

Ready to use

Manufactured from NSF (51 & 61) approved materials for use in food and water applications.

Releasable stainless-steel grab-ring offers fast, secure assembly and disassembly of nylon, PU and PE tubing.

Suitable for use in medical and analytical equipment including fluid and precision gas control.

Appropriate for inert gas and industrial air applications.



Technical data

Medium:

Air and liquids

Operating pressure:

Vacuum up to 29.5" Hg
(750 mm Hg):
5/32" to 5/16", -4°F to 68°F
(-20°C to 20°C), 230 psig (16 bar)
3/8" to 1/2", -4°F to 68°F
(-20°C to 20°C), 170 psig (12 bar)
5/32" to 5/16", 68°F to 149°F
(20° to 65°C), 150 psig (10 bar)
3/8" to 1/2", 68°F to 149°F
(20° to 65°C), 100 psig (7 bar)

Temperature:

-4°F to 149°F (-20°C to 65°C)

Materials:

Body: Acetal
Seals: Food and water grade NBR
Collet: PBT with Stainless Steel teeth

Tube sizes:

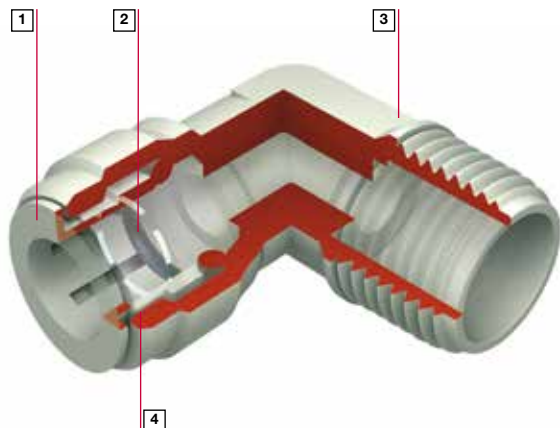
5/32", 3/16", 1/4", 5/16", 3/8"
and 1/2"

Thread sizes:

1/8", 1/4", 3/8", 1/2", 5/8" NPTF

Tube types:

Nylon, Polyurethane, Polyethylene



1 Collet- unique oval shape allowing for easier connecting and disconnecting.

2 O-ring - NBR provides leak proof seal.

3 Body and cap - made of highly durable acetal copolymer (POM).

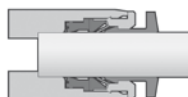
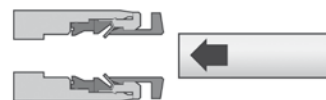
4 Stainless steel teeth - holds tubing in place

Method of assembly



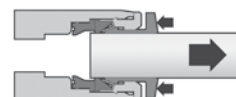
1. Ensure that the end tube is cut square and is free from burrs.

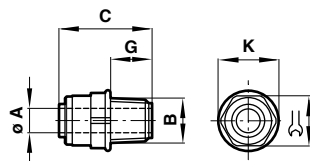
2. Push the tube through the release ring button and grab ring into the fitting.



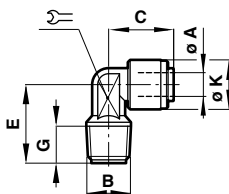
3. Push the tube firmly through the 'O' ring until it bottoms on the tube stop, then pull back.

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

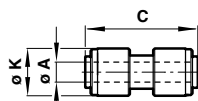


**Straight Adapter**

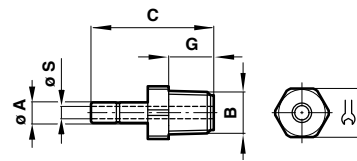
Part Number	ø A	B NPTF	C*	G	ø K	
D24250218	5/32	1/8	0.94	0.36	0.70	5/8
D24250228	5/32	1/4	1.10	0.52	0.70	5/8
D24250318	3/16	1/8	0.95	0.36	0.70	5/8
D24250418	1/4	1/8	1.02	0.36	0.70	5/8
D24250428	1/4	1/4	1.19	0.52	0.70	5/8
D24250438	1/4	3/8	1.21	0.54	0.84	3/4
D24250518	5/16	1/8	1.05	0.36	0.84	3/4
D24250528	5/16	1/4	1.21	0.52	0.84	3/4
D24250538	5/16	3/8	1.23	0.54	0.84	3/4
D24250618	3/8	1/8	1.15	0.36	0.91	13/16
D24250628	3/8	1/4	1.31	0.52	0.91	13/16
D24250638	3/8	3/8	1.34	0.54	0.91	13/16
D24250648	3/8	1/2	1.50	0.70	0.98	7/8
D24250738	1/2	3/8	1.53	0.54	1.08	31/32
D24250748	1/2	1/2	1.68	0.70	1.08	31/32

**Elbow Adapter**

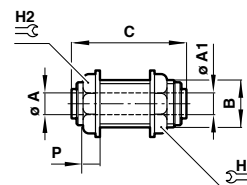
Part Number	ø A	B NPTF	C*	E	G	ø K	
D24450418	1/4	1/8	0.67	0.79	0.36	0.59	7/16
D24450428	1/4	1/4	0.67	0.94	0.52	0.59	7/16
D24450438	1/4	3/8	0.67	0.87	0.54	0.59	7/16
D24450628	3/8	1/4	0.80	0.94	0.52	0.79	9/16
D24450638	3/8	3/8	0.80	0.94	0.54	0.79	9/16
D24450738	1/2	3/8	1.00	1.18	0.54	0.91	11/16
D24450748	1/2	1/2	1.00	1.24	0.70	0.91	11/16

**Straight Union**

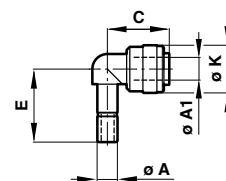
Part Number	ø A	C*	ø K
D20200200	5/32	1.25	0.52
D20200300	3/16	1.28	0.54
D20200400	1/4	1.43	0.61
D20200500	5/16	1.50	0.69
D00200600	3/8	1.70	0.79
D00200700	1/2	2.09	0.93

**Straight Stem Adapter**

Part Number	ø A	B NPTF	C	G	ø S	
D24150418	1/4	1/8	1.34	0.36	0.18	1/2
D24150428	1/4	1/4	1.50	0.52	0.18	5/8
D24150518	5/16	1/8	1.38	0.36	0.18	1/2
D24150628	3/8	1/4	1.66	0.52	0.26	5/8
D24150638	3/8	3/8	1.70	0.54	0.26	3/4
D24150738	1/2	3/8	1.86	0.54	0.37	3/4
D24150748	1/2	1/2	2.02	0.70	0.37	15/16

**Bulkhead Union**

Part Number	ø A	ø A1	B	C*	P	H1	H2
D20290400	1/4	1/4	M17X1.5	1.35	0.28	0.75	0.83
D20290500	5/16	5/16	M20X1.75	1.52	0.31	0.83	1.00
D20290600	3/8	3/8	M24X1.75	1.67	0.33	0.94	1.12
D20290700	1/2	1/2	M27X2.0	2.04	0.35	1.06	1.2

**Stem Elbow**

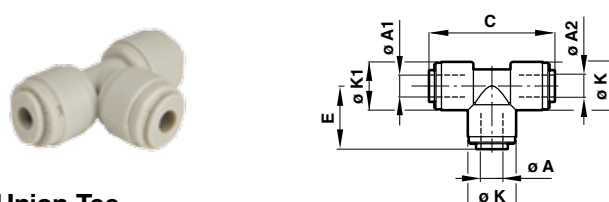
Part Number	ø A	ø A1	C*	E	ø K
D20430200	5/32	5/32	0.69	0.71	0.52
D20430300	3/16	3/16	0.71	0.73	0.54
D20430400	1/4	1/4	0.79	0.83	0.61
D20430500	5/16	5/16	0.84	0.89	0.69
D20430600	3/8	3/8	0.96	0.98	0.79
D20430700	1/2	1/2	1.21	1.16	0.93

Dimensions in Inches



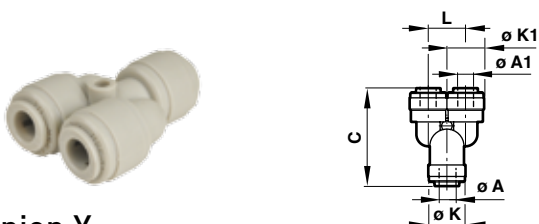
Union Elbow

Part Number	ø A	ø A1	C*	ø K	ø K1
D20400200	5/32	5/32	0.96	0.52	0.52
D20400300	3/16	3/16	1.00	0.54	0.54
D20400400	1/4	1/4	1.13	0.61	0.61
D20400500	5/16	5/16	1.21	0.69	0.69
D20400600	3/8	3/8	1.41	1.41	1.41
D20400700	1/2	1/2	1.71	0.91	0.91



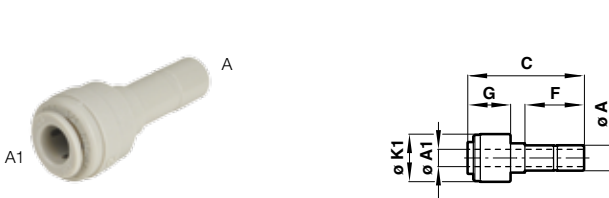
Union Tee

Part Number	ø A	ø A1	ø A2	C*	E*	ø K	ø K1
D20600200	5/32	5/32	5/32	1.41	0.69	0.53	0.51
D20600300	3/16	3/16	3/16	1.46	0.69	0.54	0.51
D20600400	1/4	1/4	1/4	1.65	0.79	0.61	0.59
D20600500	5/16	5/16	5/16	1.72	0.83	0.69	0.67
D20600600	3/8	3/8	3/8	2.04	0.98	0.79	0.79
D20600700	1/2	1/2	1/2	2.51	1.18	0.91	0.91



