

- > Port size: Ø 4/2,5 ... 15/12,5 mm (OD/ID tube)
- > Neat, compact design
- > Precision machined for complete reliability
- > Corrosion resistant
- > Unique barb shape ensures good grip on tube even if fitting is tightened by hand
- > Ideal for use in confined spaces where tight bend radii are required



### Technical features

#### Medium:

Compressed air

#### Operating pressure:

15 bar (218 psi) maximum

#### Thread sizes:

M5, 1/8", 1/4", 3/8" or 1/2"

#### Tube sizes:

4/2,5 mm, 5/3 mm, 6/4 mm,  
8/6 mm, 10/8 mm, 12/10 mm,  
15/12,5 mm OD/ID

#### Tube types:

PUR or PA extra flexibility

#### Ambient/Media temperature:

-18°C ... +70°C (-0,4 ... +158°F)

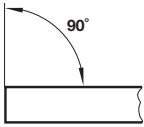
#### Materials:

Nut and body: Nickel plated brass  
to OT58 UNI 5705

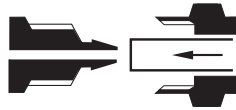
'O' ring: NBR 70

Sealing washer: PA 66

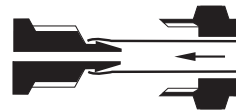
### Method of assembly



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



2. Place the knurled nut over the tube.



3. Push the tube over the barbed end of the fitting up to the tube stop.



4. Screw the knurled nut onto the fitting until finger tight. The hexagon on the nut is to aid release.

**Straight adaptors and connectors**

<p><b>Straight male adaptor</b> 24125</p>  <p>Page 3</p>	<p><b>Straight male adaptor with seal</b> 24225</p>  <p>Page 3</p>	<p><b>Straight female adaptor</b> 24226</p>  <p>Page 3</p>	<p><b>Straight male adaptor</b> 24020</p>  <p>Page 3</p>	<p><b>Bulkhead connector</b> 24029</p>  <p>Page 3</p>
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**Elbow adaptors and connectors**

<p><b>Elbow male adaptor</b> 24145</p>  <p>Page 4</p>	<p><b>Elbow female adaptor</b> 24246</p>  <p>Page 4</p>	<p><b>Swivel elbow adaptor with seal</b> 24247</p>  <p>Page 4</p>	<p><b>Elbow connector</b> 24040</p>  <p>Page 4</p>
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**Tee connectors and adaptors**

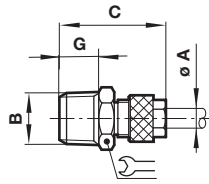
<p><b>Tee male adaptor</b> 24165</p>  <p>Page 4</p>	<p><b>Tee connector</b> 24060</p>  <p>Page 5</p>	<p><b>Side tee male adaptor</b> 24175</p>  <p>Page 4</p>	<p><b>Equal cross connector</b> 24090</p>  <p>Page 5</p>
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**Elbow banjo assembly**

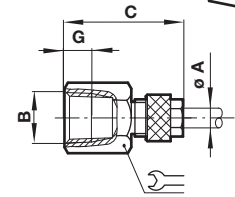
<p><b>Banjo flow regulator with seals</b> Regulating out 24K51</p>  <p>Page 6</p>	<p><b>Elbow banjo assembly with seals</b> 24A51</p>  <p>Page 5</p>	<p><b>Tee elbow banjo assembly with seals</b> 24A71</p>  <p>Page 5</p>
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**Accessories**

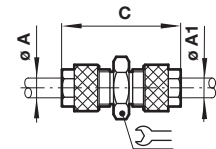
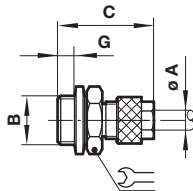
<p><b>Tubing nut</b> 24001</p>  <p>Page 6</p>	<p><b>Plug</b> 24005</p>  <p>Page 6</p>
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**Straight male adaptor**  
**24125**


