

Pneufit® E series

Push-in fittings and flow controls for electric vehicle battery plants

- Zinc and Copper free
- Metric tube sizes Ø4 ... 12mm
- Port sizes ISO G 1/8 ... 1/2 and metric M5
- Easy to install and remove the tubes by pushing them in with one movement
- Screw threads with O-ring sealing
- Applications up to 20 bar and 80°C
- The compact design makes it easy to mount in a small area.



Technical features

Medium:
Compressed air

Operating positive pressure:
20 bar max.

Operating negative pressure:
-29.5 in Hg / -750mm Hg (-750Torr)

Thread sizes:
ISO G 1/8 ... 1/2 and metric M5

Operating temperature range:
- 20 ... 80°C

Tube sizes:
Ø4 ... 12mm

Standards:
Conforms to BS ISO 14743
Push-in connectors for thermoplastic tubes

Tube materials:
Nylon PA11 or PA12
Polyurethane 85, 95 or 98 durometer

Clean / Dry Room class:
Class 4 to ISO 14644-1
-40°C dew point (<0.5% RH)

Materials:
Body case: Polyamide - PA66
Body thread: Stainless steel - SUS303
Sealing: NBR
Back ring: POM
Collet/release sleeve: Polyamide - PA66
Grab ring/claw: Stainless steel
Flow control needle: Stainless steel - SUS303
Flow control handle: Stainless steel - SUS303

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.