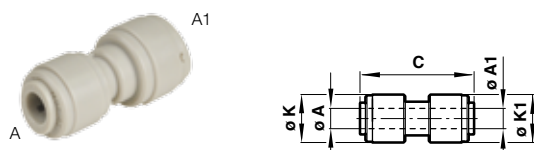
Union Y

Part Number	ø A	ø A1	C*	ø K	ø K1	L
D20820400	1/4	1/4	1.53	0.61	0.61	0.61
D20820600	3/8	3/8	1.83	0.79	0.79	0.79
D20820700	1/2	1/2	2.24	0.91	0.91	0.91



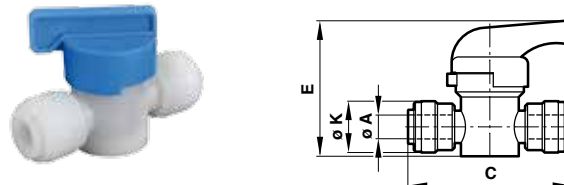
Stem Reducer (stem/tube)

Part Number	ø A	ø A1	C*	F	G	ø K1
D20230504	5/16	1/4	1.60	0.89	0.67	0.61



Straight Union (Unequal)

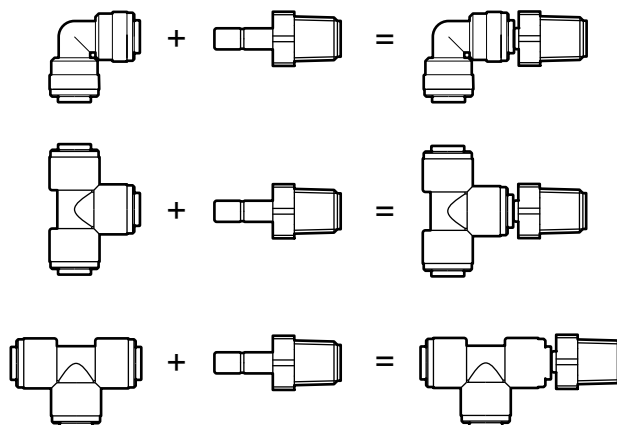
Part Number	ø A	ø A1	C*	ø K	ø K1
D20200504	5/16	1/4	1.45	0.69	0.69
D20200605	3/8	5/16	1.67	0.79	0.79
D20200706	1/2	3/8	2.06	0.93	0.99



Hand Valve (Union)

Part Number	ø A	C*	E	ø K
D20GR0400	1/4	2.04	1.36	0.61
D20GR0600	3/8	2.49	1.67	0.79
D20GR0700	1/2	2.79	1.67	0.91

Adaptability



Dimensions in Inches

- > 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

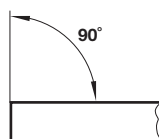
Tubing types:

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

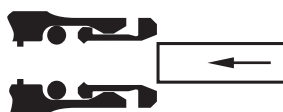
Materials:

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



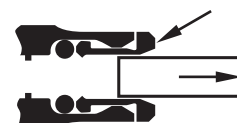
1. Ensure that the end of the tube
is cut square and is free from
burrs.



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

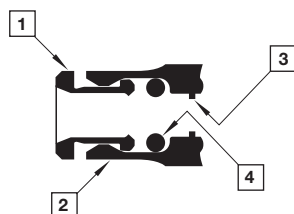


3. Continue pushing the tube
through the 'O'-ring until it
bottoms on the tube stop
then pull back.



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

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

Straight adaptors and connectors

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

Elbow adaptors, connectors and banjos

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

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

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

Banjo bodies and bolts

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

Silencer (plug in)
10011

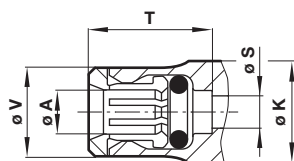

Page 14

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

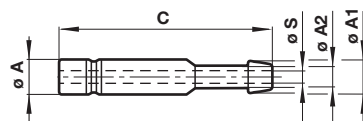


*1) Dimensions here and in the individual tables refer to the collet being in the 'IN' position.

*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

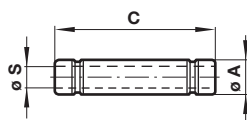
10019



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

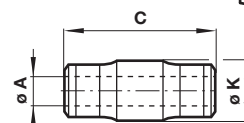
10022



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

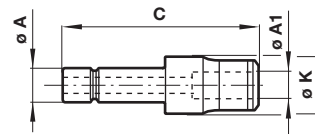
10020

 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

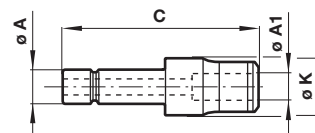
10023



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

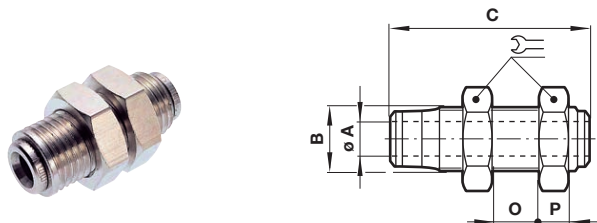
Reducing/expanding connector

10023



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

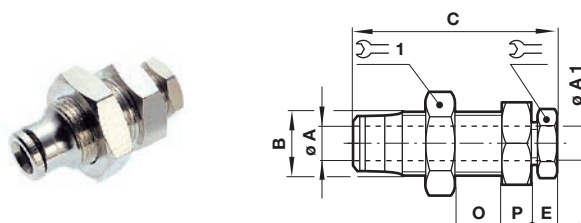
Bulkhead connector, tube to tube
10029



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

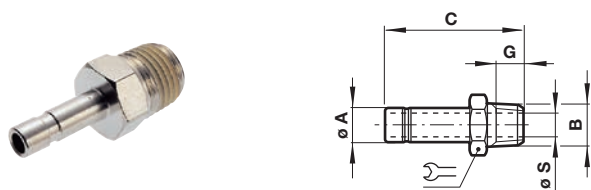
Mixed bulkhead connector
10031

Dimensions in mm
Projection/First angle



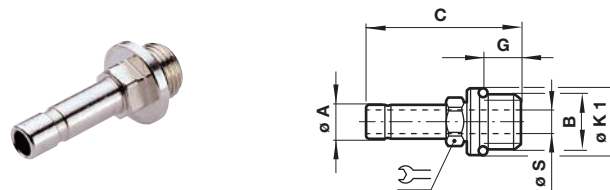
Ø A & Ø A1	B	C	E	O	P			Model
4	M12x1,0	27	6	9,5	9	8	17	100310404
6	M15x1,0	29,5	7	9,5	10	13	22	100310606
8	M18x1,5	33,5	8	11	10	13	24	100310808
10	M20x1,5	40	8	14,5	11	17	27	100311010
12	M24x1,5	44	9	17,5	11	19	30	100311212
14	M26x1,5	46	11,5	18,5	11	22	32	100311414

Straight stem adaptor, BSP taper
10115

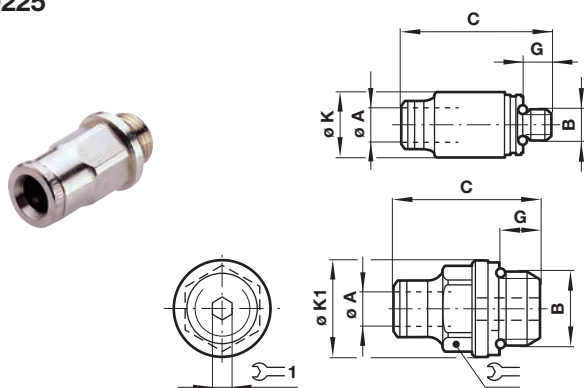


Ø A	B	C	G	Ø S		Model
4	R1/8	30	7,5	2,1	10	101150418
4	R1/4	33,5	11	2,1	14	101150428
5	R1/8	31	7,5	3,2	11	101150518
5	R1/4	35	11	3,2	14	101150528
6	R1/8	32	7,5	4,1	12	101150618
6	R1/4	35	11	4,1	14	101150628
8	R1/8	33	7,5	7,1	14	101150818
8	R1/4	36,5	11	5,1	14	101150828
8	R3/8	40	12,5	5,1	19	101150838
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

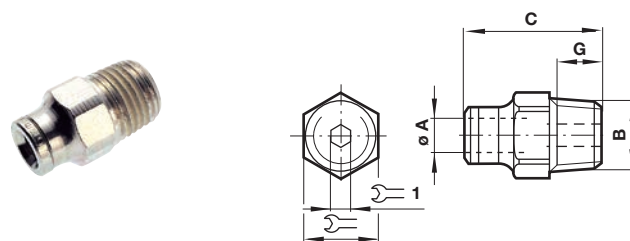


Ø A	B	C	G	Ø K1	Ø S		Model
4	G1/8	29	5	13,5	2,1	8	102150418
4	G1/4	33	7,5	17,5	2,1	10	102150428
5	G1/8	30,5	5	13,5	3,3	8	102150518
5	G1/4	34	7,5	17,5	3,3	10	102150528
6	G1/8	31	5	13,5	4	8	102150618
6	G1/4	34,5	7,5	17,5	4	10	102150628
8	G1/8	32,5	5	13,5	5	10	102150818
8	G1/4	35,5	7,5	17,5	6	10	102150828
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	1/2	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

