

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97

Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

www.norgren.nt-rt.ru | | ner@nt-rt.ru

Технические характеристики на фитинги для шлангов, вставные фитинги из нержавеющей стали, композитные фитинги Pneufit M, Pneufit S, BSP, 15, 16 series КОМПАНИИ **IMI NORGREN**

Виды товаров: коллекторы соединительные, дроссели, регуляторы потока, редукционные клапаны, приклеенные уплотнительные шайбы, адаптеры, втулки, тройники, гайки, прямые разъемы, прямые переходники с внутренней резьбой, контргайки, переходники с ниппелем, соединители коленчатого штока, коннекторы, прямые штуцеры, ниппели и др.

- > Port size: Ø 4 ... 12 mm O/D tube, BSP parallel and taper threads
- > Resistant to aggressive environments
- > Suitable for food and beverage applications
- > Very compact units
- > Easy tube insertion and removal for rapid assembly of pneumatic circuits
- > Positive tube anchorage
- > Straight adaptors feature internal hexagon for allen key
- > Swivel function on all elbows and tees



Technical features

Medium:

Compressed air
 (For other media please consult Technical Department)

Operating pressure:

Vacuum ... 15 bar (... 217 psi)
 (Dependent upon operating specification of tubing)

Vacuum:

-750 mm of Hg i.e. 99%

Tube sizes:

4, 6, 8, 10, 12 mm O/D

Thread sizes:

BSPT, BSPP, Metric M5

Tubing types:

PA 6, 11 or 12, PUR (98 Shore) and PTFE tubing

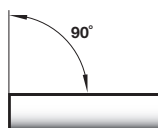
Ambient/Media temperature:

-15°C ... +225°C (+4 ... 437°F)

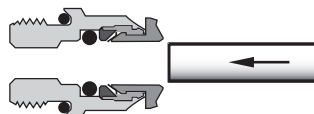
Materials:

Body, release sleeve and grab ring: Aisi 316L (1.4404) stainless steel
 'O'-ring & thread seal (BSPP): FPM
 Lubricants: FDA approved

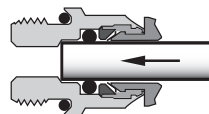
Method of assembly



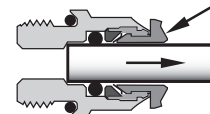
1. Ensure that the end of the tube is cleanly cut and square.



2. Push the tube through the release sleeve into the fitting.

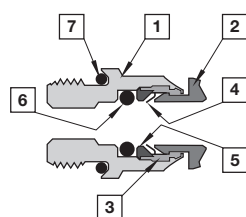


3. Continue pushing the tube through the 'O'-ring until it bottoms on the tube stop then pull back.



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

Components



- 1 Body
- 2 Release sleeve
- 3 Retainer
- 4 Grab ring
- 5 Bracking ring
- 6 'O'-ring
- 7 'O'-ring

Option selector

Thread type	S0 ★★★★★★		Thread size/tube size
Shape			Thread size/tube size

Straight adaptors and connectors

Straight adaptor (BSP taper)	Straight adaptor (BSP parallel)	Straight connector (tube to tube)	Bulkhead connector (tube to tube)
S0125	S0225	S0020	S0029
			
Page 3	Page 3	Page 3	Page 3

Elbow adaptors and connectors

90° Swivel elbow adaptor (BSP taper) S0147	90° Swivel elbow adaptor (BSP parallel) S0247	Elbow connector S0040
		
Page 3	Page 3	Page 4

Tee adaptors and connectors

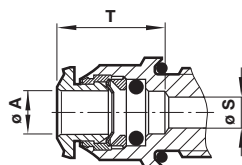
Swivel tee adaptor (BSP taper) S0167	Swivel tee adaptor (BSP parallel) S0267	Tee connector (tube x 3) S0060
		
Page 4	Page 4	Page 4

Accessories

Plug (BSP parallel) 66005	Sleeve adaptor (BSP parallel) 66022	Tee connector (BSP parallel) 66062
		
Page 5	Page 5	Page 5

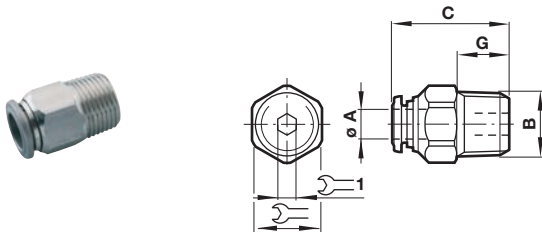
Technical data

Ø A O/D tube	Ø S	T *2)
4	3,1	14
6	4,1	16
8 (1/8" thread *1))	5,1	16
8 (1/4" thread *1))	8,1	16
10	8,1	20,5
12 (3/8" thread *1))	8,1	22,5
12 (1/2" thread *1))	10,1	22,5



*1) Straight fittings with threads have an internal hexagon to suit an Allen key - refer to tables below for sizes

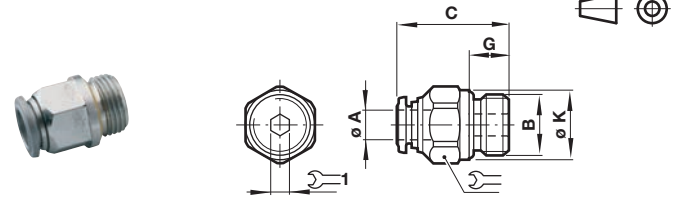
*2) Dimension with the release sleeve in the "IN" position

Straight adaptor, BSP taper
S0125


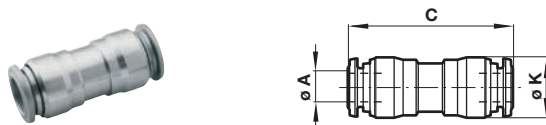
Ø A	B	C	G		 1	Weight (kg)	Model
4	R1/8	19	7,5	10	3	0,008	S01250418
4	R1/4	23	11	14	3	0,018	S01250428
6	R1/8	22,5	7,5	13	4	0,012	S01250618
6	R1/4	24,5	11	14	4	0,018	S01250628
8	R1/8	25,5	7,5	14	5	0,015	S01250818
8	R1/4	25	11	14	6	0,015	S01250828
10	R1/4	30,5	11	17	7	0,025	S01251028
10	R3/8	28	11,5	17	8	0,026	S01251038
12	R3/8	33,5	11,5	21	9	0,043	S01251238
12	R1/2	32	14	22	10	0,050	S01251248

Straight adaptor, BSP parallel
S0225

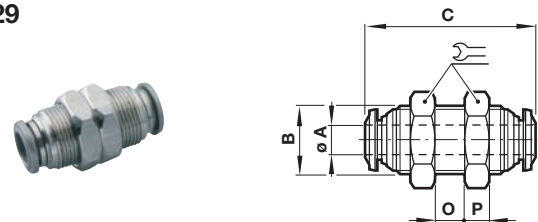
Dimensions in mm
 Projection/First angle