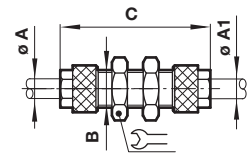
Ø A O/D / I/D tube	B	C	G		Model
4/2,5	R1/8	23	7,5	12	241250418
5/3	R1/8	23	7,5	12	241250518
6/4	R1/8	25,5	7,5	12	241250618
6/4	R1/4	29,5	11	14	241250628
6/4	R3/8	30	11,5	17	241250638
8/6	R1/8	27	7,5	14	241250818
8/6	R1/4	31	11	14	241250828
8/6	R3/8	31,5	11,5	17	241250838
8/6	R1/2	34	14	22	241250848
10/8	R1/8	29	7,5	14	241251018
10/8	R1/4	33	11	14	241251028
10/8	R3/8	33,5	11,5	17	241251038
10/8	R1/2	36,5	14	22	241251048
12/10	R3/8	35	11,5	17	241251238
12/10	R1/2	38	14	22	241251248
15/12,5	R1/2	40	14	22	241251548

**Straight female adaptor**  
**24226**


Ø A O/D / I/D tube	B	C	G		Model
6/4	G1/8	23,5	7,5	14	242260618
6/4	G1/4	27	11	17	242260628
6/4	G3/8	28	11,5	22	242260638
8/6	G1/8	24,5	7,5	14	242260818
8/6	G1/4	28,5	11	17	242260828
8/6	G3/8	29	11,5	22	242260838
8/6	G1/2	33	15	24	242260848
10/8	G1/4	30,5	11	17	242261028
10/8	G3/8	33,5	11,5	22	242261038
10/8	G1/2	35,5	15	24	242261048

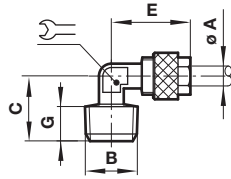
**Straight male adaptor**  
**24202**

**Straight male adaptor with seal**  
**24225**



Ø A O/D / I/D tube	B	C	G		Model
4/2,5	M5	19,5	3	8	242250405
4/2,5	G1/8	21,5	4	13	242250418
5/3	M5	22	3	8	242250505
5/3	G1/8	24	4	13	242250518
6/4	M5	22	3	8	242250605
6/4	G1/8	24	4	13	242250618
6/4	G1/4	17	5	17	242250628
6/4	G3/8	19	6	19	242250638
6/4	G1/2	24	7	24	242250648
8/6	G1/8	14	4	14	242250818
8/6	G1/4	17	5	17	242250828
8/6	G3/8	19	6	19	242250838
8/6	G1/2	24	7	24	242250848
10/8	G1/8	14	4	14	242251018
10/8	G1/4	17	5	17	242251028
10/8	G3/8	19	6	19	242251038
10/8	G1/2	24	7	24	242251048
12/10	G3/8	19	6	19	242251238
12/10	G1/2	24	7	24	242251248
15/12,5	G1/2	24	7	24	242251548

**Bulkhead connector**  
**24209**


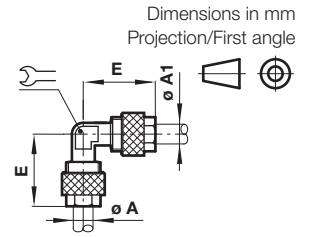
Ø A O/D / I/D tube	Ø A1 O/D / I/D tube	B	C		Model
4/2,5	4/2,5	M6x0,5	39,5	9	240290400
5/3	5/3	M7x0,75	39,5	9	240290500
6/4	6/4	M10x1	45,5	14	240290600
8/6	6/4	M12x1	47,5	17	240290806
8/6	8/6	M12x1	48,5	17	240290800
10/8	10/8	M14x1	54	17	240291000
12/10	12/10	M16x1	57	19	240291200
15/12,5	15/12,5	M20x1	59	24	240291500