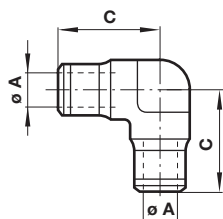
 Dimensions in mm
 Projection/First angle


Ø A	B	C	G	1/2	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

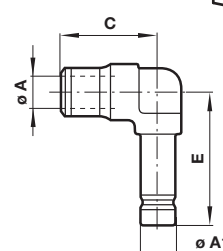

Ø A	B	C	G	1/2	Model
4	M5	22,5	5	10	102260405
4	G1/8	24,5	7,5	13	102260418
4	G1/4	29	5	17	102260428
5	M5	23,5	7,5	10	102260505
5	G1/8	25,5	7,5	13	102260518
5	G1/4	29,5	7,5	17	102260528
6	G1/8	26	11	13	102260618
6	G1/4	30,5	11	17	102260628
8	G1/8	27	11	13	102260818
8	G1/4	31,5	11	17	102260828
10	G1/4	36,5	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



Ø 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

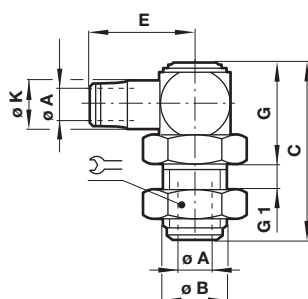


Dimensions in mm
Projection/First angle



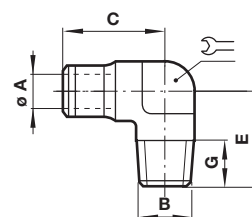
Ø A	Ø A1	C	E	Model
4	4	9,5	25	100430400
6	6	19	27,5	100430600
8	8	21	29,5	100430800
8	5	19,5	30	100430805

Bulkhead swivel elbow connector 10049

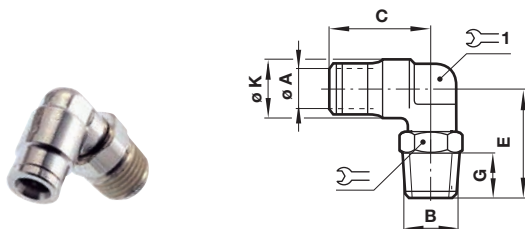


Ø A	Ø B	C	E	G	G1	Ø K	Symbol	Model
4	M12x1,0	35,5	20,5	21,5	7	10	17	100490400
5	M12x1,0	35,5	21,5	21,5	7	11	17	100490500
6	M14x1,5	40	24	24,5	7	12	19	100490600
8	M16x1,5	45	26,5	30	7	14,5	22	100490800
10	M22x1,5	49	31,5	31	9	17	27	100491000
12	M24x1,5	54	38	32,5	12	20,5	30	100491200
14	M26x1,5	57	38	32,5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

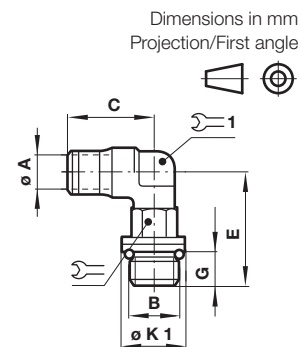
Elbow adaptor, BSP taper 10145



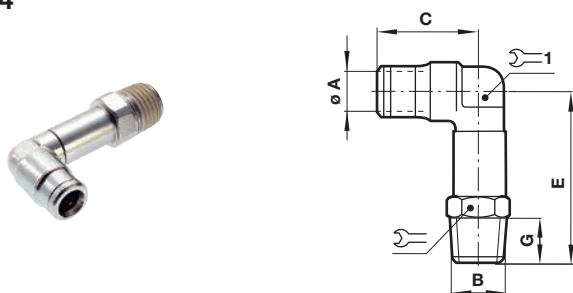
Ø A	B	C	E	G	Symbol	Model
4	R1/8	15	17	7,5	7	101450418
4	R1/4	20	18	11	11	101450428
5	R1/8	15,5	18,5	7,5	7	101450518
5	R1/4	20	20	11	11	101450528
6	R1/8	16	19,5	7,5	8	101450618
6	R1/4	20	20	11	11	101450628
8	R1/8	17	21,5	7,5	11	101450818
8	R1/4	20	21,5	11	11	101450828
8	R3/8	23	22	12,5	13	101450838
8	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


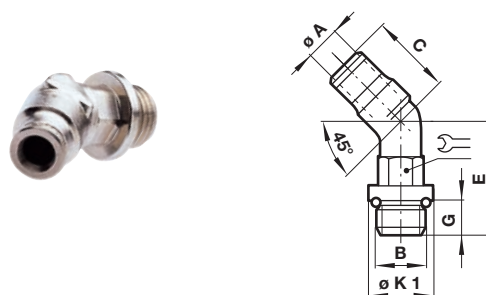
Ø A	B	C	E	G	Ø K	1	Model
4	R1/8	17	20,5	7,5	10	10	101470418
4	R1/4	17	24	11	10	14	101470428
5	R1/8	18,5	21	7,5	11	11	101470518
5	R1/4	18,5	24,5	11	11	14	101470528
6	R1/8	19,5	21,5	7,5	12	11	101470618
6	R1/4	19,5	25	11	12	14	101470628
6	R3/8	20	27,5	12,5	12	17	101470638
8	R1/8	21,5	23	7,5	14,5	14	101470818
8	R1/4	21,5	26	11	14,5	14	101470828
8	R3/8	22	30,5	12,5	14,5	17	101470838
8	R1/2	22	34,5	16	14,5	22	101470848
10	R1/8	26,5	25,5	7,5	17	14	101471018
10	R1/4	26,5	29	11	17	17	101471028
10	R3/8	26,5	30,5	12,5	17	17	101471038
10	R1/2	26,5	34,5	16	17	22	101471048
12	R1/4	31,5	32	11	20,5	19	101471228
12	R3/8	31,5	34	12,5	20,5	22	101471238
12	R1/2	31,5	38	16	20,5	22	101471248
14	R3/8	30,5	33	12,5	21,5	22	101471438
14	R1/2	31,5	37	16	21,5	22	101471448

90° Swivel elbow adaptor, BSP parallel
10247


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

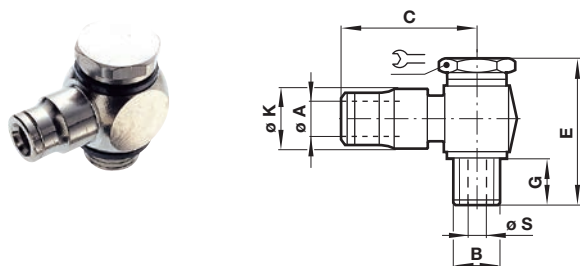
Extended swivel elbow adaptor, BSP taper
10154


Ø A	B	C	E	G	1	Model
4	R1/8	17	34	7,5	10	101540418
4	R1/4	17	40	11	14	101540428
6	R1/8	19,5	36,5	7,5	11	101540618
6	R1/4	19,5	41	11	14	101540628
8	R1/8	21,5	40,5	7,5	14	101540818
8	R1/4	21,5	44,5	11	14	101540828
8	R3/8	22	51,5	12,5	17	101540838
10	R3/8	26,5	51,5	12,5	17	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	102570618
6	G1/4	17,5	23	7,5	18	102570628
8	G1/8	19,5	20,5	5	14	102570818
8	G1/4	19,5	26	7,5	18	102570828

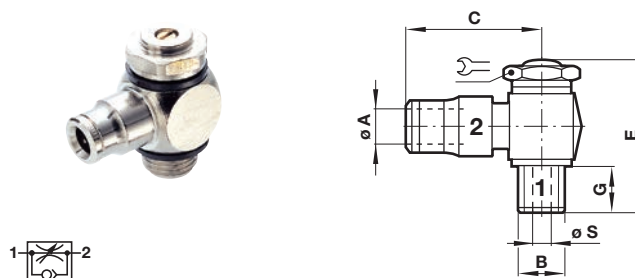
**Elbow banjo assembly,
non-regulating BSP parallel
10A51**



Ø A	B	C	E	G	Ø K	Ø S		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

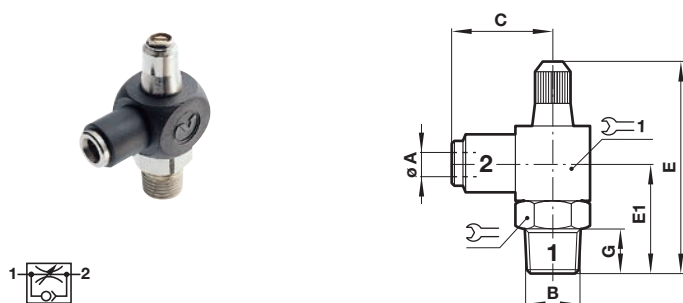
**Elbow banjo assembly,
regulating-out BSP parallel
10K51**