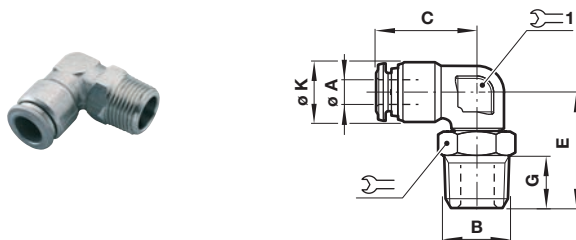
Ø A	B	C	G	Ø K		 1	Weight (kg)	Model
4	M5	20	4	8	10	2	0,009	S02250405
4	G1/8	19,5	6	13	10	3	0,008	S02250418
4	G1/4	19,5	8	15	15	3	0,015	S02250428
6	G1/8	23,5	6	13	13	4	0,013	S02250618
6	G1/4	23,5	8	15	15	4	0,018	S02250628
8	G1/8	25,5	6	13	14	5	0,015	S02250818
8	G1/4	23,5	8	15	15	6	0,016	S02250828
10	G1/4	30	8	16	17	8	0,026	S02251028
10	G3/8	27	9	20	17	8	0,026	S02251038
12	G3/8	34	9	21	21	8	0,047	S02251238
12	G1/2	31	10	25	22	10	0,049	S02251248

Straight connector, tube to tube
S0020


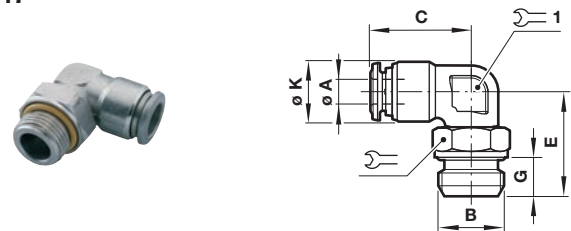
Ø A	C	Ø K	Weight (kg)	Model
4	31	10,5	0,010	S00200400
6	35	12,5	0,015	S00200600
8	36,5	14,5	0,019	S00200800
10	42	17,5	0,032	S00201000
12	48	20,5	0,049	S00201200

Bulkhead connector, tube to tube
S0029


Ø A	B	C	O max.	P	1	Weight (kg)	Model
4	M12x1	31	7	4,5	17	0,024	S00290400
6	M14x1	35	9,5	5	17	0,028	S00290600
8	M16x1	37	10,5	5,5	19	0,037	S00290800
10	M20x1	42	12,5	6	24	0,067	S00291000
12	M22x1	48	16,5	6	26	0,088	S00291200

90° Swivel elbow adaptor, BSP taper
S0147


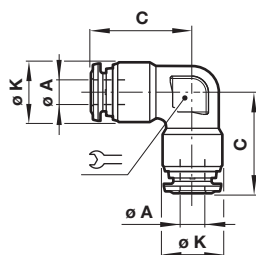
Ø A	B	C	E	G	Ø K		 1	Weight (kg)	Model
4	R1/8	18	17,5	7,5	10	11	9	0,014	S01470418
4	R1/4	18	21,5	11	10	14	9	0,019	S01470428
6	R1/8	21	19,5	7,5	12,5	11	11	0,019	S01470618
6	R1/4	21	23,5	11	12,5	14	11	0,023	S01470628
8	R1/8	22,5	20	7,5	14,5	11	12	0,022	S01470818
8	R1/4	22,5	24	11	14,5	14	12	0,027	S01470828
10	R1/4	26	25,5	11	17,5	17	16	0,044	S01471028
10	R3/8	26	27	11,5	17,5	17	16	0,051	S01471038
10	R1/2	26	30,5	14	17,5	22	16	0,060	S01471048
12	R3/8	30,5	30,5	11,5	20,5	18	19	0,072	S01471238
12	R1/2	30,5	33	14	20,5	22	19	0,081	S01471248

90° Swivel elbow adaptor, BSP parallel
S0247


Ø A	B	C	E	G	Ø K		 1	Weight (kg)	Model
4	M5	18	15	4	10	8	9	0,011	S02470405
4	G1/8	18	17	6	10	13	9	0,015	S02470418
4	G1/4	18	19,5	8	10	15	9	0,018	S02470428
6	G1/8	21	19	6	12,5	13	11	0,020	S02470618
6	G1/4	21	21,5	8	12,5	15	11	0,023	S02470628
8	G1/8	22,5	19,5	6	14,5	13	12	0,024	S02470818
8	G1/4	22,5	21,5	8	14,5	15	12	0,027	S02470828
10	G1/4	26	23	8	17,5	15	16	0,043	S02471028
10	G3/8	26	26,5	9	17,5	21	16	0,060	S02471038
10	G1/2	26	29	10	17,5	22	16	0,071	S02471048
12	G3/8	30,5	29	9	20,5	21	19	0,080	S02471238
12	G1/2	30,5	31,5	10	20,5	22	19	0,092	S02471248

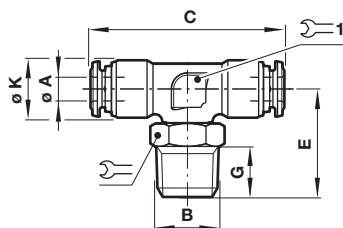
Elbow connector S0040

Dimensions in mm
Projection/First angle



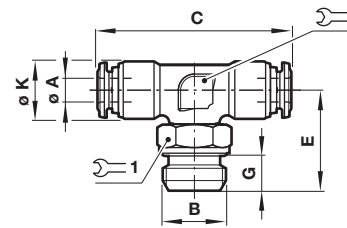
Ø A	C	Ø K		Weight (kg)	Model
4	18	10	9	0,013	S00400400
6	21	12,5	11	0,020	S00400600
8	22,5	14,5	12	0,025	S00400800
10	26	17,5	16	0,048	S00401000
12	30,5	20,5	19	0,075	S00401200

Swivel tee adaptor, BSP taper S0167



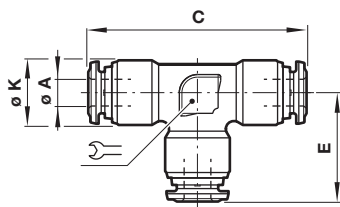
Ø A	B	C	E	G	Ø K		1	Weight (kg)	Model
4	R1/8	36	18,5	7,5	10	9	11	0,019	S01670418
4	R1/4	36	22,5	11	10	9	14	0,023	S01670428
6	R1/8	42	19,5	7,5	12,5	11	11	0,027	S01670618
6	R1/4	42	23,5	11	12,5	11	14	0,031	S01670628
8	R1/8	45	20,5	7,5	14,5	12	11	0,032	S01670818
8	R1/4	45	24,5	11	14,5	12	14	0,037	S01670828
10	R1/4	52	26	11	17,5	16	17	0,060	S01671028
10	R3/8	52	27,5	11,5	17,5	16	17	0,067	S01671038
10	R1/2	52	31	14	17,5	16	22	0,077	S01671048
12	R3/8	61	30,5	11,5	20,5	19	18	0,098	S01671238
12	R1/2	61	33	14	20,5	19	22	0,107	S01671248