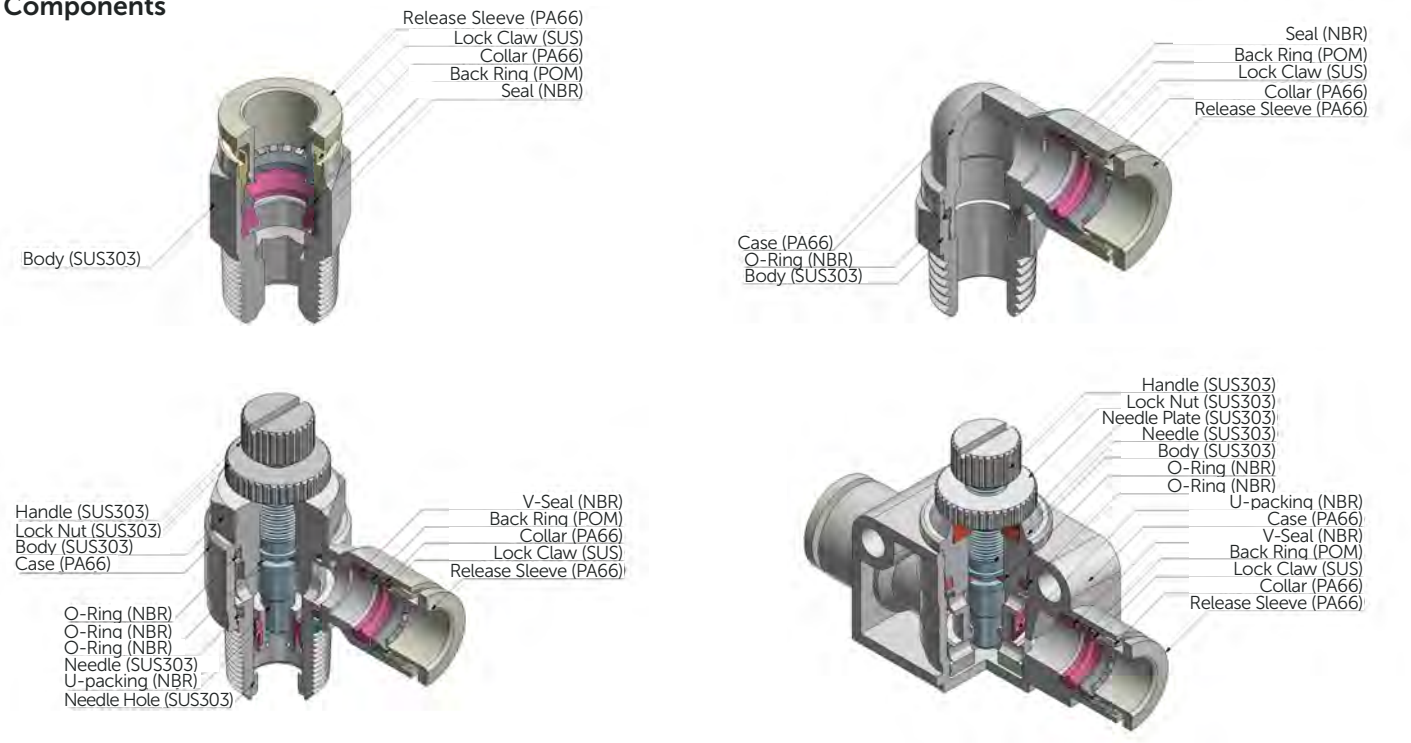


3. Continue pushing the tube through the 'O'-ring until it bottoms on the tube stop then pull back.



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

Components



Straight, elbow and tee adaptors

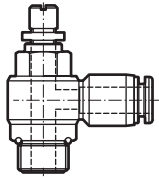
Straight Union E002  Page 4	Straight adaptor, ISO G and metric M5 E0225  Page 4	90° Swivel elbow adap- tor, ISO G and metric M5 E0247  Page 5	Swivel tee adaptor, ISO G E0267  Page 5
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Elbow and in-line flow controls

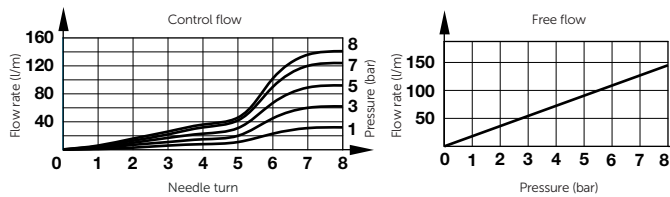
Elbow flow control, ISO G and metric M5 E0K51  Page 6	In-line flow control E00GE  Page 6
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Thread	Recommended torque	Thread	Recommended torque
M5	1,5 Nm		
M6	2,3 Nm		
G1/8	10 Nm	R1/8	7 Nm
G1/4	15 Nm	R1/4	12 Nm
G3/8	25 Nm	R3/8	22 Nm
G1/2	40 Nm	R1/2	28 Nm

