

COTA0, COSA0, COK51, COL51, COTB0, COKB0, COT56, COK56

Banjo flow regulators

Uni-directional

Ø 4 ... 12, M5, 1/8" ... 1/2"

High flow performance

Adjustment can be locked

Captive regulator needle will not blow out when unscrewed

Nickel plated brass components provide corrosion and contamination resistance and an extended life.

Pre applied thread sealant on all taper threads and recessed captive O-ring on parallel threads provides optimum rapid sealing.

Immediate quality sealing using silicone free U-packing.



Technical features

Medium:

Compressed air

Operating:

Banjo flow regulators

Operating pressure:

10 bar max.

Tube size:

4, 6, 8, 10, 12 mm

Thread size:

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

ISO G and ISO R

Tubing types:

Nylon 11 or 12

Polyurethane 85, 95 or 98 durometer

Fluid/Ambient temperature:

0°C ... +60°C

Air supply must be dry enough to avoid ice formation at temperatures below +2°C.

Materials

Body: PBT

Seals: NBR (silicone free)

u-packing and O-rings

Threaded bodies: nickel plated brass

Release sleeve and backing ring: POM

Grab-ring: stainless steel

Collar: ZNDC

Thread sealant: Threebond 2350B

Options selector

C0★★★★★★

Thread form & flow direction	Substitute
ISO G, flow regulation OUT	K
ISO G, flow regulation IN	L
ISO R, flow regulation IN	S
ISO R, flow regulation OUT	T
Body style and adjustment	Substitute
Banjo with knob (ISO R)	A0
Banjo with shroud	B0
Banjo with knob (ISO G)	51
Universal with knob	56

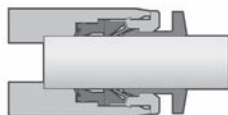
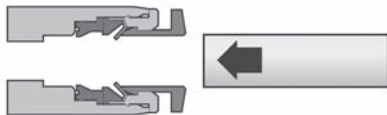
Thread size	Substitute
M5	05
1/8"	18
1/4"	28
3/8"	38
1/2"	48
O/D tube size (mm)	Substitute
4	04
6	06
8	08
10	10
12	12

Method of assembly

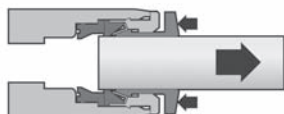


1. Ensure that the end of the tube is cut square and is free from burrs.

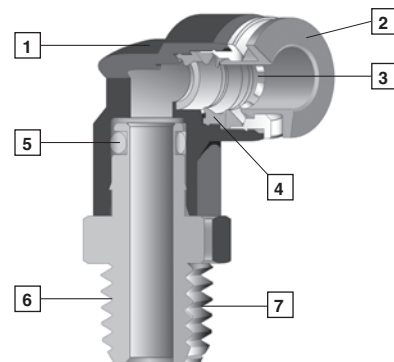
2. Push the tube through the collet into the fitting..



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

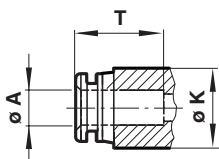


4. To disconnect push the tube into the fitting, hold down the collet and withdraw the tube.



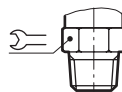
- 1 Impact resistant PBT body in black
- 2 Release buttons are red for metric, grey for inch
- 3 Stainless steel grab ring with special design to retain softer tube and provide easy releasability.
- 4 Silicon free U-packing provides leak tight tube seal under side loading.
- 5 Stem seal provides leak tight 360° swivel connection.
- 6 Nickel plated brass threads and notches on hex to signify NPT.
- 7 Pre-applied thread sealant on tapered threads and recessed captive O-ring on parallel threads.

Technical data



Ø A	Ø K	T*1)
4	10,5	15
6	12,5	16,5
8	14,5	18,5
10	17,5	20
12	20,5	23
16	27	23,5

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

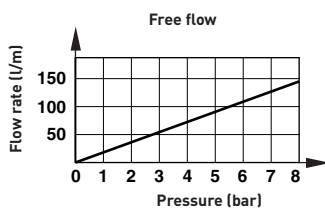
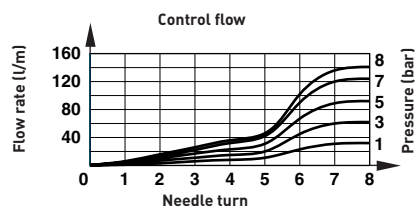


