

Very compact units

Easy tube insertion for rapid assembly of pneumatic circuits

Positive tube anchorage

All taper threads pre-coated with non-PTFE based sealant

Straight Adaptors feature internal hexagon for Allen key

Silicone 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%

Operating temperature:

-20 ... +80°C (-4 ... +176°F)
"Special" low temperature options contact Norgren Technical service

Tube sizes

1/8", 5/32", 3/16", 1/4", 5/16",
3/8", 1/2" O/D

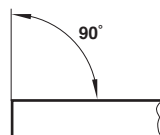
Tubing types:

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

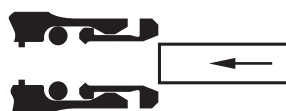
Materials:

Body: nickel plated brass or glass filled nylon
Collet: nickel plated brass
'O'-ring: silicone free nitrile rubber (viton optional)
Washer: plastic sealing (parallel threads)
Thread sealant: Non-PTFE

Method of assembly



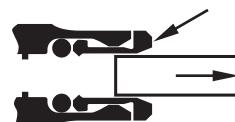
1. Ensure that the end of the tube is cut square and is free from burrs.



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

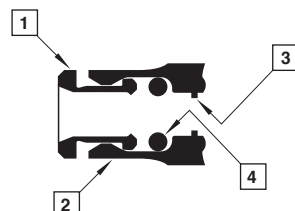


3. Continue pushing the tube through the 'O'-ring until it bottoms on the tube stop then pull back.



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	12 ★★★★★★	Thread size/tube size
Shape		Thread size/tube size

Straight adaptors, connectors and plugs

Straight adaptor
MM O/D tube to
NPTF (male) thread
10425/12425



Page 3

Straight adaptor
Inch O/D tube to
BSPT thread
10125/12125



Page 3

Straight adaptor
O/D tube to male
NPTF taper
12425



Page 4

Straight adaptor
O/D tube to male
metric thread
12225/10225



Page 4

Straight adaptor
O/D tube to female
NPTF thread
12426



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Stem adaptor
MM O/D stem to
NPTF (male) thread
10415/12415



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Stem adaptor
Inch O/D stem to
BSPT thread
10115/12115



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Straight stem adaptor
O/D tube stem to
taper NPTF thread
12415



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Straight connector
Inch tube to MM
tube
10020/12037



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Straight connector
O/D tube to O/D
tube
12020



Page 5

Bulkhead connector
O/D tube to O/D
tube
12029



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Expanding
12023



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Tube end expander/
reducer, tube stem
to O/D tube
12023



Page 5

Straight stem
connector
12022



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Plug
12004



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Plug
13004



Page 6

Stem tailpiece
adaptor, O/D tube
stem to hose bore
12019



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Elbow adaptors, connectors and banjos

Fixed elbow adaptor
O/D tube to male BSPT thread
12145



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Fixed elbow adaptor
O/D tube to male NPTF thread
12445



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Swivel male elbow
O/D tube to male NPTF thread
12477



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Swivel elbow adaptor
O/D tube to male BSPT thread
12147/10147



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Extended swivel elbow
adaptor, O/D tube to male
NPTF thread
12454



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Elbow connector
O/D tube to O/D tube
12040



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Tee adaptors, connectors and banjos

Swivel tee adaptor
O/D tube to male taper
BSP thread
12167/10167



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Swivel male centre tee
O/D tube to male NPTF thread
12467



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Tee connector
O/D tube to O/D tube
12060



Page 8

Swivel side tee adaptor
O/D tube to male taper BSP thread
12168/10168



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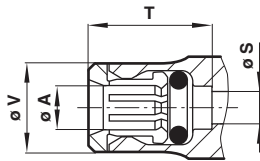
Swivel male side tee
O/D tube to male taper NPTF thread
12468



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Typical dimensions

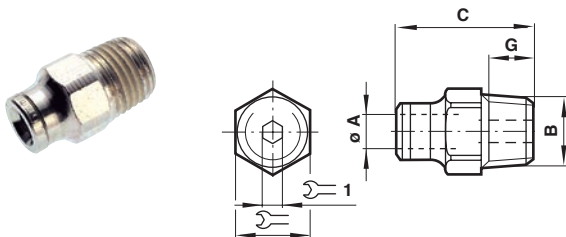
Dimensions shown in inch



A O/D tube	S	T tubing stop	V
1/8"	0.09	0.53	0.26
5/32"(4)	0.11	0.55	0.3
3/16"	0.13	0.59	0.38
1/4"	0.17	0.61	0.42
5/16"(8)	0.24	0.65	0.51
3/8"	0.3	0.83	0.59
1/2"	0.38	0.96	0.71