**Elbow male adaptor  
24145**



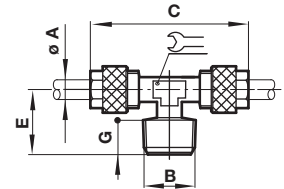
Ø A O/D / I/D tube	B	C	E	G		Model
4/2,5	R1/8	15	18,5	7,5	8	241450418
5/3	R1/8	15	18,5	7,5	8	241450518
6/4	R1/8	15	18,5	7,5	8	241450618
6/4	R1/4	19	20,5	11	8	241450628
6/4	R3/8	20,5	21	11,5	9	241450638
8/6	R1/8	16,5	20	7,5	9	241450818
8/6	R1/4	19	22	11	9	241450828
8/6	R3/8	21	23,5	11,5	9	241450838
8/6	R1/2	28	23,5	14	16	241450848
10/8	R1/8	18	24	7,5	11	241451018
10/8	R1/4	22	24	11	11	241451028
10/8	R3/8	22	25,5	11,5	11	241451038
10/8	R1/2	16	28	25,5	11	241451048
12/10	R3/8	22,5	27	11,5	13	241451238
12/10	R1/2	28	27	14	16	241451248
15/12,5	R1/2	28	31,5	14	16	241451548

**Elbow connector  
24040**



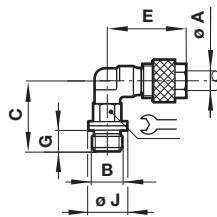
Ø A O/D / I/D tube	Ø A1 O/D / I/D tube	E		1	Model
4/2,5	4/2,5	20	8		240400400
5/3	5/3	20,5	8		240400500
6/4	6/4	20,5	8		240400600
6/4	8/6	22	9		240400806
8/6	8/6	22	9		240400800
10/8	10/8	25,5	11		240401000
12/10	12/10	27	13		240401200
15/12,5	15/12,5	33,5	16		240401500


**Tee male adaptor  
24165**



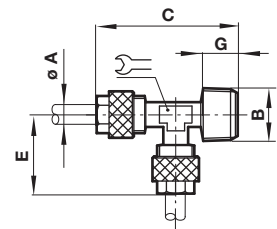
Ø A O/D / I/D tube	B	C	E	G		Model
4/2,5	R1/8	37	15	7,5	8	241650418
5/3	R1/8	37	15	7,5	8	241650518
6/4	R1/8	37	15	7,5	8	241650618
6/4	R1/4	41	19	11	9	241650628
8/6	R1/8	40	16,5	7,5	9	241650818
8/6	R1/4	44	20,5	11	9	241650828
10/8	R1/8	48	18	7,5	11	241651018
10/8	R1/4	48	22	11	11	241651028
10/8	R3/8	51	22	11,5	11	241651038
12/10	R3/8	54	22,5	11,5	13	241651238
15/12,5	R1/2	63	28	14	16	241651548

**Swivel elbow adaptor with seal  
24247**

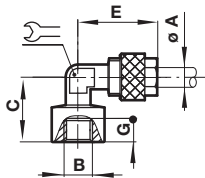


Ø A O/D / I/D tube	B	C	E	G	Ø J		Model
6/4	G1/8	20	20,5	4	14	14	242470618
6/4	G1/4	22	20,5	5	18	17	242470628
8/6	G1/8	20	21,5	4	14	14	242470818
8/6	G1/4	23	23	5	18	17	242470828
10/8	G1/4	24	24	5	18	17	242471028


**Side tee male adaptor  
24175**



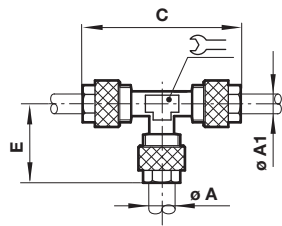
**Elbow female adaptor  
24246**



Ø A O/D / I/D tube	B	C	E	G		Model
5/3	G1/8	18	20,5	7,5	8	242460518
6/4	G1/8	18	20,5	7,5	8	242460618
6/4	G1/4	21	21	11	9	242460628
8/6	G1/8	19	22	7,5	9	242460818
8/6	G1/4	21	23,5	11	9	242460828
10/8	G1/4	22	25,5	11	11	242461028
10/8	G3/8	25	25,5	11,5	14	242461038

