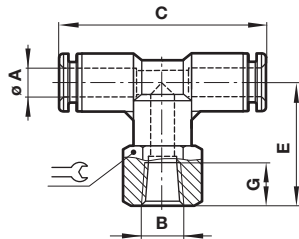
Ø A	Ø A1	C	C1	Ø D	E	G	H	O	Model
6	4	41,5	19	3,3	14	12,5	8	12,5	C006A0604
8	6	45	22	4,3	17	13,5	9,5	15	C006A0806
10	6	49	23	4,3	17	13,5	11	17,5	C006A1006
10	8	49	25	4,3	19	15	11	17,5	C006A1008
12	8	56	25,5	4,3	19	15	12,5	20,5	C006A1208
12	10	56	27,5	4,3	22	15,5	12,5	20,5	C006A1210
16	10	61	30,5	4,3	23	15,5	16	25,5	C006A1610
16	12	63,5	33	4,3	26	16,5	16	25,5	C006A1612


**Swivel tee adaptor
C0167**


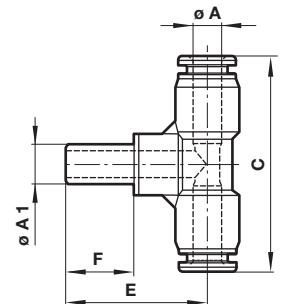
Ø A	B	C	E	G		Model
4	R1/8	37,5	24,5	8	10	C01670418
4	R1/4	37,5	26,5	10	14	C01670428
4	R3/8	37,5	27,5	11	17	C01670438
6	R1/8	41	26,5	8	12	C01670618
6	R1/4	41	29,5	10	14	C01670628
6	R3/8	41	30,5	11	17	C01670638
6	R1/2	41	33,5	14	21	C01670648
8	R1/8	44	28	8	14	C01670818
8	R1/4	44	31	10	14	C01670828
8	R3/8	44	32	11	17	C01670838
8	R1/2	44	35	14	21	C01670848
10	R1/8	47	28,5	8	17	C01671018
10	R1/4	47	32	10	17	C01671028
10	R3/8	47	32,5	11	17	C01671038
10	R1/2	47	35,5	14	21	C01671048
12	R1/8	55	32,5	8	19	C01671218
12	R1/4	55	34,5	10	19	C01671228
12	R3/8	55	35,5	11	19	C01671238
12	R1/2	55	38,5	14	21	C01671248
16	R3/8	64,5	43	11	24	C01671638
16	R1/2	64,5	46	14	24	C01671648

**Swivel tee adaptor
C0267**


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

**Swivel tee adaptor (female)
C016C/C026C**


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

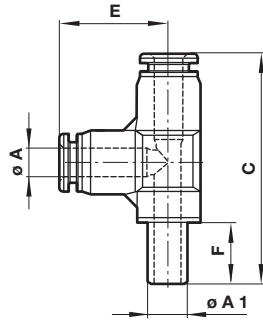
**Stem tee
C0063**

Equal

Ø A	Ø A1	C	E	F	Model
4	4	37,5	32,5	24	C00630400
6	6	41	34,5	25	C00630600
8	8	44,5	36	26	C00630800
10	10	47	37,5	28	C00631000
12	12	55	39	30	C00631200

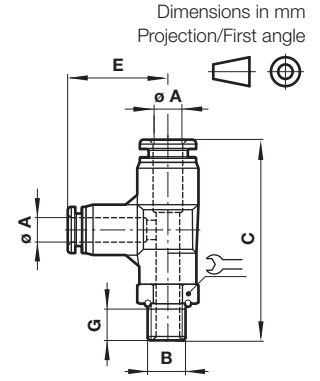
Unequal

Ø A	Ø A1	C	E	F	Model
4	6	37,5	33,5	25	C00630604
6	8	41	35,5	28	C00630806
8	10	44,5	38,5	28	C00631008
10	12	47	39,5	30	C00631210

Stem side tee
C0064



Swivel side tee adaptor
C0268



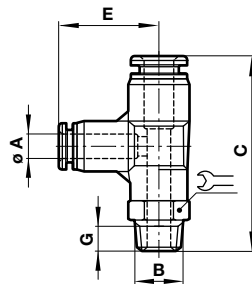
Equal


Ø A	Ø A1	C	E	F	Model
4	4	58	20,5	17	C00640400
6	6	52,5	21,5	17,5	C00640600
8	8	67	23,5	18,5	C00640800
10	10	73	25,5	19,5	C00641000
12	12	82	30	22	C00641200

Unequal

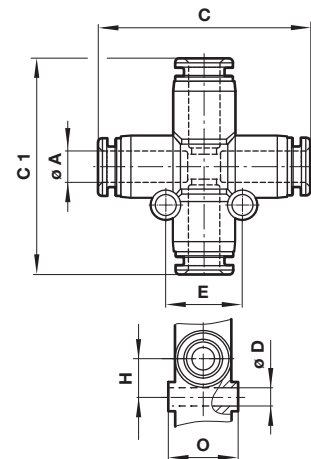
Ø A	Ø A1	C	E	F	Model
4	6	59	20	17	C00640604
6	8	63,5	21,5	17,5	C00640806
8	10	69,5	23,5	18,5	C00641008
10	12	75	25,5	19,5	C00641210


Swivel side tee adaptor
C0168



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

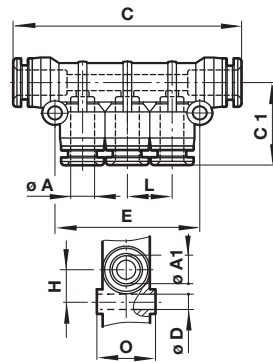
Union cross
C0090



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

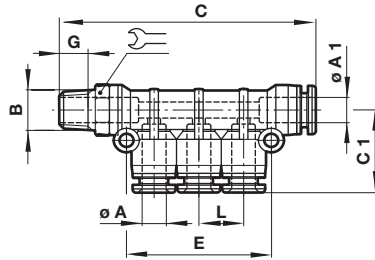
Ø A	C	C1	Ø D	E	H	O	Model
4	36,5	38	3,3	13	6,5	10,5	C00900400
6	42	42,5	4,3	15	7,5	12,5	C00900600
8	45	47	4,3	18	9	14,5	C00900800
10	48	50,5	4,3	20	10	17,5	C00901000
12	55	57	4,3	24	12	20,5	C00901200

**Manifold union
C00D3**



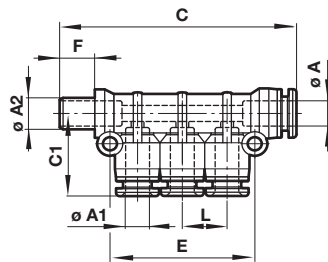
Ø A	Ø A1	C	C1	D	E	H	L	O	Model
4	6	63,5	18	3,3	34	7,5	10,5	12,5	C00D30604
4	8	65,5	21,5	4,3	35	9	10,5	14,5	C00D30804
6	8	71,5	22,5	4,3	41	9,5	12,5	14,5	C00D30806
6	10	78	23,5	4,3	42	9,5	12,5	17,5	C00D31006
8	10	83,5	26	4,3	47	9,5	14,5	17,5	C00D31008

**Male manifold
C01D3**



Ø A	Ø A1	B	C	C1	E	G	L	Model	
4	6	R1/8	72	24	34	8	10,5	12	C01D30418
4	8	R1/8	74	28,5	35	8	10,5	14	C01D30428
6	8	R1/4	82,5	34	41	10	12,5	14	C01D30628
8	10	R3/8	95	34,5	47	10	14,5	17	C01D30838

**Stem manifold
C00J3**

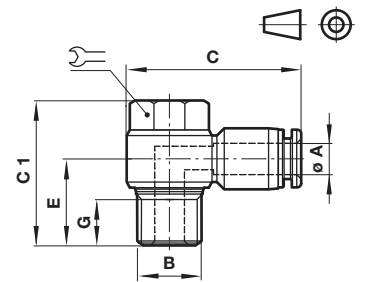


Ø A	Ø A1	Ø A2	C	C1	E	F	L	Model
4	6	6	84,5	24	34	25	10,5	C00J30604
4	8	8	89,5	28,5	35	28,5	10,5	C00J30804
6	8	8	95,5	34	41	28,5	12,5	C00J30806
8	10	10	109,5	34,5	47	31	14,5	C00J31008

**Banjo
C0A51**

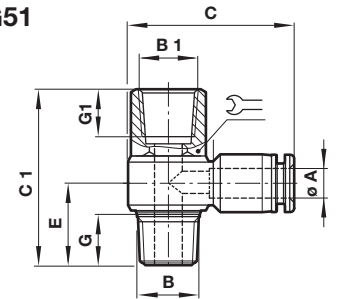


Dimensions in mm
Projection/First angle



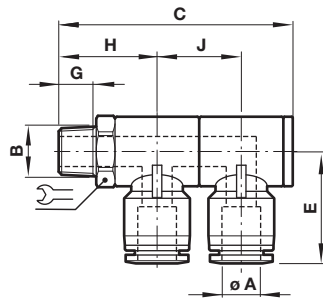
Ø A	B	C	C1	E	G	Projection/First angle	Model
4	M5	25	18	10	3,5	8	C0A510405
4	G1/8	30,5	25	14,5	11	8	C0A510418
4	G1/4	34,5	29	16,5	10	8	C0A510428
6	M5	18	28	11	3,5	8	C0A510605
6	G1/8	31	25	14,5	8	8	C0A510618
6	G1/4	35	29	16,5	10	12	C0A510628
6	G3/8	38,5	32,5	20,5	11	14	C0A510638
8	G1/8	33	25	13,5	8	8	C0A510818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

**Banjo (with top port)
C0D51/C0E51/C0F51/C0G51**

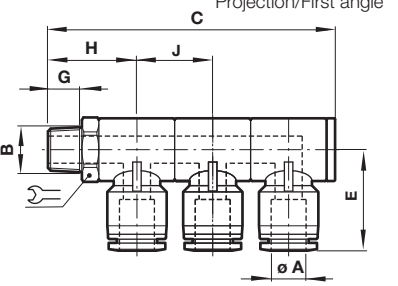


Ø A	B & B1	C	C1	E	G	G1	Projection/First angle	Model
4	M5	25	20	10	3,5	6	8	C0D510405
4	R1/8	30,5	30	14,5	9	8	14	C0E510418
4	R1/4	34,5	35,5	18	11	10	17	C0F510428
6	M5	28	20	11	3,5	6	8	C0D510605
6	R1/8	31	30	14,5	9	8	14	C0E510618
6	R1/4	35	35,5	18	11	10	17	C0F510628
6	R3/8	38,5	41	21	12	11	21	C0G510638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

**2x Swivel elbow adaptor
C0Q51**



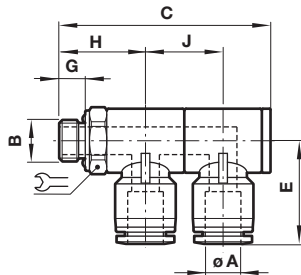
**3x Swivel elbow adaptor
C0H51**



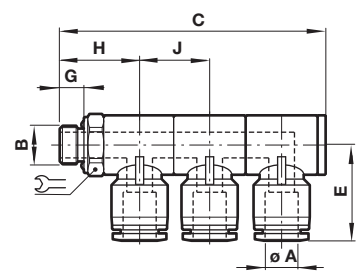
Ø A	B	C	E	G	H	J	↺	Model
4	R1/8	52	24	8	22,5	18	14	C0Q510418
4	R1/4	63	26	10	27,5	22	17	C0Q510428
4	R3/8	65	28	11	29	22	21	C0Q510438
4	R1/2	74	30	14	34	24	24	C0Q510448
6	R1/8	52	25	8	22,5	18	14	C0Q510618
6	R1/4	63	27	10	27,5	22	17	C0Q510628
6	R3/8	65	28,5	11	29	22	21	C0Q510638
6	R1/2	74	30	14	34	24	24	C0Q510648
8	R1/8	52	27	8	22,5	18	14	C0Q510818
8	R1/4	63	28,5	10	27,5	22	17	C0Q510828
8	R3/8	65	30,5	11	29	22	21	C0Q510838
8	R1/2	74	32	14	34	24	24	C0Q510848
10	R1/8	52	28,5	8	22,5	18	14	C0Q511018
10	R1/4	63	30,5	10	27,5	22	17	C0Q511028
10	R3/8	65	32,5	11	29	22	21	C0Q511038
10	R1/2	74	34,5	14	34	24	24	C0Q511048
12	R1/4	63	36	10	27,5	22	17	C0Q511228
12	R3/8	65	36	11	29	22	21	C0Q511238
12	R1/2	74	38	14	34	24	24	C0Q511248

Ø A	B	C	E	G	H	J	↺	Model
4	R1/8	70	24	8	22,5	18	14	C0H510418
4	R1/4	85	26	10	27,5	22	17	C0H510428
4	R3/8	87	28	11	29	22	21	C0H510438
4	R1/2	97,5	30	14	34	24	24	C0H510448
6	R1/8	70	25	8	22,5	18	14	C0H510618
6	R1/4	85	27	10	27,5	22	17	C0H510628
6	R3/8	87	28,5	11	29	22	21	C0H510638
6	R1/2	97,5	30	14	34	24	24	C0H510648
8	R1/8	70	27	8	22,5	18	14	C0H510818
8	R1/4	85	28,5	10	27,5	22	17	C0H510828
8	R3/8	87	30,5	11	29	22	21	C0H510838
8	R1/2	97,5	32	14	34	24	24	C0H510848
10	R1/8	70	28,5	8	22,5	18	14	C0H511018
10	R1/4	85	30,5	10	27,5	22	17	C0H511028
10	R3/8	87	32,5	11	29	22	21	C0H511038
10	R1/2	97,5	34,5	14	34	24	24	C0H511048
12	R1/4	85	36	10	27,5	22	17	C0H511228
12	R3/8	87	36	11	29	22	21	C0H511238
12	R1/2	87,5	38	14	34	24	24	C0H511248

**2x Swivel elbow adaptor
C0B51**

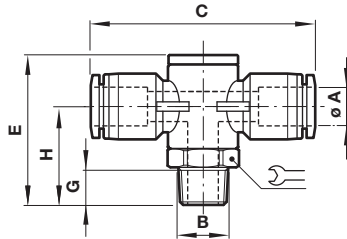


**3x Swivel elbow adaptor
C0C51**

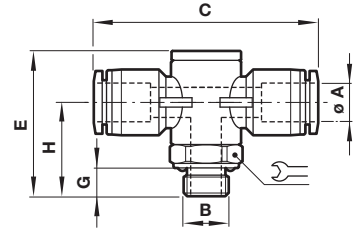



Ø A	B	C	E	G	H	J	↺	Model
4	G1/8	50	24	5	20,5	18	14	C0B510418
4	G1/4	61	26	6,5	25,5	22	17	C0B510428
4	G3/8	62	28	6,5	26	22	21	C0B510438
4	G1/2	70	30	8	29,5	24	24	C0B510448
6	G1/8	50	25	5	20,5	18	14	C0B510618
6	G1/4	61	27	6,5	25,5	22	17	C0B510628
6	G3/8	62	28,5	6,5	26	22	21	C0B510638
6	G1/2	70	30	8	29,5	24	24	C0B510648
8	G1/8	50	27	5	20,5	18	14	C0B510818
8	G1/4	61	28,5	6,5	25,5	22	17	C0B510828
8	G3/8	62	30,5	6,5	26	22	21	C0B510838
8	G1/2	70	32	8	29,5	24	24	C0B510848
10	G1/8	50	28,5	5	20,5	18	14	C0B511018
10	G1/4	61	30,5	6,5	25,5	22	17	C0B511028
10	G3/8	62	32,5	6,5	26	22	21	C0B511038
10	G1/2	70	34,5	8	29,5	24	24	C0B511048
12	G1/4	61	36	6,5	25,5	22	17	C0B511228
12	G3/8	62	36	6,5	26	22	21	C0B511238
12	G1/2	70	38	8	29,5	24	24	C0B511248