Dimensions in mm
Projection/First angle



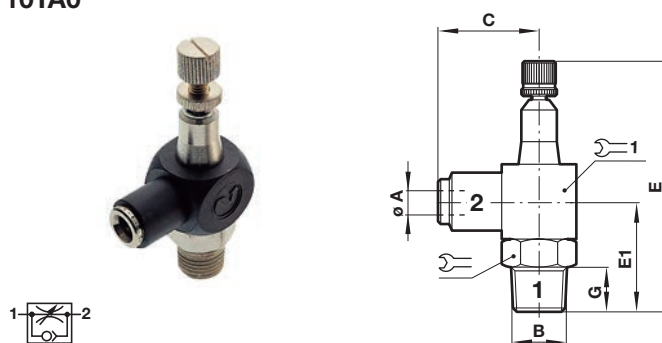
Ø A	B	C	E	G	Ø S		Model
4	M5	18,5	27	4,5	2,5	8	10K510405
4	G1/8	20,5	34	6	5	14	10K510418
5	M5	20	27	4,5	2,5	8	10K510505
5	G1/8	21,5	34	6	5	14	10K510518
6	M5	22	27	4,5	2,5	8	10K510605
6	G1/8	23,5	34	6	5	14	10K510618
6	G1/4	24	36,5	6	8,5	17	10K510628
8	G1/8	23,5	34	6	5	14	10K510818
8	G1/4	24,5	36,5	6	8,5	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**

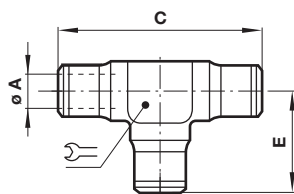


Ø A	B	C	E/E1	G		1	Model
4	R1/8	22	42/22,5	9,5	14	16	10T000418
6	R1/8	23	42/22,5	9,5	14	16	10T000618
6	R1/4	25,5	54/29,5	13,5	17	20	10T000628
8	R1/8	24,5	42/22,5	9,5	14	16	10T000818
8	R1/4	27	54/29,5	13,5	17	20	10T000828
8	R3/8	28	64/33	14,5	19	22	10T000838
10	R1/4	31,5	54/29,5	13,5	17	20	10T001028
10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

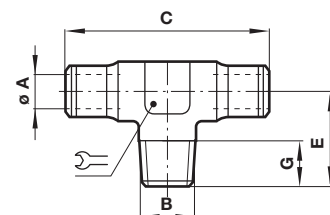
**Elbow banjo assembly,
regulating out BSPT taper
10TA0**



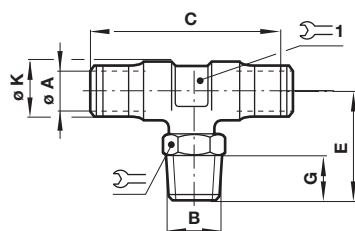
Ø A	B	C	E/E1	G		1	Model
4	R1/8	22	53/22,5	9,5	14	16	10TA00418
6	R1/8	23	53/22,5	9,5	14	16	10TA00618
6	R1/4	25,5	67/29,5	13,5	17	20	10TA00628
8	R1/4	27	67/29,5	14,5	17	20	10TA00828
8	R3/8	28	78/33	14,5	19	22	10TA00838
10	R1/4	31,5	67/29,5	13,5	17	20	10TA01028
10	R3/8	32,5	78/33	14,5	19	22	10TA01038
12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

Tee connector, tube x 3
10060


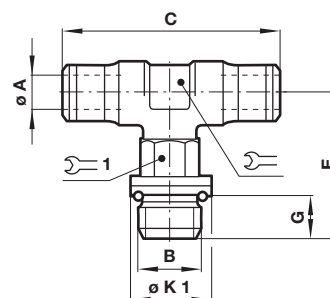
Ø A	C	E		Model
4	34	17	7	100600400
5	37	18,5	7	100600500
6	39	19,5	8	100600600
8	42,5	21,5	11	100600800
10	53,5	26,5	13	100601000
12	63,5	31,5	16	100601200
14	66,5	33	17	100601400

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

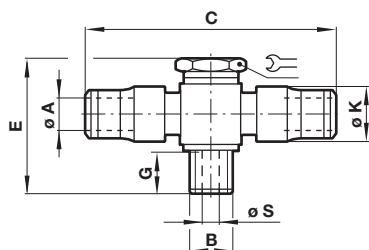
Swivel tee adaptor, BSP taper
10167


Ø A	B	C	E	G	Ø K			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


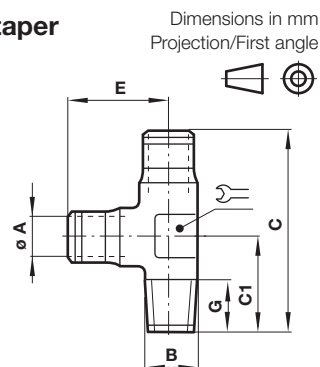
Ø A	B	C	E	G	Ø K 1			Model
4	M3	34	16	3,5	—	7	8	102670403
4	M5	34	19,5	4	8	7	8	102670405
4	G1/8	34	22	5,5	14	7	11	102670418
5	M5	37	20	4	8	9	8	102670505
5	G1/8	37	22	5,5	14	9	11	102670518
5	G1/4	37	26	8	18	9	11	102670528
6	M5	39	20,5	4	8	9	8	102670605
6	G1/8	39	23	5,5	14	9	11	102670618
6	G1/4	39	26,5	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



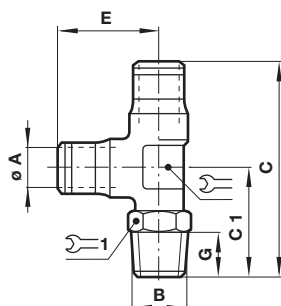
Ø A	B	C	E	G	Ø K	Ø S		Model
4	M5	37,5	22	4	9,5	2,5	8	10A710405
4	G1/8	41	30	6	11	5	14	10A710418
5	M5	40,5	22	4	11	2,5	8	10A710505
5	G1/8	43,5	30	6	11,5	5	14	10A710518
6	M5	41,5	22	4	11,5	2,5	8	10A710605
6	G1/8	47,5	30	6	12,5	5	14	10A710618
6	G1/4	48,5	34	7,5	13	8,5	17	10A710628
8	G1/8	47,5	30	6	14	5	14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

Fixed side tee adaptor, BSP taper
10175



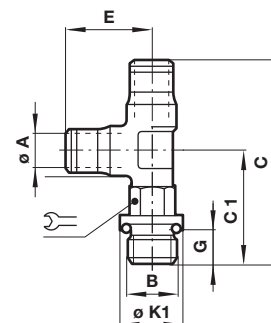
Ø A	B	C	C1	E	G		Model
4	R1/8	32	15	17	7,5	7	101750418
5	R1/8	34	15,5	18,5	7,5	7	101750518
5	R1/4	40	20	20	11	11	101750528
6	R1/8	35,5	16	19,5	7,5	8	101750618
6	R1/4	40	20	20	11	11	101750628
8	R1/8	38	17	21,5	7,5	11	101750818
8	R1/4	41,5	20	21,5	11	11	101750828
8	R3/8	45,5	23,5	22	12,5	13	101750838
10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

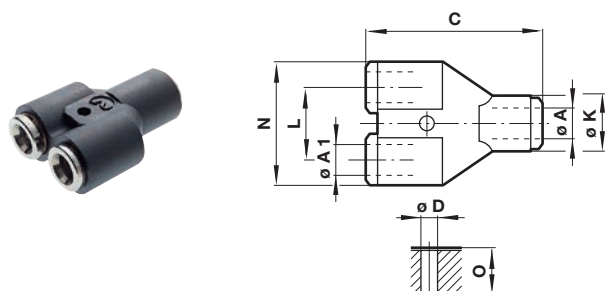


Ø A	B	C	C1	E	G		1	Model
4	R1/8	38,5	20,5	17	7,5	7	10	101680418
4	R1/4	41	24	17	11	7	14	101680428
5	R1/8	40,5	22	18,5	7,5	9	11	101680518
5	R1/4	43	24,5	18,5	11	9	14	101680528
6	R1/8	42	22,5	19,5	7,5	9	11	101680618
6	R1/4	44,5	25	19,5	11	9	14	101680628
8	R1/8	45	24	21,5	7,5	11	14	101680818
8	R1/4	47,5	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



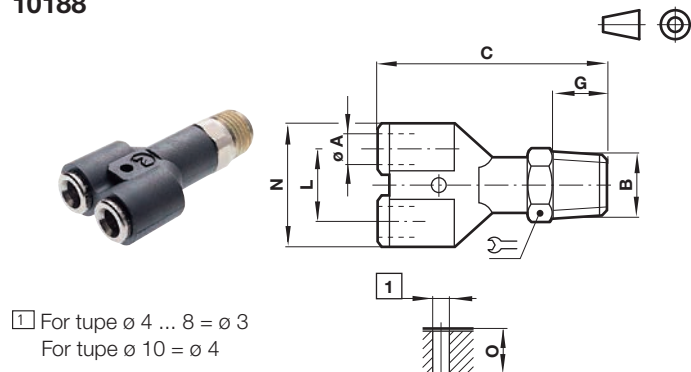
Ø A	B	C	C1	E	G	Ø K1		Model
4	M3	34	17	17	3,5	-	8	102680403
4	M5	36,5	19,5	17	4	8	8	102680405
4	G1/8	38,5	22	17	5,5	14	11	102680418
5	M5	39	20	18,5	4	8	8	102680505
5	G1/8	40,5	22,5	18,5	5,5	14	11	102680518
5	G1/4	44,5	26	18,5	8	18	11	102680528
6	G1/8	42,5	23	19,5	5,5	14	11	102680618
6	G1/4	46	26,5	19,5	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