Swivel tee adaptor, BSP parallel S0267

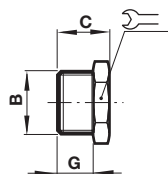


Ø A	B	C	E	G	Ø K		1	Weight (kg)	Model
4	M5	36	15	4	10	9	8	0,016	S02670405
4	G1/8	36	18	6	10	9	13	0,020	S02670418
4	G1/4	36	20,5	8	10	9	15	0,023	S02670428
6	G1/8	42	19	6	12,5	11	13	0,028	S02670618
6	G1/4	42	21,5	8	12,5	11	15	0,031	S02670628
8	G1/8	45	20	6	14,5	12	13	0,033	S02670818
8	G1/4	45	22	8	14,5	12	15	0,036	S02670828
10	G1/4	52	23,5	8	17,5	16	15	0,059	S02671028
10	G3/8	52	27	9	17,5	16	21	0,076	S02671038
10	G1/2	52	29,5	10	17,5	16	22	0,088	S02671048
12	G3/8	61	29	9	20,5	19	21	0,106	S02671238
12	G1/2	61	19	10	20,5	19	22	0,118	S02671248

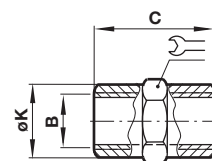
Tee connector, tube x 3 S0060



Ø A	C	E	Ø K		Weight (kg)	Model
4	36	18	10	9	0,017	S00600400
6	42	21	12,5	11	0,027	S00600600
8	45	22,5	14,5	12	0,035	S00600800
10	52	26	17,5	16	0,063	S00601000
12	61	30,5	20,5	19	0,101	S00601200

**Plug
66005**


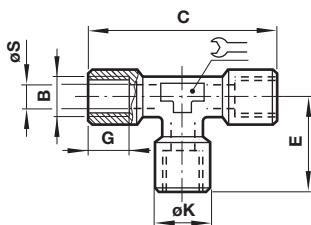
B	C	G		Weight (kg)	Model
G 1/8	10	6,5	14	0,007	660050018
G 1/4	13	9	17	0,014	660050028
G 3/8	13,5	9,5	19	0,017	660050038
G 1/2	14,5	10	24	0,026	660050048

**Sleeve adaptor
66022**


Dimensions in mm
Projection/First angle



B	C	Ø K		Weight (kg)	Model
G 1/8	15	13,5	14	0,011	660221818
G 1/4	22	16,5	17	0,021	660222828
G 3/8	24	21,5	22	0,033	660223838
G 1/2	30	25,5	27	0,062	660224848

**Tee connector
66062**


B	C	E	G	Ø K	Ø S		Weight (kg)	Model
G 1/8	37	18,5	8,5	18,5	6	12	0,032	660620018
G 1/4	49	24,5	11	24,5	8	12	0,050	660620028
G 3/8	54	27	12	27	11	15	0,077	660620038
G 1/2	64	32	15	32	15	20	0,146	660620048

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.

Compression Fittings

36 Series Metric

- > **Wide range of types and sizes**
- > **Rugged and durable**
- > **Suitable for use under extreme conditions of temperature and pressure**
- > **Leakage free tube sealing**
- > **Suitable for metallic and nylon tubing**
- > **Thread adaptor not required - machining profile available**
- > **Now available in single part number format**



Technical features

Medium:

Compressed air or any fluids compatible with the materials/ tubing listed

Operating pressure:

The maximum working pressure is limited by the type of tubing being used. See typical application below.

Ambient temperature:

The maximum working temperature is generally limited by the type of tubing being used. See typical application below.

Tube sizes:

4, 5, 6, 8, 10, 12, 16, 22, 28mm O/D

Thread types:

Parallel BSP - ISO 228

Taper BSP - ISO 7

Taper NPTF - ASME B1.20.1

Thread sizes:

1/8" ... 3/4"

Tube types:

Nylon 11 or 12 and other plasticised or unplasticised tubing which conforms to the tolerances specified in BS5409: Part 1 1976

Copper, annealed and half-hard to BS EN 12449:2016.

Double wall brazed steel.

Typical Application

Tube material - Annealed copper:

Working temperature range -200°C ... +50°C

4 mm diameter tube - 128 bar max.

28 mm diameter tube - 41 bar max.

Tube material - Nylon:

Standard temperature range -40 ... 20°C

4mm tube 28 bar max.

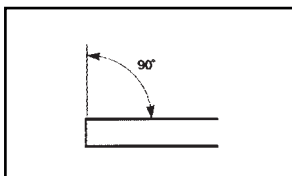
28mm tube 15 bar max.

Materials:

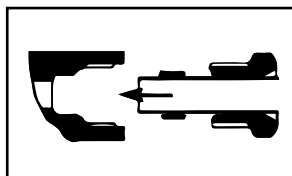
Tubing nut, sleeve & body manufactured from bar: brass to BS EN 12164:2011

Body manufactured from stamping: brass to BS EN 12165:2016

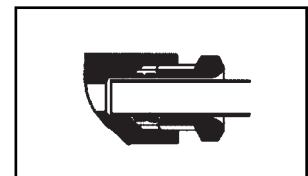
Method of Assembly



1. Ensure that the tube is cut square and is free from fraze.



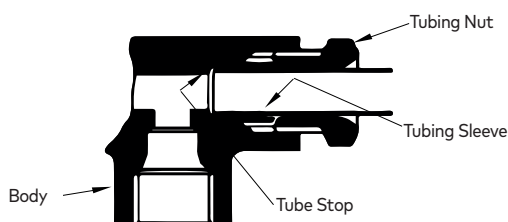
2. Place the tubing nut and sleeve on the tube and push the tube into the fitting until it bottoms on the tube stop.



3. Holding the tube firmly in contact with the tube stop screw the tubing nut down finger tight and then tighten a further 1 to 1 3/4 full turns. Slacken off the assembly and then pinch down again.

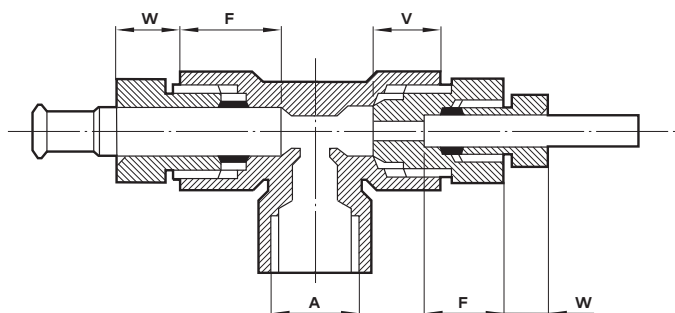
The method of preparation and assembly described will ensure leak-proof joints over a wide pressure range, depending upon the size and type of tubing being used. Failure to follow this guide, or over-tightening at any joint, will only lead to damage of the fittings or an unsatisfactory seal.