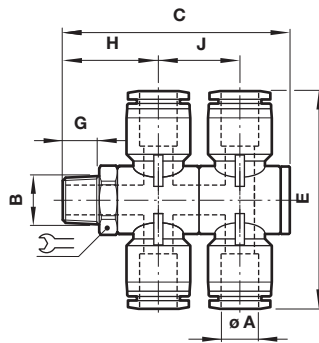
Ø A	B	C	E	G	H	J	↺	Model
4	G1/8	68	24	5	20,5	18	14	C0C510418
4	G1/4	83	26	6,5	25,5	22	17	C0C510428
4	G3/8	84	28	6,5	26	22	21	C0C510438
4	G1/2	93	30	8	29,5	24	24	C0C510448
6	G1/8	68	25	5	20,5	18	14	C0C510618
6	G1/4	83	27	6,5	25,5	22	17	C0C510628
6	G3/8	84	28,5	6,5	26	22	21	C0C510638
6	G1/2	93	30	8	29,5	24	24	C0C510648
8	G1/8	68	27	5	20,5	18	14	C0C510818
8	G1/4	83	28,5	6,5	25,5	22	17	C0C510828
8	G3/8	84	30,5	6,5	26	22	21	C0C510838
8	G1/2	93	32	8	29,5	24	24	C0C510848
10	G1/8	68	28,5	5	20,5	18	14	C0C511018
10	G1/4	83	30,5	6,5	25,5	22	17	C0C511028
10	G3/8	84	32,5	6,5	26	22	21	C0C511038
10	G1/2	83	34,5	8	29,5	24	24	C0C511048
12	G1/4	83	34	6,5	25,5	22	17	C0C511228
12	G3/8	84	35	6,5	26	22	21	C0C511238
12	G1/2	93	38	8	29,5	24	24	C0C511248


**Single universal tee
C0N71**


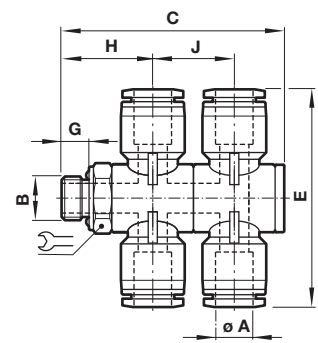
Ø A	B	C	E	G	H		Model
4	R1/8	47	34	8	25,5	14	C0N710418
4	R1/4	50,5	41	10	27,5	17	C0N710428
4	R3/8	54,5	43	11	29	21	C0N710438
4	R1/2	58,5	50	14	34	24	C0N710448
6	R1/8	48,5	34	8	22,5	14	C0N710618
6	R1/4	52	41	10	27,5	17	C0N710628
6	R3/8	56	43	11	29	21	C0N710638
6	R1/2	58,5	50	14	34	24	C0N710648
8	R1/8	52	34	8	22,5	14	C0N710818
8	R1/4	55,5	41	10	27,5	17	C0N710828
8	R3/8	59,5	43	11	29	21	C0N710838
8	R1/2	63,5	50	14	34	24	C0N710848
10	R1/8	56	34	8	22,5	14	C0N711018
10	R1/4	59,5	41	10	27,5	17	C0N711028
10	R3/8	63,5	43	11	29	21	C0N711038
10	R1/2	67	50	14	34	24	C0N711048
12	R1/4	66	41	10	27,5	17	C0N711228
12	R3/8	70	43	11	29	21	C0N711238
12	R1/2	74,5	50	14	34	24	C0N711248


**Single universal tee
C0A71**

 Dimensions in mm
Projection/First angle

Ø A	B	C	E	G	H		Model
4	G1/8	47	32	5	20,5	14	C0A710418
4	G1/4	50,5	39	6,5	25,5	17	C0A710428
4	G3/8	54,5	40	6,5	26	21	C0A710438
4	G1/2	58,5	45,5	8	29,5	24	C0A710448
6	G1/8	48,5	32	5	20,5	14	C0A710618
6	G1/4	52	39	6,5	25,5	17	C0A710628
6	G3/8	56	40	6,5	26	21	C0A710638
6	G1/2	58,5	45,5	8	29,5	24	C0A710648
8	G1/8	52	32	5	20,5	14	C0A710818
8	G1/4	55,5	39	6,5	25,5	17	C0A710828
8	G3/8	59,5	40	6,5	26	21	C0A710838
8	G1/2	62,5	45,5	8	29,5	24	C0A710848
10	G1/8	56	32	5	20,5	14	C0A711018
10	G1/4	59,5	39	6,5	25,5	17	C0A711028
10	G3/8	63,5	40	6,5	26	21	C0A711038
10	G1/2	67	45,5	8	29,5	24	C0A711048
12	G1/4	66	39	6,5	25,5	17	C0A711228
12	G3/8	70	40	6,5	26	21	C0A711238
12	G 1/2	74,5	45,5	8	29,5	24	C0A711248

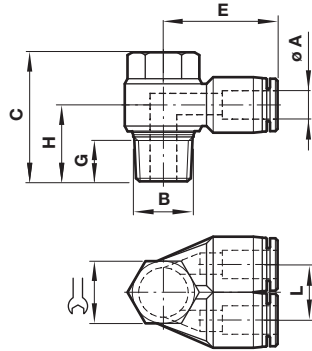
**Double universal tee
C0Q71**


Ø A	B	C	E	G	H	J		Model
4	R1/8	52	47	8	22,5	18	14	C0Q710418
4	R1/4	63	50,5	10	27,5	22	17	C0Q710428
4	R3/8	65	54,5	11	29	22	21	C0Q710438
4	R1/2	74	58,5	14	34	24	24	C0Q710448
6	R1/8	52	48,5	8	22,5	18	14	C0Q710618
6	R1/4	63	52	10	27,5	22	17	C0Q710628
6	R3/8	65	56	11	29	22	21	C0Q710638
6	R1/2	74	58,5	14	34	24	24	C0Q710648
8	R1/8	52	52	8	22,5	18	14	C0Q710818
8	R1/4	63	55,5	10	27,5	22	17	C0Q710828
8	R3/8	65	59,5	11	29	22	21	C0Q710838
8	R1/2	74	62,5	14	34	24	24	C0Q710848
10	R1/8	52	56	8	22,5	18	14	C0Q711018
10	R1/4	63	59,5	10	27,5	22	17	C0Q711028
10	R3/8	65	63,5	11	29	22	21	C0Q711038
10	R1/2	74	67	14	34	24	24	C0Q711048
12	R1/4	63	66	10	27,5	21	17	C0Q711228
12	R3/8	65	70	11	29	21	21	C0Q711238
12	R1/2	74	74,5	14	34	24	24	C0Q711248

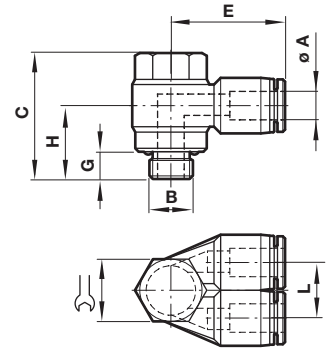
**Double universal tee
C0B71**


Ø A	B	C	E	G	H	J		Model
4	G1/8	50	47	5	20,5	18	14	C0B710418
4	G1/4	61	50,5	6,5	25,5	22	17	C0B710428
4	G3/8	62	54,5	6,5	26	22	21	C0B710438
4	G1/2	69,5	58,5	8	29,5	24	24	C0B710448
6	G1/8	50	48,5	5	20,5	18	14	C0B710618
6	G1/4	61	52	6,5	25,5	22	17	C0B710628
6	G3/8	62	56	6,5	26	22	21	C0B710638
6	G1/2	69,5	58,5	8	29,5	24	24	C0B710648
8	G1/8	50	52	5	20,5	18	14	C0B710818
8	G1/4	61	55,5	6,5	25,5	22	17	C0B710828
8	G3/8	62	59,5	6,5	26	22	21	C0B710838
8	G1/2	69,5	62,5	8	29,5	24	24	C0B710848
10	G1/8	50	56	5	20,5	18	14	C0B711018
10	G1/4	61	59,5	6,5	25,5	22	17	C0B711028
10	G3/8	62	63,5	6,6	26	22	21	C0B711038
10	G1/2	69,5	67	8	29,5	24	24	C0B711048
12	G1/4	61	66	6,5	25,5	21	17	C0B711228
12	G3/8	62	70	6,5	26	21	21	C0B711238
12	G 1/2	69,5	74,5	8	29,5	24	24	C0B711248

**Branch adaptor
C0N70**





**Branch adaptor
C0A70**



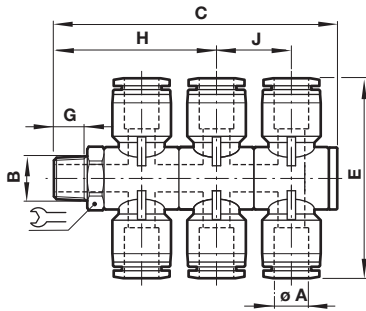
Dimensions in mm
Projection/First angle



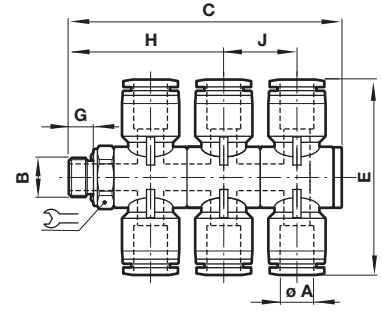
Ø A	B	C	E	G	H	L		Model
6	R1/8	25	23	8	14,5	12,5	11	C0N700618
8	R1/4	29	28,5	10	18,5	15	15	C0N700828
10	R1/4	29	31	10	19,5	17,5	15	C0N701028
10	R3/8	32,5	31	11	20,5	17,5	19	C0N701038
12	R3/8	32,5	36	11	22	20,5	19	C0N701238
12	R1/2	39,5	36,5	14	25,5	20,5	24	C0N701248


Ø A	B	C	E	G	H	L		Model
4	M5	18	19,5	3,6	10	10,5	8	C0A700405
6	G1/8	23,5	23	4,5	14	12,5	8	C0A700618
8	G1/4	28	28,5	6	17,5	15	12	C0A700828
10	G1/4	28	31	6	19	17,5	12	C0A701028
10	G3/8	32,5	31	6	21	17,5	14	C0A701038
12	G3/8	32,5	36	6	22,5	20,5	14	C0A701238
12	G1/2	34	36,5	7,5	23	20,5	17	C0A701248


**Triple universal tee
C0H71**



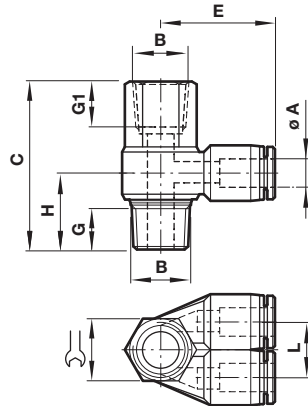
**Triple universal tee
C0C71**



Ø A	B	C	E	G	H	J		Model
4	R1/8	70	47	8	22,5	18	14	C0H710418
4	R1/4	85	50,5	10	27,5	22	17	C0H710428
4	R3/8	87	54,5	11	29	22	21	C0H710438
4	R1/2	97,5	58,5	14	34	24	24	C0H710448
6	R1/8	70	48,5	8	22,5	18	14	C0H710618
6	R1/4	85	52	10	27,5	22	17	C0H710628
6	R3/8	87	56	11	29	22	21	C0H710638
6	R1/2	97,5	58,5	14	34	24	24	C0H710648
8	R1/8	70	52	8	22,5	18	14	C0H710818
8	R1/4	85	55,5	10	27,5	22	17	C0H710828
8	R3/8	87	59,5	11	29	22	21	C0H710838
8	R1/2	97,5	62,5	14	34	24	24	C0H710848
10	R1/8	70	56	8	22,5	18	14	C0H711018
10	R1/4	85	59,5	10	27,5	22	17	C0H711028
10	R3/8	87	63,5	11	29	22	21	C0H711038
10	R1/2	97,5	67	14	34	24	24	C0H711048
12	R1/4	85	66	10	27,5	21	17	C0H711228
12	R3/8	87	70	11	29	21	21	C0H711238
12	R1/2	97,5	74,5	14	34	24	24	C0H711248

Ø A	B	C	E	G	H	J		Model
4	G1/8	68	47	5	20,5	18	14	C0C710418
4	G1/4	83	50,5	6,5	25,5	22	17	C0C710428
4	G3/8	84	54,5	6,5	26	22	21	C0C710438
4	G1/2	93	58,5	8	29,5	24	24	C0C710448
6	G1/8	68	48,5	5	20,5	18	14	C0C710618
6	G1/4	83	52	6,5	25,5	22	17	C0C710628
6	G3/8	84	56	6,5	26	22	21	C0C710638
6	G1/2	93	58,5	8	29,5	24	24	C0C710648
8	G1/8	68	52	5	20,5	18	14	C0C710818
8	G1/4	83	55,5	6,5	25,5	22	17	C0C710828
8	G3/8	84	59,5	6,5	26	22	21	C0C710838
8	G1/2	93	62,5	8	29,5	24	24	C0C710848
10	G1/8	68	56	5	20,5	18	14	C0C711018
10	G1/4	83	59,5	6,5	25,5	22	17	C0C711028
10	G3/8	84	63,5	6,6	26	22	21	C0C711038
10	G1/2	93	67	8	29,5	24	24	C0C711048
12	G1/4	83	66	6,5	25,5	21	17	C0C711228
12	G3/8	84	70	6,5	26	21	21	C0C711238
12	G1/2	93	74,5	8	29,5	24	24	C0C711248

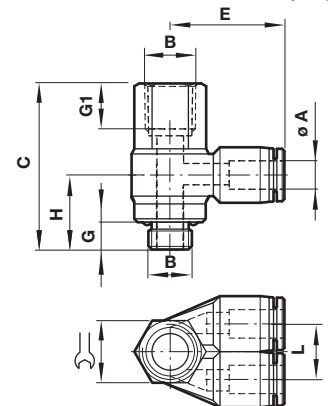
**Branch adaptor (female)
C0*7J**



Ø A	B	C	E	G / G1	H	L	⌀	Model
6	R1/8	30	23	8	14,5	12,5	14	COE7J0618
8	R1/4	35,5	28,5	10	18,5	15	17	COF7J0828
10	R1/4	35,5	31	10	19,5	17,5	17	COF7J1028
10	R3/8	41	31	11	20,5	17,5	21	COG7J1038
12	R3/8	41	36	11	22	20,5	21	COG7J1238
12	R1/2	50	36,5	14	25,5	20,5	24	COH7J1248

