

C01G2, C02G2, C01G3, C02G3

In-line non-return valve

- Port size: Ø 4 ... 12, M5, 1/8" ... 1/2"
- High flow performance
- 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.



Technical features

Medium:
Compressed air

Operating pressure:
10 bar (145 psi) max.

Tube sizes:
4 ... 12 mm

Thread sizes:
M5, 1/8, 1/4, 3/8 and 1/2 ISO G and ISO R

Tubing types:
PA 11 or 12
PUR 85, 95 or 98 durometer

Ambient/Media temperature:
0°C ... +60°C (+32 ... 140°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Materials:
Body: nickel plated brass
Seals: NBR (VMQ - free)
u-packing and O-rings
Release sleeve and backing ring: POM
Grab-ring: stainless steel
Collar: ZNDC
Thread sealant: Threebond 2350B

Options selector

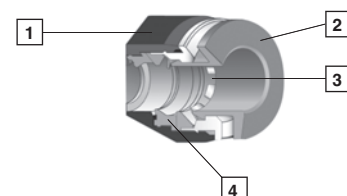
Thread form	Substitute
ISO R taper	1
ISO G parallel	2
Function	Substitute
Non-return IN, no flow from tube size to thread	2
Non-return OUT, no flow from thread size to tube	3
O/D tube size	Substitute
4	04
6	06
8	08
10	10
12	12

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Thread size	Substitute
M5	05
1/8"	18
1/4"	28
3/8"	38
1/2"	48

Method of assembly

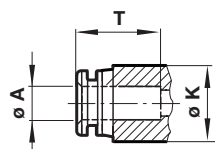
1. Ensure that the end of the tube is cut square and is free from burrs.
2. Push the tube through the collet into the fitting.
3. Continue pushing the tube through the 'O'-ring until it bottoms on the tube stop then pull back.
4. To disconnect push the tube into the fitting, hold down the collet and 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.

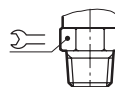
Technical data

Dimensions in mm
Projection/First angle



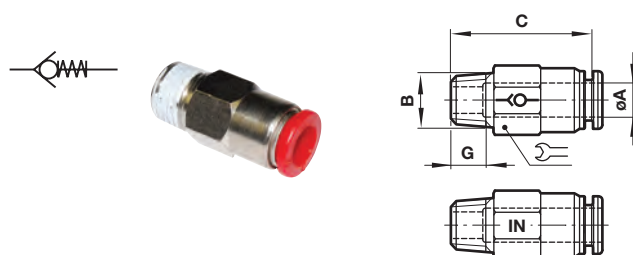
Ø A	Ø K	T*1)
4	10,5	15
6	12,5	16,5
8	14,5	18,5
10	17,5	20
12	20,5	23

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



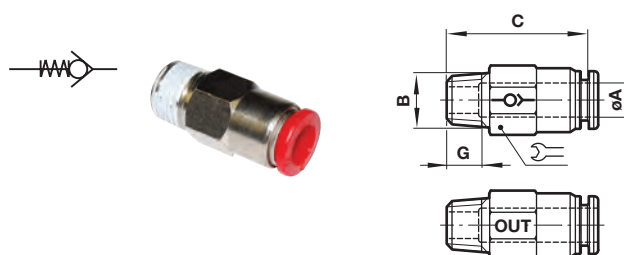
Thread	Recommended torque
M5	1,5 Nm
G1/8	10 Nm
R1/8	7 Nm
G1/4	15 Nm
R1/4	12 Nm
G3/8	25 Nm
R3/8	22 Nm
G1/2	40 Nm
R1/2	28 Nm

In-line non-return valve (in), taper thread C01G2



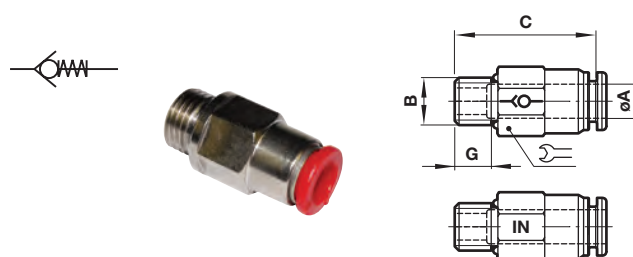
Ø A	B	C	G		Weight (g)	Model
4	R1/8	27,5	8	10	11	C01G20418
6	R1/8	32,5	8	12	16	C01G20618
8	R1/4	37,5	10	14	24	C01G20828

In-line non-return valve (out), taper thread C01G3



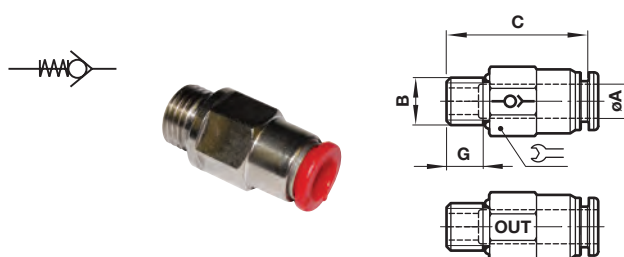
Ø A	B	C	G		Weight (g)	Model
4	R1/8	27,5	8	10	11	C01G30418
6	R1/8	32,5	8	12	16	C01G30618
8	R1/4	37,5	10	14	24	C01G30828

In-line non-return valve (in), ISO G thread C02G2



Ø A	B	C	G		Weight (g)	Model
4	M5	31,5	3,5	10	11	C02G20405
4	G1/8	27,5	6	10	11	C02G20418
6	G1/8	32,5	6	12	16	C02G20618
8	G1/4	37	7	15	24	C02G20828
10	G3/8	54	8	22	35	C02G21038
12	G1/2	60,5	9	24	40	C02G21248

In-line non-return valve (out), ISO G thread C02G3



Ø A	B	C	G		Weight (g)	Model
4	M5	31,5	3,5	10	11	C02G30405
4	G1/8	27,5	6	10	11	C02G30418
6	G1/8	32,5	6	12	16	C02G30618
8	G1/4	37	7	15	24	C02G30828
10	G3/8	54	8	22	35	C02G31038
12	G1/2	60,5	9	24	40	C02G31248

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.