Components



Typical Dimensions

Hose stem to tube with reducing connector



O/D Tube	A thread details	F	V	W
4	M8 x 1,0	10,5	8,3	6
5	M10 x 1,0	12	9,5	6,5
6	M11 x 1,0	12	9,4	7
8	M13 x 1,0	15	11,7	8
10	M15 x 1,0	16,5	12,7	8
12	M18 x 1,5	17	13,4	9
15	M22 x 1,5	18,5	16	10
16	M24 x 1,5	19	16,2	10,5
18	M26 x 1,5	20	17	10,5
22	M30 x 1,5	24,5	20,5	11
28	M38 x 1,5	30	25,8	12,5

A = outside diameter tube size and thread details.*

F = tube or stem length inside fitting.

V = nipples connector length inside fitting.

W = projection of tubing nut from compression joint.

All these dimensions are common to a particular tubing outside diameter size. Refer to later pages in this section for details of individual coupling dimensions. Dimensions V & W will vary with the torque applied so these dimensions are guidance only.

***Note:** The 'O/D tube' sizes in the following tables refer to the Enots compression threads listed above.

Torque Figures

O/D Tube	Half hard copper	Annealed copper	Nylon 11 & 12	Double wall brazed steel
4	4,5 Nm	3,4 Nm	2,8 Nm	5,7 Nm
5	6,8 Nm	5,7 Nm	5,7 Nm	-
6	9,0 Nm	7,9 Nm	5,7 Nm	10,2 Nm
8	11,3 Nm	7,9 Nm	5,7 Nm	12,4 Nm
10	21,5 Nm	18,1 Nm	13,6 Nm	21,5 Nm
12	24,9 Nm	22,6 Nm	15,8 Nm	27,1 Nm
16	46,0 Nm	31,0 Nm	26,0 Nm	-
22	79,0 Nm	68,0 Nm	46,0 Nm	-
28	76,0 Nm	68,0 Nm	96,0 Nm	-

Metric - Recommended torque using 360501** series tubing sleeves

Tubing nuts and tubing sleeves

Universal tubing sleeve
360501



Page 5

Tubing nut
360500



Page 5

Tubing sleeve
metallic tube
360502



Page 5

Straight Connectors and Adaptors

Straight adaptor male
ISO R - female tube
360530



Page 6

Straight adaptor male
ISO G - female tube
360504



Page 7

Straight adaptor female
ISO G - female tube
360505



Page 8

Straight connector
female tube
360503



Page 8

Bracketed straight
connector - female tube
360552



Page 8

Bulkhead connector
female tube
360508



Page 8

Bulkhead locknut
360520



Page 8

Straight stem adaptor
male ISO R - tube stem
360531



Page 9

Straight stem adaptor
male ISO G - tube stem
360521



Page 9

Nippled adaptor male
ISO R - male tube
360556



Page 9

Nippled adaptor female
ISO G - male tube
360557



Page 9

Nippled stem connector
male tube - tube stem
360625



Page 9

Reducing connector
female tube - male tube
360517



Page 10

Stem tailpiece adaptor
tube stem - hose
360524



Page 10

Tubing plug
male tube thread
360509



Page 10

Straight adaptor male
NPTF - female tube
360532



Page 10

Elbow Connectors and Adaptors

Elbow adaptor
male ISO R - female tube
360005



Page 11

Hobbs elbow adaptor
male ISO G - female tube
360541



Page 11

Hobbs coned locknut
ISO G
360540



Page 11

Hobbs seal
340156



Page 11

Elbow adaptor female
ISO G - female tube
360555



Page 12

Elbow connector
female tube
360511



Page 12

Bracketed elbow
connector - female tube
360548



Page 12

Elbow stem connector
female tube - tube stem
360551



Page 12

Elbow adaptor male
NPTF - female tube
360331



Page 12

Tee Connectors and Adaptors

Tee connector
female tube
360514



Page 13

Bracketed tee connector
female tube
360549



Page 13

Stem tee connector
female tube - tube stem
360550



Page 13

Side stem tee connector
female tube - tube stem
360511



Page 13

90° stem tee connector
female tube - tube stem
360631



Page 14

Accessories

Folded copper washer
480213



Page 14

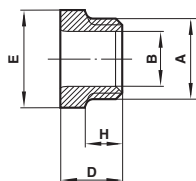
Bonded washer
480215



Page 14

Tubing Nut

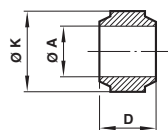
360500**



B O/D tube	A thread	D	E A/F	H	Model
4	M8 x 1.0	9.5	8	6.5	36050002
5	M10 x 1.0	10	10	6.5	36050003
6	M11 x 1.0	10.5	13	6.5	36050004
8	M13 x 1.0	12.1	13	7.6	36050005
10	M15 x 1.0	13.3	17	8.3	36050006
12	M18 x 1.5	15.7	19	8.7	36050007
16	M24 x 1.5	17.1	24	10.1	36050008
22	M30 x 1.5	21.5	30	14	36050010
28	M38 x 1.5	24.5	41	15.5	36050012

Universal Tubing Sleeve

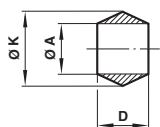
Suitable for nylon and metallic tubing
360501**



A O/D tube	D	K	Model
4	4.2	6.4	36050102
5	5.2	7.5	36050103
6	5.5	8.5	36050104
8	6.3	10.5	36050105
10	7	13	36050106
12	7.7	15.5	36050107
16	9	20	36050108
22	10.5	26.5	36050110
28	13.2	33	36050112

Tubing Sleeve

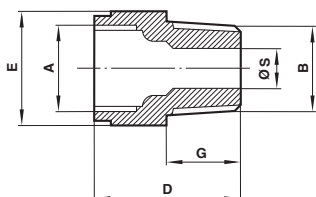
Suitable for metallic tubing only
360502**



A O/D tube	D	K	Model
4	4.6	5.7	36050202
6	5.5	8	36050204
8	6.3	10.3	36050205
10	7.5	12.6	36050206
12	7.5	14.9	36050207

Straight Male Adaptor

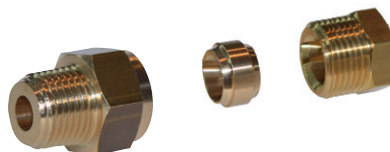
Female O/D tube to male taper ISO R thread
360530**