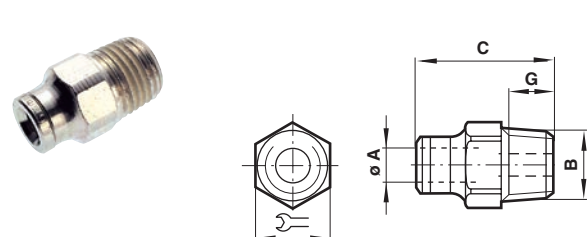
Dimensions

Straight adaptor 10425/12425 MM O/D Tube to NPTF (male) thread



O/D Tube A mm	Thread B	C	G		 1	Model
4	10/32	0.85	0.2	0.35	3/32"	124250210
4	1/8 NPT	0.89	0.37	7/16"	1/8"	124250218
4	1/4 NPT	1.04	0.56	9/16"	1/8"	124250228
5	1/8 NPT	0.96	0.37	7/16"	5/32"	104250518
5	1/4 NPT	1.04	0.56	9/16"	5/32"	104250528
6	10/32	0.94	0.2	0.430	3/32"	104250610
6	1/8 NPT	0.98	0.37	7/16"	5/32"	104250618
6	1/4 NPT	1.11	0.56	9/16"	5/32"	104250628
6	3/8 NPT	1.07	0.56	11/16"	5/32"	104250638
8	1/8 NPT	1.12	0.37	1/2"	3/16"	124250518
8	1/4 NPT	1.23	0.56	9/16"	1/4"	124250528
8	3/8 NPT	1.13	0.56	11/16"	1/4"	124250538
10	1/8 NPT	1.32	0.37	11/16"	3/16"	104251018
10	1/4 NPT	1.47	0.56	11/16"	9/32"	104251028
10	3/8 NPT	1.41	0.56	11/16"	5/16"	104251038
10	1/2 NPT	1.45	0.75	7/8"	5/16"	104251048
12	1/4 NPT	1.67	0.56	7/8"	9/32"	104251228
12	3/8 NPT	1.63	0.56	7/8"	13/32"	104251238
12	1/2 NPT	1.7	0.75	7/8"	13/32"	104251248

Straight adaptor 10125/12125 Inch O/D tube to BSPT thread

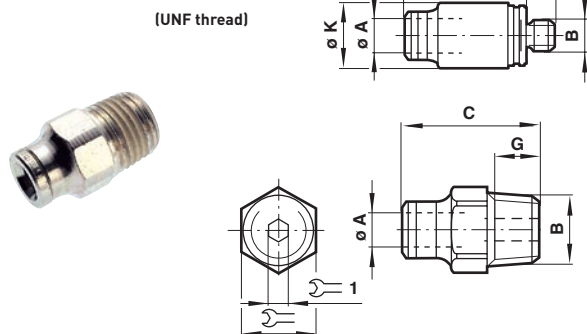


O/D Tube A	Thread B	C	G	1	Model
1/8"	R1/8	0.79	0.3	0.39	121250118
1/8"	R1/4	0.89	0.44	0.55	121250128
5/32"	R1/8	0.81	0.3	0.39	101250418
5/32"	R1/4	0.91	0.44	0.55	101250428
1/4"	R1/8	0.91	0.3	0.43	121250418
1/4"	R1/4	0.99	0.44	0.55	121250428
1/4"	R3/8	1.01	0.5	0.67	121250438
5/16"	R1/8	1.05	0.3	0.51	101250818
5/16"	R1/4	1.11	0.44	0.55	101250828
5/16"	R3/8	1.07	0.5	0.67	101250838
3/8"	R1/8	1.25	0.3	0.67	121250618
3/8"	R1/4	1.35	0.44	0.67	121250628
3/8"	R3/8	1.35	0.5	0.67	121250638
3/8"	R1/2	1.33	0.63	0.87	121250648
1/2"	R1/4	1.54	0.44	0.87	121250728
1/2"	R3/8	1.56	0.5	0.87	121250738
1/2"	R1/2	1.58	0.63	0.87	121250748

Projection/First angle



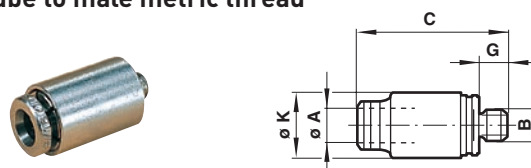
Straight adaptor 12425 O/D tube to male NPTF taper



