

PNEUFIT 10 series

Push-in fittings



- > Port size: Ø 4 ... 16 mm O/D tube, ISO G, ISO R, ISO Rc and NPT threads
- > All BSP taper threads pre-coated with non-PTFE based sealant
- > Very compact units
- > Straight adaptors feature internal hexagon for allen key
- > Easy tube insertion for rapid assembly of pneumatic circuits
- > Silicon free, O-rings
- > Positive tube anchorage



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)

Standard:

Conforms to BS ISO 14743

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, 16 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:

Body: Nickel plated brass

Collet: Nickel plated brass

O-rings: VMQ free NBR

(FKM on request)

Washer (Banjo): PA

Thread sealant: Non - PTFE

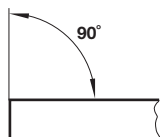
thread sealant (taper threads)

Elbow flow controls and function

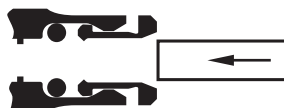
fittings: See individual product

details

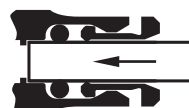
Method of assembly



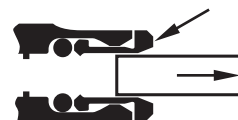
1. Ensure that the end of the tube is cut square and is free from burrs.



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

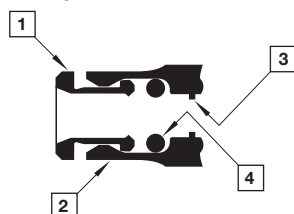


3. Continue pushing the tube through the 'O'-ring until it bottoms on the tube stop then pull back.



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

Straight adaptor, BSP taper 10125  Page 4	Straight adaptor, BSP parallel 10225  Page 4	Straight adaptor (internal hex.), BSP parallel and metric 10225 & 1022A  Page 4	Straight adaptor, female BSP parallel 10226  Page 4	Straight connector 10020  Page 5	Unequal straight connector 10020  Page 5	Straight connector inch tube to mm tube 12037  Page 5
Cap/female plug 10012  Page 5	Straight stem adaptor, BSP taper 10115  Page 5	Straight stem adaptor, BSP parallel 10215  Page 6	Bulkhead connector 10029  Page 6	Bulkhead adaptor, female BSP parallel 10232  Page 6	Reducing connector 10023  Page 6	Expanding connector 10023  Page 6
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Elbow adaptors and connectors

Swivel elbow adaptor, BSP taper 10147  Page 8	Fixed elbow adaptor, BSP taper 10145  Page 8	Swivel elbow adaptor, BSP parallel 10247  Page 9	Elbow connector 10040  Page 9	Extended swivel elbow adaptor, BSP taper 10154  Page 9	45° Swivel elbow adaptor, BSP parallel 10257  Page 9	Bulkhead swivel elbow connector 10049  Page 10
Stem elbow connector 10043  Page 10						

Tee, Y adaptors and connectors

Swivel tee adaptor, BSP taper 10167  Page 10	Swivel tee adaptor, BSP parallel 10267  Page 10	Tee connector 10060  Page 11	Swivel side tee adaptor, BSP taper 10168  Page 11	Swivel side tee adaptor, BSP parallel 10268  Page 11
Swivel Y-adaptor, BSP taper 10188  Page 12	Swivel Y-adaptor, BSP parallel 10288  Page 12	Y-connector 10082  Page 12		

Elbow flow controls and banjo flow controls

Elbow flow control,
regulating out, BSP
taper
10TA0



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Elbow flow control,
regulating out, BSP
parallel
10KA0



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



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Elbow banjo assembly
regulating-out BSP
parallel
16K51



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Banjos, banjo bodies and bolts

Banjo elbow non-
regulating, BSP parallel
to tube Push-in
10A51



Page 14

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



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



Page 14

Banjo elbow body to
tube push-in
10O51



Page 14

Banjo elbow body to
BSP parallel
16O51



Page 14

Banjo tee body to tube
push-in
10O71



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



Page 15

Banjo bolt, regulating
out, BSP parallel
20K00



Page 16

Banjo bolt, regulating
in, BSP parallel
20L00



Page 16

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



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Accessories

Silencer
10011



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Plug
11004



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Function fittings

Pilot operated check
valve, BSP taper
101GA



Page 17

Pilot operated check
valve, BSP parallel
102GA



Page 17

Pressure reduction valve,
BSP parallel
102GB



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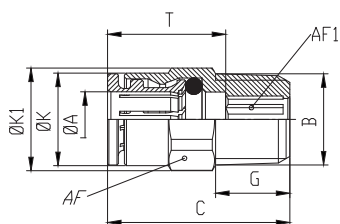
Pressure sensor valve,
BSP parallel
102GD



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Dimensions

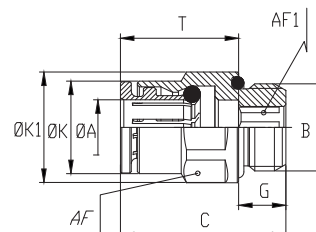
Straight adaptor, BSP taper 10125



ØA	B	C	G	AF	AF1	ØK	ØK1	T	Weight (g)	Model
4	R1/8	19	7,5	12	2,5	8,8	13,2	14	10	101250418
4	R1/4	22,5	11	14	2,5	8,8	15,2	14	19	101250428
5	R1/8	20	7,5	12	3	9,8	13,2	15	11	101250518
5	R1/4	23	11	14	3	9,8	15,2	15	19	101250528
6	R1/8	22	7,5	12	4	11,7	13,2	16	11	101250618
6	R1/4	24,5	11	14	4	11,7	15,2	16	18	101250628
8	R1/8	27	7,5	14	5	13,7	15,2	17,5	16	101250818
8	R1/4	27	11	14	6	13,7	15,2	17,5	18	101250828
8	R3/8	27,5	11,5	19	6	13,7	20,5	17,5	35	101250838
8	R1/2	28,5	14	22	6	13,7	24,5	17,5	53	101250848
10	R1/8	29,5	7,5	17	5	15,4	18,5	20,2	19	101251018
10	R1/4	33	11	17	7	15,4	18,5	20,2	27	101251028
10	R3/8	28,5	11,5	19	8	15,4	20,5	20,2	31	101251038
10	R1/2	28,5	14	22	8	15,4	24,5	20,2	47	101251048
12	R1/4	32	11	19	7	18,3	20,5	19,2	29	101251228
12	R3/8	31	11,5	19	9	18,3	20,5	19,2	33	101251238
12	R1/2	29,5	14	22	10	18,3	24,5	19,2	49	101251248
14	R3/8	33,5	11,5	22	9	20,5	24,5	20,2	40	101251438
14	R1/2	30,5	14	22	12	20,5	24,5	20,2	43	101251448
16	R1/2	33,5	14	24	12	23,5	26,5	23	59	101251648

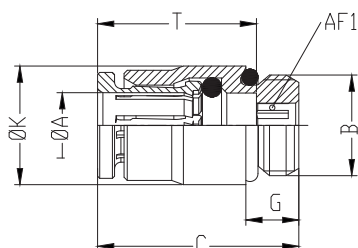
Straight adaptor, BSP parallel 10225

Dimensions in mm
Projection/First angle



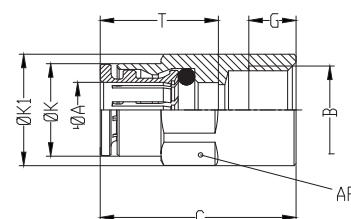
ØA	B	C	G	ØK	ØK1	T	AF	AF1	Weight (g)	Model
4	G1/8	19	6	8,8	13,5	14	12	2,5	10	102250418
4	G1/4	20,5	7	8,8	16,4	14	15	2,5	14	102250428
5	G1/8	21	6	8,8	13,5	15	12	2,5	11	102250518
5	G1/4	21	7	8,8	16,4	15	15	2,5	15	102250528
6	G1/8	21	6	11,7	13,5	16	12	4	10	102250618
6	G1/4	22	7	11,7	16,4	16	15	4	13	102250628
8	G1/8	26	6	13,7	15,2	17,5	14	5	15	102250818
8	G1/4	24,5	7	13,7	16,4	17,5	15	6	17	102250828
8	G3/8	23	7	13,7	20,5	17,5	19	6	27	102250838
8	G1/2	24	8	13,7	24,8	17,5	22	8	39	102250848
10	G1/8	30	7	15,4	18,5	20,2	17	5	26	102251018
10	G1/4	30	7	15,4	18,5	20,2	17	7	26	102251028
10	G3/8	24,5	7	15,4	20,5	20,2	19	8	27	102251038
10	G1/2	25	8	15,4	24,8	20,2	22	8	39	102251048
12	G1/4	29,5	7	18,3	20,5	19,2	19	7	29	102251228
12	G3/8	24	7	18,3	20,5	19,2	19	9	24	102251238
12	G1/2	24,5	8	18,3	24,8	19,2	22	9	37	102251248
14	G3/8	30,5	7	20,5	24,5	20,2	22	10	38	102251438
14	G1/2	25,5	8	20,5	24,8	20,2	22	10	35	102251448
16	G1/2	33,5	8	23,5	26,5	23	24	-	49	102251648