A thread for O/D tube	B thread	D	E A/F	G	S	Model
4	R1/8	18.5	13	9.5	2.8	36053002
5	R1/8	20	13	9.5	3.4	36053003
6	R1/8	20	14	9.5	4	36053004
8	R1/8	26.5	17	9.5	4.7	36053005
10	R1/8	28	19	9.5	4.7	36053006
4	R1/4	18	14	11.11	2.8	36053008
5	R1/4	21.6	14	11.11	3.4	36053009
6	R1/4	21.6	14	11.11	4	36053010
8	R1/4	23	17	11.11	6	36053011
10	R1/4	30	19	11.11	7	36053012
12	R1/4	31.1	22	11.11	6.4	36053013
8	R3/8	21	19	12.7	6	36053019
10	R3/8	26	19	12.7	8	36053020
12	R3/8	29	22	12.7	9.6	36053021
8	R1/2	25	22	15.9	6	36053028
10	R1/2	27	22	15.9	8	36053029
12	R1/2	30	22	15.9	10	36053030
16	R1/2	38.5	30	15.9	13.6	36053031
12	R3/4	33	30	19.1	10	36053044
16	R3/4	35	30	19.1	13.6	36053045

Straight Male Adaptor

Female O/D tube to male taper ISO R thread – kit of parts
18125****

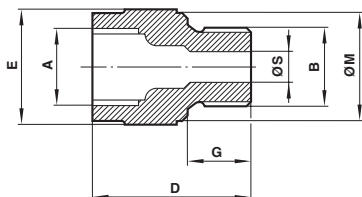


O/D tube	Thread	Adaptor	Tubing sleeve	Tubing nut	Model
4	R1/8	36053002	36050102	36050002	181250418
6	R1/8	36053004	36050104	36050004	181250618
8	R1/8	36053005	36050105	36050005	181250818
4	R1/4	36053008	36050102	36050002	181250428
6	R1/4	36053010	36050104	36050004	181250628
8	R1/4	36053011	36050105	36050005	181250828
10	R1/4	36053012	36050106	36050006	181251028
10	R3/8	36053020	36050106	36050006	181251038
12	R3/8	36053021	36050107	36050007	181251238
12	R1/2	36053030	36050107	36050007	181251248

Note: Minimum order quantity of 10 pieces sizes 4mm to 8mm tube, 1/8" and 1/4" thread

Straight Male Adaptor

Female O/D tube to male parallel ISO G thread
360504**



A thread for O/D tube	B thread	D	E A/F	G	M	S	Model
4	G1/8	15	13	7.4	13	2.8	36050402
6	G1/8	21	17	7.4	14	4	36050404
8	G1/8	25	17	7.4	14	5	36050405
6	G1/4	21	19	10	18	4	36050410
8	G1/4	25	19	10	18	6	36050411
10	G1/4	30	19	10	18	7	36050412
12	G1/4	30	22	10	18	7	36050413
6	G3/8	22	22	11.4	22	4	36050418
8	G3/8	23	24	11.4	22	6	36050419
10	G3/8	24	24	11.4	22	7.6	36050420
12	G3/8	29	24	11.4	22	9.6	36050421
8	G1/2	25	27	15	26	6	36050428
10	G1/2	25	27	15	26	7.6	36050429
12	G1/2	27	27	15	26	9.6	36050430
16	G1/2	36	27	15	26	13.6	36050431
16	G3/4	32	36	16.3	32	13.6	36050445
22	G3/4	43	36	16.3	32	19.0	36050447
22	G1	42	41	19.1	39	19.0	36050460

Straight Male Adaptor

Female O/D tube to male parallel ISO G thread – kit of parts
18225****

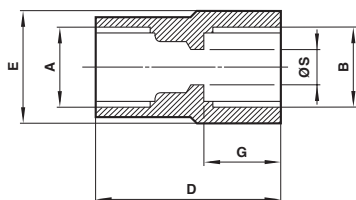


O/D tube	Thread	Adaptor	Tubing sleeve	Tubing nut	Model
6	G1/8	36050404	36050104	36050004	182250618
8	G1/8	36050405	36050105	36050005	182250818
6	G1/4	36050410	36050104	36050004	182250628
8	G1/4	36050411	36050105	36050005	182250828

Note: Minimum order quantity of 10 pieces sizes 4mm to 8mm tube, 1/8" and 1/4" thread

Straight Adaptor

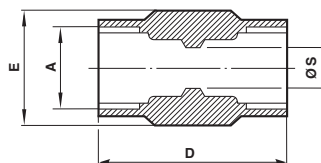
Female O/D tube to female parallel ISO G thread
360505**



A thread for O/D tube	B thread	D	E A/F	G	S	Model
4	G1/8	23	13	11	2.8	36050502
6	G1/8	25	13	11	4	36050504
6	G1/4	27	17	12.7	4	36050510
8	G1/4	30	17	12.7	6	36050511
10	G1/4	31	19	12.7	7.6	36050512
10	G3/8	33	22	14.5	7.6	36050520
12	G3/8	33.5	22	14.5	9.6	36050521
12	G1/2	37	27	17.5	9.6	36050530

Straight Connector

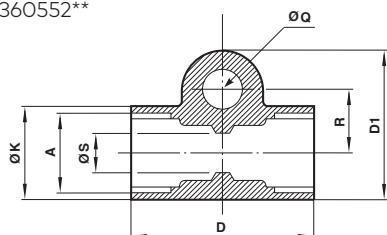
Female O/D tube
360503**



A thread for O/D tube	D	E A/F	S	Model
4	22	10	2.8	36050302
6	26	13	4	36050304
8	32	17	6	36050305
10	35	19	7.6	36050306
12	36	22	9.6	36050307

Bracketed Straight Connector

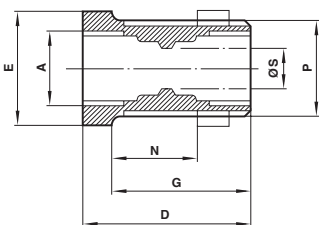
Female O/D tube
360552**



A thread for O/D tube	D	D1	K	Q	R	S	Model
8	33.3	24.6	17.5	6.75 x 19.0	9.5	6.5	36055205

Bulkhead Connector

Female O/D tube
360508**



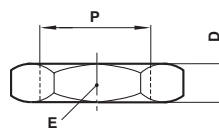
A thread for O/D tube	D	E A/F	G	N max. bulkhead	P thread	S	Bulkhead clearance drilling	Locknut number	Model
4	23	17	18	12	M12 x 1.0	2.8	13	36052001	36050802
6	26	19	20	13	M15 x 1.0	4	16	36052003	36050804
8	32	22	26	19	M18 x 1.5	6	19	36052005	36050805
10	35	24	29	20	M20 x 1.5	7.6	21	36052006	36050806
12	36	30	30	21	M24 x 1.5	9.6	25	36052007	36050807
16	41	36	35	25	M30 x 1.5	13.6	32	36052008	36050808

Minimum Bulkhead thickness 3,0

Locknuts should be ordered separately.