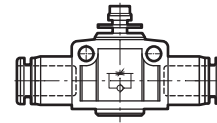
Flow controllers flowrate for E0K51



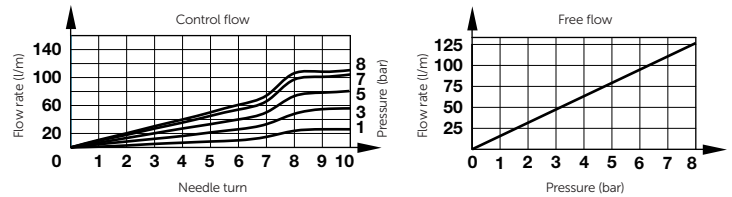
4 and 6 mm M5



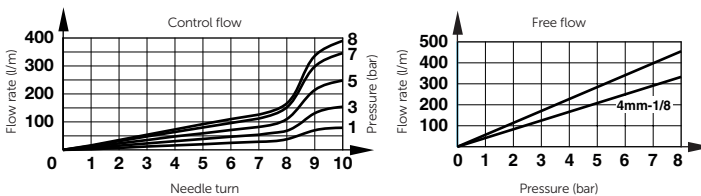
Speed controllers flowrate for E00GE



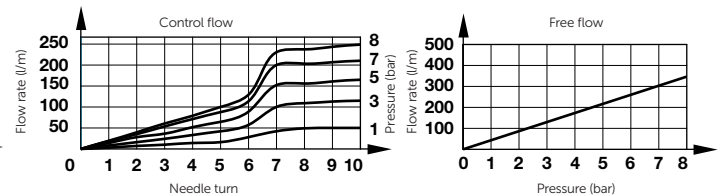
E00GE0400



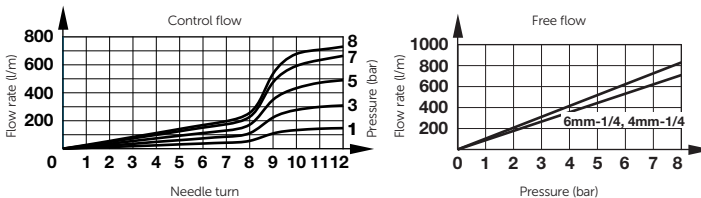
4, 6 and 8 mm 1/8



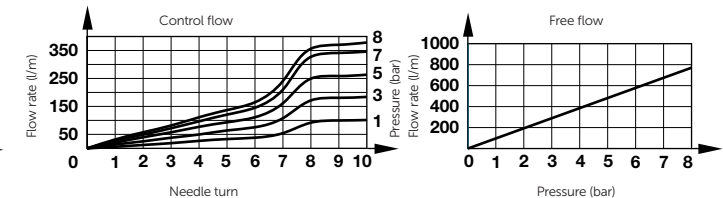
E00GE0600



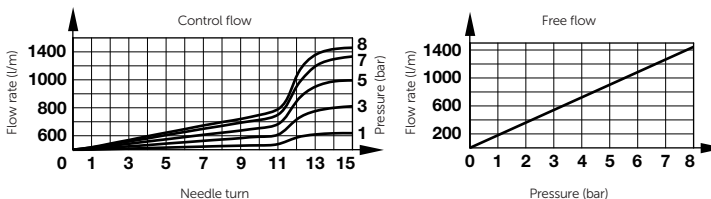
4, 6, 8 mm 1/4



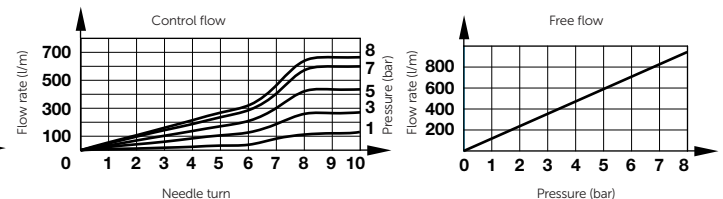
E00GE0800



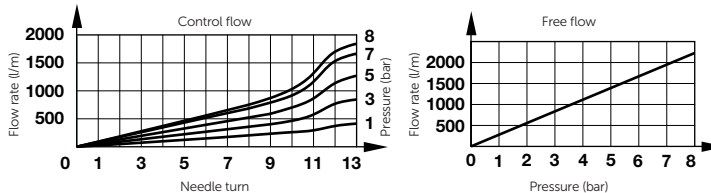
6, 8, 10 and 12 mm 3/8



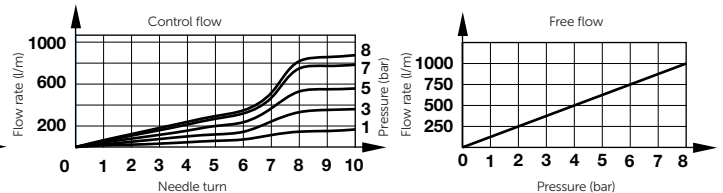
E00GE1000



10 and 12 mm, 1/2

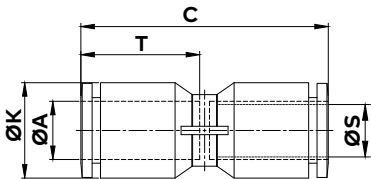


E00GE1200



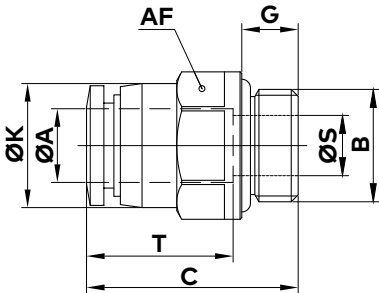
Straight Union
E002

Dimensions in mm
Projection/First angle



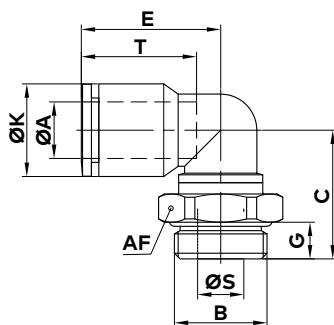
Ø A	C	ØK	ØS	T	Weight (g)	Pack size	Model
4	27.0	9.3	3.5	13.0	1.5	10	E00200400
6	31.2	11.5	5.0	15.0	2.4	10	E00200600
8	35.2	13.6	7.0	16.9	3.4	10	E00200800
10	39.6	16.4	9.0	18.9	5.4	10	E00201000
12	44.6	19.5	11.	21.4	8.6	10	E00201200