Straight adaptor (internal hex.), BSP parallel and metric 10225 & 1022A



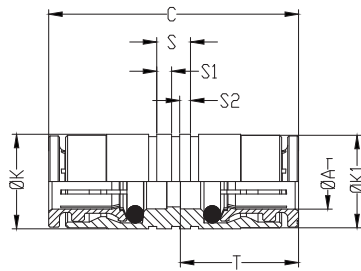
ØA	B	C	G	ØK	T	AF1	Weight (g)	Model
4	M3	18	3	8,5	14	1,5	4	102250403
4	M5	20	4	8,8	14	2	4	102250405
4	G1/8	18	5	11,2	14,0	2,5	9	1022A0418
5	M5	21	4	9,8	15	2	5	102250505
6	M5	21	4	10,4	15	2	6	102250605
6	G1/8	19	5	11,2	15,0	4	7	1022A0618
8	G1/8	23,5	5	12,4	16,2	5	9	1022A0818

Female straight adaptor, female parallel BSP 10226



ØA	B	C	G	ØK	ØK1	T	AF	Weight (g)	Model
4	G1/8	24	6	9	13	14,0	12	14	102260418
4	G1/4	26	7	9	16,5	14,0	15	28	102260428
6	G1/8	26	6	11,7	13	16,0	12	14	102260618
6	G1/4	27,5	7	11,9	16,5	16,0	15	23	102260628
8	G1/8	27	6	13,7	15,2	17,5	14	16	102260818
8	G1/4	29	7	13,7	16,5	17,5	15	23	102260828
10	G1/4	31,5	7	15,4	18,5	20,2	17	29	102261028
10	G3/8	33	8	15,4	20	20,2	17	32	102261038
12	G3/8	32	8	18,3	20,5	19,2	19	37	102261238
12	G1/2	36	9,5	18,3	24	19,2	19	49	102261248

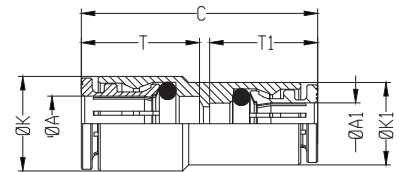
Straight connector 10020



ØA	C	ØK	ØK1	S	S1	S2	T	Weight (g)	Model
4	29	10	10	5	2,2	1,6	14,0	11	100200400
5	31	10	10	5	2,2	1,6	15,0	15	100200500
6	34	12	12	5	2,2	1,6	16,0	16	100200600
8	37	14	14	5	2,2	1,6	17,5	23	100200800
10	41,5	17	17	5	2,2	1,6	20,2	33	100201000
12	39,5	19	19	5,2	2,2	1,6	19,2	40	100201200
14	41,5	21	21	5,2	2,2	1,6	20,2	47	100201400

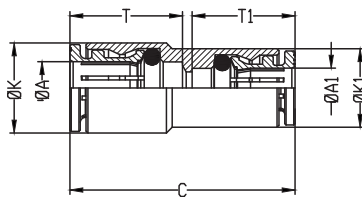
Unequal Straight connector 10020

Dimensions in mm
Projection/First angle



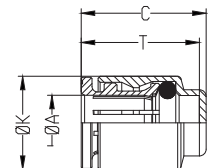
ØA	ØA1	ØK	ØK1	T	T1	C	Weight (g)	Model
6	4	12,0	9	16,0	14,0	31,5	12	100200604
8	6	14,0	12,2	17,5	16,0	35	19	100200806
10	8	16,0	14,0	20,2	17,5	39	25	100201008
12	10	19,0	16,0	19,2	20,2	40,5	35	100201210

Straight connector inch tube to mm tube 12037



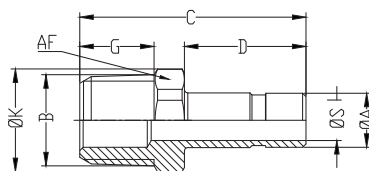
ØA	ØA1	C	ØK	ØK1	T	T1	Weight (g)	Model
1/4	6	1,32	0,47	0,47	0,64	0,63	16	120370406
3/8	10	1,63	0,66	0,66	0,79	0,80	33	120370610
1/2	12	1,56	0,74	0,74	0,76	0,76	40	120370712

Cap / Female Plug 10012



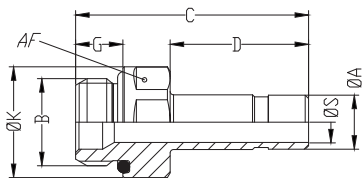
ØA	C	ØK	T	Weight (g)	Model
4	15	8,8	14	4	100120400
6	17	11,8	16	7	100120600
8	18,5	13,8	17,5	9	100120800
10	21	15,8	20,2	12	100121000
12	20	17,8	19,2	15	100121200

Straight stem adaptor, BSP taper 10115



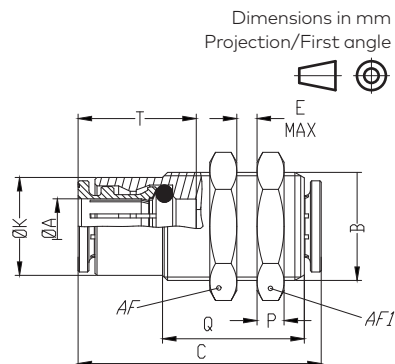
ØA	B	C	D	G	ØK	ØS	AF	Weight (g)	Model
4	R1/8	28,5	16,5	7,5	13,2	2	12	10	101150418
6	R1/8	30	18,0	7,5	13,2	4	12	10	101150618
6	R1/4	33,5	18,0	11	15,2	4	14	16	101150628
8	R1/8	32,5	20,5	7,5	13,2	5,5	12	11	101150818
8	R1/4	36	20,5	11	15,2	6	14	17	101150828
10	R1/4	38,5	23,0	11	15,2	8	14	18	101151028
10	R3/8	39,5	23,0	11,5	20,5	8	19	30	101151038
12	R3/8	40,5	24,0	11,5	20,5	10	19	30	101151238
12	R1/2	43,5	24,0	14	24,5	10	22	48	101151248

Straight stem adaptor, BSP parallel 10215



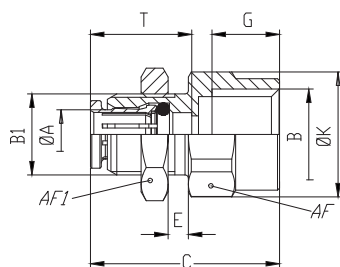
ØA	B	C	D	G	ØK	ØS	AF	Weight (g)	Model
4	G1/8	28,5	16,5	6	13,5	2	12	10	102150418
6	G1/8	30	18	6	13,5	4	12	10	102150618
6	G1/4	32	18	7	16,4	4	15	18	102150628
8	G1/8	32,5	20,5	6	13,5	6	12	11	102150818
8	G1/4	34,5	20,5	7	16,4	6	15	18	102150828
8	G3/8	34,5	20,5	7	20,5	6	19	25	102150838
10	G1/4	37	23	7	16,4	8	15	18	102151028
10	G3/8	37	23	7	20,5	8	19	27	102151038
12	G3/8	38	24	7	20,5	10	19	27	102151238
12	G1/2	40	24	8	24,8	10	22	38	102151248

Bulkhead connector 10029



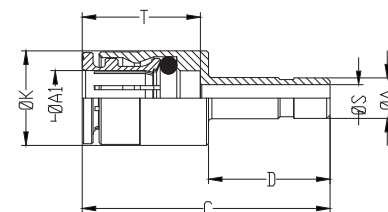
ØA	B	C	E	ØK	P	Q	T	AF	AF1	Weight (g)	Model
4	M10X1	29	10,5	8,8	4	20	14	14	16		100290400
5	M12X1	31	10,5	9,8	4	20	15	17	17	25	100290500
6	M14X1	33	10,5	12,5	4	20	16	17	17	28	100290600
8	M16X1	36	11,5	14,5	4	21	17,5	19	19	35	100290800
10	M18X1	41,5	13	16,3	4,5	23,5	20,2	22	22	51	100291000
12	M20X1	39,5	14,5	18,8	4,5	25	19,2	24	24	56	100291200
14	M22X1	41,5	17,5	20,5	5,5	30	20,2	27	27	82	100291400

Bulkhead adaptor, female BSP parallel 10232



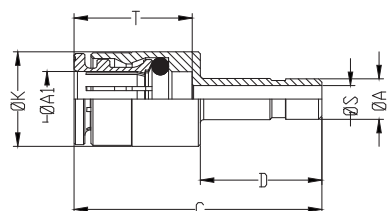
ØA	B	B1	C	E	G	ØK	T	AF	AF1	Weight (g)	Model
6	M12X1	G1/8	24,5	8,5	6	16,4	15	15	17	19	102320618
6	M12X1	G1/4	26	6,5	7	18,5	16	17	17	22	102320628
8	M15X1	G1/4	28,5	9,5	7	18,5	17,5	17	19	26	102320828
10	M18X1	G3/8	32,5	12	8	24,5	20,2	22	22	43	102321038