Bulkhead Locknut

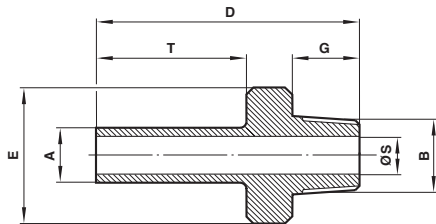
360520**



P thread	D	E A/F	Model
M12 x 1.0	5	17	36052001
M15 x 1.0	6	22	36052003
M18 x 1.5	6	24	36052005
M20 x 1.5	7	27	36052006
M24 x 1.5	7	30	36052007
M30 x 1.5	8	41	36052008

Straight Stem Adaptor

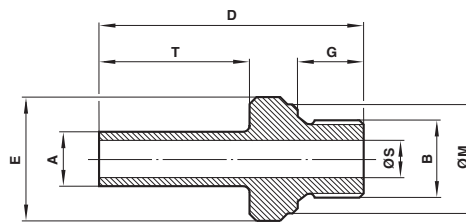
O/D tube stem to male taper ISO R thread
360531**



A O/D stem	B thread	D	E A/F	G	S	T	Model
6	R1/8	37	13	9.5	4	23	36053104
6	R1/4	42	14	11.1	4	23	36053110
8	R1/4	45	14	11.1	5	26	36053111
10	R1/4	47	14	11.1	7	28	36053112

Straight Stem Adaptor

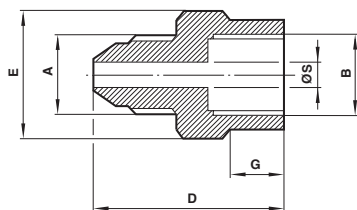
O/D tube stem to male parallel ISO G thread
360521**



A O/D stem	B thread	D	E A/F	G	M	S	T	Model
8	G1/4	45	19	10	18	5	26	36052111
16	G1/2	61	27	15	26	12	35	36052131

Nippled Adaptor

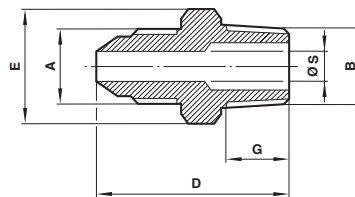
Male O/D tube to female parallel ISO G thread
360557**



A thread for O/D tube	B thread	D	E A/F	G	S	Model
6	G1/8	24.5	13	7.5	4	36055704
8	G1/4	30	17	6	5.4	36055711
10	G1/4	31.5	17	6	7	36055712

Nippled Adaptor

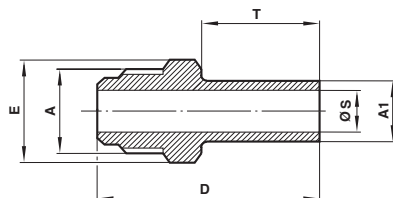
Male O/D tube to male taper ISO R thread
360556**



A thread for O/D tube	B thread	D	E A/F	G	S	Model
8	R1/8	30	14	9.5	5	36055605
6	R1/4	30	14	11.1	4	36055610
8	R1/4	32	14	11.1	5.4	36055611

Nippled Stem Connector

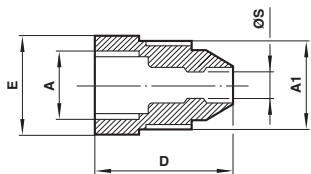
Male O/D tube to O/D tube stem
360625**



A1 O/D stem	A thread for O/D tube	D	E A/F	S	T	Model
8	8	45.5	13	5	26	36062505
10	10	49	17	7	28	36062506
12	12	53.5	19	9	30	36062507

Reducing Connector

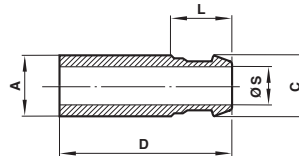
Female O/D tube to male O/D tube
360517**



A thread for O/D tube	A thread for O/D tube	D	E A/F	S	Model
6	4	16	13	2.8	36051727
8	4	19.5	13	2.8	36051728
8	5	19.5	13	3.4	36051738
8	6	25	13	4	36051747
12	6	23.5	19	4	36051749
12	8	23.5	19	6	36051757
16	12	27	24	9.6	36051771

Stem Tailpiece Adaptor

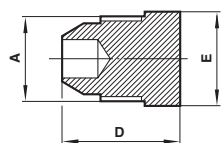
O/D tube stem to hose
360524**



A O/D stem	C hose bore	D	L	S	Model
6	6.3	40.5	17.5	4.3	36052424
8	6.3	43.5	17.5	4.3	36052425
10	10	47	19	7.3	36052442
16	12.5	54.8	20	9.7	36052453

Tubing Plug

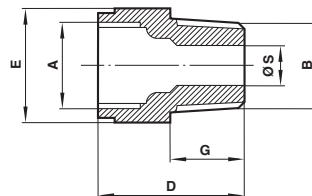
Male O/D tube thread
360509**



A thread for O/D tube	D	E A/F	Model
4	15.3	8	36050902
6	17	13	36050904
8	19.5	13	36050905
10	21	17	36050906
12	23.5	19	36050907
16	27	24	36050908

Straight Male Adaptor (NPTF)

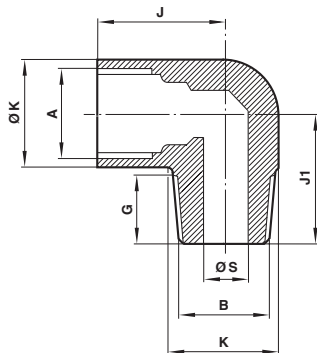
Female O/D tube to male NPTF thread
360532**



A thread for O/D tube	B thread NPTF	D	E A/F	G	S	Model
6	1/8"	20	14	9.5	4	36053204
6	1/4"	22.5	17	14.3	4	36053210

Male Elbow Adaptor

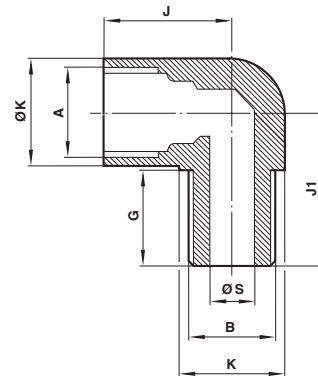
Female O/D tube to male taper ISO R thread
360005**



A thread for O/D tube	B thread	G	J	J1	K	S	Model
4	R1/8	9.5	14.9	16.5	11.1	4.7	36000502
5	R1/8	9.5	16.5	17	12.7	4.7	36000503
6	R1/8	9.5	16.5	18.2	14.3	4.7	36000504
8	R1/8	9.5	20	20	15.9	4.7	36000505
4	R1/4	11.1	15.7	19.8	14.3	6.3	36000508
6	R1/4	11.1	17.2	19	14.3	6.3	36000510
8	R1/4	11.1	20.6	21	15.9	6.3	36000511
10	R1/4	11.1	21	23	20.6	6.3	36000512
12	R1/4	11.1	22.2	25	24.6	6.3	36000513
8	R3/8	12.7	21.8	24	17.4	9.6	36000519
10	R3/8	12.7	21.5	24	20.6	8	36000520
12	R3/8	12.7	24.5	26	24.6	9.6	36000521
10	R1/2	15.9	24.9	29.2	24.6	12.7	36000529
12	R1/2	15.9	25.4	33	28.6	12.7	36000530
16	R1/2	15.9	28	32	28.6	12.7	36000531
16	R3/4	19.0	29.0	34.5	28.6	17.5	36000545