Straight adaptor, ISO G
E0225



Ø A	B	C	G	ØK	ØS	T	AF	Weight (g)	Pack size	Model
4	M5	20.9	4	10	2.5	14.7	10	8.5	10	E02250405
4	G1/8	19.6	5	10,3	3	14.4	13	10.6	10	E02250418
4	G1/4	21.1	6,5	10,3	3	14.4	15	18,6	10	E02250428
6	M5	23.1	4	12	2.5	16.4	12	10.6	10	E02250605
6	G1/8	20,3	5	12,3	4	15,5	13	9,4	10	E02250618
6	G1/4	22,3	6,5	12,3	5	15,5	15	16,4	10	E02250628
6	G3/8	21,3	6,5	12,3	5	15,5	17	22,4	10	E02250638
8	G1/8	26,7	5	14,3	5	18,2	15	16,1	10	E02250818
8	G1/4	24,2	6,5	14,3	6	18,2	15	15,1	10	E02250828
8	G3/8	23,2	6,5	14,3	6	18,2	17	23,1	10	E02250838
10	G3/8	25,2	6,5	16,5	8	19,5	17	18,8	10	E02251038
10	G1/2	25,7	8	16,5	8	19,5	21	37,8	10	E02251048
12	G3/8	26,8	6,5	19	8	21,5	19	21,1	10	E02251238
12	G1/2	27,8	8	19	8	21,5	21	34,1	10	E02251248

90° Swivel elbow adaptor, ISO G E0247

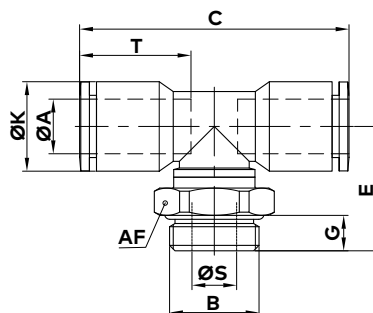


Dimensions in mm
Projection/First angle



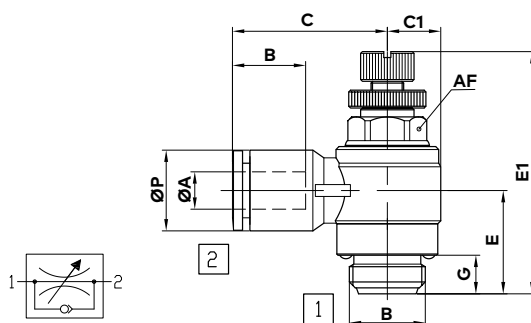
ØA	B	C	E	G	ØK	ØS	T	AF	Weight (g)	Pack size	Model
4	M5	16,2	15,5	4	9,3	2,2	13	9	7	10	E02470405
4	G1/8	16,7	15,5	5	9,3	3,5	13	14	8,2	10	E02470418
4	G1/4	18,7	15,5	6,5	9,3	3,5	13	17	13,4	10	E02470428
6	M5	17,5	17,3	4	11,5	2,2	15	9	8	10	E02470605
6	G1/8	18	17,3	5	11,5	4	15	14	8,7	10	E02470618
6	G1/4	20	17,3	6,5	11,5	4	15	17	14	10	E02470628
6	G3/8	19,5	17,3	6,5	11,5	4	15	20	19,7	10	E02470638
8	G1/8	21,8	21,2	5	13,6	6	16,9	14	10,3	10	E02470818
8	G1/4	21,8	21,2	6,5	13,6	6	16,9	17	14,4	10	E02470828
8	G3/8	21,3	21,2	6,5	13,6	6	16,9	20	19,4	10	E02470838
10	G3/8	22,8	24,7	6,5	16,4	9	18,9	20	20	10	E02471038
10	G1/2	22,9	24,7	8	16,4	9	18,9	24	30,5	5	E02471048
12	G3/8	24,5	28,3	6,5	19,5	9,6	21,4	20	21,6	5	E02471238
12	G1/2	26	28,3	8	19,5	9,6	21,4	24	32,1	5	E02471248