Reducing connector 10023



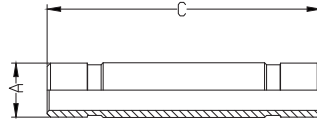
ØA	ØA1	C	D	ØK	ØS	T	Weight (g)	Model
5	4	33	18	9	3	14	8	100230504
6	4	29,5	18	9	3,5	14	8	100230604
6	5	34	18	10	4	15	9	100230605
8	4	32	20,5	9	3,5	14	10	100230804
8	5	33	20,5	10	4,5	15	10	100230805
8	6	34	20,5	12,7	5,5	16	12	100230806
10	4	31,5	23	10,1	3,5	14	16	100231004
10	6	36,5	23	12,7	5,5	16	17	100231006
10	8	38	23	14	7,5	18	15	100231008
12	4	37	24	12,1	3,5	14	28	100231204
12	6	33,5	24	12,1	5,5	16	21	100231206
12	8	39	24	14	7,5	18	22	100231208
12	10	40,5	24	16,5	9,5	20	27	100231210
14	6	37,5	28	14,1	5,5	16	34	100231406
14	8	38,5	28	14,1	7,5	18	30	100231408
14	10	44,5	28	16,5	9,5	20	33	100231410
14	12	43,5	28	18,8	11,5	19	27	100231412

Expanding connector 10023



ØA	ØA1	C	D	ØK	T	ØS	Weight (g)	Model
4	6	33,5	16,5	12,7	16	2	11	100230406
6	8	36,5	18	14	17,5	4	15	100230608

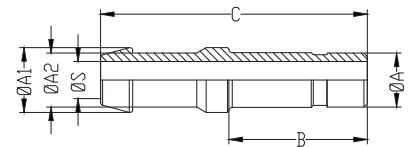
Straight stem 10022



ØA	C	Weight (g)	Mod.
4	32,5	3	100220400
6	35,5	7	100220600
8	40,5	10	100220800
10	46	13	100221000
12	48	17	100221200

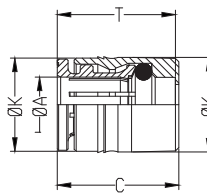
Stem connector, hose bore 10019

Dimensions in mm
Projection/First angle



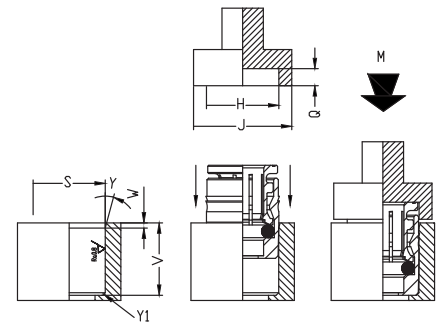
ØA	ØA1	ØA2	B	C	ØS	Weight (g)	Model
6	6,5	5	18,0	36	2,7	5	100190605
6	8	6,5	18,0	36	4	6	100190606
8	8	6,5	20,5	37,5	4,3	7	100190806
8	9,5	8	20,5	39,5	5,5	10	100190808
10	12	10	23,0	43	8	13	100191010
12	15	12,5	24,0	44	10	18	100191212

Cartridge connector 10036



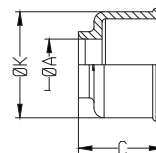
ØA	C	ØK	ØK1	ØS (+0.01/-0.04)	T	V	W	Y	Y1	Weight (g)	Model
4	14,5	8,6	9	8,75	14	11	0,5	15°	0,5X45°	4	100360400
6	16,5	11,8	12,2	11,95	16	12	0,5	15°	0,5X45°	8	100360600
8	18	13,8	14,2	13,95	17,5	14	0,5	15°	0,5X45°	11	100360800
10	20,5	15,8	16,2	15,95	20,2	16,5	0,5	15°	0,5X45°	15	100361000

Insertion & tool 10036



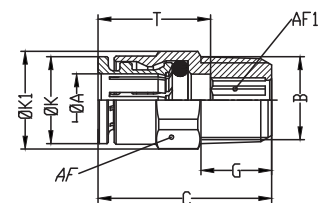
H	J	M Min (Kg)	M Max (Kg)	Q (+0.1/ -0.0)	ØS (+0.01/ -0.04)	V	W	Y	Y1	Model
8,8	14	200	360	3,3	8,75	11	0,5	15°	0,5X45°	100360400
12	17	160	570	3,8	11,95	12	0,5	15°	0,5X45°	100360600
14	19	140	400	3,3	13,95	14	0,5	15°	0,5X45°	100360800
16	21	150	650	3,5	15,95	16,5	0,5	15°	0,5X45°	100361000

Projective cap 10000



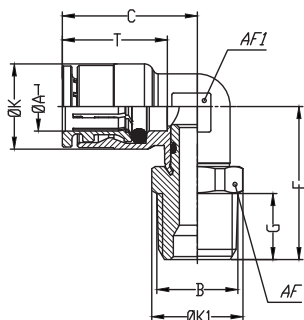
ØA	C	ØK	Weight (g)	Model
4	10,7	10,7	1	100000400
5	11	11,7	1	100000500
6	11,5	13,7	1	100000600
8	14,5	15,7	1	100000800
10	13,2	18,5	1	100001000
12	15,5	20,7	2	100001200

Straight adaptor Metric O/D Tube to NPTF (male) thread 10425



ØA	B	C	ØK	ØK1	G	T	AF	AF1	Weight (g)	Model
6	1/8 NPTF	0,93	0,46	0,52	0,31	0,63	0,47	0,16	11	104250618
6	1/4 NPTF	1,04	0,46	0,60	0,47	0,63	0,55	0,16	20	104250628
6	3/8 NPTF	1,06	0,46	0,81	0,47	0,63	0,75	0,16	37	104250638
10	1/8 NPTF	1,18	0,61	0,73	0,31	0,80	0,67	0,20	22	104251018
10	1/4 NPTF	1,34	0,61	0,73	0,47	0,80	0,67	0,28	28	104251028
10	3/8 NPTF	1,14	0,61	0,81	0,47	0,80	0,75	0,28	33	104251038
10	1/2 NPTF	1,16	0,61	0,96	0,61	0,80	0,87	0,28	51	104251048
12	1/4 NPTF	1,30	0,72	0,81	0,47	0,76	0,75	0,28	30	104251228
12	3/8 NPTF	1,24	0,72	0,81	0,47	0,76	0,75	0,39	32	104251238
12	1/2 NPTF	1,18	0,72	0,96	0,61	0,76	0,87	0,28	47	104251248

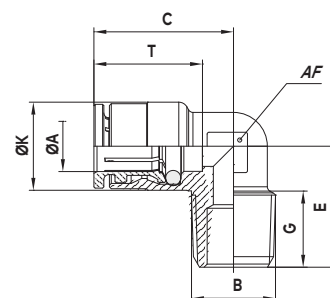
Swivel elbow adaptor, BSP taper 10147



ØA	B	C	E	G	ØK	ØK1	T	AF	AF1	Weight (g)	Model
4	R1/8	17,5	20,5	7,5	9	13,2	14	12	8	15	101470418
4	R1/4	17,5	24	11	9	15,2	14	14	8	25	101470428
5	R1/8	20,5	20,5	7,5	10	13,2	15	12	9	16	101470518
5	R1/4	20,5	24	11	10	15,2	15	14	9	26	101470528
6	R1/8	20	21	7,5	12,7	13,2	16	12	9	21	101470618
6	R1/4	20	24,5	11	12,7	15,2	16	14	9	28	101470628
6	R3/8	20	25,5	11,5	12,7	20,5	16	19	9	39	101470638
8	R1/8	22,5	22	7,5	14,2	13,2	17,5	12	11	22	101470818
8	R1/4	22,5	25,5	11	14,2	15,2	17,5	14	11	29	101470828
8	R3/8	22,5	27	11,5	14,2	20,5	17,5	19	11	47	101470838
8	R1/2	22,5	29,5	14	14,2	24,5	17,5	22	11	65	101470848
10	R1/8	26	24,5	7,5	16,5	15,2	20,2	14	13	37	101471018
10	R1/4	26	28	11	16,5	15,2	20,2	14	13	42	101471028
10	R3/8	26	29	11,5	16,5	20,5	20,2	19	13	45	101471038
10	R1/2	26	32	14	16,5	24,5	20,2	22	13	66	101471048
12	R1/4	26,5	29,5	11	19,5	18,5	19,2	17	15	51	101471228
12	R3/8	26,5	30	11,5	19,5	20,5	19,2	19	15	58	101471238
12	R1/2	26,5	33	14	19,5	24,8	19,2	22	15	58	101471248
14	R3/8	28,5	31	11,5	21,5	20,5	20,2	19	17	57	101471438
14	R1/2	28,5	34	14	21,5	24,8	20,2	22	17	73	101471448