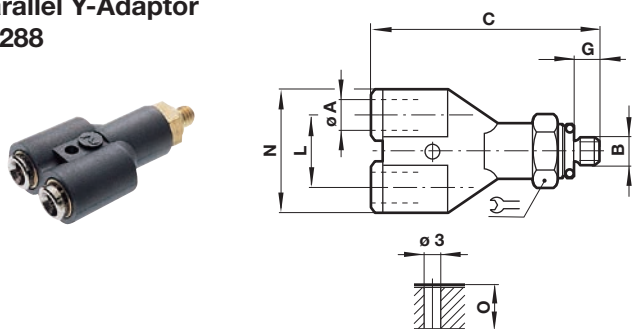
Ø A	Ø A1	C	Ø D	L	N	Ø K	O	Model
4	4	34	3	11	22	11	10,5	100820400
6	6	38,5	3	14	27	13	12,5	100820600
6	4	38	3	14	27	13	12,5	100820604
8	8	40,5	3	16	31	15	13,5	100820800
8	6	40,5	3	16	31	15	13,5	100820806
10	10	49,5	4	20,5	42	20	15	100821000
10	8	49,5	4	20,5	42	20	15	100821008

Parallel Y-Adaptor
10188

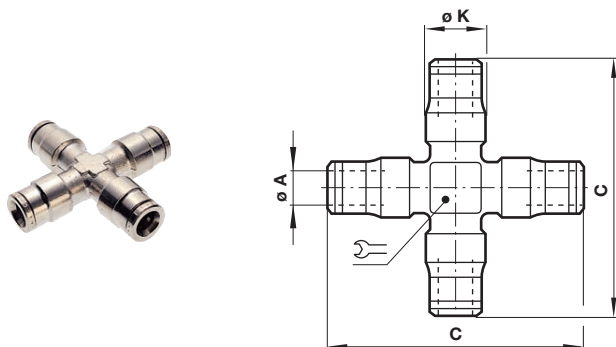
Dimensions in mm
 Projection/First angle



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

Parallel Y-Adaptor
10288


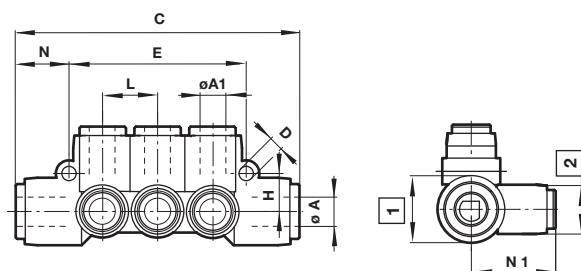
Ø A	B	C	G	L	N	O	Model
4	M5	42,5	4	11	22,5	10,5	102880405
6	M5	47	4	14	28	12,5	102880605

4-way connector, tube x 4
10090


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

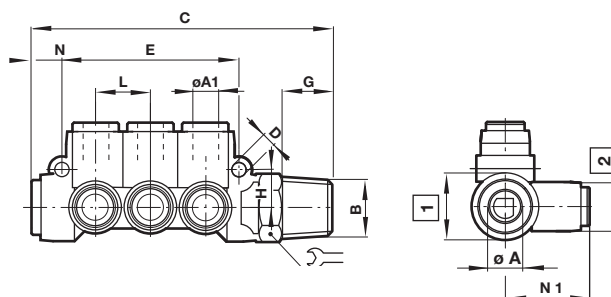
Manifold 100D6

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

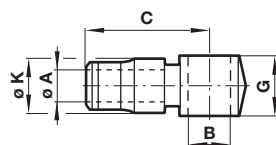
Manifold 100D6



- 1 For type Ø 8 = Ø 16
For type Ø 10 = Ø 20
2 For type Ø 8 = Ø 14
For type Ø 10 = Ø 16

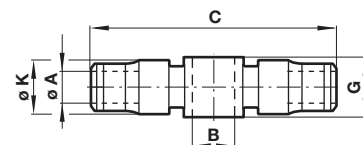
Ø A	Ø A1	B	C	Ø D	E	G	H	L	N	N1		Model
8	4	R1/4	83	3,4	42	11	9	13	12,5	20	17	101D60428
8	4	R3/8	85	3,4	42	12,5	9	13	12,5	20	19	101D60438
8	6	R1/4	83	3,4	42	11	9	13	12,5	20	17	101D60628
8	6	R3/8	85	3,4	42	12,5	9	13	12,5	20	19	101D60638
10	8	R3/8	100	3,4	48	12,5	10,5	15	17	22,5	19	101D60838
10	8	R1/2	104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

Elbow banjo body 10051

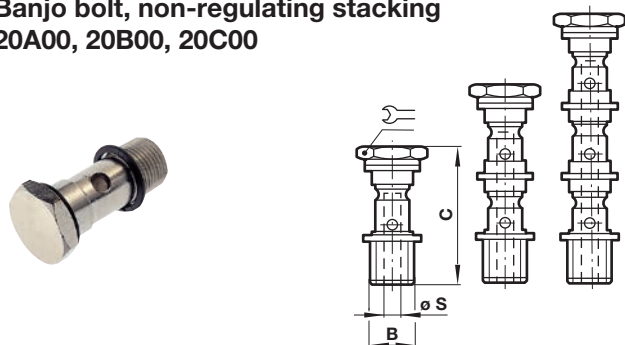


Ø A	B for screw	C	G	Ø K	Model
4	M5	18,5	12,5	9,5	100510405
4	G1/8	20,5	14	11	100510418
5	M5	20	12,5	11	100510505
5	G1/8	21,5	14	11,5	100510518
6	M5	22	12,5	12,5	100510605
6	G1/8	23,5	14	12,5	100510618
6	G1/4	24	16	13	100510628
8	G1/8	23,5	14	14	100510818
8	G1/4	24,5	16	14	100510828
8	G3/8	26,5	20,5	16,5	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

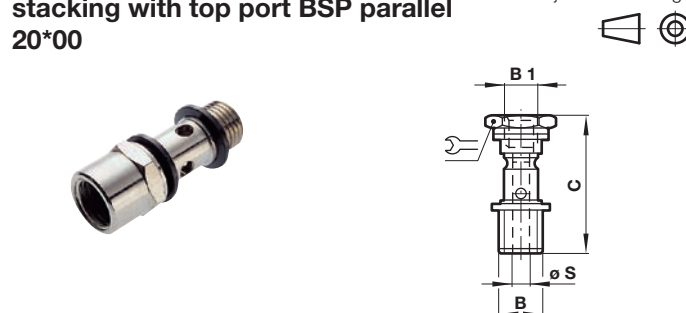


Ø A	B for screw	C	G	Ø K	Model
4	M5	37,5	12,5	9,5	100710405
4	G1/8	41	14	11	100710418
5	M5	40	12,5	11	100710505
5	R1/8	43	14	11,5	100710518
6	M5	41,5	12,5	11,5	100710605
6	G1/8	47,5	14	12,5	100710618
6	G1/4	48,5	16	13	100710628
8	G1/8	47,5	14	14	100710818
8	G1/4	49,5	16	14	100710828

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

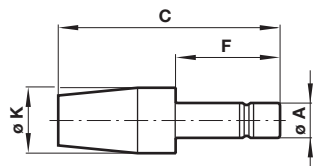
Regulating out banjo bolts, single stacking,
(screwdriver adjustable), regulating in
20L00


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

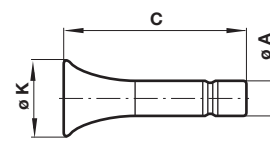

B	C	Operating pressure		Model
M5	27,3	10 bar	8	20M000005
G1/8	34	10 bar	14	20M000018
G1/4	36,5	10 bar	17	20M000028
G3/8	51,5	10 bar	22	20M000038
G1/2	57	10 bar	27	20M000048

**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**



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

Dimensions in mm
Projection/First angle



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.