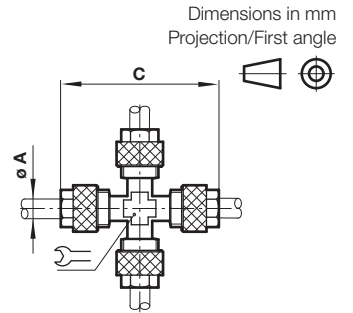
Ø A O/D / I/D tube	B	C	E	G		Model
5/3	R1/8	36,5	20,5	7,5	8	241750518
6/4	R1/8	36,5	20,5	7,5	8	241750618
6/4	R1/4	40	20,5	11	8	241750628
8/6	R1/8	38	22	7,5	9	241750818
8/6	R1/4	41,5	22	11	9	241750828
10/8	R1/8	41,5	25,5	7,5	11	241751018
10/8	R1/4	45	25,5	11	11	241751028
10/8	R3/8	45,5	25,5	11,5	11	241751038
12/10	R3/8	48,5	28	11,5	13	241751238

**Tee connector  
24060**



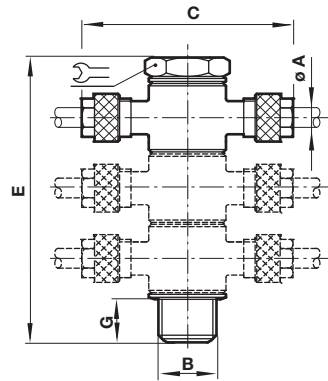
Ø A O/D / I/D tube	Ø A1	C	E		Typ
4/2,5	4/2,5	38,5	19,5	8	240600400
5/3	5/3	41	20,5	8	240600500
6/4	6/4	41	20,5	8	240600600
8/6	6/4	44	20,5	9	240600806
8/6	8/6	44	22	9	240600800
10/8	6/4	51	20,5	11	240601006
10/8	8/6	51	22	11	240601008
10/8	10/8	51	25,5	11	240601000
12/10	12/10	54	28	13	240601200
15/12,5	15/12,5	63	32,5	16	240601500

**Equal cross connector  
24090**



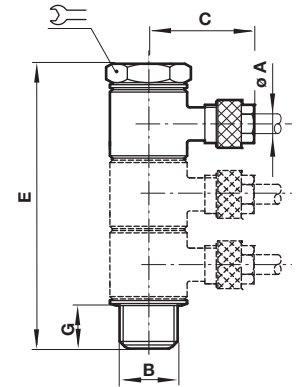
Ø A O/D / I/D tube	C		Typ
6/4	41,5	8	240900600
8/6	44,5	9	240900800
10/8	51	11	240901000
12/10	58	13	240901200

**Tee elbow banjo assembly with seals  
24A71**



Ø A O/D / I/D tube	B	C	E	G	Version		Model
4/2,5	M5	33	18	4	single	8	24A710405
4/2,5	G1/8	46,5	27,5	6	single	14	24A710418
5/3	M5	33	18	4	single	8	24A710505
5/3	G1/8	46,5	27,5	6	single	14	24A710518
6/4	M5	33	18	4	single	8	24A710605
6/4	G1/8	46,5	27,5	6	single	14	24A710618
6/4	G1/4	50,5	30	8	single	17	24A710628
6/4	G3/8	53,5	30,5	9	single	19	24A710638
8/6	G1/8	49,5	27,5	6	single	14	24A710818
8/6	G1/4	55	30	8	single	17	24A710828
8/6	G3/8	55,5	30,5	9	single	19	24A710838
8/6	G1/2	61	31,5	10	single	24	24A710848
12/10	G3/8	63	30,5	9	single	19	24A711238
12/10	G1/2	70	31,5	10	single	24	24A711248
4/2,5	G1/8	46,5	43	6	double	14	24B710418
6/4	G1/4	50,5	46	8	double	17	24B710628
8/6	G1/4	55	46	8	double	17	24B710828
10/8	G1/4	59	46	8	double	17	24B711028
4/2,5	G1/8	46,5	59	6	triple	14	24C710418
6/4	G1/4	50,5	62	8	triple	17	24C710628
8/6	G1/4	55	62	8	triple	17	24C710828
10/8	G1/4	59	62	8	triple	17	24C711028