O/D Tube A	Thread B	C	G	Ø K		Model
1/8"	10-32 UNF	0.79	0.2	0.31	3/32"	124250110
1/8"	1/16 NPT	0.8	0.37	3/8"	3/32"	124250116
1/8"	1/8 NPT	0.67	0.37	7/16"	3/32"	124250118
1/8"	1/4 NPT	0.95	0.56	9/16"	3/32"	124250128
5/32"	10-32 UNF	0.85	0.2	0.35	3/32"	124250210
5/32"	1/8 NPT	0.89	0.37	7/16"	1/8"	124250218
5/32"	1/4 NPT	1.04	0.56	9/16"	1/8"	124250228
3/16"	1/8 NPT	0.96	0.37	7/16"	5/32"	124250318
3/16"	1/4 NPT	1.04	0.56	9/16"	5/32"	124250328
1/4"	10-32 UNF	0.94	0.2	0.43	3/32"	124250410
1/4"	1/8 NPT	0.98	0.37	7/16"	5/32"	124250418
1/4"	1/4 NPT	1.11	0.56	9/16"	5/32"	124250428
1/4"	3/8 NPT	1.07	0.56	11/16"	5/32"	124250438
5/16"	1/8 NPT	1.12	0.37	1/2"	3/16"	124250518
5/16"	1/4 NPT	1.23	0.56	9/16"	1/4"	124250528
5/16"	3/8 NPT	1.13	0.56	11/16"	1/4"	124250538
3/8"	1/8 NPT	1.32	0.37	11/16"	3/16"	124250618
3/8"	1/4 NPT	1.47	0.56	11/16"	1/4"	124250628
3/8"	3/8 NPT	1.41	0.56	11/16"	5/16"	124250638
3/8"	1/2 NPT	1.45	0.75	7/8"	5/16"	124250648
1/2"	1/4 NPT	1.67	0.56	7/8"	1/4"	124250728
1/2"	3/8 NPT	1.63	0.56	7/8"	3/8"	124250738
1/2"	1/2 NPT	1.7	0.75	7/8"	3/8"	124250748

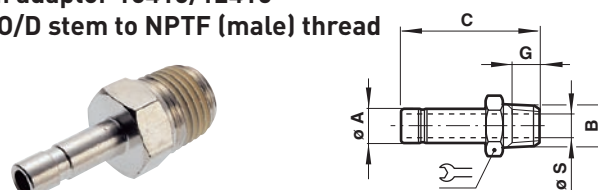
Straight adaptor 12225/10225 O/D tube to male metric thread

Dimensions shown in inch



O/D Tube A	Thread B	C	G	Ø K	Model
1/8"	M5 x 0.8	0.78	0.2	0.31	122250105
5/32"	M5 x 0.8	0.84	0.2	0.35	102250405
3/16"	M5 x 0.8	0.9	0.2	0.39	122250305
1/4"	M5 x 0.8	0.94	0.2	0.43	122250405

Stem adaptor 10415/12415 MM O/D stem to NPTF (male) thread



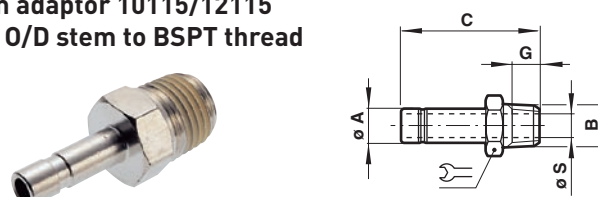
O/D Tube A mm	Thread B	C	G	Ø S		Model
4	1/8 NPT	1.25	0.37	0.08	7/16"	124150218
4	1/4 NPT	1.44	0.56	0.08	9/16"	124150228
5	1/8 NPT	1.31	0.37	0.13	7/16"	104150518
5	1/4 NPT	1.5	0.56	0.13	9/16"	104150528
6	1/8 NPT	1.33	0.37	0.16	7/16"	104150618
6	1/4 NPT	1.52	0.56	0.16	9/16"	104150628
8	1/8 NPT	1.37	0.37	0.2	7/16"	124150518
8	1/4 NPT	1.56	0.56	0.2	9/16"	124150528
10	1/4 NPT	1.74	0.56	0.3	9/16"	104151028
10	3/8 NPT	1.81	0.56	0.3	11/16"	104151038
12	3/8 NPT	1.95	0.56	0.36	11/16"	104151238
12	1/2 NPT	2.15	0.75	0.36	7/8"	104151248

Straight adaptor 12426 O/D tube to female NPTF thread



O/D Tube A	Thread B	C		Model
1/8"	1/8 NPT	1.14	9/16"	124260118
1/8"	1/4 NPT	1.38	11/16"	124260128
5/32"	1/8 NPT	1.14	9/16"	124260218
5/32"	1/4 NPT	1.42	11/16"	124260228
1/4"	1/8 NPT	1.19	9/16"	124260418
1/4"	1/4 NPT	1.46	11/16"	124260428
5/16"	1/8 NPT	1.23	9/16"	124260518
5/16"	1/4 NPT	1.5	11/16"	124260528
3/8"	1/4 NPT	1.66	11/16"	124260628
3/8"	3/8 NPT	1.7	7/8"	124260638