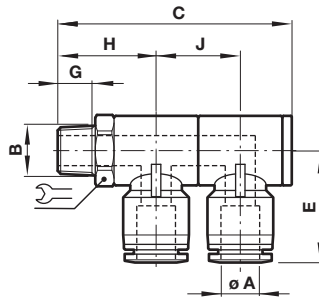
**Branch adaptor (female)
C0*7K**

Dimensions in mm
Projection/First angle



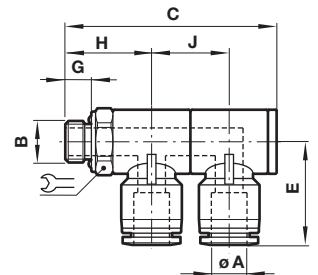
Ø A	B	C	E	G / G1	H	L	⌀	Model
4	M5	20	19,5	3,5 / 7	10	10,5	8	COD7K0405
6	G1/8	30	23	8	14	12,5	14	COE7K0618
8	G1/4	35,5	27	10	17,5	14,5	17	COF7K0828
10	G1/4	35,5	28	10	17,5	17,5	17	COF7K1028
10	G3/8	41	30	11	17,5	17,5	21	COG7K1038
12	G3/8	41	33	11	17,5	20,5	21	COG7K1238
12	G1/2	50	35	14	20	20,5	24	COH7K1248

**Double branch adaptor
C0Q70**



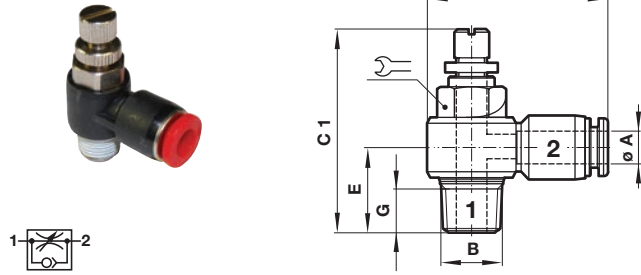
Ø A	B	C	E	G	H	J	⌀	Model
4	R1/8	52	24	8	22,5	18	14	C0Q700418
4	R1/4	63	26	10	27,5	22	17	C0Q700428
4	R3/8	65	28	11	29	22	21	C0Q700438
4	R1/2	74	30,5	14	34	24	24	C0Q700448
6	R1/8	52	25	8	22,5	18	14	C0Q700618
6	R1/4	63	27	10	27,5	22	17	C0Q700628
6	R3/8	65	28,5	11	29	22	21	C0Q700638
6	R1/2	74	31	14	34	24	24	C0Q700648
8	R1/8	52	27	8	22,5	18	14	C0Q700818
8	R1/4	63	30,5	10	27,5	22	17	C0Q700828
8	R3/8	65	30,5	11	29	22	21	C0Q700838
8	R1/2	74	32,5	14	34	24	24	C0Q700848
10	R1/8	52	28,5	8	22,5	18	14	C0Q701018
10	R1/4	63	30,5	10	27,5	22	17	C0Q701028
10	R3/8	65	32,5	11	29	22	21	C0Q701038
10	R1/2	74	35	14	34	24	24	C0Q701048
12	R1/4	63	34	10	27,5	22	17	C0Q701228
12	R3/8	65	35	11	29	22	21	C0Q701238
12	R1/2	74	39	14	34	24	24	C0Q701248


**Double branch adaptor
C0B70**



Ø A	B	C	E	G	H	J	⌀	Model
4	G1/8	50	24	5	20,5	18	14	C0B700418
4	G1/4	61	26	6,5	25,5	22	17	C0B700428
4	G3/8	62	28	6,5	26	22	21	C0B700438
4	G1/2	69,5	30,5	8	29,5	24	24	C0B700448
6	G1/8	50	25	5	20,5	18	14	C0B700618
6	G1/4	61	27	6,5	25,5	22	17	C0B700628
6	G3/8	62	28,5	6,5	26	22	21	C0B700638
6	G1/2	69,5	31	8	29,5	24	24	C0B700648
8	G1/8	50	27	5	20,5	18	14	C0B700818
8	G1/4	61	30,5	6,5	25,5	22	17	C0B700828
8	G3/8	62	30,5	6,5	26	22	21	C0B700838
8	G1/2	69,5	32,5	8	29,5	24	24	C0B700848
10	G1/8	50	28,5	5	20,5	18	14	C0B701018
10	G1/4	61	30,5	6,5	25,5	22	17	C0B701028
10	G3/8	62	32,5	6,5	26	22	21	C0B701038
10	G1/2	69,5	35	8	29,5	24	24	C0B701048
12	G1/4	61	34	6,5	25,5	22	17	C0B701228
12	G3/8	62	35	6,5	26	22	21	C0B701238
12	G1/2	69,5	39	8	29,5	24	24	C0B701248

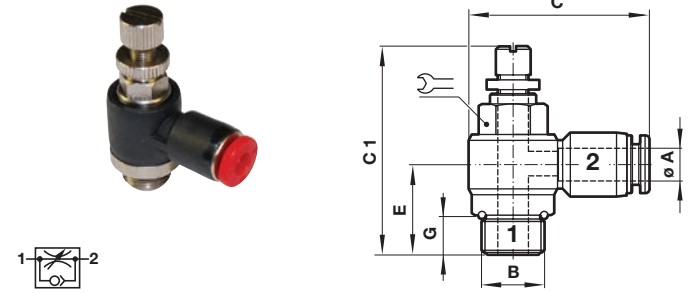
**Banjo flow control (out)
C0TA0**




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

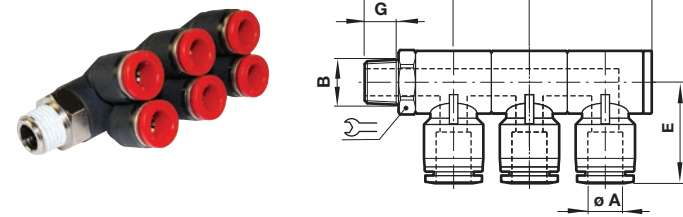
**Banjo flow control (out)
C0K51**


Dimensions in mm
Projection/First angle



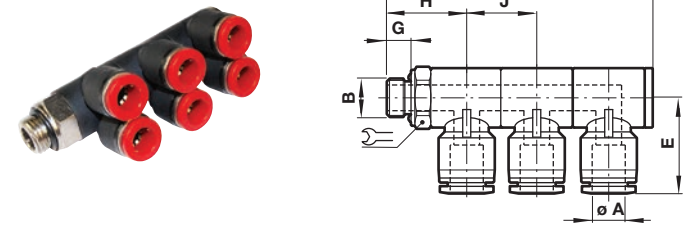
Ø A	B	C	> C1	< C1	E	G		Model
3	M5	21,5	27	30	9,5	3,5	8	C0K510305
4	M5	25	27	30	10	3,5	8	C0K510405
4	G1/8	30,5	35	40	15	6	8	C0K510418
4	G1/4	34,5	40	45,5	17	8	12	C0K510428
6	M5	28	27	30	11	3,5	8	C0K510605
6	G1/8	31	35	40	15	6	8	C0K510618
6	G1/4	35	40	45,5	17	8	12	C0K510628
6	G3/8	38,5	46,5	55	21	8	14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


**Triple branch adaptor
C0H70**



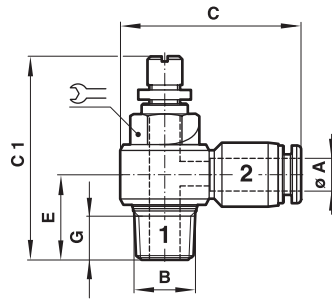
Ø A	B	C	E	G	H	J		Model
4	R1/8	52	24	8	22,5	18	14	C0H700418
4	R1/4	63	26	10	27,5	22	17	C0H700428
4	R3/8	65	28	11	29	22	21	C0H700438
4	R1/2	74	30,5	14	34	24	24	C0H700448
6	R1/8	52	25	8	22,5	18	14	C0H700618
6	R1/4	63	27	10	27,5	22	17	C0H700628
6	R3/8	65	28,5	11	29	22	21	C0H700638
6	R1/2	74	31	14	34	24	24	C0H700648
8	R1/8	52	27	8	22,5	18	14	C0H700818
8	R1/4	63	30,5	10	27,5	22	17	C0H700828
8	R3/8	65	30,5	11	29	22	21	C0H700838
8	R1/2	74	32,5	14	34	24	24	C0H700848
10	R1/8	52	28,5	8	22,5	18	14	C0H701018
10	R1/4	63	30,5	10	27,5	22	17	C0H701028
10	R3/8	65	32,5	11	29	22	21	C0H701038
10	R1/2	74	35	14	34	24	24	C0H701048
12	R1/4	63	34	10	27,5	22	17	C0H701228
12	R3/8	65	35	11	29	22	21	C0H701238
12	R1/2	74	39	14	34	24	24	C0H701248

**Triple branch adaptor
C0C70**



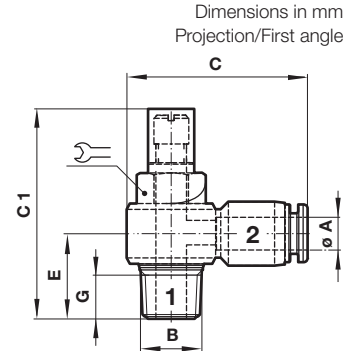
Ø A	B	C	E	G	H	J		Model
4	G1/8	68	24	5	20,5	18	14	C0C700418
4	G1/4	83	26	6,5	25,5	22	17	C0C700428
4	G3/8	84	28	6,5	26	22	21	C0C700438
4	G1/2	93	30,5	8	29,5	24	24	C0C700448
6	G1/8	68	25	5	20,5	18	14	C0C700618
6	G1/4	83	27	6,5	25,5	22	17	C0C700628
6	G3/8	84	28,5	6,5	26	22	21	C0C700638
6	G1/2	93	31	8	29,5	24	24	C0C700648
8	G1/8	68	27	5	20,5	18	14	C0C700818
8	G1/4	83	30,5	6,5	25,5	22	17	C0C700828
8	G3/8	84	30,5	6,5	26	22	21	C0C700838
8	G1/2	93	32,5	8	29,5	24	24	C0C700848
10	G1/8	68	28,5	5	20,5	18	14	C0C701018
10	G1/4	83	30,5	6,5	25,5	22	17	C0C701028
10	G3/8	84	32,5	6,5	26	22	21	C0C701038
10	G1/2	93	35	8	29,5	24	24	C0C701048
12	G1/4	83	34	6,5	25,5	22	17	C0C701228
12	G3/8	84	35	6,5	26	22	21	C0C701238
12	G1/2	93	39	8	29,5	24	24	C0C701248

Banjo flow control (in)
C0SA0



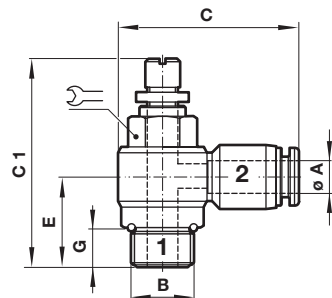
Ø A	B	C	C1 min.	C1 max.	E	G		Model
4	R1/8	30,5	35	40	14,5	8	11	COSA00418
4	R1/4	34,5	40	45,5	18	10	15	COSA00428
6	R1/8	31	35	40	14,5	8	11	COSA00618
6	R1/4	35	40	45,5	18	10	15	COSA00628
6	R3/8	39	46,5	55	21	11	19	COSA00638
8	R1/8	33	35	40	15,5	8	11	COSA00818
8	R1/4	37	40	45,5	19	10	15	COSA00828
8	R3/8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

Shrouded banjo (out)
C0TB0



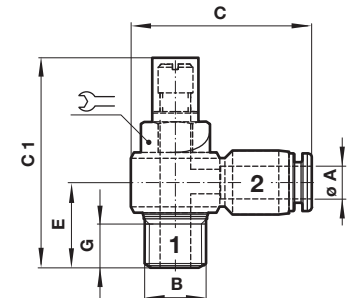
Ø A	B	C	C1	E	G		Model
4	R1/8	30,5	31,5	15	8	11	COTB00418
4	R1/4	34,5	37	18,5	10	15	COTB00428
6	R1/8	31	31,5	15	8	11	COTB00618
6	R1/4	35	37	18,5	10	15	COTB00628
6	R3/8	38,5	43,5	22	11	19	COTB00638
8	R1/8	33	31,5	16,5	8	11	COTB00818
8	R1/4	37	37	19,5	10	15	COTB00828
8	R3/8	40	43,5	22	11	19	COTB00838
8	R1/2	46	50	26,5	14	24	COTB00848
10	R1/4	39	37	21	10	15	COTB01028
10	R3/8	42	43,5	23,5	11	19	COTB01038
10	R1/2	47,5	50	26,5	14	24	COTB01048
12	R1/4	41	37	22,5	10	15	COTB01228
12	R3/8	46	43,5	24	11	19	COTB01238
12	R1/2	50	50	28	14	24	COTB01248

Banjo flow control (in)
COL51



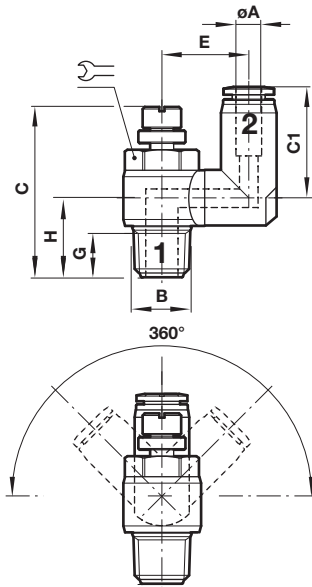
Ø A	B	C	> C1	< C1	E	G		Model
3	M5	21,5	27	30	9,5	3,5	8	COL510305
4	M5	25	27	30	10	3,5	8	COL510405
4	G1/8	30,5	35	40	15	6	8	COL510418
4	G1/4	34,5	40	45,5	17	8	12	COL510428
6	M5	28	27	30	11	3,5	8	COL510605
6	G1/8	31	35	40	15	6	8	COL510618
6	G1/4	35	40	45,5	17	8	12	COL510628
6	G3/8	39	46,5	55	21	8	14	COL510638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

Shrouded banjo (out)
C0KB0



Ø A	B	C	C1	E	G		Model
4	M5	25	23	10,5	3,5	8	COKB00405
4	G1/8	30,5	31,5	15	6	8	COKB00418
4	G1/4	34,5	37	17,5	8	12	COKB00428
6	M5	28	23	11,5	3,5	8	COKB00605
6	G1/8	31	31,5	15	6	8	COKB00618
6	G1/4	35	37	17,5	8	12	COKB00628
6	G3/8	38,5	43,5	21	8	14	COKB00638
8	G1/8	33	31,5	14	6	8	COKB00818
8	G1/4	37	37	17	8	12	COKB00828
8	G3/8	40	43,5	21	8	14	COKB00838
8	G1/2	46	50	23	9	17	COKB00848
10	G1/4	39	37	19	8	12	COKB01028
10	G3/8	42	43,5	20	8	14	COKB01038
10	G1/2	47,5	50	23	9	17	COKB01048
12	G1/4	41	37	20,5	8	12	COKB01228
12	G3/8	46	43,5	19	8	14	COKB01238
12	G1/2	50	50	21,5	9	17	COKB01248