Straight Fittings

Straight adaptor (external + internal hex)			Straight adaptor (external + internal hex)			Straight adaptor (internal hex only)			Female adaptor			Straight union			Stem reducer			Bulkhead union		
O/D tube	BSPT		O/D tube	Metric & BSPP		O/D tube	Metric & BSPT		O/D tube	Metric & BSPP		O/D tube			O/D stem	O/D tube		O/D tube	Mounting thread	
4	R1/8	C01250418	4	M5	C02250405	4	M5	C02250405	4	M5	C02250405	4	4	C00230400	4	4	C00230400	4	M12x1	C0230400
4	R1/4	C01250428	4	M6	C02250406	4	M6	C02250406	4	G1/8	C02250418	6	4	C00230604	6	4	C00230604	6	M14x1	C0230604
4	R3/8	C01250438	4	G1/8	C02250418	4	R1/8	C01250418	4	G1/4	C02250428	8	8	C00230808	8	8	C00230808	8	M16x1	C0230808
6	R1/4	C01250428	4	G1/4	C02250428	4	R3/8	C01250438	4	G3/8	C02250438	10	10	C00231008	10	10	C00231008	10	M20x1	C0231008
6	R3/8	C01250638	6	M5	C02250605	6	M5	C02250605	6	G1/4	C02250618	12	12	C00231208	12	12	C00231208	12	M22x1	C0231208
8	R1/2	C01250618	6	M6	C02250606	6	M6	C02250606	6	G3/8	C02250638	16	16	C00231608	16	16	C00231608	16		
8	R1/8	C01250618	6	G1/8	C02250618	6	R1/8	C01250618	4	M5	C02250618	8	8	C00231008	8	8	C00231008	8		
8	R1/4	C01250628	6	G1/4	C02250628	6	R1/4	C01250628	8	G1/4	C02250628	8	8	C00231008	8	8	C00231008	8		
8	R3/8	C01250638	6	G3/8	C02250638	6	R3/8	C01250638	8	G1/2	C02250648	8	8	C00231008	8	8	C00231008	8		
8	R1/2	C01250848	8	G1/8	C02250818	8	R1/8	C01250818	8	G1/2	C02250848	8	8	C00231008	8	8	C00231008	8		
10	R1/2	C01251028	8	G1/4	C02251028	8	R1/4	C01251028	10	G1/4	C02251028	10	10	C00231008	10	10	C00231008	10		
10	R3/8	C01251038	8	G3/8	C02251038	8	R3/8	C01251038	10	G3/8	C02251038	10	10	C00231008	10	10	C00231008	10		
10	R1/2	C01251038	8	G1/2	C02251038	8	R1/2	C01251038	12	G1/2	C02251038	12	12	C00231208	12	12	C00231208	12		
12	R1/8	C01251218	10	G1/4	C02251208	10	R1/4	C01251208	12	G1/4	C02251208	12	12	C00231208	12	12	C00231208	12		
12	R1/4	C01251228	10	G3/8	C02251208	10	R3/8	C01251208	12	G3/8	C02251208	12	12	C00231208	12	12	C00231208	12		
12	R3/8	C01251238	12	G1/2	C02251208	12	R1/2	C01251208	12	G1/2	C02251208	12	12	C00231208	12	12	C00231208	12		
16	R3/8	C01251648	12	G3/8	C02251638	12	R1/2	C01251648	12	G1/2	C02251648	16	16	C00231608	16	16	C00231608	16		

Cap (female plug)			Stem union			Stem union (unequal)			Plug		
O/D tube			O/D stem			O/D stem	O/D stem		O/D tube		
4	C00120400		4	C00220400		4	6	C00220604	4	C00040400	
6	C00120600		6	C00220600		6	8	C00220806	6	C00040600	
8	C00120800		8	C00220800		8	10	C00221008	8	C00040800	
10	C00121000		10	C00221000		10	12	C00221210	10	C00041000	
12	C00121200		12	C00221200		12	16	C00221612	12	C00041200	
16	C00121600		16	C00221600		16			16	C00041600	

Tee Fittings

Union tee			Swivel tee adaptor			Swivel tee adaptor			Swivel tee adaptor (female)			Stem tee (equal)			Stem side tee (equal)			Swivel side tee adaptor			Swivel side tee adaptor		
O/D tube	BSPT		O/D tube	BSPT		O/D tube	Metric & BSPP		O/D tube	Metric & BSPT		O/D tube	O/D stem		O/D tube	O/D stem		O/D tube	BSPT		O/D tube	Metric & BSPP	
4	R1/8	C0060400	4	R1/8	C0160418	4	M5	C0260405	4	M5	C0260405	4	4	C0060400	4	4	C0060400	4	R1/8	C0160418	4	M5	C0260405
4	R3/8	C0060600	4	R1/4	C0160428	4	M6	C0260406	4	M6	C0260406	6	6	C0060600	6	6	C0060600	6	R1/4	C0160428	6	M6	C0260406
6	R1/2	C0060800	4	R3/8	C0160438	4	R1/8	C0160418	4	R1/8	C0160418	8	8	C0060800	8	8	C0060800	8	R3/8	C0160438	8	M8	C0260408
10	R1/2	C0061000	6	R1/4	C0160628	6	G3/8	C0260605	6	M5	C0260605	12	12	C0061200	12	12	C0061200	12	R1/4	C0160628	6	M5	C0260605
12	R3/8	C0061200	6	R3/8	C0160638	6	M5	C0260605	6	M6	C0260606	8	8	C0061600	8	8	C0061600	8	R3/8	C0160638	6	M6	C0260606
16	R3/8	C0061600	8	R1/2	C0160818	8	M6	C0260606	6	G1/4	C0260628	8	8	C0062000	8	8	C0062000	8	R1/2	C0160818	8	M6	C0260606
			8	R3/8	C0160828	6	G1/4	C0260628	6	R3/8	C0160838	8	8	C0062400	8	8	C0062400	8	R1/8	C0160818	8	M8	C0260808
			8	R1/2	C0160838	6	G3/8	C0260808	6	R1/4	C0160828	8	8	C0062800	8	8	C0062800	8	R3/8	C0160838	8	M8	C0260808
			10	R1/4	C0161028	6	G1/2	C0260848	8	R1/2	C0160848	10	10	C0063200	10	10	C0063200	10	R1/8	C0161028	8	G1/4	C0261028
			12	R3/8	C0161238	10	R1/2	C0261038	10	R3/8	C0161238	12	12	C0063600	12	12	C0063600	12	R3/8	C0161238	10	G3/8	C0261038
			16	R1/2	C0161648	12	G3/8	C0261238	12	R1/2	C0161648	16	16	C0064000	16	16	C0064000	16	R1/2	C0161648	12	G3/8	C0261238

Flow Controllers

Banjo flow control (out)			Banjo flow control (out)			Shrouded banjo (out)			Shrouded banjo (out)			Swivel banjo (out)			Swivel banjo (out)			Banjo flow control (in)			Banjo flow control (in)		
O/D tube	BSPT		O/D tube	Metric & BSPP		O/D tube	BSPT		O/D tube	Metric & BSPP		O/D tube	BSPT		O/D tube	Metric & BSPP		O/D tube	BSPT		O/D tube	Metric & BSPP	
4	R1/8	C01A00418	3	M5	C0K510305	4	R1/8	C0T800418	4	M5	C0K50405	4	R1/8	C0T800418	4	M5	C0K50405	4	R1/8	C0SA00418	3	M5	C0L510305
4	R1/4	C01A00428	4	M5	C0K510405	4	R1/4	C0T800428	4	G1/8	C0K50418	4	R1/4	C0T800428	4	G1/8	C0K50418	4	R1/4	C0SA00428	4	M5	C0L510405
4	R3/8	C01A00438	4	M6	C0K510418	4	R1/8	C0T800418	4	G1/4	C0K50428	6	R1/8	C0T800418	6	G1/4	C0K50428	6	R1/8	C0SA00438	6	M6	C0L510418
6	R1/4	C01A00628	4	G1/4	C0K510428	6	R1/4	C0T800628	6	M5	C0K50605	6	R1/4	C0T800628	6	M5	C0K50605	6	R1/4	C0SA00628	6	G1/4	C0L510628
6	R3/8	C01A00638	6	M5	C0K510605	6	R3/8	C0T800638	6	G1/8	C0K50618	6	R3/8	C0T800638	6	G1/8	C0K50618	6	R3/8	C0SA00638	6	M5	C0L510605
8	R1/2	C01A00818	6	G1/8	C0K510818	6	R1/8	C0T800818	6	G1/4	C0K50828	8	R1/8	C0T800818	8	G1/4	C0K50828	8	R1/8	C0SA00818	8	G1/8	C0L510818
8	R1/4	C01A00828	6	G1/4	C0K510828	6	R1/4	C0T800828	6	G3/8	C0K50838	8	R1/4	C0T800828	8	G3/8	C0K50838	8	R1/4	C0SA00828	8	G1/4	C0L510828
8	R3/8	C01A00838	8	G3/8	C0K510838	8	R3/8	C0T800838	8	R1/8	C0K50818	8	R1/8	C0T800818	8	R1/8	C0K50818	8	R3/8	C0SA00838	8	G3/8	C0L510838
10	R1/2	C01A01048	8	G1/2	C0K510848	8	R1/2	C0T801028	8	G1/4	C0K50848	8	R1/2	C0T801028	8	G1/4	C0K50848	8	R1/2	C0SA00848	8	G1/8	C0L510848
10	R1/4	C01A01028	8	G1/4	C0K511028	8	R1/4	C0T801028	8	G3/8	C0K51038	10	R1/4	C0T801028	10	G3/8	C0K51038	10	R1/4	C0SA01028	10	G1/4	C0L511028
12	R3/8	C01A01238	10	G3/8	C0K511038	10	R3/8	C0T801238	10	G1/2	C0K51048	12	R3/8	C0T801238	12	G1/2	C0K51048	12	R3/8	C0SA01238	12	G3/8	C0L511238
12	R1/2	C01A01248	12	G1/2	C0K511248	12	R1/2	C0T801248	12	G1/4	C0K51248	12	R1/2	C0T801248	12	G1/4	C0K51248	12	R1/2	C0SA01248	12	G1/2	C0L51248