Thread	Recommended torque
M5	1,5 Nm
G1/8	10 Nm
R1/8	7 Nm
G1/4	15 Nm
R1/4	12 Nm
G3/8	25 Nm
R3/8	22 Nm
G1/2	40 Nm
R1/2	28 Nm

Speed controllers flowrate

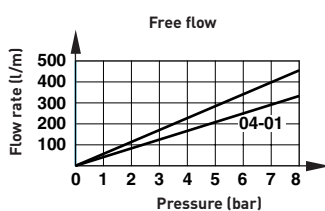
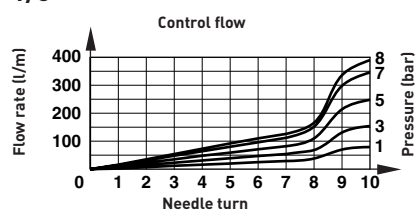
3, 4 and 6 mm

M5



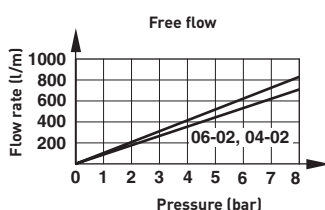
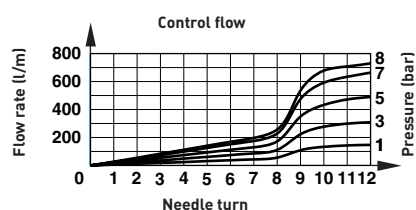
4, 6 and 8 mm

1/8



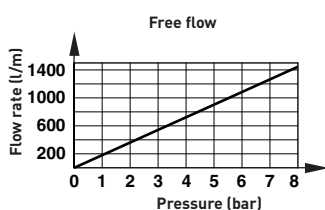
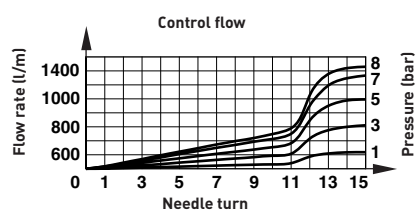
4, 6, 8, 10 and 12 mm

1/4



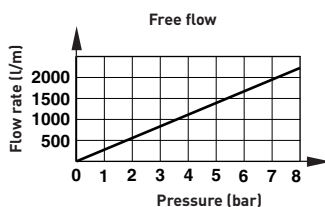
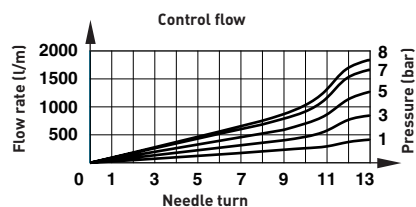
6, 8, 10 and 12 mm