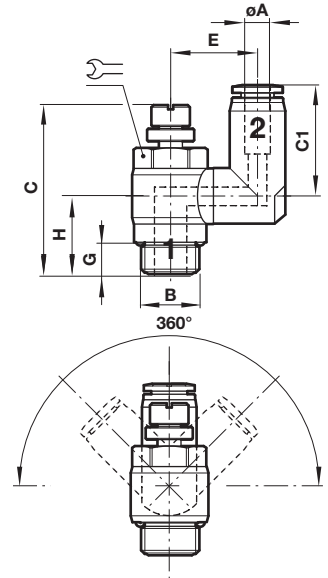
Swivel speed control (out)
C0T56




Swivel speed control (out)
C0K56




Dimensions in mm
Projection/First angle



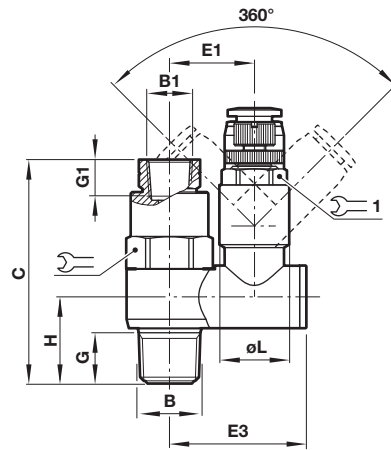
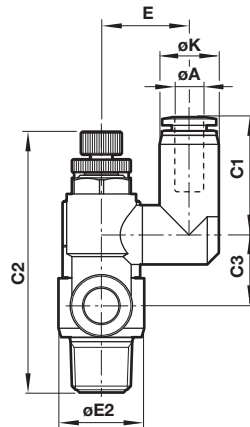
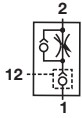
Ø A	B	C*1)	C1	E	G	H		Model
4	R1/8	35/40	20,5	14,5	8	15	11	C0T560418
4	R1/4	40/45,5	20,5	18	10	18,5	15	C0T560428
6	R1/8	35/40	24	15,5	8	15	11	C0T560618
6	R1/4	40/45,5	26	20,5	10	18,5	15	C0T560628
6	R3/8	47/55	26	23,5	11	21,5	19	C0T560638
8	R1/8	35/40	25,5	16	8	15,5	11	C0T560818
8	R1/4	40/45,5	29	19,5	10	18,5	15	C0T560828
8	R3/8	47/55	30	24,5	11	22	19	C0T560838
8	R1/2	53/60	30	26,5	14	26	24	C0T560848
10	R1/4	40/45,5	31	20,5	10	18,5	15	C0T561028
10	R3/8	47/55	32	24,5	11	22	19	C0T561038
10	R1/2	53/60	33	26,5	14	26,5	24	C0T561048
12	R1/4	40/45,5	33,5	22	10	18,5	15	C0T561228
12	R3/8	47/55	34,5	24,5	11	22	19	C0T561238
12	R1/2	53/60	36	26,5	14	26,5	24	C0T561248

* min/max

Ø A	B	C*1)	C1	E	G	H		Model
4	M5	27/30	20,5	12,5	3,6	9,5	8	C0K560405
4	G1/8	35/40	20,5	14,5	8	15,5	8	C0K560418
4	G1/4	40/45,5	20,5	18	12	17,5	12	C0K560428
6	M5	27/30	22,5	13,5	3,6	9,5	8	C0K560605
6	G1/8	35/40	24	15,5	8	15,5	8	C0K560618
6	G1/4	40/45,5	26	20,5	12	17,5	12	C0K560628
6	G3/8	47/55	26	23,5	14	21,5	14	C0K560638
8	G1/8	35/40	25,5	16	8	14,5	8	C0K560818
8	G1/4	40/45,5	29	19,5	12	17,5	12	C0K560828
8	G3/8	47/55	30	24,5	14	21	14	C0K560838
8	G1/2	53/60	30	26,5	17	23	17	C0K560848
10	G1/4	40/45,5	31	20,5	12	17,5	12	C0K561028
10	G3/8	47/55	32	24,5	14	21	14	C0K561038
10	G1/2	53/60	33	26,5	17	23	17	C0K561048
12	G1/4	40/45,5	33,5	22	12	17,5	12	C0K561228
12	G3/8	47/55	34,5	24,5	14	21	14	C0K561238
12	G1/2	53/60	36	26,5	17	23	17	C0K561248

* min/max

Speed control and pilot check C01GN



Dimensions in mm
Projection/First angle

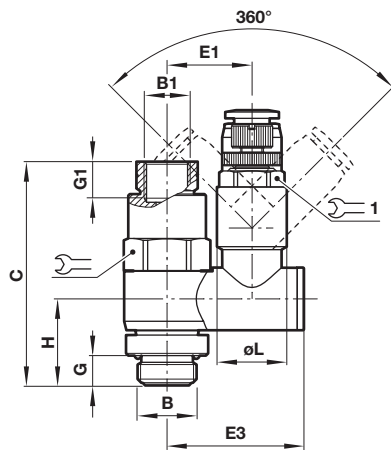
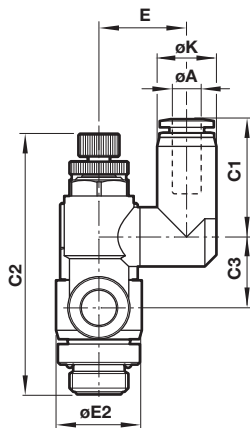
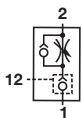


Note:
Pilot check is not suitable for extreme high cycling applications.

Ø A	B	B1	C	C1	C2*1)	C3	E	E1	Ø E2	E3	G	G1	H	Ø K	Ø L			Model
6	R1/8	M5	41	24	50,6/55,4	12,9	14,2	14,3	15	24,2	16	8,5	16	12,5	12	12	10	C01GN0618
6	R1/4	R1/8	49,1	25,9	57,1/61,9	15,6	19,3	18,7	18,8	30,1	11	10	19	13	15,3	17	13	C01GN0628
8	R1/8	M5	41	24,9	50,6/55,4	12,6	15,4	14,3	15	24,2	8,5	8,5	16	14,8	12	12	10	C01GN0818
8	R1/4	R1/8	49,1	28,3	57,1/61,9	15,9	18,3	18,7	18,8	30,1	11	10	19	14,8	15,3	17	13	C01GN0828
8	R3/8	R1/8	56,9	29,3	67,2/72,2	19,1	23,3	22,8	23	37,1	12	10	22,5	15	20,2	19	17	C01GN0838
10	R3/8	R1/8	56,9	31,7	67,2/72,2	19,1	23,3	22,8	23	37,1	12	10	22,5	17,5	20,2	19	17	C01GN1038
10	R1/2	R1/4	70,8	33,1	81,3/87	25,6	26,3	29,1	28,7	47,4	15	13,5	28	17,5	27,2	24	23	C01GN1048
12	R3/8	R1/8	56,9	34,4	67,2/72,2	19,1	23,3	22,8	23	37,1	12	10	22,5	20,5	20,2	19	17	C01GN1238
12	R1/2	R1/4	70,8	35,8	81,3/87	25,6	26,3	29,1	28,7	47,4	15	13,5	28	20,5	27,2	24	23	C01GN1248

*1) min./max. control flow see page 5

Speed control and pilot check C02GN



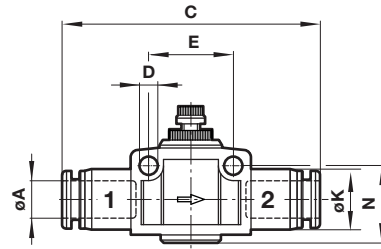
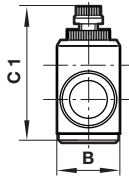
Note:
Pilot check is not suitable for extreme high cycling applications.

Ø A	B	B1	C	C1	C2*1)	C3	E	E1	Ø E2	E3	G	G1	H	Ø K	Ø L			Model
6	G1/8	M5	41	24	50,6/55,4	12,9	14,2	14,3	15	24,2	5	8,5	16	12,5	12	12	10	C02GN0618
6	G1/4	G1/8	49,1	25,9	57,1/61,9	15,6	19,3	18,7	18,8	30,1	6,5	9,5	19	13	15,3	17	13	C02GN0628
8	G1/8	M5	41	24,9	50,6/55,4	12,6	15,4	14,3	15	24,2	5	8,5	16	14,8	12	12	10	C02GN0818
8	G1/4	G1/8	49,1	28,3	57,1/61,9	15,9	18,3	18,7	18,8	30,1	6,5	9,5	19	14,8	15,3	17	13	C02GN0828
8	G3/8	G1/8	56,9	29,3	67,2/72,2	19,1	23,3	22,8	23	37,1	7	9,5	22,5	15	20,2	19	17	C02GN0838
10	G3/8	G1/8	56,9	31,7	67,2/72,2	19,1	23,3	22,8	23	37,1	7	9,5	22,5	17,5	20,2	19	17	C02GN1038
10	G1/2	G1/4	70,8	33,1	81,3/78,5	25,6	26,3	29,1	28,7	47,4	8,5	13	28	17,5	27,2	24	23	C02GN1048
12	G3/8	G1/8	56,9	34,4	67,2/72,2	19,1	23,3	22,8	23	37,1	7	9,5	22,5	20,5	20,2	19	17	C02GN1238
12	G1/2	G1/4	70,8	35,8	81,3/78,5	25,6	26,3	29,1	28,7	47,4	8,5	13	28	20,5	27,2	24	23	C02GN1248

*1) min./max. control flow see page 5

**In-line flow control
 C00GE**

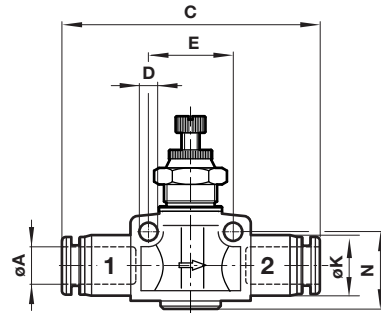
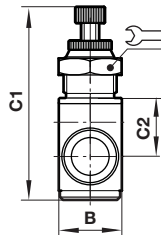
Dimensions in mm
 Projection/First angle




Ø A	B	C	> C1	< C1	D	E	Ø K	N	Model
4	12	45	30	33	3,3	15	11	13,5	C00GE0400
6	16	50	35	39,5	4,4	20,5	13	17,5	C00GE0600
8	19	55,5	37,5	42	4,4	23	15	20	C00GE0800
10	23	61	44	49	4,4	28	17,5	23	C00GE1000
12	26,5	70	47,5	53,5	4,4	32	20,5	25,5	C00GE1200

Control flow see page 4

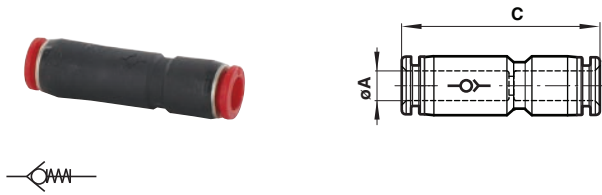
**In-line and panel mounting flow control
 C00GP**



Ø A	B	C	> C1	< C1	C2	D	E	Ø K	N		Panel hole	Panel thickness	Model
4	12	42	35,5	38	5,5	3,2	15,5	11	13,5	12	11	5	C00GP0400
6	16	49,5	43	48,5	8	4,3	20,5	13	17,5	17	15	6	C00GP0600
8	19	56,5	47,5	53	8,5	4,3	23	15	20	19	17	6	C00GP0800
10	23	63	53,5	61,5	10,5	4,3	27,5	17,5	23	22	17	7	C00GP1000
12	26,5	73,5	57,5	64,5	12	4,4	32,5	20,5	25,5	24	21	7	C00GP1200

Control flow see page 4

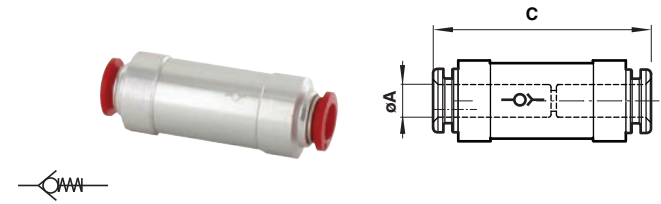
**In-line non-return valve (PBT)
C00GL**



Ø A	C	Model
4	42	C00GL0400
6	47,5	C00GL0600
8	55,5	C00GL0800

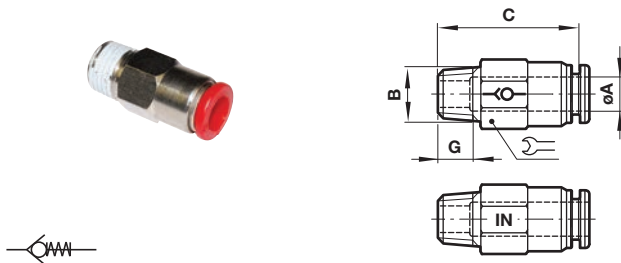
**In-line non-return valve (Aluminium)
C00GL**

Dimensions in mm
Projection/First angle



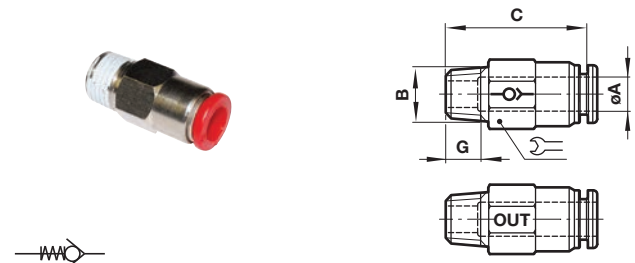
Ø A	C	Model
10	65	C00GL1000
12	73	C00GL1200

**In-line non-return valve (in), taper thread
C01G2**



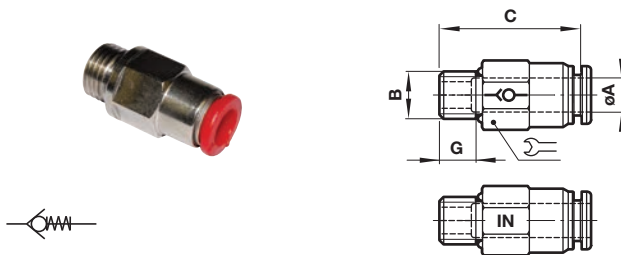
Ø A	B	C	G	Symbol	Model
4	R1/8	27,5	8	10	C01G20418
6	R1/8	32,5	8	12	C01G20618
8	R1/4	37,5	10	14	C01G20828

**In-line non-return valve (out), taper thread
C01G3**



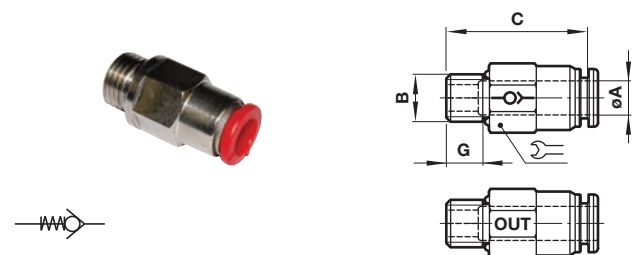
Ø A	B	C	G	Symbol	Weight (g)	Model
4	R1/8	27,5	8	10	11	C01G30418
6	R1/8	32,5	8	12	16	C01G30618
8	R1/4	37,5	10	14	24	C01G30828

**In-line non-return valve (in), ISO G thread
C02G2**



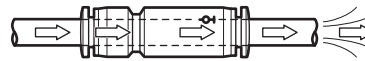
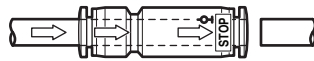
Ø A	B	C	G	Symbol	Model
4	M5	31,5	3,5	10	C02G20405
4	G1/8	27,5	6	10	C02G20418
6	G1/8	32,5	6	12	C02G20618
8	G1/4	37	7	15	C02G20828
10	G3/8	54	8	22	C02G21038
12	G1/2	60,5	9	24	C02G21248