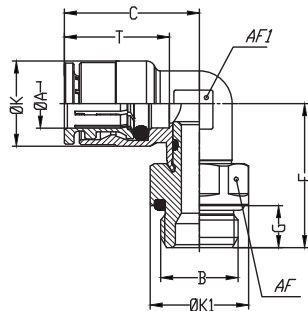
Fixed elbow adaptor, BSP taper 10145

Dimensions in mm
Projection/First angle



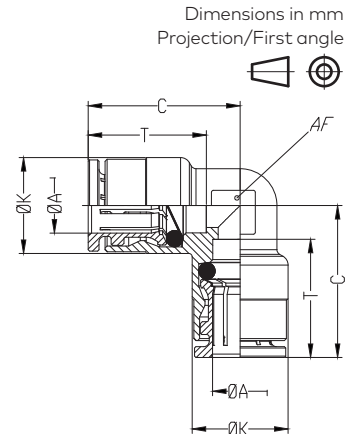
ØA	B	C	E	G	ØK	T	AF	Weight (g)	Model
4	R1/8	17,5	15	7,5	9	14,0	8	10	101450418
4	R1/4	19	19,5	12	9	14,0	9	15	101450428
6	R1/8	20	15,5	7,5	12,7	16,0	9	11	101450618
6	R1/4	20	19,5	12	12,7	16,0	9	18	101450628
8	R1/8	22,5	17	6,5	14,2	17,5	11	18	101450818
8	R1/4	22,5	19,5	12,5	14,2	17,5	11	18	101450828
8	R3/8	24,5	21,5	12,5	14,2	17,5	12	26	101450838
10	R1/4	26	21,5	12	16,5	20,2	13	27	101451028
10	R3/8	26	21,5	12	16,5	20,2	13	28	101451038
10	R1/2	26,5	29	16	16,5	20,2	15	51	101451048
12	R1/4	26,5	22,5	13	19,5	19,2	15	36	101451228
12	R3/8	26,5	22	11,5	19,5	19,2	15	34	101451238
12	R1/2	26,5	29	16	19,5	19,2	15	54	101451248

Swivel elbow adaptor, BSP parallel 10247



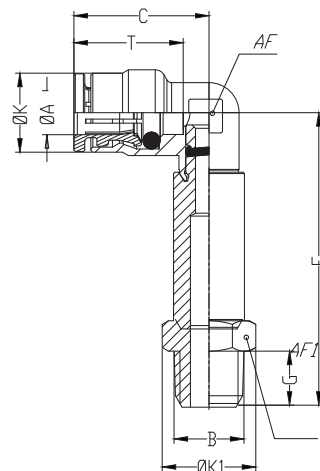
ØA	B	C	E	G	ØK	ØK1	T	AF	AF1	Weight (g)	Model
4	M3	17,5	16	3	9	8,8	14,0	8	8	12	102470403
4	M5	17,5	17	4	9	8,8	14,0	8	8	12	102470405
4	G1/8	17,5	20,5	6	9	13,5	14,0	12	8	15	102470418
4	G1/4	17,5	22,5	7	9	16,4	14,0	15	8	25	102470428
5	M5	20,5	17	4	10	8,8	15,0	8	9	13	102470505
5	G1/8	20,5	20,5	6	10	13,5	15,0	12	9	16	102470518
5	G1/4	20,5	22,5	7	10	16,4	15,0	15	9	26	102470528
6	M5	20	17,5	4	12,7	10,9	16,0	10	9	14	102470605
6	G1/8	20	21	6	12,7	13,5	16,0	12	9	19	102470618
6	G1/4	20	23	7	12,7	16,4	16,0	15	9	27	102470628
8	G1/8	22,5	22	6	14,2	13,5	17,5	12	11	22	102470818
8	G1/4	22,5	24	7	14,2	16,4	17,5	15	11	28	102470828
8	G3/8	22,5	24	7	14,2	20,5	17,5	19	11	45	102470838
8	G1/2	22,5	26	8	14,2	24,8	17,5	22	11	53	102470848
10	G1/8	26	24,5	6	16,5	15,2	20,2	14	13	37	102471018
10	G1/4	26	26,5	7	16,5	16,4	20,2	15	13	41	102471028
10	G3/8	26	26,5	7	16,5	20,5	20,2	19	13	45	102471038
10	G1/2	26	28,5	8	16,5	24,8	20,2	22	13	53	102471048
12	G1/4	26,5	27	7	19,5	18,5	19,2	17	15	51	102471228
12	G3/8	26,5	27,5	7	19,5	20,5	19,2	19	15	56	102471238
12	G1/2	26,5	29,5	8	19,5	24,8	19,2	22	15	58	102471248
14	G3/8	28,5	28,5	7	21,5	20,5	20,2	19	17	53	102471438
14	G1/2	28,5	30,5	8	21,5	24,8	20,2	22	17	61	102471448

Elbow connector 10040



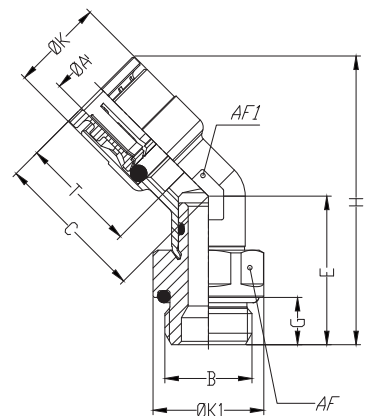
ØA	C	ØK	T	AF	Weight (g)	Model
4	17,5	9,0	14,0	8	8	100400400
5	20,5	10,0	15,0	9	15	100400500
6	20	12,7	16,0	9	17	100400600
8	22,5	14,2	17,5	11	22	100400800
10	26	16,5	20,2	13	30	100401000
12	26,5	19,5	19,2	15	44	100401200
14	28,5	21,5	20,2	17	71	100401400

Extended swivel elbow adaptor, BSP taper 10154



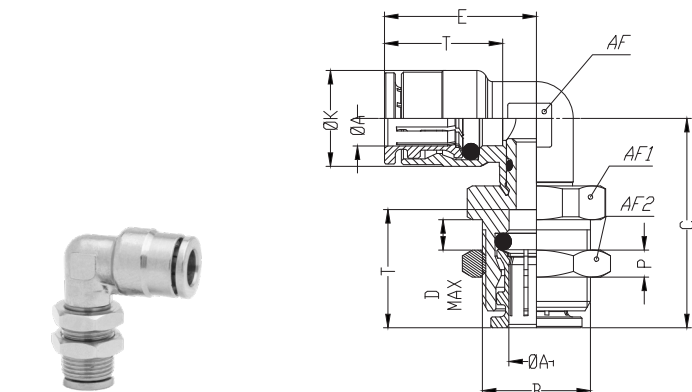
ØA	B	C	E	G	ØK	ØK1	T	AF	AF1	Weight (g)	Model
6	R1/8	20	36,5	7,5	12,7	13,2	16,0	9	12	25	101540618
6	R1/4	20	41	11	12,7	15,2	16,0	9	14	30	101540628
8	R1/8	22,5	40,5	7,5	14,2	13,2	17,5	11	12	35	101540818
8	R1/4	22,5	44,5	11	14,2	15,2	17,5	11	14	38	101540828
10	R3/8	22,5	49	11,5	14,2	20,5	17,5	19	19	57	101541038

45° Swivel elbow adaptor, BSP parallel 10257



ØA	B	C	E	G	H	ØK	ØK1	T	AF	AF1	Weight (g)	Model
6	G1/8	20,5	20	6	39,5	12,7	13,5	16	12	11	22	102570618
6	G1/4	20,5	22	7	40,5	12,7	16,4	16	15	11	28	102570628
8	G1/8	22,5	20	6	41	14,2	13,5	17,5	12	11	24	102570818
8	G1/4	22,5	22	7	42,5	14,2	16,4	17,5	15	11	29	102570828

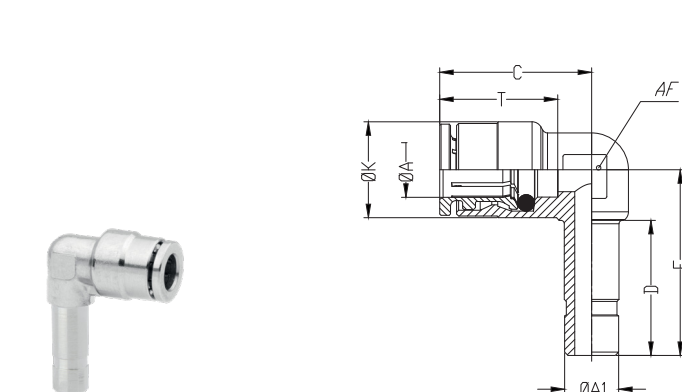
Bulkhead swivel elbow connector 10049



ØA	B	C	D	E	ØK	P	T	AF	AF1	AF2	Weight (g)	Model
4	M10X1	25,5	7	17,5	9	4	14,0	8	14	14	23	100490400
6	M14X1	26,5	7	20	12,7	4	16,0	9	17	17	36	100490600
8	M16X1	28,5	8	22,5	14,2	4	17,5	11	19	19	45	100490800
10	M18X1	33,5	9,5	26	16,5	4,5	20,2	13	22	22	65	100491000
12	M20X1	37	13	26,5	19,5	4,5	19,2	15	24	24	83	100491200