Hobbs Elbow Adaptor

Female O/D tube to male parallel ISO R thread
360541**

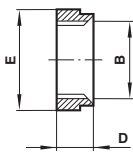


A thread for O/D tube	B thread	G	J	J1	K	S	Model
8	G1/4	17.5	20.6	27	15.8	6.3	36054111
16	G1/2	23.0	28.0	38.0	28.6	12.7	36054131

The design of a Hobbs fittings allows the fittings to be screwed into a parallel BSP tapping and accurately located for position in both height and direction before it is secured with the special coned locknut and polyurethane seal.

Hobbs Coned Locknut

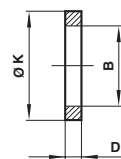
Female parallel ISO G thread
360540**



B thread	D	E A/F	Model
G1/8	7	17	36054001
G1/4	8.4	19	36054002
G3/8	9.6	24	36054003
G1/2	10.9	27	36054004

Hobbs Seal

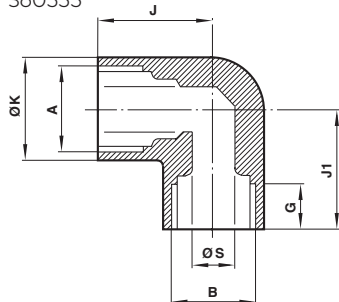
340156**



B to seal thread	D	K	Model
G1/4	2.5	15.9	34015602
G3/8	2.5	20.7	34015603
G1/2	2.6	24.3	34015604

Female Elbow Adaptor

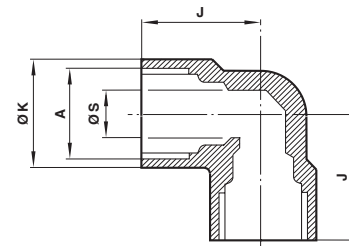
Female O/D tube to female parallel ISO R thread
360555**



A thread for O/D tube	B Thread	G	J	J1	K	S	Model
4	G1/8	7.4	14	12.5	12.7	2.8	36055502
6	G1/4	11	16	17.5	17.5	4	36055510
8	G1/4	11	20	18.5	17.5	6	36055511
10	G1/4	11	22	18.5	20.6	7.6	36055512
10	G3/8	11.4	21.5	22	20.6	7.6	36055520
12	G3/8	11.4	24.5	22	24.6	9.6	36055521
12	G1/2	15	24.5	26	24.6	9.6	36055530

Elbow Connector

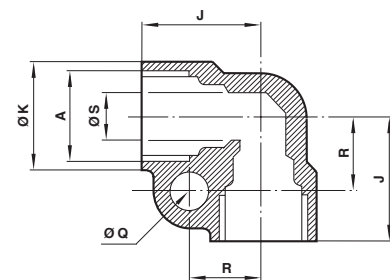
Female O/D tube to female O/O tube
360511**



A thread for O/D tube	J	K	S	Model
6	16	14.3	4	36051104
8	20	16	6	36051105
10	23	20	7.6	36051106
12	25	24	9.6	36051107

Bracketed Elbow Connector

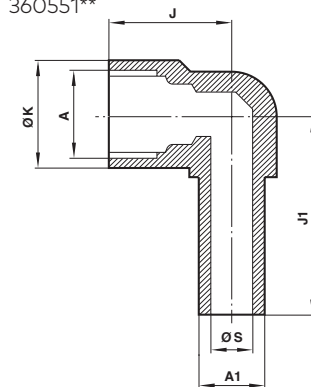
Female O/D tube to female O/D tube
360548**



A thread for O/D tube	J	K	Q	R	S	Model
6	21	16.7	6.75 x 19.0	7.8	4.5	36054804
8	26.2	16.7	6.75 x 19.0	7.8	6.5	36054805

Stem Elbow Connector

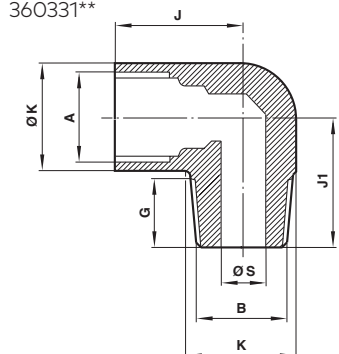
Female O/D tube to O/D tube stem
360551**



A thread for O/D tube	A1 O/D stem	J	J1	K	S	Model
6	6	19	30.6	14.3	4	36055104
8	8	23	34.9	17.5	5	36055105
10	10	23	41.3	23	7	36055106
12	12	24	43.5	23	9	36055107
16	16	30	53	30	12	36055108

Male Elbow Adaptor

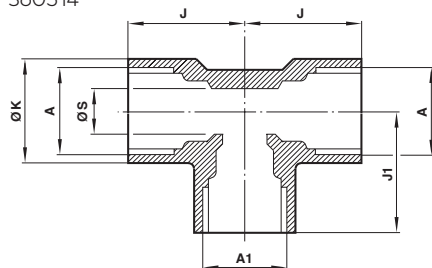
Female tube to male NPTF thread
360331**



A thread for O/D tube	B NPTF thread	G	J	J1	K	S	Model
12	3/8"	14.3	24.5	28.6	24.6	9.6	36033121

Tee Connector

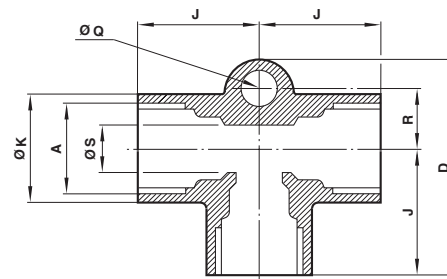
Female O/D tube
360514**



A thread for O/D tube	A1 thread for O/D tube	J	J1	K	S	Model
6	6	16	16	14.3	4	36051404
8	8	20	20	16	6	36051405
10	10	23	23	20	7.6	36051406
12	12	25	25	24	9.6	36051407

Bracketed Tee Connector

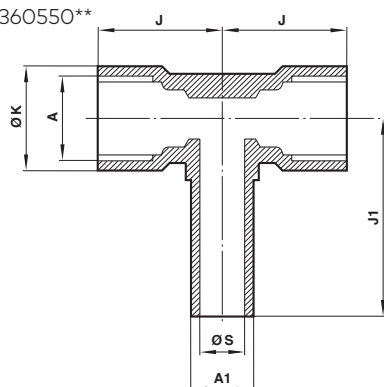
Female O/D tube
360549**



A thread for O/D tube	D	J	K	Q	R	S	Model
8	36.4	20.5	17.7	6.75 x 19.0	9.5	6.5	36054905