**In-line non-return valve (out), ISO G thread
C02G3**



Ø A	B	C	G	Symbol	Model
4	M5	31,5	3,5	10	C02G30405
4	G1/8	27,5	6	10	C02G30418
6	G1/8	32,5	6	12	C02G30618
8	G1/4	37	7	15	C02G30828
10	G3/8	54	8	22	C02G31038
12	G1/2	60,5	9	24	C02G31248

Self sealing fittings

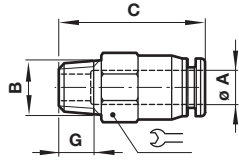


Dimensions in mm
Projection/First angle

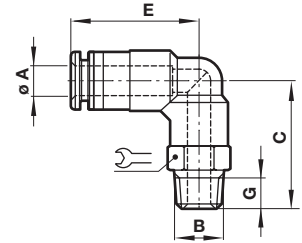


No air flow when tubing is removed - air flow is restored when tubing is inserted


Straight adaptor
C0124



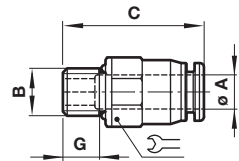
Swivel elbow
C014J



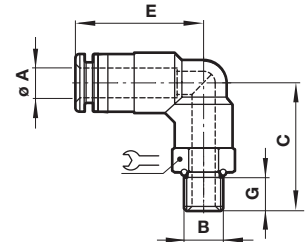
Ø A	B	C	G		Model
4	R1/8	26	8	10	C01240418
6	R1/8	29	8	12	C01240618
6	R1/4	29	10	14	C01240628
8	R1/4	33,5	10	14	C01240828
8	R3/8	33,5	11	17	C01240838
10	R1/4	35,5	10	17	C01241028
10	R3/8	35,5	11	17	C01241038
10	R1/2	35,5	14	21	C01241048
12	R1/4	42	10	19	C01241228
12	R3/8	42	11	19	C01241238
12	R1/2	42	14	21	C01241248


Ø A	B	C	E	G		Model
4	R1/8	27	27,5	5	10	C014J0418
6	R1/8	30	32	5	12	C014J0618
6	R1/4	32	30,5	6,5	14	C014J0628
8	R1/8	34,5	41,5	6,5	14	C014J0818
8	R1/4	34	40	6,5	17	C014J0828
10	R1/4	32	26,5	6,5	17	C014J1028
10	R3/8	36	45	6,5	17	C014J1038
10	R1/2	37,5	43	8	21	C014J1048
12	R3/8	40	53,5	6,5	19	C014J1238
12	R1/2	41,5	51,5	8	21	C014J1248


Straight adaptor
C0224



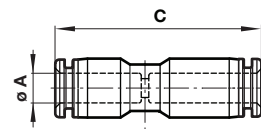
Swivel elbow
C024J



Ø A	B	C	G		Model
4	G1/8	25,5	5	12	C02240418
6	G1/8	28	5	12	C02240618
6	G1/4	27	6,5	15	C02240628
8	G1/4	32	6,5	15	C02240828
8	G3/8	32	6,5	17	C02240838
10	G1/4	35	6,5	17	C02241028
10	G3/8	36,5	6,5	17	C02241038
10	G1/2	37,5	8	21	C02241048
12	G1/4	43,5	6,5	19	C02241228
12	G3/8	43,5	6,5	21	C02241238
12	G1/2	44	8	21	C02241248

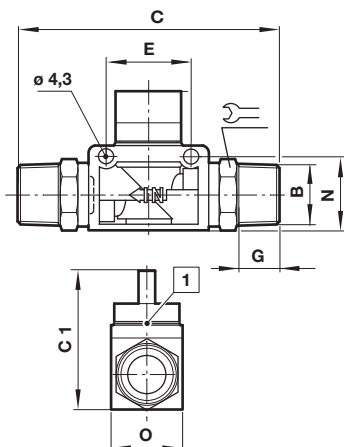
Ø A	B	C	E	G		Model
4	M5	20,5	29,5	4	10	C024J0405
4	G1/8	27	27,5	5	14	C024J0418
6	M5	22,5	33	4	12	C024J0605
6	G1/8	30	32	5	14	C024J0618
6	G1/4	32	30,5	6,5	14	C024J0628
8	G1/4	34,5	41,5	6,5	17	C024J0828
8	G3/8	34	40	6,5	20	C024J0838
10	G1/4	32	26,5	6,5	17	C024J1028
10	G3/8	36	45	6,5	20	C024J1038
10	G1/2	37,5	43	8	24	C024J1048
12	G3/8	40	53,5	6,5	20	C024J1238
12	G1/2	41,5	51,5	8	24	C024J1248

Straight union
C002J



Ø A	C	Model
4	42	C002J0400
6	46	C002J0600
8	53,5	C002J0800
10	58	C002J1000
12	67	C002J1200

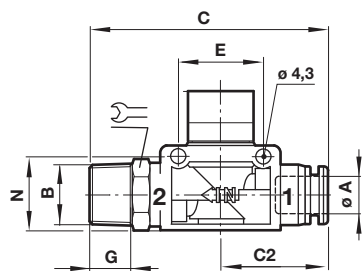
3/2 Shut-off valves C01GG



1 Exhaust bore hole

B	C	C1	E	G	N	O	↺	Model
R1/8	71	40,5	19	8	18,5	18	14	C01GG1818
R1/4	77	40,5	19	10	18,5	18	14	C01GG2828
R3/8	81	41	24	11	21,5	21	17	C01GG3838
R1/2	90	41	24	14	21,5	21	21	C01GG4848

3/2 Shut-off valves C01GH



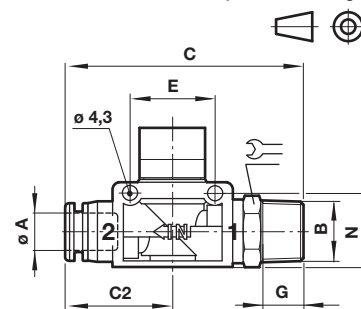
ØA	B	C	C1 *	C2	E	G	N	O *	↺	Model
6	R1/8	62	40,5	26	19	8	18,5	18	14	C01GH0618
6	R1/4	65	40,5	26	19	10	18,5	18	14	C01GH0628
6	R3/8	66	40,5	26	19	11	18,5	21	17	C01GH0638
8	R1/8	63	40,5	27,5	19	8	18,5	18	14	C01GH0818
8	R1/4	66	40,5	27,5	19	10	18,5	18	14	C01GH0828
8	R3/8	67	40,5	27,5	19	11	18,5	21	17	C01GH0838
10	R1/4	67	41	31	24	10	21,5	18	17	C01GH1028
10	R3/8	71,5	41	31	24	11	21,5	21	17	C01GH1038
10	R1/2	74,5	41	31	24	14	21,5	21	21	C01GH1048
12	R1/4	75,5	41	34	24	10	21,5	18	19	C01GH1228
12	R3/8	76,5	41	34	24	11	21,5	21	19	C01GH1238
12	R1/2	79,5	41	34	24	14	21,5	21	21	C01GH1248

* see drawing C01GG series

3/2 Shut-off valves C01GJ



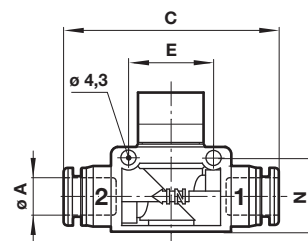
Dimensions in mm
Projection/First angle



ØA	B	C	C1 *	C2	E	G	N	O *	↺	Model
6	R1/8	62	40,5	26	19	8	18,5	18	14	C01GJ0618
6	R1/4	65	40,5	26	19	10	18,5	18	14	C01GJ0628
6	R3/8	66	40,5	26	19	11	18,5	21	17	C01GJ0638
8	R1/8	65	40,5	27,5	19	8	18,5	18	14	C01GJ0818
8	R1/4	66	40,5	27,5	19	10	18,5	18	14	C01GJ0828
8	R3/8	67	40,5	27,5	19	11	18,5	21	17	C01GJ0838
10	R1/4	70,5	41	31	24	10	21,5	18	17	C01GJ1028
10	R3/8	71,5	41	31	24	11	21,5	21	17	C01GJ1038
10	R1/2	74,5	41	31	24	14	21,5	21	21	C01GJ1048
12	R1/4	75,5	41	34	24	10	21,5	18	19	C01GJ1228
12	R3/8	76,5	41	34	24	11	21,5	21	19	C01GJ1238
12	R1/2	79,5	41	34	24	14	21,5	21	21	C01GJ1248

* see drawing C01GG series

3/2 Shut-off valves C01GF



ØA	C	C1 *	E	N	O *	Model
6	52,5	40,5	19	18,5	18	C00GF0600
8	53	40,5	19	18,5	18	C00GF0800
10	62	41	24	21,5	21	C00GF1000
12	68,5	41	24	21,5	21	C00GF1200

* see drawing C01GG series

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under

»Technical features/data«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI 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.

- > Port size: Ø 4 ... 14 mm O/D tube, BSP threads
- > 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
- > VMQ free 'O'-rings



Technical features

Medium:

Compressed air
(For other media please consult Technical Department)

Operating pressure:

Vacuum -18 bar (... 261 psi)
(Dependent upon operating specification of tubing)

Vacuum:

-750 mm of Hg i.e. 98%

Ambient/Media temperature:

-20°C ... +80°C (-4 ... 176 °F)
"Special" low temperature options contact Norgren Technical service
Tube sizes:
4, 5, 6, 8, 10, 12, 14 mm O/D

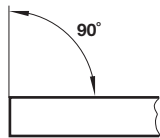
Tubing types:

PA 11 or 12, PUR 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

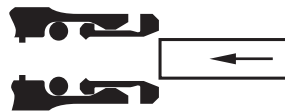
Materials:

Nickel plated brass body
Nickel plated brass for collet
VMQ free NBR 'O'-ring (FPM optional)
Plastic sealing washer (parallel threads)
Non - PTFE thread sealant (taper threads)

Method of assembly



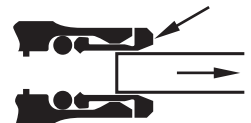
1. Ensure that the end of the tube is cut square and is free from burrs.



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

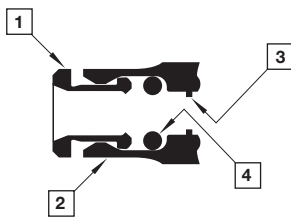


3. Continue pushing the tube through the 'O'-ring until it bottoms on the tube stop then pull back.



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

Components














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

Option selector













10 ★★★★★★



Straight adaptors and connectors

<p>Stem tailpiece adaptor (stem to hose bore) 10019</p>  <p>Page 3</p>	<p>Straight connector (tube to tube) 10020</p>  <p>Page 3</p>	<p>Straight stem connector 10022</p>  <p>Page 3</p>	<p>Reducing/expanding connector 10023</p>  <p>Page 3</p>	<p>Bulkhead connector (tube to tube) 10029</p>  <p>Page 4</p>	<p>Mixed bulkhead connector 10031</p>  <p>Page 4</p>	<p>Straight stem adaptor (BSP taper) 10115</p>  <p>Page 4</p>
<p>Straight stem adaptor (BSP parallel) 10215</p>  <p>Page 4</p>	<p>Straight adaptor (BSP taper) 10125</p>  <p>Page 5</p>	<p>Straight adaptor (BSP parallel) 10225</p>  <p>Page 5</p>	<p>Female straight adaptor (female parallel BSP) 10226</p>  <p>Page 5</p>			





Elbow adaptors, connectors and banjos

<p>Elbow connector 10040</p>  <p>Page 6</p>	<p>Stem elbow connector 10043</p>  <p>Page 6</p>	<p>Bulkhead swivel elbow connector 10049</p>  <p>Page 6</p>	<p>Elbow adaptor (BSP taper) 10145</p>  <p>Page 6</p>	<p>90° Swivel elbow adaptor (BSP taper) 10147</p>  <p>Page 7</p>	<p>90° Swivel elbow adaptor (BSP parallel) 10247</p>  <p>Page 7</p>	<p>Extended swivel elbow adaptor (BSP taper) 10154</p>  <p>Page 7</p>
<p>45° Swivel elbow adaptor (BSP parallel) 10257</p>  <p>Page 7</p>	<p>Elbow banjo assembly (non-Regulating BSP parallel) 10A51</p>  <p>Page 8</p>	<p>Elbow banjo assembly (regulating-out BSP parallel) 10K51</p>  <p>Page 8</p>	<p>Elbow banjo assembly (regulating-out BSPT taper) 10T00</p>  <p>Page 8</p>	<p>Elbow banjo assembly (regulating-out BSPT taper) 10TA0</p>  <p>Page 8</p>		

Tee adaptors, connectors and banjos, 'Y' adaptors and connectors, 4-way connectors, manifolds

<p>Tee connector (tube x 3) 10060</p>  <p>Page 9</p>	<p>Tee adaptor (BSP taper) 10165</p>  <p>Page 9</p>	<p>Swivel tee adaptor (BSP taper) 10167</p>  <p>Page 9</p>	<p>Swivel tee adaptor (BSP parallel) 10267</p>  <p>Page 9</p>	<p>Tee banjo assembly (non-regulating parallel thread) 10A71</p>  <p>Page 10</p>	<p>Fixed side tee adaptor (BSP taper) 10175</p>  <p>Page 10</p>	<p>Swivel tee adaptor (BSP taper) 10168</p>  <p>Page 10</p>
<p>Swivel tee adaptor (BSP parallel) 10268</p>  <p>Page 10</p>	<p>4-way connector (tube x 4) 10090</p>  <p>Page 11</p>	<p>Parallel Y-connector 10082</p>  <p>Page 11</p>	<p>Parallel Y-adaptor 10188</p>  <p>Page 11</p>	<p>Parallel Y-adaptor 10288</p>  <p>Page 11</p>	<p>Manifold 100D6</p>  <p>Page 12</p>	<p>Manifold 101D6</p>  <p>Page 12</p>

Banjo bodies and bolts

<p>Elbow banjo body 10051</p>  <p>Page 12</p>	<p>Tee banjo body 10071</p>  <p>Page 12</p>	<p>Banjo bolt (non-regulating single stacking) 20A00</p>  <p>Page 13</p>	<p>Banjo bolt (non-regulating double stacking BSP parallel) 20B00</p>  <p>Page 13</p>	<p>Banjo bolt (non-regulating triple stacking BSP parallel) 20C00</p>  <p>Page 13</p>	<p>Banjo bolt (non-regulating single stacking, top port BSP parallel) 20*00</p>  <p>Page 13</p>	<p>Banjo bolt (regulating single stacking) 20*00</p>  <p>Page 13</p>
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Accessories
Silencer (plug in)
10011

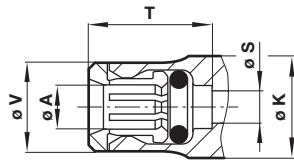

Page 14

Plug (acetal)
11004


Page 14

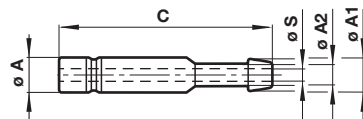
Technical data

Ø A O/D tube	Ø S*2)	Ø T*1)	V	Ø K
4	2,8	14	7,5	10
5	3,4	15	10	11
6	4,4	15,5	11	12
8	6	16,5	13	14
10	7,6	21	14,5	17
12	9,6	24,5	18	20,5
14	11,5	24,5	20	21

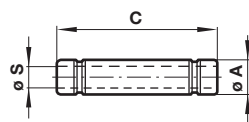


*1) Dimensions here and in the individual tables refer to the collet being in the 'IN' position.