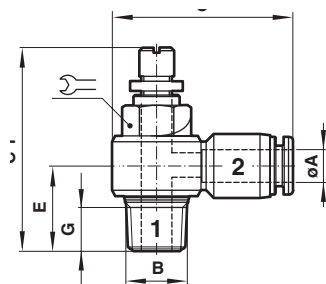
3/8



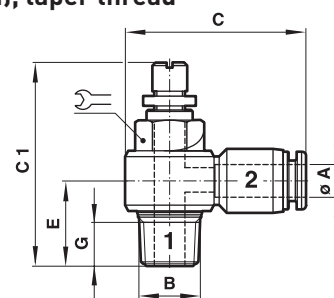
8, 10 and 12 mm

1/2

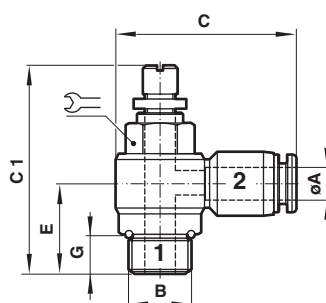


**Banjo flow regulators (out), taper thread
COTA0**


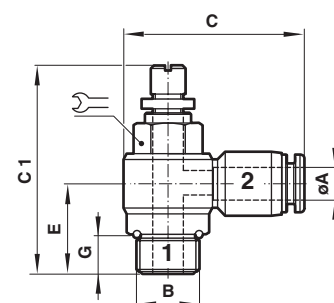
Ø A	B	C	C1 min.	C1 max.	E	G	1	2	Weight (g)	Model
4	R1/8	30,5	35	40	14,5	8	11	20		COTA00418
4	R1/4	34,5	40	45,5	18	10	15	36		COTA00428
6	R1/8	31	35	40	14,5	8	11	21		COTA00618
6	R1/4	35	40	45,5	18	10	15	37		COTA00628
6	R3/8	38,5	46,5	55	21	11	19	70		COTA00638
8	R1/8	33	35	40	15,5	8	11	22		COTA00818
8	R1/4	37	40	45,5	19	10	15	38		COTA00828
8	R3/8	40	46,5	55	21	11	19	71		COTA00838
8	R1/2	46	53	60	25	14	24	109		COTA00848
10	R1/4	39	40	45,5	20	10	15	42		COTA01028
10	R3/8	42	46,5	55	22,5	11	19	73		COTA01038
10	R1/2	47,5	53	60	25	14	24	110		COTA01048
12	R1/4	41	40	45,5	22	10	15	45		COTA01228
12	R3/8	46	46,5	55	23	11	19	75		COTA01238
12	R1/2	50	53	60	27	14	24	113		COTA01248

**Banjo flow regulators (in), taper thread
COSA0**


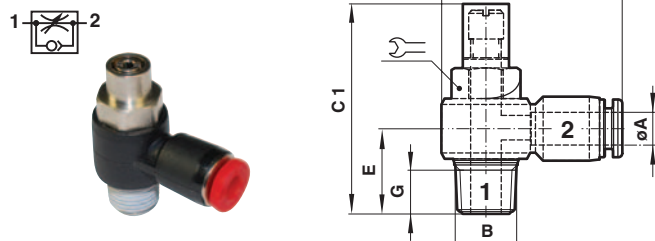
Ø A	B	C	C1 min.	C1 max.	E	G	1	2	Weight (g)	Model
4	R1/8	30,5	35	40	14,5	8	11	20		COSA00418
4	R1/4	34,5	40	45,5	18	10	15	36		COSA00428
6	R1/8	31	35	40	14,5	8	11	21		COSA00618
6	R1/4	35	40	45,5	18	10	15	37		COSA00628
6	R3/8	39	46,5	55	21	11	19	70		COSA00638
8	R1/8	33	35	40	15,5	8	11	22		COSA00818
8	R1/4	37	40	45,5	19	10	15	38		COSA00828
8	R3/8	40	46,5	55	21	11	19	71		COSA00838
8	R1/2	46	53	60	25	14	24	109		COSA00848
10	R1/4	39	40	45,5	20	10	15	42		COSA01028
10	R3/8	42	46,5	55	22,5	11	19	73		COSA01038
10	R1/2	47,5	53	60	25	14	24	110		COSA01048
12	R1/4	41	40	45,5	22	10	15	45		COSA01228
12	R3/8	46	46,5	55	23	11	19	75		COSA01238
12	R1/2	50	53	60	27	14	24	113		COSA01248

**Banjo flow regulators (out), ISO G thread
COK51**


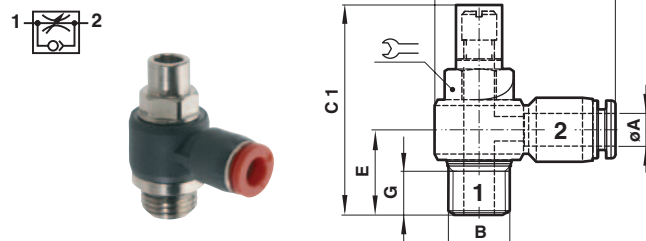
Ø A	B	C	C1 min.	C1 max.	E	G	1	2	Weight (g)	Model
3	M5	21,5	27	30	9,5	3,5	8	8		COK510305
4	M5	25	27	30	10	3,5	8	9		COK510405
4	G1/8	30,5	35	40	15	6	8	20		COK510418
4	G1/4	34,5	40	45,5	17	8	12	34		COK510428
6	M5	28	27	30	11	3,5	8	10		COK510605
6	G1/8	31	35	40	15	6	8	20		COK510618
6	G1/4	35	40	45,5	17	8	12	36		COK510628
6	G3/8	38,5	46,5	55	21	8	14	68		COK510638
8	G1/8	33	35	40	14	6	8	22		COK510818
8	G1/4	37	40	45,5	16	8	12	37		COK510828
8	G3/8	40	46,5	55	21	8	14	69		COK510838
8	G1/2	46	53	60	22,5	9	17	104		COK510848
10	G1/4	39	40	45,5	18	8	12	41		COK511028
10	G3/8	42	46,5	55	19,5	8	14	71		COK511038
10	G1/2	47,5	53	60	22,5	9	17	106		COK511048
12	G1/4	41	40	45,5	20	8	12	43		COK511228
12	G3/8	46	46,5	55	19	8	14	71		COK511238
12	G1/2	50	53	60	21	9	17	108		COK511248