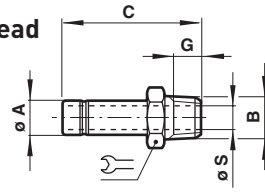
Stem adaptor 10115/12115 Inch O/D stem to BSPT thread



O/D Tube A	Thread B	C	G	Ø S		Model
5/32"	1/8 NPT	1.18	0.3	0.08	0.39	101150418
5/32"	1/4 NPT	1.32	0.44	0.08	0.55	101150428
1/4"	1/8 NPT	1.26	0.3	0.16	0.47	121150418
1/4"	1/4 NPT	1.4	0.44	0.16	0.55	121150428
5/16"	1/8 NPT	1.3	0.3	0.2	0.55	101150818
5/16"	1/4 NPT	1.44	0.44	0.2	0.55	101150828
3/8"	1/4 NPT	1.57	0.44	0.3	0.59	121150628
3/8"	3/8 NPT	1.77	0.5	0.3	0.75	121150638
1/2"	3/8 NPT	1.89	0.5	0.39	0.75	121150738
1/2"	1/2 NPT	2.03	0.63	0.39	0.87	121150748

Straight stem adaptor 12415

O/D tube stem to taper NPTF thread

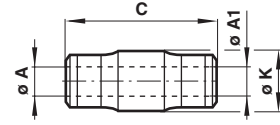


O/D Tube A	Thread B	C	G	Ø S		Model
5/32"	10-32	1.14	0.2	0.08	5/16"	124150210
5/32"	1/8 NPT	1.25	0.37	0.08	7/16"	124150218
5/32"	1/4 NPT	1.45	0.56	0.08	9/16"	124150228
1/4"	1/8 NPT	1.33	0.37	0.16	7/16"	124150418
1/4"	1/4 NPT	1.52	0.56	0.16	9/16"	124150428
5/16"	1/8 NPT	1.37	0.37	0.19	7/16"	124150518
5/16"	1/4 NPT	1.56	0.56	0.19	9/16"	124150528
3/8"	1/4 NPT	1.74	0.56	0.3	9/16"	124150628
3/8"	3/8 NPT	1.82	0.56	0.3	11/16"	124150638
1/2"	3/8 NPT	1.95	0.56	0.35	11/16"	124150738
1/2"	1/2 NPT	2.15	0.75	0.35	7/8"	124150748

Straight connector 10020/12037

inch tube to mm tube

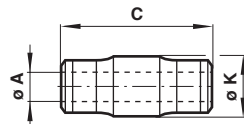
Dimensions shown in inch



O/D Tube A	O/D Tube A1	C	Ø K	Model
5/32"	4 mm	1.17	0.35	100200400
3/16"	5 mm	1.26	0.43	120370305
1/4"	6 mm	1.28	0.47	120370406
5/16"	8 mm	1.35	0.55	100200800
3/8"	10 mm	1.71	0.66	120370610
1/2"	12 mm	1.98	0.81	120370712

Straight connector 12020

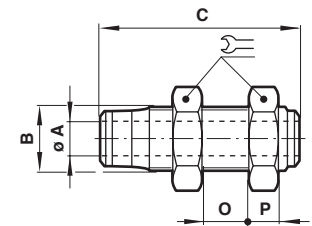
O/D tube to O/D tube



O/D Tube A	C	Ø K	Model
1/8"	1.15	0.35	120200100
5/32"	1.17	0.39	120200200
3/16"	1.26	0.43	120200300
1/4"	1.28	0.47	120200400
5/16"	1.35	0.55	120200500
3/8"	1.71	0.67	120200600
1/2"	1.98	0.81	120200700

Bulkhead connector 12029

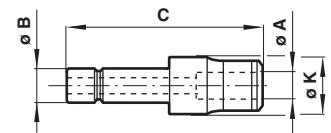
O/D tube to O/D tube



O/D Tube A	Thread B	C	O	P		Model
1/8"	M10 x 1.0	1.15	0.47	0.20	0.55	120290100
5/32"	M10 x 1.0	1.18	0.47	0.20	0.55	120290200
3/16"	M12 x 1.0	1.26	0.55	0.20	0.67	120290300
1/4"	M14 x 1.5	1.38	0.59	0.24	0.75	120290400
5/16"	M16 x 1.5	1.42	0.63	0.24	0.87	120290500
3/8"	M20 x 1.5	1.69	0.55	0.28	1.06	120290600
1/2"	M24 x 1.5	1.97	0.59	0.28	1.18	120290700