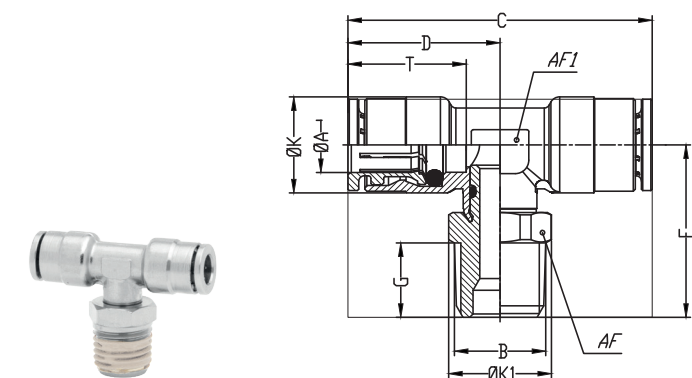
Stem elbow connector 10043

Dimensions in mm
Projection/First angle



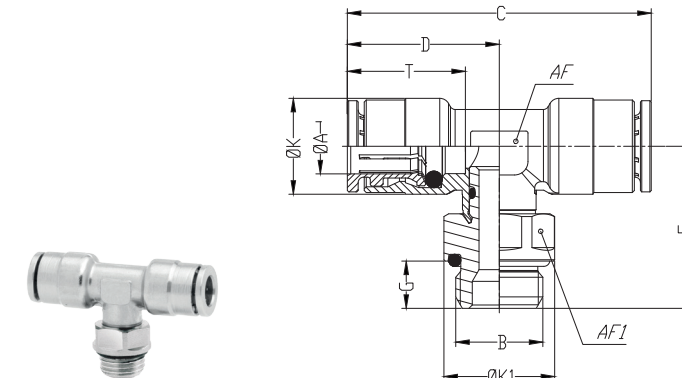
ØA	ØA1	C	D	E	ØK	T	AF	Weight (g)	Model
4	4	17,5	16,5	22,0	9,0	14,0	8	8	100430400
6	6	20	18,0	24,5	12,7	16,0	9	14	100430600
8	8	22,5	20,0	27,5	14,2	17,5	11	21	100430800

Swivel tee adaptor, BSP taper 10167



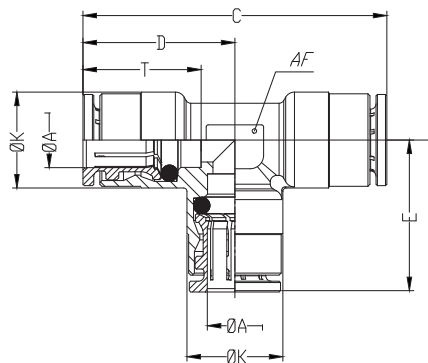
ØA	B	C	E	F	G	ØK	ØK1	T	AF	AF1	Weight (g)	Model
4	R1/8	35	13,2	20,5	17,5	7,5	14	9	12	8	19	101670418
6	R1/8	40	13,2	21	20	7,5	16	12,7	12	9	29	101670618
6	R1/4	40	15,2	24,5	20	11	16	12,7	14	9	31	101670628
8	R1/8	45	13,2	22	22,5	7,5	17,5	14,2	12	11	37	101670818
8	R1/4	45	15,2	25,5	22,5	11	17,5	14,2	14	11	40	101670828
8	R3/8	45	20,5	27	22,5	11,5	17,5	14,2	19	11	57	101670838
10	R1/4	52	15,2	28	26	11	20,2	16,5	14	13	60	101671028
10	R3/8	52	20,5	29	26	11,5	20,2	16,5	19	13	62	101671038
10	R1/2	52	24,5	32	26	14	20,2	16,5	22	13	70	101671048
12	R1/4	53	18,5	29,5	26,5	11	19,2	19,5	17	15	60	101671228
12	R3/8	53	20,5	30	26,5	11,5	19,2	19,5	19	15	67	101671238
12	R1/2	53	24,8	33	26,5	14	19,2	19,5	22	15	77	101671248
14	R3/8	57	20,5	31	28,5	11,5	20,2	21,5	19	17	74	101671438
14	R1/2	57	24,5	34	28,5	14	20,2	21,5	22	17	92	101671448

Swivel tee adaptor, BSP parallel 10267



ØA	B	C	D	E	G	ØK	ØK1	T	AF	AF1	Weight (g)	Model
4	M5	35	17,5	17	4	9	8,8	14,0	8	8	14	102670405
4	G1/8	35	17,5	20,5	6	9	13,5	14,0	8	12	19	102670418
6	M5	40	20	17,5	4	12,7	10,9	16,0	9	10	28	102670605
6	G1/8	40	20	21	6	12,7	13,5	16,0	9	12	29	102670618
6	G1/4	40	20	23	7	12,7	16,4	16,0	9	15	30	102670628
8	G1/8	45	22,5	22	6	14,2	13,5	17,5	11	12	37	102670818
8	G1/4	45	22,5	24	7	14,2	16,4	17,5	11	15	39	102670828
8	G3/8	45	22,5	24	7	14,2	20,5	17,5	11	19	55	102670838
10	G1/4	52	26	26,5	7	16,5	16,4	20,2	13	15	59	102671028
10	G3/8	52	26	26,5	7	16,5	20,5	20,2	13	19	56	102671038
10	G1/2	52	26	28,5	8	16,5	24,8	20,2	13	22	58	102671048
12	G1/4	53	26,5	27	7	19,5	18,5	19,2	15	17	60	102671228
12	G3/8	53	26,5	27,5	7	19,5	20,5	19,2	15	19	65	102671238
14	G3/8	57	28,5	28,5	7	21,5	20,5	20,2	17	19	68	102671438
14	G1/2	57	28,5	30,5	8	21,5	24,8	20,2	17	22	80	102671448

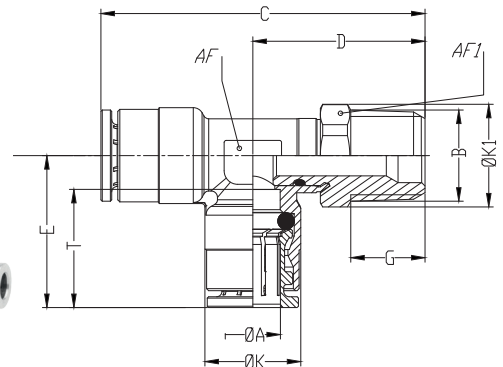
Tee connector 10060



ØA	C	D	E	ØK	T	AF	Weight (g)	Model
4	35	17,5	17,5	9,0	14,0	8	14	100600400
5	41	20,5	20,5	10,0	15,0	9	21	100600500
6	40	20,0	20,0	12,7	16,0	9	24	100600600
8	45	22,5	22,5	14,2	17,5	11	32	100600800
10	52	26,0	26,0	16,5	20,2	13	43	100601000
12	53	26,5	26,5	19,5	19,2	15	60	100601200
14	57	28,5	28,5	21,5	20,2	17	75	100601400

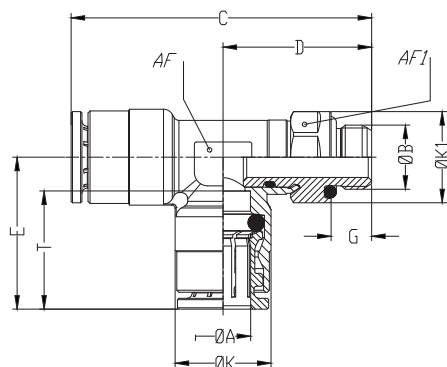
Swivel side tee adaptor, BSP taper 10168

Dimensions in mm
Projection/First angle



ØA	B	C	D	E	G	ØK	ØK1	T	AF	AF1	Weight (g)	Model
4	R1/8	38	20,5	17,5	7,5	9	13,2	14,0	8	12	19	101680418
6	R1/8	41	21	20	7,5	12,7	13,2	16,0	9	12	26	101680618
6	R1/4	44,5	24,5	20	11	12,7	15,2	16,0	9	14	36	101680628
8	R1/8	44,5	22	22,5	7,5	14,2	13,2	17,5	11	12	31	101680818
8	R1/4	48	25,5	22,5	11	14,2	15,2	17,5	11	14	43	101680828
8	R3/8	49,5	27	22,5	11,5	14,2	20,5	17,5	11	19	52	101680838
10	R1/4	54	28	26	11	16,5	15,2	20,2	13	14	47	101681028
10	R3/8	55	29	26	11,5	16,5	20,5	20,2	13	19	72	101681038
12	R1/4	56	29,5	26,5	11	19,5	18,5	19,2	15	17	73	101681228
12	R3/8	56,5	30	26,5	11,5	19,5	20,5	19,2	15	19	66	101681238
12	R1/2	59,5	33	26,5	14	19,5	24,8	19,2	15	22	85	101681248