Swivel tee adaptor, ISO G E0267



ØA	B	C	E	G	ØK	ØS	T	AF	Weight (g)	Pack size	Model
4	G1/8	31	16,7	5	9,3	3,5	13	14	8,9	10	E02670418
4	G1/4	31	18,7	6,5	9,3	3,5	13	17	14,1	10	E02670428
6	G1/8	34,6	18	5	11,5	4	15	14	9,9	10	E02670618
6	G1/4	34,6	20	6,5	11,5	4	15	17	15,2	10	E02670628
6	G3/8	34,6	19,5	6,5	11,5	4	15	20	20,9	10	E02670638
8	G1/8	42,4	21,8	5	13,6	6	16,9	14	11,9	10	E02670818
8	G1/4	42,4	21,8	6,5	13,6	6	16,9	17	16	10	E02670828
8	G3/8	42,4	21,3	6,5	13,6	6	16,9	20	21	10	E02670838
10	G3/8	49,4	22,8	6,5	16,4	9	18,9	20	22,5	5	E02671038
10	G1/2	49,4	24,3	8	16,4	9	18,9	24	33	5	E02671048
12	G3/8	56,6	24,5	6,5	19,5	9,6	21,4	20	25,6	5	E02671238
12	G1/2	56,6	26	8	19,5	9,6	21,4	24	36,1	5	E02671248

Elbow flow control EOK51

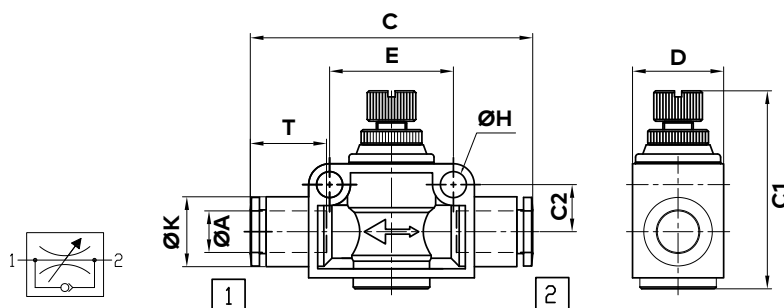


Dimensions in mm
Projection/First angle



Ø A	B	C	C1	E	<E1	>E1	G	ØK	T	AF	Weight (g)	Pack size	Model
4	M5	17,8	4,9	10,2	28,8	33,1	3,6	9,3	13	8	16	10	EOK510405
4	G1/8	20	7,1	15,2	34,6	39,8	6	9,3	12,9	8	20	10	EOK510418
4	G1/4	21,9	9	18,2	39,8	46,1	8	9,3	12,9	12	36	10	EOK510428
6	M5	20,9	4,9	11,25	28,8	33,1	3,6	11,5	15	8	17	10	EOK510605
6	G1/8	22,1	7,1	15,2	34,6	39,8	6	11,5	15	8	21	10	EOK510618
6	G1/4	24	9	18,3	39,8	46,1	8	11,5	15	12	37	10	EOK510628
6	G3/8	26,1	11,1	21,2	47,7	54,9	8	11,5	15	14	70	5	EOK510638
8	G1/8	24,2	7,1	13,9	34,6	39,8	6	13,6	17,1	8	22	10	EOK510818
8	G1/4	26,1	9	17,4	39,8	46,1	8	13,6	17,1	8	38	10	EOK510828
8	G3/8	28,2	11,1	21,2	47,7	54,9	8	13,6	17,1	14	71	5	EOK510838
10	G3/8	29,5	11,1	19,9	47,7	54,9	8	16,4	18,4	14	73	5	EOK511038
10	G1/2	32,2	13,8	23	54,5	61,7	9	16,4	18,4	17	110	5	EOK511048
12	G3/8	32,7	11,1	19,1	47,7	54,9	8	29,5	20,4	14	75	5	EOK511238
12	G1/2	35,2	13,8	21,4	54,5	61,7	9	29,5	21,4	17	113	5	EOK511248

In-line flow control E00GE



Ø A	C	C2	<C1	>C1	D	E	Ø H	Ø K	T	Weight (g)	Pack size	Model
4	38,8	5,4	26,4	28,9	11	15,4	3,2	9,5	13,4	13	10	E00GE0400
6	46,5	7,8	33,5	37,9	15	20,4	4,3	11,5	15	28	10	E00GE0600
8	53,1	8,5	35,5	41,5	18	23	4,3	13,6	17,1	45	5	E00GE0800
10	60,4	10,6	40,7	48,7	22,5	27,6	4,3	16,4	18,9	84	5	E00GE1000
12	70,8	11,9	45	53,5	26,5	32,4	4,3	19,5	21,4	123	3	E00GE1200

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.

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.