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

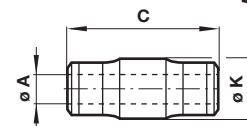
Stem tailpiece adaptor, stem to hose bore
10019


Ø A	Ø A1	Ø A2	C	Ø S	Model
4	4,5	3	34	1,8	100190403
4	6,5	5	34	2,1	100190405
5	6,5	5	35,5	2,8	100190505
6	6,5	5	36	2,8	100190605
6	8	6,5	36	4	100190606
8	8	6,5	37	4,3	100190806
8	9,5	8	38,5	5,5	100190808
10	8	6,5	41,5	4,3	100191006
10	9,5	8	43	5,5	100191008
10	12	10	44	7,3	100191010
12	9,5	8	46,5	5,5	100191208
12	12	10	46,5	7,3	100191210
12	15	12,5	47,5	9,7	100191212
14	15	12,5	47	9,7	100191412

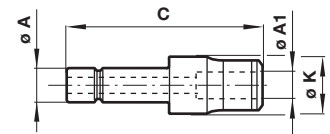
Straight stem connector
10022


Ø A	C	Ø S	Model
4	30	2,6	100220400
5	33	3,4	100220500
6	34	4	100220600
8	36	6	100220800
10	45	7,6	100221000
12	52	9,6	100221200
14	52	11,5	100221400

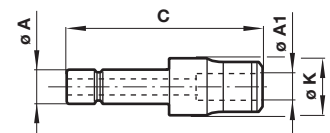
Straight connector, tube to tube
10020

 Dimensions in mm
 Projection/First angle


Ø A	C	Ø K	Model
4	30	10	100200400
5	32	11	100200500
6	33,5	12	100200600
8	35,5	14	100200800
10	44,5	17	100201000
12	51,5	20,5	100201200
14	52,5	21	100201400

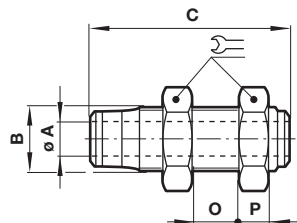
Reducing/expanding connector
10023


Ø A	Ø A1	C	Ø K	Model
5	4	33,5	10	100230504
6	4	34	10	100230604
6	5	35	11	100230605
8	4	31	10	100230804
8	5	33	11	100230805
8	6	36,5	12	100230806
10	4	31	12	100231004
10	5	36,5	12	100231005
10	6	37,5	12	100231006
10	8	38	14	100231008
12	4	35	14	100231204
12	5	35	14	100231205
12	6	35	14	100231206
12	8	42	14	100231208
12	10	50	17	100231210
14	6	36,5	16	100231406
14	8	37,5	16	100231408
14	10	46,5	17	100231410
14	12	53,5	20,5	100231412

Reducing/expanding connector
10023


Ø A	Ø A1	C	Ø K	Model
4	6	35	12	100230406
6	8	37,5	14	100230608

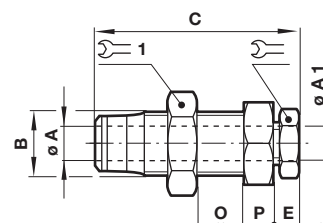
Bulkhead connector, tube to tube
10029



Ø A	B	C	O	P		Model
4	M10x1,0	30	12	9	14	100290400
5	M12x1,0	32	14	9	17	100290500
6	M14x1,5	35,5	15	10	19	100290600
8	M16x1,5	36,5	16	10	22	100290800
10	M20x1,5	43,5	14	11	27	100291000
12	M24x1,5	50,5	15	11	30	100291200
14	M24x1,5	50,5	15	11	30	100291400

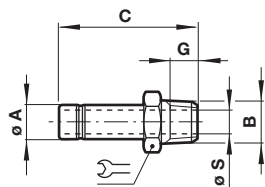
Mixed bulkhead connector
10031


Dimensions in mm
Projection/First angle



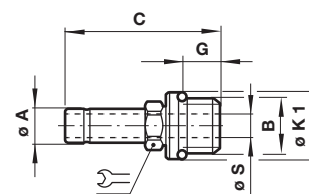
Ø A & Ø A1	B	C	E	O	P			Model
4	M12x1,0	27	6	9,5	9	8	17	100310404
6	M15x1,0	29,5	7	9,5	10	13	22	100310606
8	M18x1,5	33,5	8	11	10	13	24	100310808
10	M20x1,5	40	8	14,5	11	17	27	100311010
12	M24x1,5	44	9	17,5	11	19	30	100311212
14	M26x1,5	46	11,5	18,5	11	22	32	100311414


Straight stem adaptor, BSP taper
10115

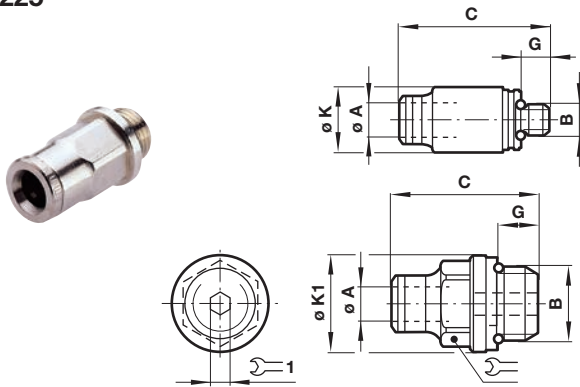


Ø A	B	C	G	Ø S		Model
4	R1/8	30	7,5	2,1	10	101150418
4	R1/4	33,5	11	2,1	14	101150428
5	R1/8	31	7,5	3,2	11	101150518
5	R1/4	35	11	3,2	14	101150528
6	R1/8	32	7,5	4,1	12	101150618
6	R1/4	35	11	4,1	14	101150628
8	R1/8	33	7,5	7,1	14	101150818
8	R1/4	36,5	11	5,1	14	101150828
8	R3/8	40	12,5	5,1	19	101150838
10	R1/4	40	11	7,7	15	101151028
10	R3/8	45	12,5	7,7	19	101151038
10	R1/2	48	16	8,1	22	101151048
12	R3/8	48	12,5	9,1	19	101151238
12	R1/2	51,5	16	9,1	22	101151248
14	R1/2	51,5	16	11,2	22	101151448

Straight stem adaptor, BSP parallel
10215

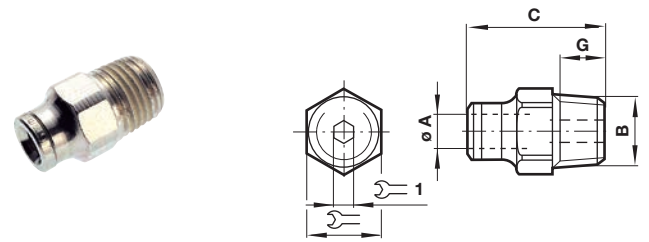


Ø A	B	C	G	Ø K1	Ø S		Model
4	G1/8	29	5	13,5	2,1	8	102150418
4	G1/4	33	7,5	17,5	2,1	10	102150428
5	G1/8	30,5	5	13,5	3,3	8	102150518
5	G1/4	34	7,5	17,5	3,3	10	102150528
6	G1/8	31	5	13,5	4	8	102150618
6	G1/4	34,5	7,5	17,5	4	10	102150628
8	G1/8	32,5	5	13,5	5	10	102150818
8	G1/4	35,5	7,5	17,5	6	10	102150828
8	G3/8	39	9	21,5	6	13	102150838
10	G1/4	41,5	7,5	17,5	6,5	13	102151028
10	G3/8	43,5	9	21,5	8	13	102151038
10	G1/2	49	12	25,5	8	17	102151048
12	G3/8	48,5	9	21,5	10	17	102151238
12	G1/2	52,5	12	25,5	10	17	102151248
14	G3/8	48,5	9	21,5	10	17	102151438
14	G1/2	52,5	12	25,5	11,5	17	102151448

**Straight adaptor, BSP parallel
10225**


Ø A	B	C	G	Ø K	Ø K1	1	1	Model
4	M3	21	2,5	9	-	-	1,5	102250403
4	M5	21,5	3,5	9	-	-	2,5	102250405
4	G1/8	19	5,5	-	14	10	3	102250418
4	G1/4	21	8	-	18	10	3	102250428
5	M5	23	3,5	10	-	-	2,5	102250505
5	G1/8	23,5	5,5	-	14	10	4	102250518
5	G1/4	22,5	8	-	18	12	4	102250528
6	M5	24	3,5	11	-	-	2,5	102250605
6	G1/8	25	5,5	-	14	11	4	102250618
6	G1/4	23,5	8	-	18	13	4	102250628
8	G1/8	26,5	5,5	-	14	13	5	102250818
8	G1/4	28	8	-	18	14	6	102250828
8	G3/8	24,5	9	-	12	17	6	102250838
8	G1/2	28,5	11	-	26	17	6	102250848
10	G1/8	32	5,5	-	14	17	5	102251018
10	G1/4	33,5	8	-	18	17	7	102251028
10	G3/8	32,5	9	-	22	19	8	102251038
10	G1/2	30,5	11	-	26	19	8	102251048
12	G1/4	36,5	8	-	18	22	7	102251228
12	G3/8	37,5	9	-	22	22	10	102251238
12	G1/2	34,5	11	-	26	22	10	102251248
14	G3/8	37,5	9	-	22	22	10	102251438
14	G1/2	38,5	11	-	26	22	10	102251448

**Straight adaptor, BSP taper
10125**

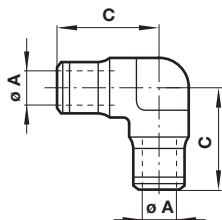
 Dimensions in mm
Projection/First angle


Ø A	B	C	G	1	1	Model
4	R1/8	20,5	10	10	3	101250418
4	R1/4	23	11	14	3	101250428
5	R1/8	22,5	7,5	10	4	101250518
5	R1/4	23	11	14	4	101250528
6	R1/8	23	7,5	11	4	101250618
6	R1/4	25	11	14	4	101250628
8	R1/8	26,5	7,5	13	5	101250818
8	R1/4	28	11	14	6	101250828
8	R3/8	27	12,5	17	6	101250838
8	R1/2	29	16	22	6	101250848
10	R1/8	31,5	7,5	17	5	101251018
10	R1/4	34	11	17	7	101251028
10	R3/8	34	12,5	17	8	101251038
10	R1/2	33,5	16	22	8	101251048
12	R1/4	39	11	22	7	101251228
12	R3/8	39	12,5	22	10	101251238
12	R1/2	40	16	22	10	101251248
14	R3/8	39,5	12,5	22	10	101251438
14	R1/2	40	16	22	10	101251448

**Female straight adaptor, female parallel BSP
10226**

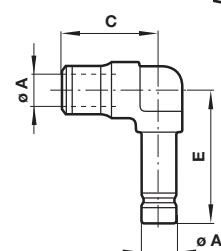

Ø A	B	C	G	1	Model
4	M5	22,5	5	10	102260405
4	G1/8	24,5	7,5	13	102260418
4	G1/4	29	5	17	102260428
5	M5	23,5	7,5	10	102260505
5	G1/8	25,5	7,5	13	102260518
5	G1/4	29,5	7,5	17	102260528
6	G1/8	26	11	13	102260618
6	G1/4	30,5	11	17	102260628
8	G1/8	27	11	13	102260818
8	G1/4	31,5	11	17	102260828
10	G1/4	36,5	11	17	102261028
10	G3/8	39	11,5	19	102261038
12	G3/8	41	11,5	19	102261238
12	G1/2	44,5	15	24	102261248

Elbow connector
10040



$\varnothing A$	C	Model
4	17	100400400
5	18,5	100400500
6	19,5	100400600
8	21,5	100400800
10	26,5	100401000
12	31,5	100401200
14	33	100401400

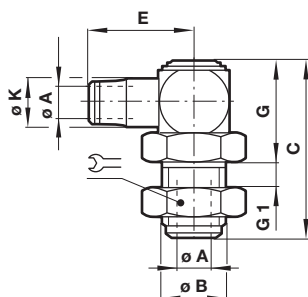
Stem elbow connector
10043



Dimensions in mm
Projection/First angle

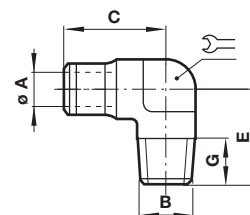
$\varnothing A$	$\varnothing A1$	C	E	Model
4	4	9,5	25	100430400
6	6	19	27,5	100430600
8	8	21	29,5	100430800
8	5	19,5	30	100430805

Bulkhead swivel elbow connector
10049

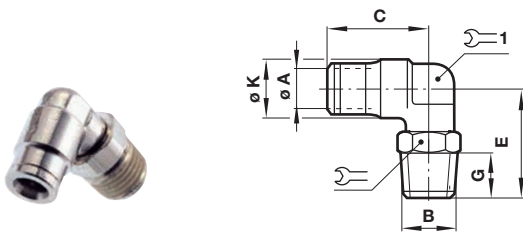




$\varnothing A$	$\varnothing B$	C	E	G	G1	$\varnothing K$	⌀	Model
4	M12x1,0	35,5	20,5	21,5	7	10	17	100490400
5	M12x1,0	35,5	21,5	21,5	7	11	17	100490500
6	M14x1,5	40	24	24,5	7	12	19	100490600
8	M16x1,5	45	26,5	30	7	14,5	22	100490800
10	M22x1,5	49	31,5	31	9	17	27	100491000
12	M24x1,5	54	38	32,5	12	20,5	30	100491200
14	M26x1,5	57	38	32,5	15	22,5	32	100491400

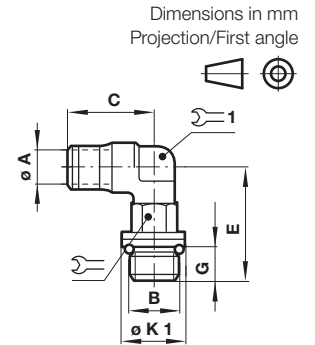
Elbow adaptor, BSP taper
10145





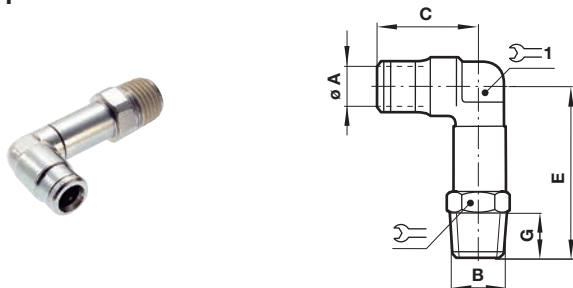
$\varnothing A$	B	C	E	G	⌀	Model
4	R1/8	15	17	7,5	7	101450418
4	R1/4	20	18	11	11	101450428
5	R1/8	15,5	18,5	7,5	7	101450518
5	R1/4	20	20	11	11	101450528
6	R1/8	16	19,5	7,5	8	101450618
6	R1/4	20	20	11	11	101450628
8	R1/8	17	21,5	7,5	11	101450818
8	R1/4	20	21,5	11	11	101450828
8	R3/8	23	22	12,5	13	101450838
8	R1/2	29	24	16	17	101450848
10	R1/8	18,5	26,5	7,5	13	101451018
10	R1/4	21,5	26,5	11	13	101451028
10	R3/8	23	26,5	12,5	13	101451038
10	R1/2	29	28,5	16	17	101451048
12	R1/4	23,5	31,5	11	16	101451228
12	R3/8	25	31,5	12,5	16	101451238
12	R1/2	29	32	16	17	101451248