Swivel side tee adaptor, BSP parallel 10268

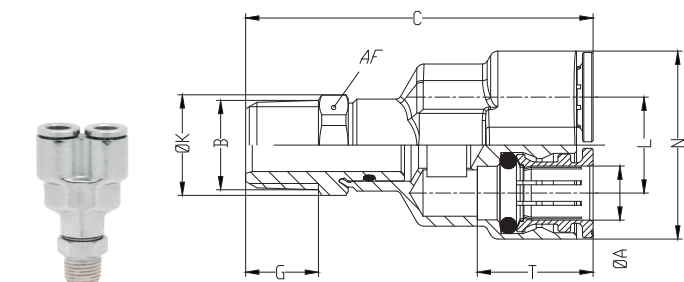


ØA	B	C	D	E	G	ØK	ØK1	T	AF	AF1	Weight (g)	Model
4	M5	34,5	17	17,5	4	9	8,8	14,0	8	8	18	102680405
4	G1/8	38	21	17,5	6	9	13,5	14,0	8	12	19	102680418
6	G1/8	41	23	20	6	12,7	13,5	16,0	9	12	26	102680618
6	G1/4	43	22,5	20	7	12,7	16,4	16,0	9	15	36	102680628
8	G1/8	44,5	22	22,5	6	14,2	13,5	17,5	11	12	31	102680818
8	G1/4	46,5	24	22,5	7	14,2	16,4	17,5	11	15	42	102680828
8	G3/8	46,5	24	22,5	7	14,2	20,5	17,5	11	19	50	102680838
10	G1/4	52,5	26,5	26	7	16,5	16,4	20,2	13	15	46	102681028
10	G3/8	52,5	26,5	26	7	16,5	20,5	20,2	13	19	66	102681038
12	G1/4	53,5	27	26,5	7	19,5	18,5	19,2	15	17	73	102681228
12	G3/8	54	27,5	26,5	7	19,5	20,5	19,2	15	19	64	102681238
12	G1/2	56	29,5	26,5	8	19,5	24,8	19,2	15	22	68	102681248

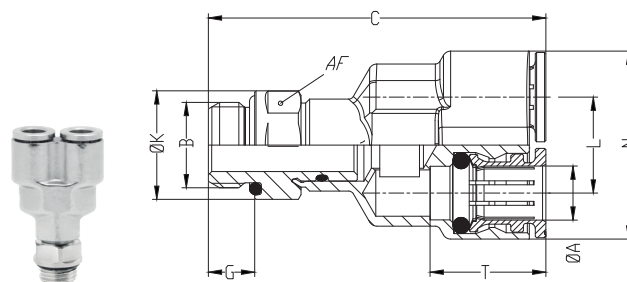
Swivel Y-adaptor, BSP taper 10188

Swivel Y-adaptor, BSP parallel 10288

Dimensions in mm
Projection/First angle

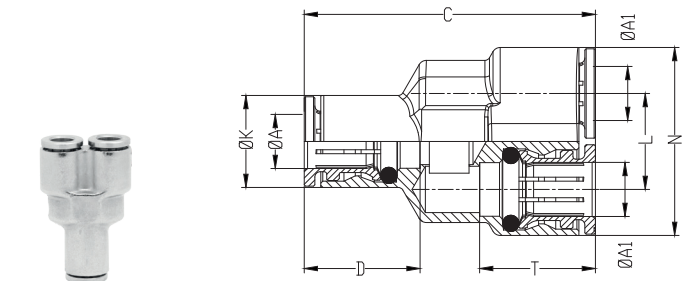


ØA	B	C	G	ØK	L	N	T	AF	Weight (g)	Model
6	R1/8	42,0	7,5	13,2	12,5	24,5	16,0	12,0	30	101880618
6	R1/4	45,5	11,0	15,2	12,5	24,5	16,0	14,0	38	101880628
8	R1/4	52,5	11,0	15,2	14,5	28,5	17,5	14,0	47	101880828



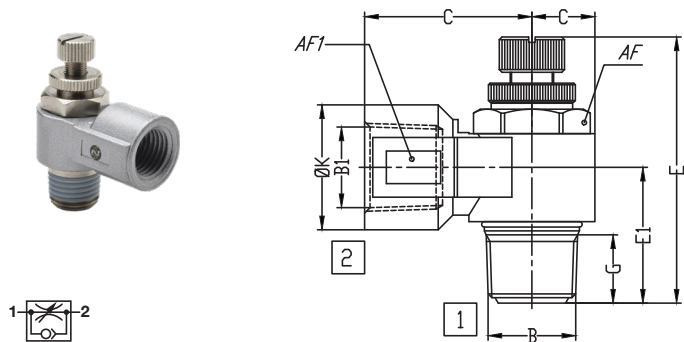
ØA	B	C	G	ØK	L	N	T	AF	Weight (g)	Model
6	G1/8	42,0	6,0	13,5	12,5	24,5	16,0	12,0	30	102880618
6	G1/4	44,0	7,0	16,4	12,5	24,5	16,0	15,0	37	102880628
8	G1/4	51,0	7,0	16,4	14,5	28,5	17,5	15,0	46	102880828

Y-Connector 10082



ØA	ØA1	C	D	ØK	L	N	T	Weight (g)	Model
4	4	33	14	9	9	18	14	19	100820400
6	6	39	16	12	12,5	24,5	16	30	100820600
6	4	37	16	12	11	24,5	16	37	100820604
8	8	44	17,5	14	14,5	28,5	17,5	42	100820800
8	6	43	17,5	14	14,5	28,5	17,5	50	100820806
10	10	53,5	20,2	16	16	32	20,2	63	100821000
10	8	52	20,2	16	16	32	20,2	66	100821008

Elbow flow control, regulating out, BSP taper 10TA0

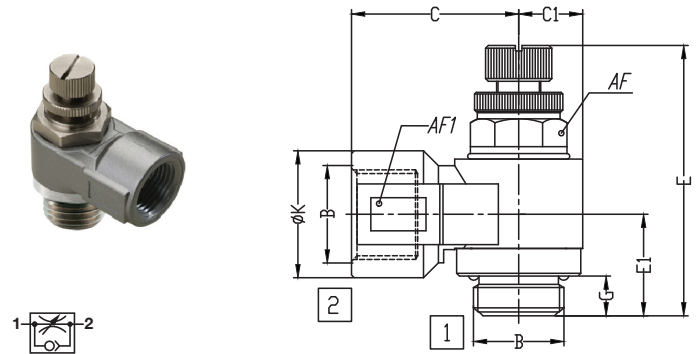


B	B1	C	C1	E	E1	G	ØK	AF	AF1	Weight (g)	Model
				Max							
R1/8	Rc1/8	18.2	7.3	40.7	16.0	7.6	14.5	12	15	30	10TA01818
R1/4	Rc1/4	26.5	9.5	46.6	21.1	10.6	18.0	15	19	60	10TA02828
R3/8	Rc3/8	30.8	11.6	54.9	25.0	12.6	23.0	19	24	107	10TA03838
R1/2	Rc1/2	38.7	14.0	60.1	29.1	14.5	26.5	24	28	170	10TA04848

Material: Zinc die-casting

Elbow flow control, regulating out, BSP parallel 10KA0

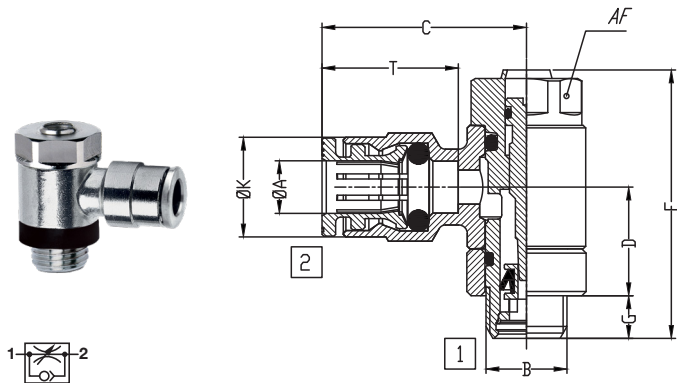
Dimensions in mm
Projection/First angle



B	C	C1	E	E1	G	ØK	AF	AF1	Weight (g)	Model
				Max						
G1/8	17.7	7.3	40.7	14.8	6.0	14.5	8	15	31	10KA01818
G1/4	26.0	9.5	46.6	15.8	8.0	18	12	19	66	10KA02828
G3/8	30.3	11.6	54.9	18.4	8.0	23	15	24	117	10KA03838
G1/2	38.2	14.0	60.1	22.1	9.0	26.5	19	28	180	10KA04848