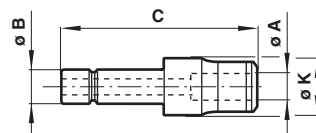
Tube end reducer 12023

tube stem to O/D tube



Tube end expander

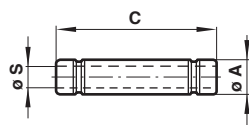
tube stem to O/D tube 12023



O/D Tube A	Stem O/D B	C	Ø K	Model
1/4"	1/8"	1.34	0.47	120230104
1/4"	5/32"	1.38	0.47	120230204
1/4"	3/16"	1.4	0.47	120230304

O/D Tube A	Stem O/D B	C	Ø K	Model
1/8"	5/32"	1.22	0.35	120230201
1/8"	1/4"	1.3	0.35	120230401
5/32"	1/4"	1.34	0.39	120230402
5/32"	5/16"	1.22	0.39	120230502
5/32"	3/8"	1.22	0.47	120230602
3/16"	1/4"	1.38	0.43	120230403
3/16"	5/16"	1.3	0.43	120230503
1/4"	5/16"	1.46	0.47	120230504
1/4"	3/8"	1.5	0.47	120230604
1/4"	1/2"	1.38	0.55	120230704
5/16"	3/8"	1.69	0.55	120230605
5/16"	1/2"	1.65	0.55	120230705
3/8"	1/2"	1.97	0.67	120230706

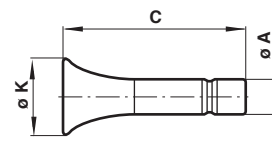
Straight stem connector 12022



O/D Tube A	C	Ø S	Model
1/8"	1.18	0.09	120220100
5/32"	1.19	0.13	120220200
3/16"	1.31	0.16	120220300
1/4"	1.34	0.24	120220400
5/16"	1.42	0.3	120220500
3/8"	1.77	0.38	120220600
1/2"	2.05	0.45	120220700

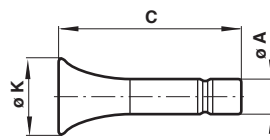
Plug 12004 (Nickel plated brass)

Dimensions shown in inch



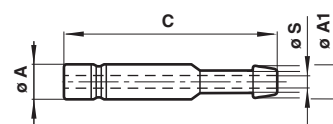
O/D Tube A	C	Ø K	Model
1/8"	1.02	0.34	120040100
5/32"	1.04	0.38	120040200
3/16"	1.1	0.42	120040300
1/4"	1.12	0.46	120040400
5/16"	1.16	0.5	120040500
3/8"	1.34	0.61	120040600
1/2"	1.48	0.66	120040700

Plug 13004 (Plastic)



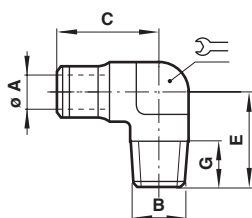
O/D Tube A	C	Ø K	Model
5/32"	1.04	0.38	130040200
3/16"	1.1	0.41	130040300
1/4"	1.12	0.46	130040400
5/16"	1.16	0.5	130040500
3/8"	1.34	0.61	130040600
1/2"	1.48	0.65	130040700

Stem tailpiece adaptor 12019 O/D tube stem to hose bore



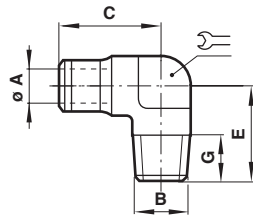
O/D Tube A	A1 mm	C	Ø S	Model
1/8"	1.34	0.17	0.06	120190101
5/32"	1.35	0.17	0.07	120190201
1/4"	1.43	0.24	0.11	120190403
5/16"	1.47	0.31	0.17	120190504
3/8"	1.7	0.37	0.22	120190605
1/2"	1.84	0.47	0.29	120190706

Fixed elbow adaptor 12145 O/D tube to male BSPT thread



O/D Tube A	Thread B	C	E	G	B	Model
1/8"	R1/8	0.66	0.63	0.34	0.27	121450118
3/16"	R1/8	0.72	0.65	0.34	0.27	121450318
1/4"	R1/8	0.77	0.67	0.34	0.42	121450418
3/16"	R1/4	0.78	0.8	0.44	0.38	121450328

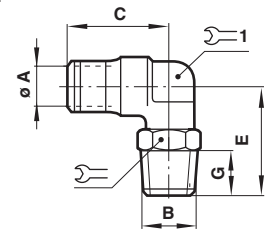
Fixed elbow adaptor 12445 O/D tube to male NPTF thread