Additional Fittings

Banjo (with top port)			2x swivel elbow adaptor				3x swivel elbow adaptor				Single universal tee			
O/D tube	Metric & BSPT x z		O/D tube	Thread	BSPP	BSPT	O/D tube	Thread	BSPP	BSPT	O/D tube	Thread	BSPP	BSPT
4	M5	C00510405	4	1/8	C0B510418	C00510418	4	1/8	C0C510418	C00510418	4	1/8	C0A710418	C0N710418
4	R1/8	C0B510418	4	1/4	C0B510428	C00510428	4	1/4	C0C510428	C00510428	4	1/4	C0A710428	C0N710428
4	R1/4	C0B510438	4	3/8	C0B510438	C00510438	4	3/8	C0C510438	C00510438	4	3/8	C0A710438	C0N710438
6	M5	C00510605	4	1/2	C0B510448	C00510448	4	1/2	C0C510448	C00510448	4	1/2	C0A710448	C0N710448
6	R1/8	C0B510618	6	1/8	C0B510618	C00510618	6	1/8	C0C510618	C00510618	6	1/8	C0A710618	C0N710618
6	R1/4	C0B510628	6	1/4	C0B510628	C00510628	6	1/4	C0C510628	C00510628	6	1/4	C0A710628	C0N710628
6	R3/8	C0B510638	6	3/8	C0B510638	C00510638	6	3/8	C0C510638	C00510638	6	3/8	C0A710638	C0N710638
8	R1/8	C0B510818	8	1/8	C0B510818	C00510818	8	1/8	C0C510818	C00510818	8	1/8	C0A710818	C0N710818
8	R1/4	C0B510828	8	1/8	C0B510818	C00510818	8	1/8	C0C510818	C00510818	8	1/8	C0A710818	C0N710818
8	R3/8	C0B510838	8	3/8	C0B510838	C00510838	8	3/8	C0C510838	C00510838	8	3/8	C0A710838	C0N710838
10	R1/4	C0B511028	8	3/8	C0B510838	C00510838	8	3/8	C0C510838	C00510838	8	3/8	C0A710838	C0N710838
10	R1/4	C0B511038	8	3/8	C0B510843	C00510843	8	1/2	C0C510848	C00510848	8	1/2	C0A710848	C0N710848
12	R3/8	C0B511238	8	1/2	C0B511018	C00511018	8	1/2	C0C511018	C00511018	8	1/2	C0A711018	C0N711018
			10	1/4	C0B511028	C00511028	10	1/4	C0C511028	C00511028	10	1/4	C0A711028	C0N711028
			10	3/8	C0B511138	C00511138	10	3/8	C0C511138	C00511138	10	3/8	C0A711138	C0N711138
			12	1/8	C0B511448	C00511448	12	1/8	C0C511448	C00511448	12	1/8	C0A711448	C0N711448
			12	1/4	C0B511228	C00511228	12	1/4	C0C511228	C00511228	12	1/4	C0A711228	C0N711228
			12	3/8	C0B511238	C00511238	12	3/8	C0C511238	C00511238	12	3/8	C0A711238	C0N711238
			12	1/2	C0B511248	C00511248	12	1/2	C0C511248	C00511248	12	1/2	C0A711248	C0N711248

- > Port size: Ø 4 ... 12 mm O/D tube, BSP parallel and taper threads
- > Resistant to aggressive environments
- > Suitable for food and beverage applications
- > Very compact units
- > Easy tube insertion and removal for rapid assembly of pneumatic circuits
- > Positive tube anchorage
- > Straight adaptors feature internal hexagon for allen key
- > Swivel function on all elbows and tees



Technical features

Medium:

Compressed air
 (For other media please consult Technical Department)

Operating pressure:

Vacuum ... 15 bar (... 217 psi)
 (Dependent upon operating specification of tubing)

Vacuum:

-750 mm of Hg i.e. 99%

Tube sizes:

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

Thread sizes:

BSPT, BSPP, Metric M5

Tubing types:

PA 6, 11 or 12, PUR (98 Shore) and PTFE tubing

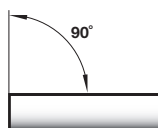
Ambient/Media temperature:

-15°C ... +225°C (+4 ... 437°F)

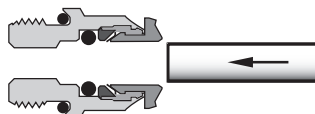
Materials:

Body, release sleeve and grab ring: Aisi 316L (1.4404) stainless steel
 'O'-ring & thread seal (BSPP): FPM
 Lubricants: FDA approved

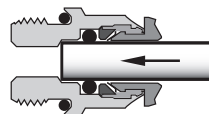
Method of assembly



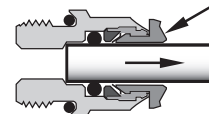
1. Ensure that the end of the tube is cleanly cut and square.



2. Push the tube through the release sleeve into the fitting.

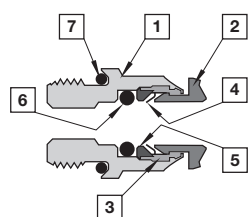


3. Continue pushing the tube through the 'O'-ring until it bottoms on the tube stop then pull back.



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

Components



- 1 Body
- 2 Release sleeve
- 3 Retainer
- 4 Grab ring
- 5 Bracking ring
- 6 'O'-ring
- 7 'O'-ring

Option selector

Thread type		S0 ★★★★★★		Thread size/tube size
Shape				Thread size/tube size

Straight adaptors and connectors

Straight adaptor (BSP taper)	Straight adaptor (BSP parallel)	Straight connector (tube to tube)	Bulkhead connector (tube to tube)
S0125	S0225	S0020	S0029
			
Page 3	Page 3	Page 3	Page 3

Elbow adaptors and connectors

90° Swivel elbow adaptor (BSP taper) S0147	90° Swivel elbow adaptor (BSP parallel) S0247	Elbow connector S0040
		
Page 3	Page 3	Page 4

Tee adaptors and connectors

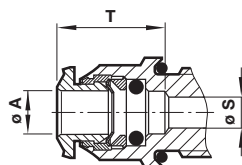
Swivel tee adaptor (BSP taper) S0167	Swivel tee adaptor (BSP parallel) S0267	Tee connector (tube x 3) S0060
		
Page 4	Page 4	Page 4

Accessories

Plug (BSP parallel) 66005	Sleeve adaptor (BSP parallel) 66022	Tee connector (BSP parallel) 66062
		
Page 5	Page 5	Page 5

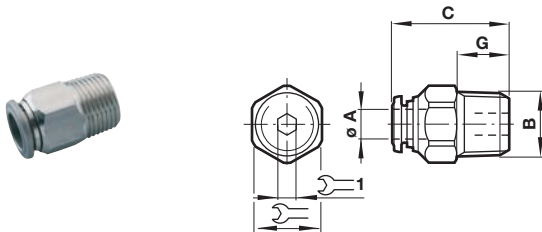
Technical data

Ø A O/D tube	Ø S	T *2)
4	3,1	14
6	4,1	16
8 (1/8" thread *1))	5,1	16
8 (1/4" thread *1))	8,1	16
10	8,1	20,5
12 (3/8" thread *1))	8,1	22,5
12 (1/2" thread *1))	10,1	22,5



*1) Straight fittings with threads have an internal hexagon to suit an Allen key - refer to tables below for sizes

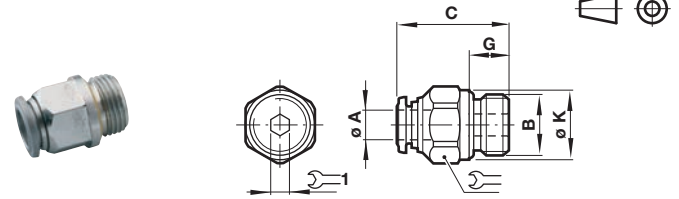
*2) Dimension with the release sleeve in the "IN" position

Straight adaptor, BSP taper
S0125


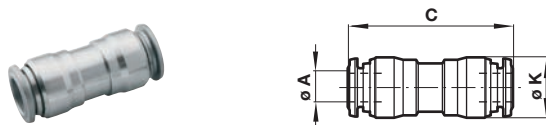
Ø A	B	C	G		 1	Weight (kg)	Model
4	R1/8	19	7,5	10	3	0,008	S01250418
4	R1/4	23	11	14	3	0,018	S01250428
6	R1/8	22,5	7,5	13	4	0,012	S01250618
6	R1/4	24,5	11	14	4	0,018	S01250628
8	R1/8	25,5	7,5	14	5	0,015	S01250818
8	R1/4	25	11	14	6	0,015	S01250828
10	R1/4	30,5	11	17	7	0,025	S01251028
10	R3/8	28	11,5	17	8	0,026	S01251038
12	R3/8	33,5	11,5	21	9	0,043	S01251238
12	R1/2	32	14	22	10	0,050	S01251248

Straight adaptor, BSP parallel
S0225

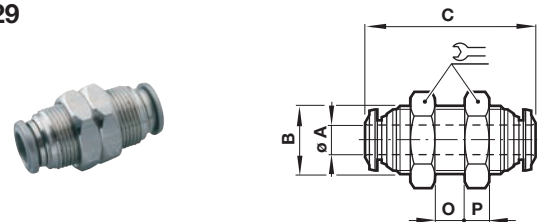
Dimensions in mm
 Projection/First angle