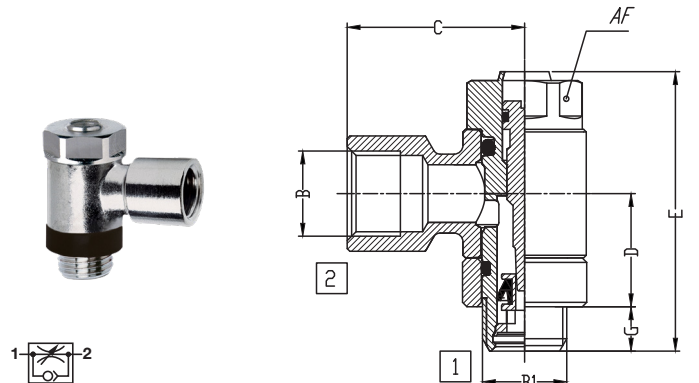
Material: Zinc die-casting

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



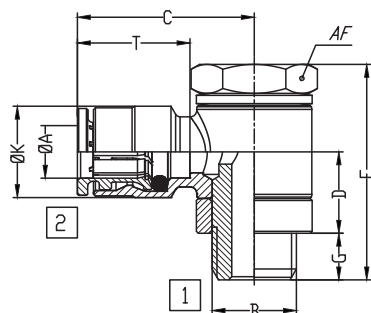
ØA	B1	C	D	E	ØK	G	T	AF	Weight (g)	Model
4	M5	18	5	21,5	8,6	3,5	14,0	8	11	10K510405
4	G1/8	21,5	12,5	31,5	9	5	14,0	12	29	10K510418
6	M5	19	5	21,5	10,4	3,5	15,0	8	12	10K510605
6	G1/8	24	12,5	31,5	12,7	5	16,0	12	31	10K510618
6	G1/4	26	12,5	32,5	12,7	6	16,0	15	44	10K510628
8	G1/8	25,5	12,5	31,5	14,2	5	17,5	12	34	10K510818
8	G1/4	27,5	12,5	32,5	14,2	6	17,5	15	47	10K510828
8	G3/8	28,5	12,5	40,5	14,2	8	17,5	18	68	10K510838
10	G1/4	29	12,5	32,5	16,5	6	20,2	15	47	10K511028
10	G3/8	30,5	12,5	40,5	16,5	8	20,2	18	68	10K511038
12	G3/8	29,5	12,5	40,5	19,5	8	19,2	18	79	10K511238
12	G1/2	32,5	24,5	75	19,5	8	19,2	27	182	10K511248

Elbow banjo assembly Regulating-out BSP parallel 16K51



B	B1	C	D	E	G	AF	Weight (g)	Model
G1/8	G1/8	20	12,5	31,5	5	12	30	16K511818
G1/4	G1/4	23,5	12,5	32,5	6	15	47	16K512828
G3/8	G3/8	26,5	12,5	42	8	19	74	16K513838
G1/2	G1/2	34,5	24,5	70,5	8	27	235	16K514848

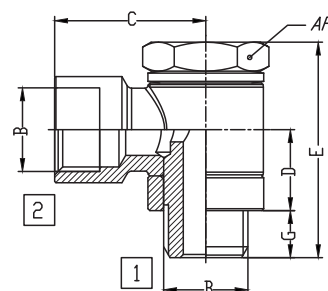
Banjo elbow nonregulating, BSP parallel to tube Push-in 10A51



ØA	B	C	D	E	G	ØK	T	AF	Weight (g)	Model
4	M5	19	5,5	18	4	9	14,0	8	13	10A510405
4	G1/8	21,5	12,5	31	6	9	14,0	14	29	10A510418
6	M5	22,5	5,5	18	4	12,7	16,0	8	16	10A510605
6	G1/8	24	12,5	31	6	12,7	16,0	14	31	10A510618
6	G1/4	26	12,5	33,5	8	12,7	16,0	17	46	10A510628
8	G1/8	25,5	12,5	31	6	14,2	17,5	14	34	10A510818
8	G1/4	27,5	12,5	33,5	8	14,2	17,5	17	49	10A510828
10	G1/4	29	12,5	33,5	8	16,5	20,2	17	49	10A511028
10	G3/8	30,5	12,5	34	8	16,5	20,2	19	60	10A511038

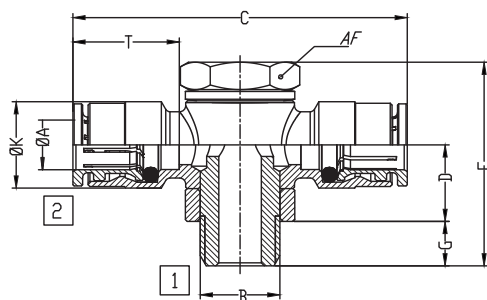
Banjo elbow nonregulating, BSP parallel to BSP parallel 16A51

Dimensions in mm
Projection/First angle



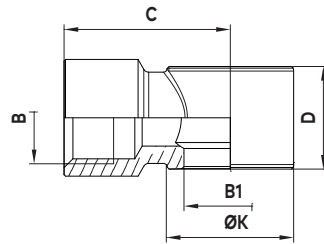
B	C	D	E	G	AF	Weight (g)	Model
G1/8	20	12,5	31	6	14	29	16A511818
G1/4	23,5	12,5	33,5	8	17	48	16A512828
G3/8	26,5	12,5	34	8	19	64	16A513838
G1/2	34	12,5	35	9	27	104	16A514848

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



ØA	B	C	E	G	ØK	D	T	AF	Weight (g)	Model
6	G1/8	48	12,5	31	6	12,7	16,0	14	31	10A710618
6	G1/4	52	12,5	33,5	8	12,7	16,0	17	46	10A710628
8	G1/8	51	12,5	31	6	14,2	17,5	14	34	10A710818
8	G1/4	55	12,5	33,5	8	14,2	17,5	17	49	10A710828

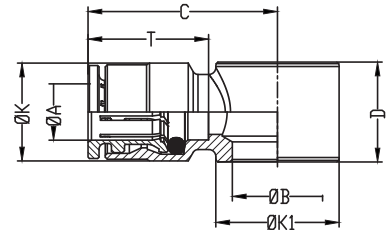
Banjo elbow body to BSP parallel 16051



B	Bolt size B	ØB1	ØK	D	C	Weight (g)	Model
G1/8	G1/8	9,8	14	14,5	20	14	160511818Z
G1/4	G1/4	13,2	18	14,5	23,5	21	160512828Z
G3/8	G3/8	16,7	21	14,5	26,5	27	160513838Z
G1/2	G1/2	21	44	14,5	34	44	160514848Z

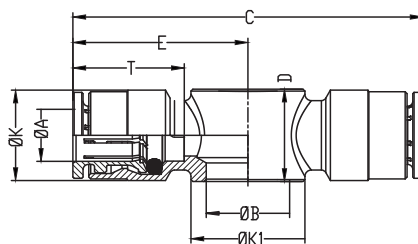
Banjo elbow body to tube push-in 10051

Dimensions in mm
Projection/First angle



ØA	Bolt size B	ØB	C	D	ØK	T	ØK1	Weight (g)	Model
4	M5	5,1	19	9	8,8	14,0	9	9	100510405Z
4	G1/8	9,8	21,5	14,5	9	14,0	14	14	100510418Z
6	M5	5,1	22,5	9	12,7	16,0	10	12	100510605Z
6	G1/8	9,8	24	14,5	12,7	16,0	14	16	100510618Z
6	G1/4	13,2	26	14,5	12,7	16,0	18	19	100510628Z
8	G1/8	9,8	25,5	14,5	14,2	17,5	14	19	100510818Z
8	G1/4	13,2	27,5	14,5	14,2	17,5	18	22	100510828Z
8	G3/8	16,7	28,5	14,5	14,2	17,5	21	23	100510838Z
10	G1/4	13,2	29	14,5	16,5	20,2	18	22	100511028Z
10	G3/8	16,7	30,5	14,5	16,5	20,2	21	23	100511038Z
12	G3/8	16,7	32	14,5	19,5	19,2	21	37	100511238Z
12	G1/2	21	32	14,5	19,5	19,2	26	37	100511248Z

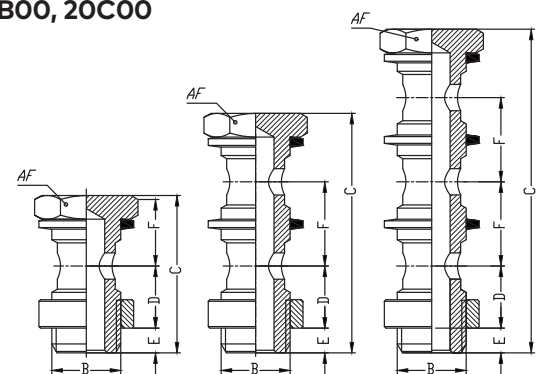
Banjo tee body to tube push-in 10071



ØA	Bolt size B	ØB	C	E	D	ØK	ØK1	T	Weight (g)	Model
6	G1/8	9,8	48	14,5	24	12,7	14	16	21	100710618Z
6	G1/4	13,2	52	14,5	26	12,7	18	16	23	100710628Z
8	G1/8	9,8	51	14,5	25,5	14,2	14	17,5	21	100710818Z
8	G1/4	13,2	55	14,5	27,5	14,2	18	17,5	22	100710828Z

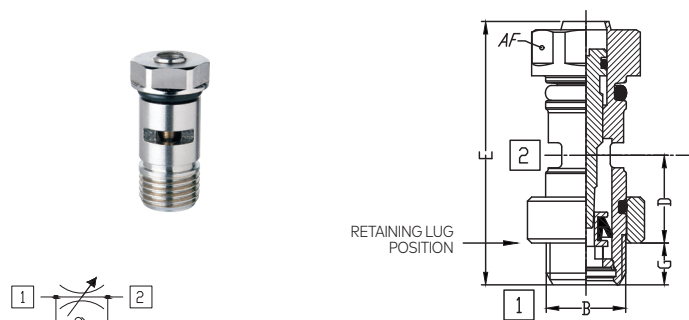
Note: Banjo elbow bodies with suffix Z at the end of the model number are not interchangeable with the previous series without the suffix Z.