O/D Tube A	Thread B	C	E	G		Model
1/8"	1/8 NPT	0.67	0.66	0.37		124450118
5/32"	1/8 NPT	0.67	0.66	0.37		124450218
5/32"	1/4 NPT	0.72	0.92	0.56		124450228
3/16"	1/8 NPT	0.72	0.67	0.37		124450318
3/16"	1/4 NPT	0.79	0.92	0.56		124450328
1/4"	1/8 NPT	0.77	0.7	0.37		124450418
1/4"	1/4 NPT	0.79	0.92	0.56		124450428
1/4"	3/8 NPT	0.84	1.1	0.56		124450438
5/16"	1/8 NPT	0.84	0.74	0.37		124450518
5/16"	1/4 NPT	0.84	0.92	0.56		124450528
3/8"	1/8 NPT	1.05	0.8	0.37		124450618
3/8"	1/4 NPT	1.05	0.98	0.56		124450628
3/8"	3/8 NPT	1.05	1.1	0.56		124450638
3/8"	1/2 NPT	1.13	1.36	0.75		124450648
1/2"	1/4 NPT	1.25	1.03	0.56		124450728
1/2"	3/8 NPT	1.25	1.1	0.56		124450738
1/2"	1/2 NPT	1.25	1.36	0.75		124450748

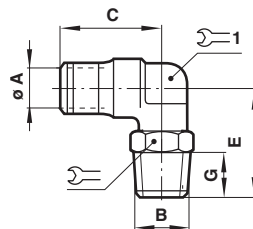
Swivel male elbow 12477 O/D tube to male NPTF thread

Dimensions shown in inch



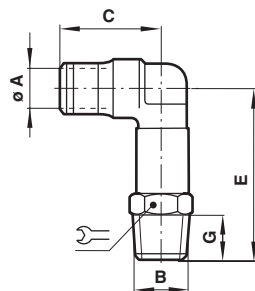
O/D Tube A	Thread B	C	E	G		Model
1/8"	10-32 UNF	0.63	0.73	0.2	5/16"	124770110
1/8"	1/8 NPT	0.63	0.82	0.37	7/16"	124770118
1/8"	1/4 NPT	0.68	1.07	0.37	9/16"	124770128
5/32"	10-32 UNF	0.67	0.77	0.2	5/16"	124770210
5/32"	1/8 NPT	0.67	0.86	0.37	7/16"	124770218
5/32"	1/4 NPT	0.67	1.07	0.56	9/16"	124770228
3/16"	1/8 NPT	0.72	0.88	0.37	7/16"	124770318
3/16"	1/4 NPT	0.72	1.09	0.56	9/16"	124770328
1/4"	1/8 NPT	0.77	0.9	0.37	7/16"	124770418
1/4"	1/4 NPT	0.77	1.11	0.56	9/16"	124770428
1/4"	3/8 NPT	0.8	1.15	0.56	3/4"	124770438
5/16"	1/8 NPT	0.84	0.96	0.37	9/16"	124770518
5/16"	1/4 NPT	0.84	1.15	0.56	9/16"	124770528
3/8"	1/8 NPT	1.05	1.05	0.37	9/16"	124770618
3/8"	1/4 NPT	1.05	1.26	0.56	11/16"	124770628
3/8"	3/8 NPT	1.05	1.26	0.56	3/4"	124770638
3/8"	1/2 NPT	1.05	1.48	0.75	7/8"	124770648
1/2"	1/4 NPT	1.25	1.37	0.56	3/4"	124770728
1/2"	3/8 NPT	1.25	1.41	0.56	3/4"	124770738
1/2"	1/2 NPT	1.25	1.62	0.75	7/8"	124770748

Swivel elbow adaptor 12147/10147 O/D tube to male BSPT thread



O/D Tube A	Thread B	C	E	G		Model
1/8"	R1/8	0.63	0.86	0.34	0.39	121470118
5/32"	R1/8	0.66	0.81	0.3	0.39	101400418
3/16"	R1/8	0.73	0.86	0.34	0.43	121470318
1/4"	R1/8	0.77	0.88	0.34	0.43	121470418
5/16"	R1/8	0.84	0.91	0.34	0.55	101470818
5/32"	R1/4	0.66	0.95	0.44	0.55	101470428
3/16"	R1/4	0.72	1.04	0.44	0.55	121470328
1/4"	R1/4	0.77	0.99	0.44	0.55	121470428
5/16"	R1/4	0.84	1.03	0.44	0.55	101470828
3/8"	R1/4	1.05	1.13	0.44	0.67	121470628
1/2"	R1/4	1.25	1.25	0.44	0.75	121470728
3/8"	R3/8	1.05	1.2	0.5	0.67	121470638
3/8"	R1/2	1.25	1.36	0.63	0.87	121470648
1/2"	R3/8	1.05	1.35	0.5	0.87	121470738
1/2"	R1/2	1.25	1.5	0.63	0.87	121470748