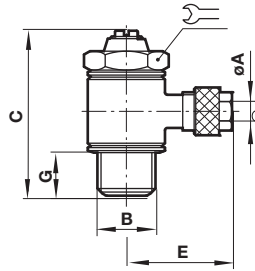
**Elbow banjo assembly with seals  
24A51**




Ø A O/D / I/D tube	B	C	E	G	Version		Model
4/2,5	M5	16,5	18	4	single	8	24A510405
4/2,5	G1/8	23,5	27,5	6	single	14	24A510418
5/3	M5	16,5	18	4	single	8	24A510505
5/3	G1/8	23,5	27,5	6	single	14	24A510518
6/4	M5	16,5	18	4	single	8	24A510605
6/4	G1/8	23,5	27,5	6	single	14	24A510618
6/4	G1/4	25,5	30	8	single	17	24A510628
6/4	G3/8	27	30,5	9	single	19	24A510638
8/6	G1/8	24,5	27,5	6	single	14	24A510818
8/6	G1/4	27,5	30	8	single	17	24A510828
8/6	G3/8	27,5	30,5	9	single	19	24A510838
10/8	G1/4	29,5	30	8	single	17	24A511028
12/10	G3/8	31,5	30,5	9	single	19	24A511238
12/10	G1/2	35	31,5	10	single	24	24A511248
4/2,5	G1/8	23,5	43	6	double	14	24B510418
5/3	G1/8	23,5	43	6	double	14	24B510518
6/4	G1/8	23,5	43	6	double	14	24B510618
6/4	G1/4	25,5	46	8	double	17	24B510628
8/6	G1/4	27,5	46	8	double	17	24B510828
10/8	G1/4	29,5	46	8	double	17	24B511028
10/8	G1/2	34	47,5	10	double	24	24B511048
12/10	G3/8	31,5	46,5	9	double	19	24B511238
4/2,5	G1/8	23,5	59	6	triple	14	24C510418
6/4	G1/4	25,5	62	8	triple	17	24C510628
8/6	G1/4	27,5	62	8	triple	17	24C510828
10/8	G1/4	29,5	62	8	triple	17	24C511028

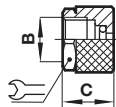
**Banjo flow regulator with seals**  
**Regulating out**  
**24K51**


Dimensions in mm  
Projection/First angle



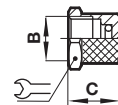
Ø A O/D / I/D tube	B	C	E	G		Typ
4/2,5	M5	16,5	24	4	8	24K510405
4/2,5	G1/8	23,5	30,5	6	14	24K510418
6/4	M5	16,5	24	4	8	24K510605
6/4	G1/8	23,5	30,5	6	14	24K510618
6/4	G1/4	25,5	30,5	8	17	24K510628
8/6	G1/8	24,5	30,5	6	14	24K510818
8/6	G1/4	27,5	35,5	8	17	24K510828
10/8	G1/4	29,5	35,5	8	17	24K511028


**Tubing nut**  
**24001**



Ø A O/D / I/D tube	C	Ø K		Model
4/2,5	10	8	7	240010400
5/3	10	9	8	240010500
6/4	11	12	10	240010600
8/6	11,5	14	12	240010800
10/8	13,5	16	14	240011000
12/10	15	18	15	240011200

**Plug**  
**24005**



Ø A O/D / I/D tube	B	C		Model
4/3	M6 x 0,5	10,5	8	240050400
6/4	M10 x 1	11,5	12	240050600
8/6	M12 x 1	13,5	14	240050800

**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.