**Banjo flow regulators (in), ISO G thread
COL51**


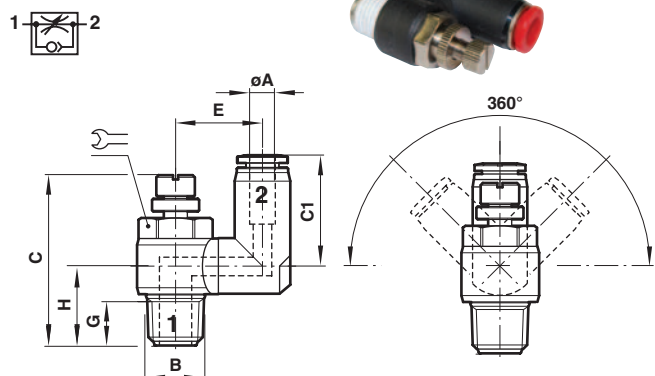
Ø A	B	C	C1 min.	C1 max.	E	G	1	2	Weight (g)	Model
3	M5	21,5	27	30	9,5	3,5	8	8		COL510305
4	M5	25	27	30	10	3,5	8	9		COL510405
4	G1/8	30,5	35	40	15	6	8	20		COL510418
4	G1/4	34,5	40	45,5	17	8	12	34		COL510428
6	M5	28	27	30	11	3,5	8	10		COL510605
6	G1/8	31	35	40	15	6	8	20		COL510618
6	G1/4	35	40	45,5	17	8	12	36		COL510628
6	G3/8	39	46,5	55	21	8	14	68		COL510638
8	G1/8	33	35	40	14	6	8	22		COL510818
8	G1/4	37	40	45,5	16	8	12	37		COL510828
8	G3/8	40	46,5	55	21	8	14	69		COL510838
8	G1/2	46	53	60	22,5	9	17	104		COL510848
10	G1/4	39	40	45,5	18	8	12	41		COL511028
10	G3/8	42	46,5	55	19,5	8	14	71		COL511038
10	G1/2	47,5	53	60	22,5	9	17	106		COL511048
12	G1/4	41	40	45,5	20	8	12	43		COL511228
12	G3/8	46	46,5	55	19	8	14	71		COL511238
12	G1/2	50	53	60	21	9	17	108		COL511248

**Shrouded flow regulators (out), taper thread
COTB0**


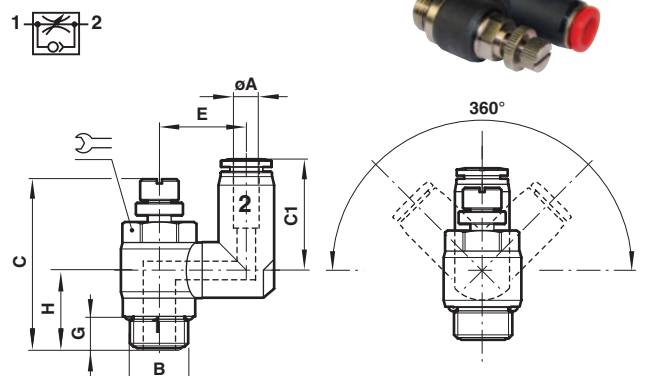
Ø A	B	C	C1 min.	C1 max.	E		Weight (g)	Model
4	R1/8	30,5	31,5	15	8	11	16	COTB00418
4	R1/4	34,5	37	18,5	10	15	35	COTB00428
6	R1/8	31	31,5	15	8	11	18	COTB00618
6	R1/4	35	37	18,5	10	15	33	COTB00628
6	R3/8	38,5	43,5	22	11	19	63	COTB00638
8	R1/8	33	31,5	16,5	8	11	20	COTB00818
8	R1/4	37	37	19,5	10	15	34	COTB00828
8	R3/8	40	43,5	22	11	19	64	COTB00838
8	R1/2	46	50	26,5	14	24	100	COTB00848
10	R1/4	39	37	21	10	15	38	COTB01028
10	R3/8	42	43,5	23,5	11	19	63	COTB01038
10	R1/2	47,5	50	26,5	14	24	103	COTB01048
12	R1/4	41	37	22,5	10	15	42	COTB01228
12	R3/8	46	43,5	24	11	19	65	COTB01238
12	R1/2	50	50	28	14	24	104	COTB01248