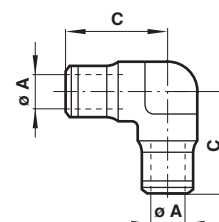
Extended swivel elbow adaptor 12454 O/D tube to male NPTF thread



O/D Tube A	Thread B	C	E	G		Model
5/32"	1/8 NPT	0.67	1.39	0.37	7/16"	124540218
5/32"	1/4 NPT	0.77	1.49	0.37	7/16"	124540228
1/4"	1/8 NPT	0.67	1.71	0.56	9/16"	124540418
1/4"	1/4 NPT	0.77	1.75	0.56	9/16"	124540428
3/8"	1/4 NPT	1.05	2.1	0.56	11/16"	124540628
3/8"	3/8 NPT	1.05	2.1	0.56	3/4"	124540638

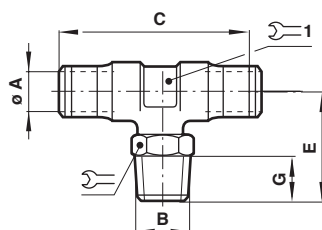
Elbow connector 12040 O/D tube to O/D tube

Dimensions shown in inch



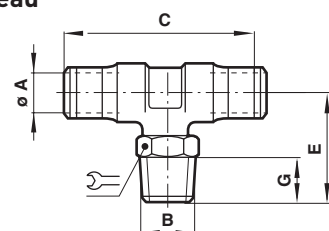
O/D Tube A	C	Model
1/8"	0.65	120400100
5/32"	0.67	120400200
3/16"	0.72	120400300
1/4"	0.77	120400400
5/16"	0.84	120400500
3/8"	1.05	120400600
1/2"	1.25	120400700

Swivel tee adaptor 12167/10167 O/D tube to male taper BSP thread



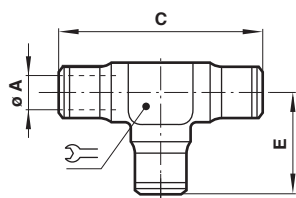
O/D Tube A	Thread B	C	E	G			Model
5/32"	R1/8	1.33	0.81	0.34	0.39	0.28	101670418
1/4"	R1/8	1.54	0.88	0.34	0.34	0.35	121670418
5/32"	R1/4	1.33	0.95	0.44	0.55	0.28	101670428
1/4"	R1/4	1.54	0.99	0.44	0.43	0.35	121670428
3/8"	R1/4	2.1	1.13	0.44	0.43	0.52	121670618
1/2"	R1/4	2.5	1.25	0.44	0.43	0.63	121670728
3/8"	R3/8	2.1	1.2	0.5	0.5	0.52	121670638
1/2"	R3/8	2.5	1.34	0.5	0.5	0.63	121670738

Swivel male centre tee 12467 O/D tube to male NPTF thread



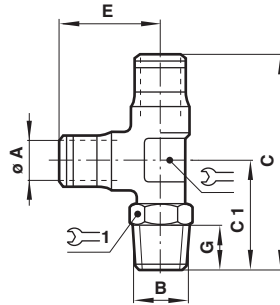
O/D Tube A	Thread B	C	E	G		Model
1/8"	10-32 UNF	1.25	0.73	0.2	5/16"	124670110
1/8"	1/8 NPT	1.26	0.81	0.37	7/16"	124670118
1/8"	1/4 NPT	1.34	1.07	0.56	9/16"	124670128
5/32"	10-32 UNF	1.34	0.77	0.2	5/16"	124670210
5/32"	1/8 NPT	1.33	0.86	0.37	7/16"	124670218
5/32"	1/4 NPT	1.33	1.07	0.56	9/16"	124670228
3/16"	1/8 NPT	1.45	0.88	0.37	7/16"	124670318
3/16"	1/4 NPT	1.45	1.09	0.56	9/16"	124670328
1/4"	1/8 NPT	1.54	0.9	0.37	7/16"	124670418
1/4"	1/4 NPT	1.54	1.12	0.56	9/16"	124670428
1/4"	3/8 NPT	1.57	1.2	0.56	3/4"	124670438
5/16"	1/8 NPT	1.68	0.96	0.37	9/16"	124670518
5/16"	1/4 NPT	1.68	1.15	0.56	9/16"	124670528
3/8"	1/8 NPT	2.1	0.66	0.37	9/16"	124670618
3/8"	1/4 NPT	2.1	1.26	0.56	11/16"	124670628
3/8"	3/8 NPT	2.1	1.26	0.56	3/4"	124670638
3/8"	1/2 NPT	2.1	1.48	0.75	7/8"	124670648
1/2"	1/4 NPT	2.5	1.37	0.56	3/4"	124670728
1/2"	3/8 NPT	2.5	1.41	0.56	3/4"	124670738
1/2"	1/2 NPT	2.5	1.62	0.75	7/8"	124670748