**90° Swivel elbow adaptor, BSP taper
10147**


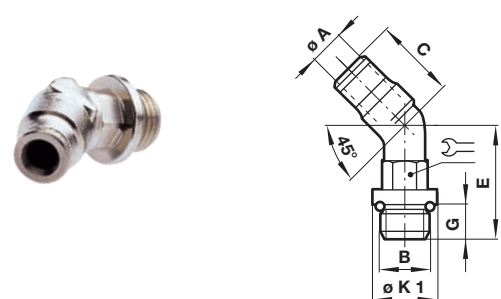
Ø A	B	C	E	G	Ø K			Model
4	R1/8	17	20,5	7,5	10	10	7	101470418
4	R1/4	17	24	11	10	14	7	101470428
5	R1/8	18,5	21	7,5	11	11	9	101470518
5	R1/4	18,5	24,5	11	11	14	9	101470528
6	R1/8	19,5	21,5	7,5	12	11	9	101470618
6	R1/4	19,5	25	11	12	14	9	101470628
6	R3/8	20	27,5	12,5	12	17	8	101470638
8	R1/8	21,5	23	7,5	14,5	14	11	101470818
8	R1/4	21,5	26	11	14,5	14	11	101470828
8	R3/8	22	30,5	12,5	14,5	17	13	101470838
8	R1/2	22	34,5	16	14,5	22	13	101470848
10	R1/8	26,5	25,5	7,5	17	14	13	101471018
10	R1/4	26,5	29	11	17	17	13	101471028
10	R3/8	26,5	30,5	12,5	17	17	13	101471038
10	R1/2	26,5	34,5	16	17	22	13	101471048
12	R1/4	31,5	32	11	20,5	19	16	101471228
12	R3/8	31,5	34	12,5	20,5	22	16	101471238
12	R1/2	31,5	38	16	20,5	22	16	101471248
14	R3/8	30,5	33	12,5	21,5	22	17	101471438
14	R1/2	31,5	37	16	21,5	22	17	101471448

**90° Swivel elbow adaptor, BSP parallel
10247**


Ø A	B	C	E	G	Ø K 1			Model
4	M3	17	17,5	3,5	–	8	7	102470403
4	M5	17	21,5	4	8	8	7	102470405
4	G1/8	17	22	5,5	14	11	7	102470418
4	G1/4	17	25,5	8	18	11	7	102470428
5	M5	18,5	20	4	8	8	9	102470505
5	G1/8	18,5	22,5	5,5	14	11	9	102470518
5	G1/4	18,5	26	8	18	11	9	102470528
6	M5	19,5	20,5	4	8	8	9	102470605
6	G1/8	19,5	23	5,5	14	11	9	102470618
6	G1/4	19,5	26,5	8	18	11	9	102470628
8	G1/8	21,5	24	5,5	14	13	11	102470818
8	G1/4	21,5	29	8	18	17	11	102470828
8	G3/8	22	33,5	9	22	19	13	102470838
8	G1/2	22	39,5	11	26	19	13	102470848
10	G1/8	26,5	26,5	5,5	14	17	13	102471018
10	G1/4	26,5	31,5	8	18	17	13	102471028
10	G3/8	26,5	33,5	9	22	19	13	102471038
10	G1/2	26,5	39,5	11	26	19	13	102471048
12	G1/4	31,5	35,5	8	18	19	16	102471228
12	G3/8	31,5	37	9	22	19	16	102471238
12	G1/2	31,5	43	11	26	19	16	102471248
14	G3/8	30,5	36	9	22	19	17	102471438
14	G1/2	31,5	39	11	26	24	17	102471448

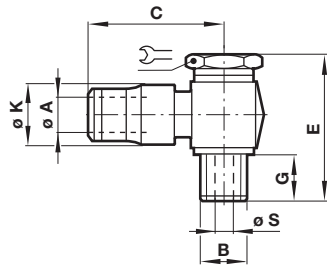
**Extended swivel elbow adaptor, BSP taper
10154**


Ø A	B	C	E	G			Model
4	R1/8	17	34	7,5	10	7	101540418
4	R1/4	17	40	11	14	7	101540428
6	R1/8	19,5	36,5	7,5	11	9	101540618
6	R1/4	19,5	41	11	14	9	101540628
8	R1/8	21,5	40,5	7,5	14	11	101540818
8	R1/4	21,5	44,5	11	14	11	101540828
8	R3/8	22	51,5	12,5	17	13	101540838
10	R3/8	26,5	51,5	12,5	17	13	101541038

**45° Swivel elbow adaptor, BSP parallel
10257**


Ø A	B	C	E	G	Ø K 1		Model
6	G1/8	17,5	19,5	5	14	11	102570618
6	G1/4	17,5	23	7,5	18	11	102570628
8	G1/8	19,5	20,5	5	14	11	102570818
8	G1/4	19,5	26	7,5	18	17	102570828

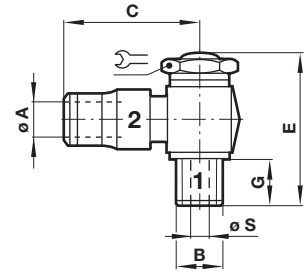
**Elbow banjo assembly,
non-regulating BSP parallel
10A51**



Ø A	B	C	E	G	Ø K	Ø S	Wrench	Model
4	M5	18,5	22	4	9,5	2,5	8	10A510405
4	G1/8	20,5	30	6	11	5	14	10A510418
5	M5	20	22	4	11	2,5	8	10A510505
5	G1/8	21,5	30	6	11,5	5	14	10A510518
6	G1/8	23,5	30	6	12,5	5	14	10A510618
6	G1/4	24	34	7,5	13	8,5	17	10A510628
8	G1/8	23,5	30	6	14	5	14	10A510818
8	G1/4	24,5	34	7,5	14	8,5	17	10A510828
8	G3/8	26,5	41	9	16,5	10	22	10A510838
10	G1/4	30	34	7,5	16	8,5	17	10A511028
10	G3/8	31	41	9	17	10	22	10A511038

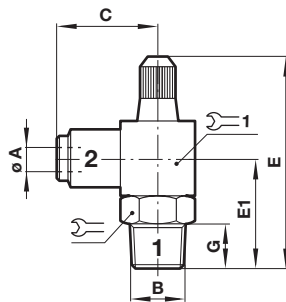
**Elbow banjo assembly,
regulating-out BSP parallel
10K51**

Dimensions in mm
Projection/First angle



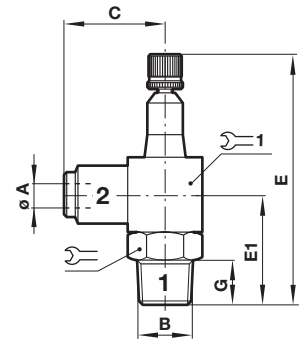
Ø A	B	C	E	G	Ø S	Wrench	Model
4	M5	18,5	27	4,5	2,5	8	10K510405
4	G1/8	20,5	34	6	5	14	10K510418
5	M5	20	27	4,5	2,5	8	10K510505
5	G1/8	21,5	34	6	5	14	10K510518
6	M5	22	27	4,5	2,5	8	10K510605
6	G1/8	23,5	34	6	5	14	10K510618
6	G1/4	24	36,5	6	8,5	17	10K510628
8	G1/8	23,5	34	6	5	14	10K510818
8	G1/4	24,5	36,5	6	8,5	17	10K510828
8	G3/8	26,5	51,5	10	10	22	10K510838
10	G1/4	30	36,5	6	8,5	17	10K511028
10	G3/8	31	51,5	10	10	22	10K511038
12	G3/8	33	51,5	10	10	22	10K511238
12	G1/2	38	57,5	10	10	27	10K511248

**Elbow banjo assembly,
regulating out BSPT taper
10T00**

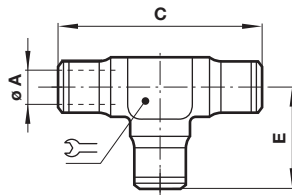



Ø A	B	C	E/E1	G	Wrench	Wrench 1	Model
4	R1/8	22	42/22,5	9,5	14	16	10T000418
6	R1/8	23	42/22,5	9,5	14	16	10T000618
6	R1/4	25,5	54/29,5	13,5	17	20	10T000628
8	R1/8	24,5	42/22,5	9,5	14	16	10T000818
8	R1/4	27	54/29,5	13,5	17	20	10T000828
8	R3/8	28	64/33	14,5	19	22	10T000838
10	R1/4	31,5	54/29,5	13,5	17	20	10T001028
10	R3/8	32,5	64/33	14,5	19	22	10T001038
12	R1/2	38	72/41,5	16	22	28	10T001248

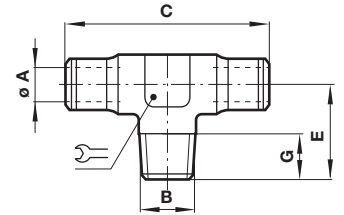
**Elbow banjo assembly,
regulating out BSPT taper
10TA0**




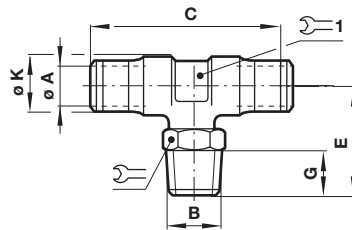
Ø A	B	C	E/E1	G	Wrench	Wrench 1	Model
4	R1/8	22	53/22,5	9,5	14	16	10TA00418
6	R1/8	23	53/22,5	9,5	14	16	10TA00618
6	R1/4	25,5	67/29,5	13,5	17	20	10TA00628
8	R1/4	27	67/29,5	14,5	17	20	10TA00828
8	R3/8	28	78/33	14,5	19	22	10TA00838
10	R1/4	31,5	67/29,5	13,5	17	20	10TA01028
10	R3/8	32,5	78/33	14,5	19	22	10TA01038
12	R1/2	38	90/41,5	16	22	28	10TA01248

Tee connector, tube x 3
10060


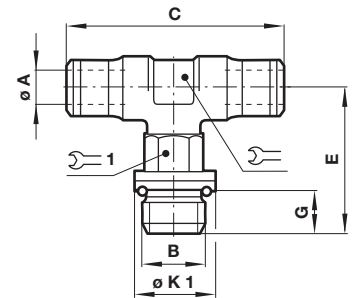
Ø A	C	E		Model
4	34	17	7	100600400
5	37	18,5	7	100600500
6	39	19,5	8	100600600
8	42,5	21,5	11	100600800
10	53,5	26,5	13	100601000
12	63,5	31,5	16	100601200
14	66,5	33	17	100601400



Tee adaptor, BSP taper
10165


Ø A	B	C	E	G		Model
4	R1/8	34	15	7,5	7	101650418
5	R1/8	37	15,5	7,5	7	101650518
5	R1/4	40	20	11	11	101650528
6	R1/8	39	16	7,5	8	101650618
6	R1/4	40	20	11	11	101650628
8	R1/8	42,5	17	7,5	11	101650818
8	R1/4	42,5	20	11	11	101650828
8	R3/8	44	23,5	12,5	13	101650838
10	R1/4	53,5	21,5	11	13	101651028
10	R3/8	53,5	23,5	12,5	13	101651038
12	R1/4	63,5	23,5	11	16	101651228
12	R3/8	63	25	12,5	16	101651238

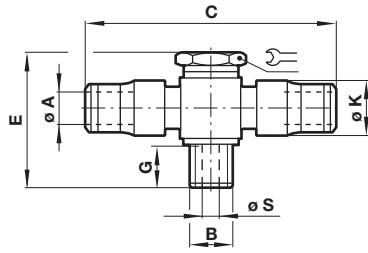
Swivel tee adaptor, BSP taper
10167



Ø A	B	C	E	G	Ø K			1	Model
4	R1/8	34	21,5	7,5	10	10	7		101670418
4	R1/4	34	24	11	10	14	7		101670428
5	R1/8	37	22	7,5	11	11	9		101670518
5	R1/4	37	24,5	11	11	14	9		101670528
6	R1/8	39	22,5	7,5	12	11	9		101670618
6	R1/4	39	25	11	12	14	9		101670628
8	R1/8	42,5	24	7,5	14,5	14	11		101670818
8	R1/4	42,5	26	11	14,5	14	11		101670828
8	R3/8	43,5	30,5	12,5	14,5	17	13		101670838
10	R1/4	53,5	29	11	17	17	13		101671028
10	R3/8	53,5	30,5	12,5	17	17	13		101671038
10	R1/2	53,5	34,5	16	17	22	13		101671048
12	R1/4	63,5	32	11	20,5	19	16		101671228
12	R3/8	63,5	34	12,5	20,5	22	16		101671238
12	R1/2	63,5	38	16	20,5	22	16		101671248
14	R3/8	61,5	33	12,5	22,5	22	17		101671438
14	R1/2	63,5	37	16	22,5	22	17		101671448

Swivel tee adaptor, BSP parallel
10267


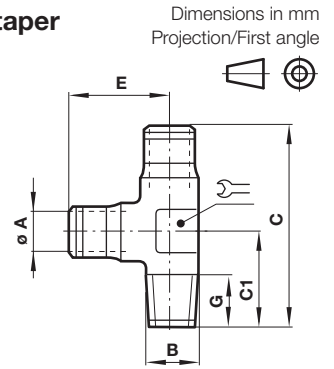
Ø A	B	C	E	G	Ø K1			1	Model
4	M3	34	16	3,5	-	7	8		102670403
4	M5	34	19,5	4	8	7	8		102670405
4	G1/8	34	22	5,5	14	7	11		102670418
5	M5	37	20	4	8	9	8		102670505
5	G1/8	37	22	5,5	14	9	11		102670518
5	G1/4	37	26	8	18	9	11		102670528
6	M5	39	20,5	4	8	9	8		102670605
6	G1/8	39	23	5,5	14	9	11		102670618
6	G1/4	39	26,5	8	18	9	11		102670628
8	G1/8	42,5	23,5	5,5	14	11	13		102670818
8	G1/4	42,5	29	8	18	11	17		102670828
8	G3/8	43,5	22	9	22	13	19		102670838
10	G1/4	53,5	31,5	8	18	13	17		102671028
10	G3/8	53,5	33,5	9	22	13	19		102671038
12	G1/4	63,5	35,5	8	18	16	19		102671228
12	G3/8	63,5	37	9	22	16	19		102671238
14	G1/2	63,5	39	11	26	17	24		102671448


Tee banjo assembly, non-regulating parallel thread
10A71



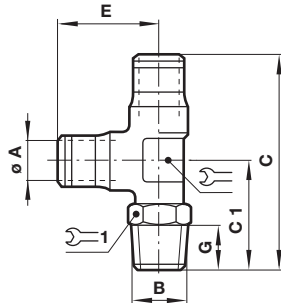
Ø A	B	C	E	G	Ø K	Ø S		Model
4	M5	37,5	22	4	9,5	2,5	8	10A710405
4	G1/8	41	30	6	11	5	14	10A710418
5	M5	40,5	22	4	11	2,5	8	10A710505
5	G1/8	43,5	30	6	11,5	5	14	10A710518
6	M5	41,5	22	4	11,5	2,5	8	10A710605
6	G1/8	47,5	30	6	12,5	5	14	10A710618
6	G1/4	48,5	34	7,5	13	8,5	17	10A710628
8	G1/8	47,5	30	6	14	5	14	10A710818
8	G1/4	49,5	34	7,5	14	8,5	17	10A710828