**Shrouded flow regulators (out), ISO G thread
COKB0**


Ø A	B	C	C1	E	G		Weight (g)	Model
4	M5	25	23	10,5	3,5	8	7	COKB00405
4	G1/8	30,5	31,5	15	6	8	16	COKB00418
4	G1/4	34,5	37	17,5	8	12	35	COKB00428
6	M5	28	23	11,5	3,5	8	9	COKB00605
6	G1/8	31	31,5	15	6	8	18	COKB00618
6	G1/4	35	37	17,5	8	12	33	COKB00628
6	G3/8	38,5	43,5	21	8	14	63	COKB00638
8	G1/8	33	31,5	14	6	8	20	COKB00818
8	G1/4	37	37	17	8	12	34	COKB00828
8	G3/8	40	43,5	21	8	14	64	COKB00838
8	G1/2	46	50	23	9	17	100	COKB00848
10	G1/4	39	37	19	8	12	38	COKB01028
10	G3/8	42	43,5	20	8	14	63	COKB01038
10	G1/2	47,5	50	23	9	17	103	COKB01048
12	G1/4	41	37	20,5	8	12	42	COKB01228
12	G3/8	46	43,5	19	8	14	65	COKB01238
12	G1/2	50	50	21,5	9	17	104	COKB01248

**Swivel flow regulators (out), taper thread
COT56**


Ø A	B	C*1	C1	E	G	H		Weight (g)	Model
4	R1/8	35/40	20,5	14,5	8	15	11	20	COT560418
4	R1/4	40/45,5	20,5	18	10	18,5	15	36	COT560428
6	R1/8	35/40	24	15,5	8	15	11	21	COT560618
6	R1/4	40/45,5	26	20,5	10	18,5	15	38	COT560628
6	R3/8	47/55	26	23,5	11	21,5	19	70	COT560638
8	R1/8	35/40	25,5	16	8	15,5	11	22	COT560818
8	R1/4	40/45,5	29	19,5	10	18,5	15	40	COT560828
8	R3/8	47/55	30	24,5	11	22	19	72	COT560838
8	R1/2	53/60	30	26,5	14	26	24	110	COT560848
10	R1/4	40/45,5	31	20,5	10	18,5	15	42	COT561028
10	R3/8	47/55	32	24,5	11	22	19	73	COT561038
10	R1/2	53/60	33	26,5	14	26,5	24	112	COT561048
12	R1/4	40/45,5	33,5	22	10	18,5	15	44	COT561228
12	R3/8	47/55	34,5	24,5	11	22	19	79	COT561238
12	R1/2	53/60	36	26,5	14	26,5	24	116	COT561248

**Swivel flow regulators (out), ISO G thread
COK56**


Ø A	B	C*1	C1	E	G	H		Weight (g)	Model
4	M5	27/30	20,5	12,5	3,6	9,5	8	9	COK560405
4	G1/8	35/40	20,5	14,5	8	15,5	8	19	COK560418
4	G1/4	40/45,5	20,5	18	12	17,5	12	36	COK560428
6	M5	27/30	22,5	13,5	3,6	9,5	8	10	COK560605
6	G1/8	35/40	24	15,5	8	15,5	8	21	COK560618
6	G1/4	40/45,5	26	20,5	12	17,5	12	39	COK560628
6	G3/8	47/55	26	23,5	14	21,5	14	70	COK560638
8	G1/8	35/40	25,5	16	8	14,5	8	22	COK560818
8	G1/4	40/45,5	28,8	19,5	12	17,5	12	39	COK560828
8	G3/8	47/55	30	24,5	14	21	14	71	COK560838
8	G1/2	53/60	30	26,5	17	23	17	110	COK560848
10	G1/4	40/45,5	31	20,5	12	17,5	12	42	COK561028
10	G3/8	47/55	32	24,5	14	21	14	73	COK561038
10	G1/2	53/60	33	26,5	17	23	17	112	COK561048
12	G1/4	40/45,5	33,5	22	12	17,5	12	44	COK561228
12	G3/8	47/55	34,5	24,5	14	21	14	79	COK561238
12	G1/2	53/60	36	26,5	17	23	17	115	COK561248

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**«.

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 pneumatic 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.