Tee connector 12060 O/D tube to O/D tube



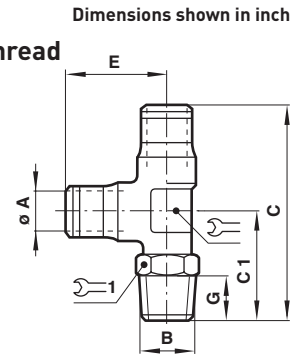
O/D Tube A	C	E	Ø K		Model
1/8"	1.26	0.63	0.32	0.2	120600100
5/32"	1.34	0.67	0.4	0.28	120600200
3/16"	1.44	0.72	0.44	0.28	120600300
1/4"	1.54	0.77	0.48	0.31	120600400
5/16"	1.68	0.84	0.56	0.43	120600500
3/8"	2.1	1.05	0.67	0.52	120600600
1/2"	2.5	1.25	0.81	0.63	120600700

Swivel side tee adaptor, O/D tube to male taper BSP thread 12168/10168



O/D Tube A	Thread B	C	C1	E	G			Model
5/32"	R1/8	1.47	0.81	0.66	0.34	0.28	0.39	101680418
3/16"	R1/8	1.59	0.86	0.72	0.34	0.35	0.34	121680318
1/4"	R1/8	1.65	0.88	0.77	0.34	0.35	0.34	121680418
5/16"	R1/8	1.74	0.91	0.84	0.34	0.43	0.55	101680818
5/32"	R1/4	1.61	0.95	0.72	0.44	0.28	0.55	101680428
3/16"	R1/4	1.69	0.97	0.72	0.44	0.34	0.43	121680328
1/4"	R1/4	1.76	1	0.77	0.44	0.35	0.43	121680428
5/16"	R1/4	1.87	1.03	0.84	0.44	0.43	0.55	101680828
3/8"	R1/4	2.19	1.13	1.05	0.44	0.52	0.43	121680628
1/2"	R1/4	2.5	1.25	1.24	0.44	0.63	0.43	121680728
3/8"	R3/8	2.25	1.2	1.05	0.5	0.52	0.5	121680638
1/2"	R3/8	2.59	1.34	1.25	0.5	0.63	0.5	121680738

Swivel male side tee adaptor , O/D tube to male taper NPTF thread 12468



O/D Tube A	Thread B	C	C1	E	G			Model
1/8"	10-32	1.36	0.63	1.36	0.63	-	5/16"	124680110
1/8"	1/8 NPT	1.36	0.73	0.63	0.63	0.20	7/16"	124680118
1/8"	1/4 NPT	1.44	0.77	0.67	0.67	0.27	9/16"	124680128
5/32"	10-32	1.44	0.67	1.44	0.67	-	5/16"	124680210
5/32"	1/8 NPT	1.52	0.86	0.67	0.67	0.27	7/16"	124680218
5/32"	1/4 NPT	1.73	1.07	0.67	0.67	0.27	9/16"	124680228
3/16"	1/8 NPT	1.6	0.88	0.72	0.72	0.35	7/16"	124680318
3/16"	1/4 NPT	1.81	1.09	0.72	0.72	0.35	9/16"	124680328
1/4"	1/8 NPT	1.67	0.9	0.77	0.77	0.35	7/16"	124680418
1/4"	1/4 NPT	1.88	1.11	0.77	0.77	0.35	9/16"	124680428
1/4"	3/8 NPT	1.59	0.81	0.79	0.79	0.31	3/4"	124680438
5/16"	1/8 NPT	1.8	0.96	0.84	0.84	0.43	9/16"	124680518
5/16"	1/4 NPT	1.98	1.15	1.98	0.84	0.43	9/16"	124680528
3/8"	1/8 NPT	2	0.94	1.05	1.05	0.52	9/16"	124680618
3/8"	1/4 NPT	2.31	1.26	1.05	1.05	0.52	11/16"	124680628
3/8"	3/8 NPT	2.31	1.26	1.05	1.05	0.52	3/4"	124680638
3/8"	1/2 NPT	2.53	1.48	1.05	1.05	0.52	7/8"	124680648
1/2"	1/4 NPT	2.62	1.37	1.25	1.25	0.63	3/4"	124680728
1/2"	3/8 NPT	2.65	1.41	1.25	1.25	0.63	3/4"	124680738
1/2"	1/2 NPT	2.87	1.62	1.25	1.25	0.63	7/8"	124680748

Warning

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

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

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.