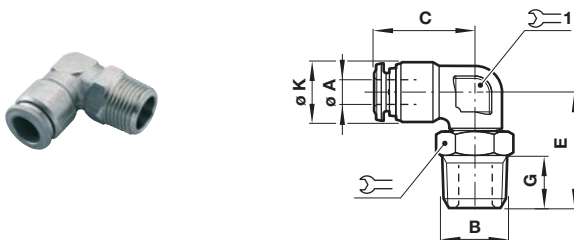
Ø A	B	C	G	Ø K		 1	Weight (kg)	Model
4	M5	20	4	8	10	2	0,009	S02250405
4	G1/8	19,5	6	13	10	3	0,008	S02250418
4	G1/4	19,5	8	15	15	3	0,015	S02250428
6	G1/8	23,5	6	13	13	4	0,013	S02250618
6	G1/4	23,5	8	15	15	4	0,018	S02250628
8	G1/8	25,5	6	13	14	5	0,015	S02250818
8	G1/4	23,5	8	15	15	6	0,016	S02250828
10	G1/4	30	8	16	17	8	0,026	S02251028
10	G3/8	27	9	20	17	8	0,026	S02251038
12	G3/8	34	9	21	21	8	0,047	S02251238
12	G1/2	31	10	25	22	10	0,049	S02251248

Straight connector, tube to tube
S0020


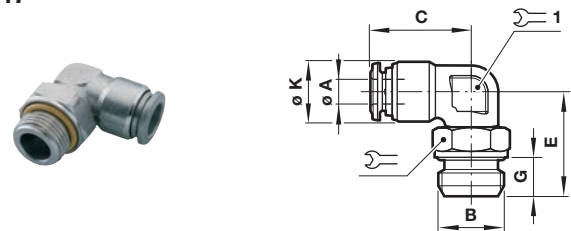
Ø A	C	Ø K	Weight (kg)	Model
4	31	10,5	0,010	S00200400
6	35	12,5	0,015	S00200600
8	36,5	14,5	0,019	S00200800
10	42	17,5	0,032	S00201000
12	48	20,5	0,049	S00201200

Bulkhead connector, tube to tube
S0029


Ø A	B	C	O max.	P	1	Weight (kg)	Model
4	M12x1	31	7	4,5	17	0,024	S00290400
6	M14x1	35	9,5	5	17	0,028	S00290600
8	M16x1	37	10,5	5,5	19	0,037	S00290800
10	M20x1	42	12,5	6	24	0,067	S00291000
12	M22x1	48	16,5	6	26	0,088	S00291200

90° Swivel elbow adaptor, BSP taper
S0147


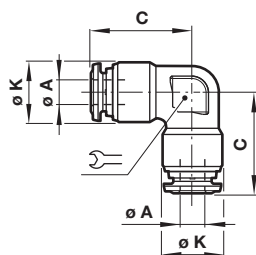
Ø A	B	C	E	G	Ø K		 1	Weight (kg)	Model
4	R1/8	18	17,5	7,5	10	11	9	0,014	S01470418
4	R1/4	18	21,5	11	10	14	9	0,019	S01470428
6	R1/8	21	19,5	7,5	12,5	11	11	0,019	S01470618
6	R1/4	21	23,5	11	12,5	14	11	0,023	S01470628
8	R1/8	22,5	20	7,5	14,5	11	12	0,022	S01470818
8	R1/4	22,5	24	11	14,5	14	12	0,027	S01470828
10	R1/4	26	25,5	11	17,5	17	16	0,044	S01471028
10	R3/8	26	27	11,5	17,5	17	16	0,051	S01471038
10	R1/2	26	30,5	14	17,5	22	16	0,060	S01471048
12	R3/8	30,5	30,5	11,5	20,5	18	19	0,072	S01471238
12	R1/2	30,5	33	14	20,5	22	19	0,081	S01471248

90° Swivel elbow adaptor, BSP parallel
S0247


Ø A	B	C	E	G	Ø K		 1	Weight (kg)	Model
4	M5	18	15	4	10	8	9	0,011	S02470405
4	G1/8	18	17	6	10	13	9	0,015	S02470418
4	G1/4	18	19,5	8	10	15	9	0,018	S02470428
6	G1/8	21	19	6	12,5	13	11	0,020	S02470618
6	G1/4	21	21,5	8	12,5	15	11	0,023	S02470628
8	G1/8	22,5	19,5	6	14,5	13	12	0,024	S02470818
8	G1/4	22,5	21,5	8	14,5	15	12	0,027	S02470828
10	G1/4	26	23	8	17,5	15	16	0,043	S02471028
10	G3/8	26	26,5	9	17,5	21	16	0,060	S02471038
10	G1/2	26	29	10	17,5	22	16	0,071	S02471048
12	G3/8	30,5	29	9	20,5	21	19	0,080	S02471238
12	G1/2	30,5	31,5	10	20,5	22	19	0,092	S02471248

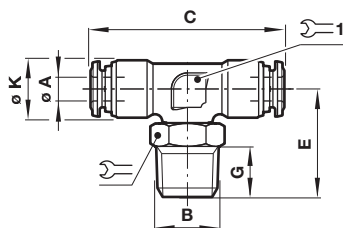
Elbow connector S0040

Dimensions in mm
Projection/First angle



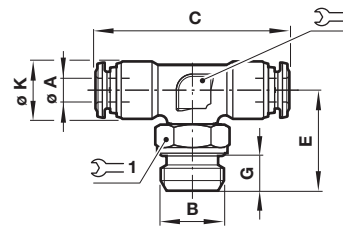
Ø A	C	Ø K		Weight (kg)	Model
4	18	10	9	0,013	S00400400
6	21	12,5	11	0,020	S00400600
8	22,5	14,5	12	0,025	S00400800
10	26	17,5	16	0,048	S00401000
12	30,5	20,5	19	0,075	S00401200

Swivel tee adaptor, BSP taper S0167



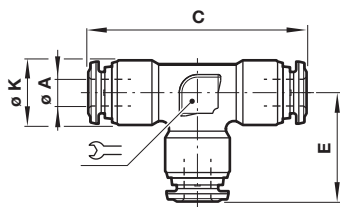
Ø A	B	C	E	G	Ø K		1	Weight (kg)	Model
4	R1/8	36	18,5	7,5	10	9	11	0,019	S01670418
4	R1/4	36	22,5	11	10	9	14	0,023	S01670428
6	R1/8	42	19,5	7,5	12,5	11	11	0,027	S01670618
6	R1/4	42	23,5	11	12,5	11	14	0,031	S01670628
8	R1/8	45	20,5	7,5	14,5	12	11	0,032	S01670818
8	R1/4	45	24,5	11	14,5	12	14	0,037	S01670828
10	R1/4	52	26	11	17,5	16	17	0,060	S01671028
10	R3/8	52	27,5	11,5	17,5	16	17	0,067	S01671038
10	R1/2	52	31	14	17,5	16	22	0,077	S01671048
12	R3/8	61	30,5	11,5	20,5	19	18	0,098	S01671238
12	R1/2	61	33	14	20,5	19	22	0,107	S01671248

Swivel tee adaptor, BSP parallel S0267

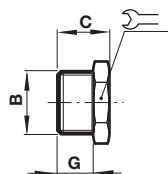


Ø A	B	C	E	G	Ø K		1	Weight (kg)	Model
4	M5	36	15	4	10	9	8	0,016	S02670405
4	G1/8	36	18	6	10	9	13	0,020	S02670418
4	G1/4	36	20,5	8	10	9	15	0,023	S02670428
6	G1/8	42	19	6	12,5	11	13	0,028	S02670618
6	G1/4	42	21,5	8	12,5	11	15	0,031	S02670628
8	G1/8	45	20	6	14,5	12	13	0,033	S02670818
8	G1/4	45	22	8	14,5	12	15	0,036	S02670828
10	G1/4	52	23,5	8	17,5	16	15	0,059	S02671028
10	G3/8	52	27	9	17,5	16	21	0,076	S02671038
10	G1/2	52	29,5	10	17,5	16	22	0,088	S02671048
12	G3/8	61	29	9	20,5	19	21	0,106	S02671238
12	G1/2	61	19	10	20,5	19	22	0,118	S02671248

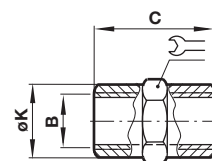
Tee connector, tube x 3 S0060



Ø A	C	E	Ø K		Weight (kg)	Model
4	36	18	10	9	0,017	S00600400
6	42	21	12,5	11	0,027	S00600600
8	45	22,5	14,5	12	0,035	S00600800
10	52	26	17,5	16	0,063	S00601000
12	61	30,5	20,5	19	0,101	S00601200

**Plug
66005**


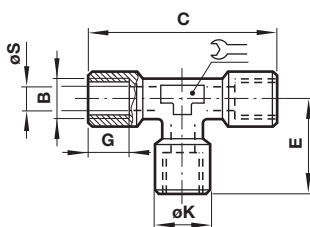
B	C	G		Weight (kg)	Model
G 1/8	10	6,5	14	0,007	660050018
G 1/4	13	9	17	0,014	660050028
G 3/8	13,5	9,5	19	0,017	660050038
G 1/2	14,5	10	24	0,026	660050048

**Sleeve adaptor
66022**


Dimensions in mm
Projection/First angle



B	C	Ø K		Weight (kg)	Model
G 1/8	15	13,5	14	0,011	660221818
G 1/4	22	16,5	17	0,021	660222828
G 3/8	24	21,5	22	0,033	660223838
G 1/2	30	25,5	27	0,062	660224848

**Tee connector
66062**


B	C	E	G	Ø K	Ø S		Weight (kg)	Model
G 1/8	37	18,5	8,5	18,5	6	12	0,032	660620018
G 1/4	49	24,5	11	24,5	8	12	0,050	660620028
G 3/8	54	27	12	27	11	15	0,077	660620038
G 1/2	64	32	15	32	15	20	0,146	660620048

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.