Fixed side tee adaptor, BSP taper
10175



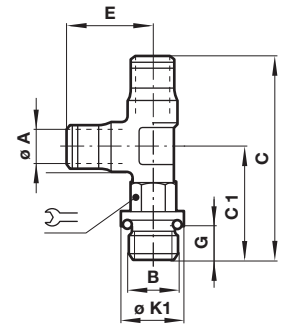
Ø A	B	C	C1	E	G		Model
4	R1/8	32	15	17	7,5	7	101750418
5	R1/8	34	15,5	18,5	7,5	7	101750518
5	R1/4	40	20	20	11	11	101750528
6	R1/8	35,5	16	19,5	7,5	8	101750618
6	R1/4	40	20	20	11	11	101750628
8	R1/8	38	17	21,5	7,5	11	101750818
8	R1/4	41,5	20	21,5	11	11	101750828
8	R3/8	45,5	23,5	22	12,5	13	101750838
10	R1/4	48,5	21,5	26,5	11	13	101751028
10	R3/8	50	23,5	26,5	12,5	13	101751038
12	R1/4	55	23,5	31,5	11	16	101751228
12	R3/8	56,5	25	31,5	12,5	16	101751238


Swivel tee adaptor, BSP taper
10168

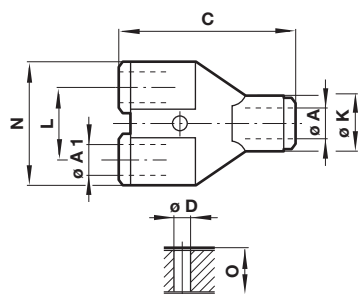


Ø A	B	C	C1	E	G		 1	Model
4	R1/8	38,5	20,5	17	7,5	7	10	101680418
4	R1/4	41	24	17	11	7	14	101680428
5	R1/8	40,5	22	18,5	7,5	9	11	101680518
5	R1/4	43	24,5	18,5	11	9	14	101680528
6	R1/8	42	22,5	19,5	7,5	9	11	101680618
6	R1/4	44,5	25	19,5	11	9	14	101680628
8	R1/8	45	24	21,5	7,5	11	14	101680818
8	R1/4	47,5	26	21,5	11	11	14	101680828
8	R3/8	52,5	30,5	22	12,5	13	17	101680838
10	R1/4	55,5	29	26,5	11	13	17	101681028
10	R3/8	57	30,5	26,5	12,5	13	17	101681038
12	R1/4	63,5	32	31,5	11	16	19	101681228
12	R3/8	66	34	31,5	12,5	16	22	101681238
12	R1/2	70	38	31,5	16	16	22	101681248
14	R3/8	66,5	33	33	12,5	17	22	101681438
14	R1/2	70	37	33	16	17	22	101681448

Swivel tee adaptor, BSP parallel
10268

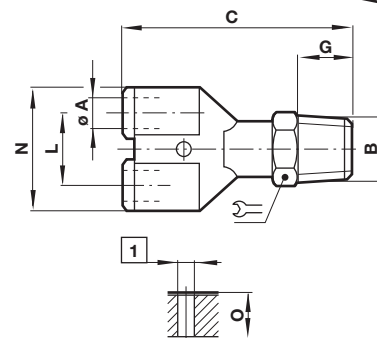


Ø A	B	C	C1	E	G	Ø K1		Model
4	M3	34	17	17	3,5	-	8	102680403
4	M5	36,5	19,5	17	4	8	8	102680405
4	G1/8	38,5	22	17	5,5	14	11	102680418
5	M5	39	20	18,5	4	8	8	102680505
5	G1/8	40,5	22,5	18,5	5,5	14	11	102680518
5	G1/4	44,5	26	18,5	8	18	11	102680528
6	G1/8	42,5	23	19,5	5,5	14	11	102680618
6	G1/4	46	26,5	19,5	8	18	11	102680628
8	G1/8	45	24	21,5	5,5	14	13	102680818
8	G1/4	50,5	29	21,5	8	18	17	102680828
8	G3/8	55	33	21,5	9	22	19	102680838
10	G1/4	58,5	31,5	26,5	8	18	17	102681028
10	G3/8	60	33,5	26,5	9	22	19	102681038
12	G1/4	67	35,5	31,5	8	18	19	102681228
12	G3/8	68,5	37	31,5	9	22	19	102681238
14	G3/8	69	36	33	9	22	19	102681438
14	G1/2	72,5	39	33	11	26	24	102681448

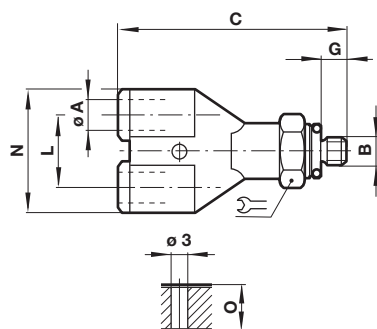
**Parallel Y-Connector
10082**


Ø A	Ø A1	C	Ø D	L	N	Ø K	O	Model
4	4	34	3	11	22	11	10,5	100820400
6	6	38,5	3	14	27	13	12,5	100820600
6	4	38	3	14	27	13	12,5	100820604
8	8	40,5	3	16	31	15	13,5	100820800
8	6	40,5	3	16	31	15	13,5	100820806
10	10	49,5	4	20,5	42	20	15	100821000
10	8	49,5	4	20,5	42	20	15	100821008

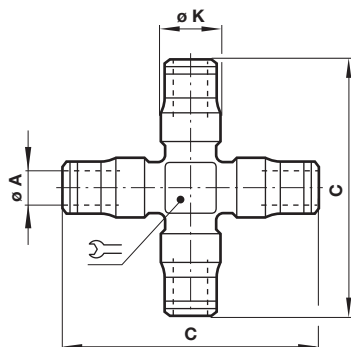
**Parallel Y-Adaptor
10188**

 Dimensions in mm
Projection/First angle

 1 For tube $\varnothing 4 \dots 8 = \varnothing 3$
For tube $\varnothing 10 = \varnothing 4$

Ø A	B	C	G	L	N	O		Model
4	R1/8	43,5	7,5	11	22,5	10,5	10	101880418
6	R1/8	48	7,5	14	28	12,5	11	101880618
8	R1/8	51	7,5	16	32	13,5	14	101880818
8	R1/4	54,5	11	16	32	13,5	11	101880828
10	R3/8	67	12,5	22	42,5	15	19	101881038
10	R1/2	70	16	22	42,5	15	22	101881048

**Parallel Y-Adaptor
10288**


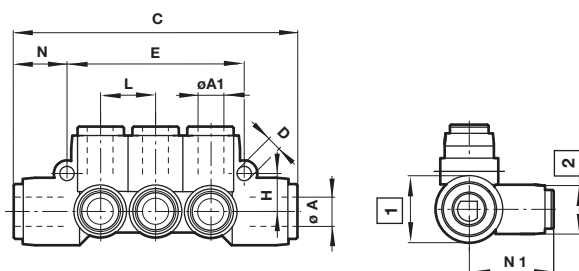
Ø A	B	C	G	L	N	O		Model
4	M5	42,5	4	11	22,5	10,5	10	102880405
6	M5	47	4	14	28	12,5	11	102880605

**4-way connector, tube x 4
10090**


Ø A	C	Ø K		Model
4	42	10,5	10	100900400
5	45,5	11	10	100900500
6	47,5	12	10	100900600
8	57,5	14,5	13	100900800
10	68,5	17	13	100901000

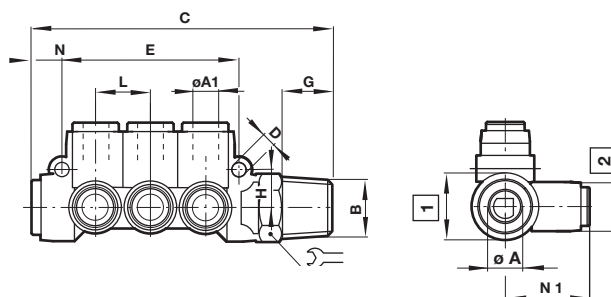
Manifold 100D6

Dimensions in mm
Projection/First angle



Ø A/Ø A1	C	Ø D	E	H	L	N	N1	Model
8/4	68	3,4	42	9	13	12,5	20	100D60804
8/6	68	3,4	42	9	13	12,5	20	100D60806
10/6	83	3,4	48	10,5	15	17	22,5	100D61006
10/8	83	3,4	48	10,5	15	17	22,5	100D61008

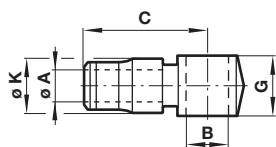
Manifold 100D6



- 1 For tube ø 8 = ø 16
For tube ø 10 = ø 20
- 2 For tube ø 8 = ø 14
For tube ø 10 = ø 16

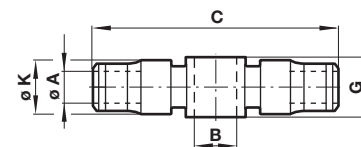
Ø A	Ø A1	B	C	Ø D	E	G	H	L	N	N1		Model
8	4	R1/4	83	3,4	42	11	9	13	12,5	20	17	101D60428
8	4	R3/8	85	3,4	42	12,5	9	13	12,5	20	19	101D60438
8	6	R1/4	83	3,4	42	11	9	13	12,5	20	17	101D60628
8	6	R3/8	85	3,4	42	12,5	9	13	12,5	20	19	101D60638
10	8	R3/8	100	3,4	48	12,5	10,5	15	17	22,5	19	101D60838
10	8	R1/2	104	3,4	48	16	10,5	15	17	22,5	22	101D60848

Elbow banjo body 10051



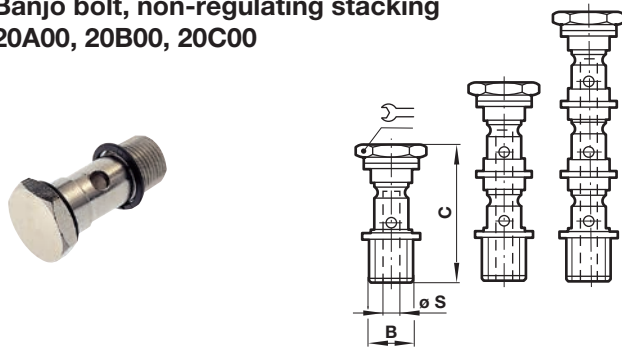
Ø A	B for screw	C	G	Ø K	Model
4	M5	18,5	12,5	9,5	100510405
4	G1/8	20,5	14	11	100510418
5	M5	20	12,5	11	100510505
5	G1/8	21,5	14	11,5	100510518
6	M5	22	12,5	12,5	100510605
6	G1/8	23,5	14	12,5	100510618
6	G1/4	24	16	13	100510628
8	G1/8	23,5	14	14	100510818
8	G1/4	24,5	16	14	100510828
8	G3/8	26,5	20,5	16,5	100510838
10	G1/4	30	16	16	100511028
10	G3/8	31	20,5	17	100511038
12	G3/8	33	20,5	17,5	100511238
12	G1/2	38	22	17,5	100511248

Tee banjo body 10071



Ø A	B for screw	C	G	Ø K	Model
4	M5	37,5	12,5	9,5	100710405
4	G1/8	41	14	11	100710418
5	M5	40	12,5	11	100710505
5	R1/8	43	14	11,5	100710518
6	M5	41,5	12,5	11,5	100710605
6	G1/8	47,5	14	12,5	100710618
6	G1/4	48,5	16	13	100710628
8	G1/8	47,5	14	14	100710818
8	G1/4	49,5	16	14	100710828

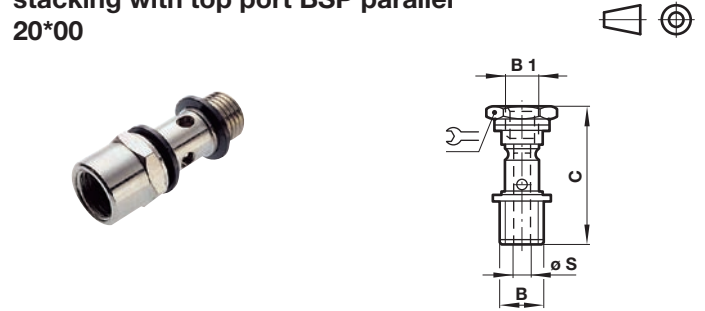
Banjo bolt, non-regulating stacking
20A00, 20B00, 20C00



B	C	Ø S	Execution		Model
M5	22	2,5	single	8	20A000005
G1/8	29	5	single	14	20A000018
G1/4	33	8,5	single	17	20A000028
G3/8	41	10	single	22	20A000038
G1/2	49	11,5	single	27	20A000048
M5	34,5	2,5	double	8	20B000005
G1/8	46,5	5	double	14	20B000018
G1/4	52,5	8,5	double	17	20B000028
G3/8	64	10	double	22	20B000038
G1/2	72,5	11,5	double	27	20B000048
G1/8	63	5	triple	14	20C000018
G1/4	71,5	8,5	triple	17	20C000028
G3/8	87	10	triple	22	20C000038

Banjo bolt, non-regulating single stacking with top port BSP parallel
20*00

Dimensions in mm
Projection/First angle



B	B1	C	ØS		Model
M5	M5	25,5	2,5	8	20D000505
M5	G1/4	34	8,5	17	20D000528
M5	G3/8	41	10	22	20D000538
G1/8	G1/8	36	5	14	20E001818
G1/8	G1/4	35,5	6	17	20E001828
G1/8	G3/8	41	10	22	20E001838
G1/4	G1/4	45	8,5	17	20F002828
G3/8	G3/8	52	10	22	20G003838

Regulating out banjo bolts single stacking, (screwdriver adjustable), regulating out
20K00



B	C	Operating pressure		Model
M5	27,5	10 bar	8	20K000005
G1/8	34	10 bar	14	20K000018
G1/4	36,5	10 bar	17	20K000028
G3/8	51,5	10 bar	22	20K000038
G1/2	57	10 bar	27	20K000048

Regulating out banjo bolts, single stacking, (screwdriver adjustable), regulating in
20L00



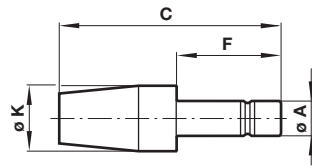
B	C	Operating pressure		Model
M5	27,5	10 bar	8	20L000005
G1/8	34	10 bar	14	20L000018
G1/4	36,5	10 bar	17	20L000028
G3/8	51,5	10 bar	22	20L000038
G1/2	57	10 bar	27	20L000048

Regulating out banjo bolts, single stacking (screwdriver adjustable), bi-directional
20M00



B	C	Operating pressure		Model
M5	27,3	10 bar	8	20M000005
G1/8	34	10 bar	14	20M000018
G1/4	36,5	10 bar	17	20M000028
G3/8	51,5	10 bar	22	20M000038
G1/2	57	10 bar	27	20M000048

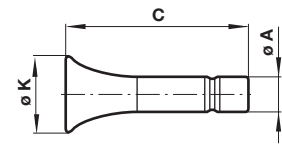
**Silencer, plug in
10011**



Ø A	C	F	Ø K	Model
4	31,5	16,5	11	100110400
6	33,5	18,5	11	100110600
8	40,5	19,5	13	100110800
10	53,5	24	19	100111000
12	57	27,5	19	100111200

**Plug (Acetal)
11004**

Dimensions in mm
Projection/First angle



Ø A	C	Ø K	Model
4	26,5	9,5	110040400
5	28	10,5	110040500
6	28,5	11,5	110040600
8	29,5	12,5	110040800
10	34	15,5	110041000
12	37,5	16,5	110041200
14	37,5	19,5	110041400

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under

»**Technical features/data**«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI NORGRN.

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.