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



B	C	D	E	F	AF	Type	Weight (g)	Model
M5	18	5,5	4	-	8	Single	4	20A000005Z
G1/8	31	12,5	6	-	14	Single	15	20A000018Z
G1/4	33,5	12,5	8	-	17	Single	27	20A000028Z
G3/8	34	12,5	8	-	19	Single	37	20A000038Z
G1/2	35	12,5	9	-	27	Single	60	20A000048Z
G1/8	56	12,5	6	25	14	Double	26	20B000018Z
G1/4	58,5	12,5	8	25	17	Double	44	20B000028Z
G3/8	59	12,5	8	25	19	Double	64	20B000038Z
G1/4	83,5	12,5	8	25	17	Triple	42	20C000028Z
G3/8	84	12,5	8	25	19	Triple	62	20C000038Z

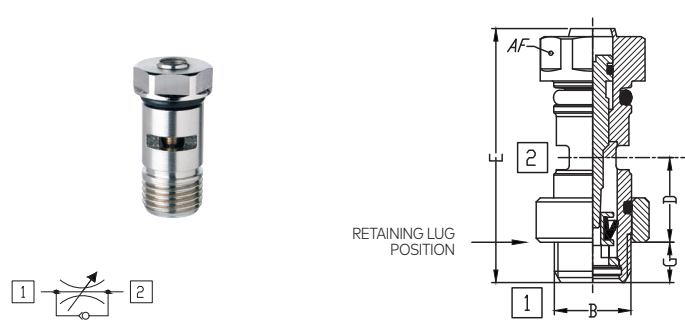
Banjo bolt, regulating out, BSP parallel 20K00



B	D	E	G	AF	Weight (g)	Model
G1/8	12,5	31,5	5	12	15	20K000018Z
G1/4	12,5	32,5	6	15	25	20K000028Z
G3/8	12,5	42	8	19	45	20K000038Z

Banjo bolt, regulating in, BSP parallel 20L00

Dimensions in mm
Projection/First angle



B	D	E	G	AF	Weight (g)	Model
G1/8	12,5	31,5	5	12	15	20L000018Z
G1/4	12,5	32,5	6	15	25	20L000028Z

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

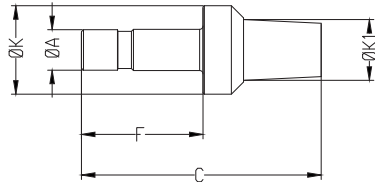


B	D	E	G	AF	Weight (g)	Model
G1/8	12,5	31,5	5	12	17	20M000018Z
G1/4	12,5	32,5	6	15	27	20M000028Z

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

Note: Banjo bolts, regulating, non-regulating and stacking with suffix Z at the end of the model number are not interchangeable with the previous series without the suffix Z.

Silencer 10011

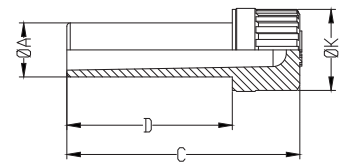


ØA	C	F	ØK	ØK1	Weight (g)	Model
4	29	16,5	9	4,2	7	100110400
6	36	18	13	8	17	100110600
8	44	20,5	17	9	36	100110800
10	56	23	20	12	50	100111000
12	57	24	20	12	51	100111200

Material: Sintered bronze

Plug 11004

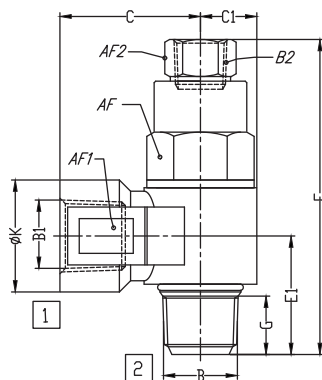
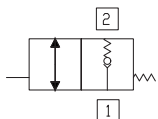
Dimensions in mm
Projection/First angle



ØA	C	ØK	D	Weight (g)	Model
4	29,0	8,0	20,0	1	110040400
5	29,5	8,0	20,5	1	110040500
6	31,5	8,0	22,5	1	110040600
8	34,5	12,0	24,5	2	110040800
10	37,0	12,0	27,0	2	110041000
12	40,5	16,0	28,5	3	110041200
14	42,5	16,0	30,5	3	110041400

Material: PA

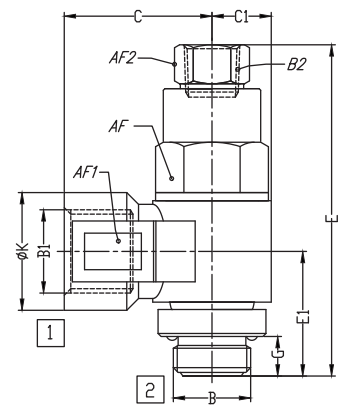
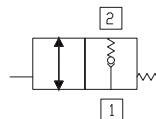
Pilot operated check valve, BSP taper 101GA



B	B1	B2	C	C1	E	E1	G	ØK	AF	AF1	AF2	Weight (g)	Model
R1/8	Rc1/8	M5	18.2	7.3	40.8	15.4	7.6	14.5	12	15	8	35	101GA1818
R1/4	Rc1/4	Rc1/8	26.5	9.5	48.9	21.1	10.6	18.0	17	19	12	75	101GA2828
R3/8	Rc3/8	Rc1/8	30.8	11.6	56.7	24.8	12.6	23.0	20	24	12	123	101GA3838
R1/2	Rc1/2	Rc1/4	38.7	14.0	70.6	31.0	14.5	26.5	24	28	17	207	101GA4848

Material: Body - Zinc die-casting

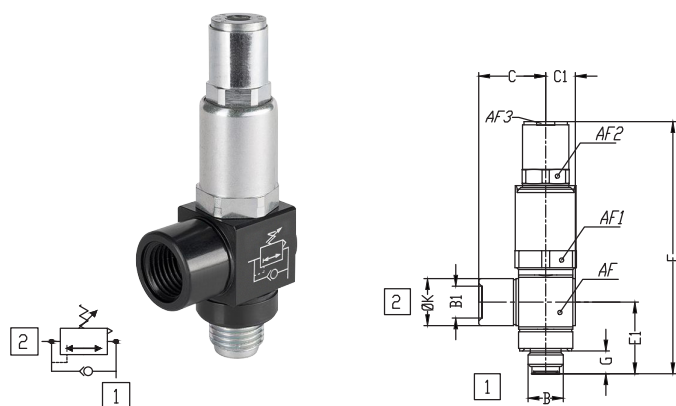
Pilot operated check valve, BSP parallel 102GA



B	B1	B2	C	C1	E	E1	G	ØK	AF	AF1	AF2	Weight (g)	Model
G1/8	G1/8	M5	17.7	7.3	40.8	16.2	5.1	14.5	12	15	8	35	102GA1818
G1/4	G1/4	G1/8	26.0	9.5	48.9	21.3	6.6	18.0	17	19	12	77	102GA2828
G3/8	G3/8	G1/8	30.3	11.6	56.7	24.8	7.2	23.0	20	24	12	128	102GA3838
G1/2	G1/2	G1/4	38.2	14.0	70.6	29.6	8.7	26.5	24	28	17	219	102GA4848

Material: Body - Zinc die-casting

Pressure reduction valve, BSP parallel 102GB

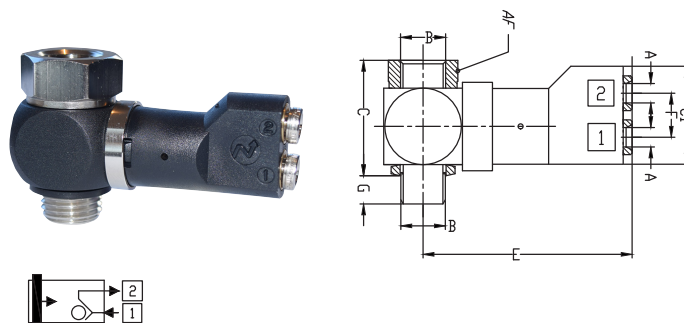


B	B1	C	C1	E	E1	G	ØK	AF	AF1	AF2	AF3	Weight (g)	Model
G1/8	G1/8	18.5	8.4	70	19.8	6.3	13	15	17	13	5	57	102GB1818
G1/4	G1/4	22.5	10.4	78	25.8	9.5	18	19	17	13	5	76	102GB2828
G3/8	G3/8	28.5	12.5	85.7	29	9.7	23	23	23	17	6	132	102GB3838
G1/2	G1/2	31	15.3	86.7	32	9.5	25	28	27	17	6	181	102GB4848

Materials: Body - PA, Banjo bolt - nickel plated brass

Pressure sensor valve, BSP parallel 102GD

Dimensions in mm
Projection/First angle



ØA	B	C	C1	E	F	G	AF	Weight (g)	Model
4	G1/8	25	21	45.2	9.5	5.5	15	376	102GD0418
4	G1/4	29	21	47.2	9.5	6.5	19	550	102GD0428

Materials: Body - PA, Banjo bolt - nickel plated brass

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 Norgren Ltd.

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.