Stem Tee Connector

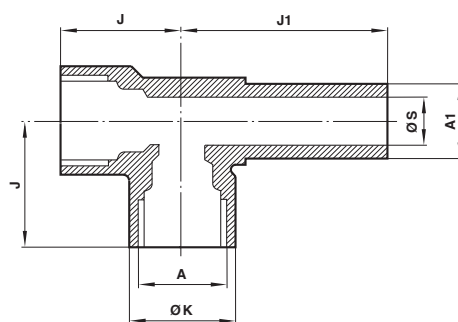
Female O/D tube to O/D tube stem
360550**



A thread for O/D tube	A O/D stem	J	J1	K	S	Model
8	8	18.5	34.9	17.5	5	36055005

Side Stem Tee Connector

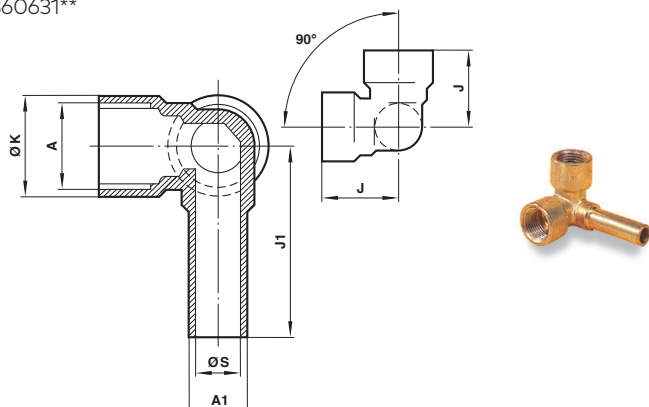
Female O/D tube to O/D tube stem
360511**



A thread for O/D tube	A1 O/D stem	J	J1	K	S	Model
6	6	19	30.6	14.3	4	36062604
8	8	23	34.9	17.4	5	36062605

90° Stem Tee Connector

Female O/D tube to O/D tube stem
360631**



A thread for O/D tube	A1 O/D stem	J	J1	K	S	Model
6	6	19	33.5	14.3	4	36063104
8	8	23	38	17.5	5	36063105

Folded Copper Washer

480213**

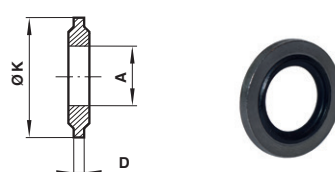


A for ISO G thread	D	K	Model
G1/8	1.8	13.5	48021301
G1/4	1.8	17.6	48021302
G3/8	1.8	20.9	48021303
G1/2	1.8	26.4	48021304
G3/4	1.8	32.4	48021306
G1	1.8	38.9	48021308

Operating Pressure: 20 Bar (max)
Temperature: -10°C to +80°C

Bonded Washer

480215**

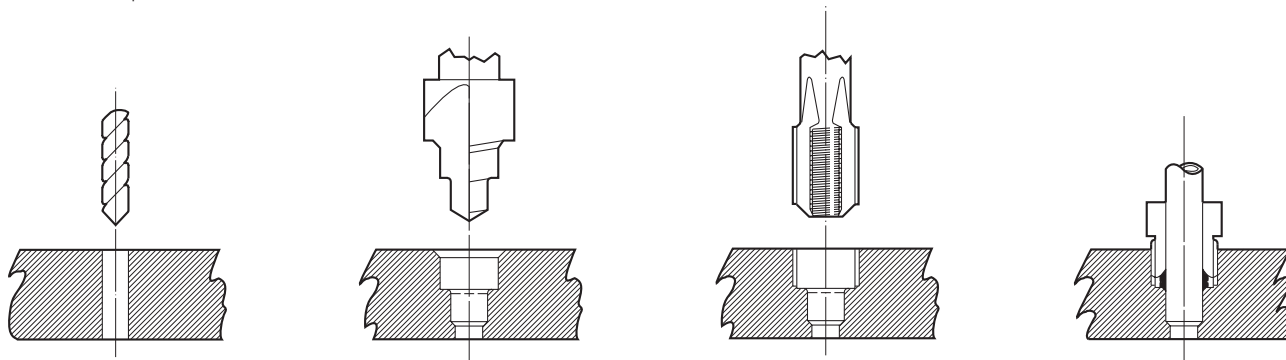


A for ISO G thread	D	K	Model
G1/8	2	15.9	48021501
G1/4	2	20.6	48021502
G3/8	2	23.8	48021503
G1/2	2	28.6	48021504
G3/4	2	34.9	48021506
G1	2.5	42.8	48021508

Operating Pressure: 128 Bar (max)
Temperature: -30°C to +110°C

Instructions For Machining

Where for some reason, such as saving overall space, it is desired to dispense with the male adaptor and fit a tube, complete with its associated nut and sleeve, direct into a casting, this may be done as illustrated below, by machining the correct form and thread with the appropriate size of form cutter and tap.



1. DRILL

It is difficult to recommend specific drill sizes to suit our range of form cutters and taps without having detailed knowledge of the material to be machined and details of the particular installation.

As a general rule, however, when preparing for a Norgren compression assembly, a drill size of 1 mm less in diameter than the tubing size should be used, up to and including 8 mm tube. For larger tubing, a drill of approximately 2 mm less in diameter is recommended.

2. FORM

The correct form cutter should be selected from the table overleaf for the outside diameter tubing being used.

3. TAP

The correct size thread tap should be selected from the table overleaf for the outside diameter tubing being used. Owing to the fine pitch of the threads used, only a plug tap is required.

4. ASSEMBLY

The tube, or stem fittings, with appropriate tubing nut and sleeve, can now be assembled into the port.

We can advise on individual problems but we cannot be held responsible for failures due to non-observance of the dimensions and tolerances which we lay down for these compression unions.

Note: Form cutters are available on request, contact Norgren technical service for more information

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.

15 and 16 series Thread connectors



- > ISO G, ISO R and NPT threads
- > Port size: M5, 1/8" ... 1"
- > Extensive range of shapes and sizes including manifolds
- > High temperature and pressure aluminium sealing washers supplied with ISO G threads



Technical features

Medium:

Compressed air and fluid compatible with sealing materials

Thread forms:

Parallel BSP - ISO 228
Taper BSP - ISO 7
Metric - ISO 262
Taper NPTF - ASME B1.20.1

Operating pressure:

Generally limited by tubing specification except where polyamide sealing washers are used (banjo bolts and M5 units). In these cases pressure is limited to 18 bar (261 psi). Flow regulating banjos are limited to 1 ... 10 bar (1 ... 145 psi) operating range. Suitable for vacuum applications.

Ambient/Media temperature:

Generally limited by tubing specification except where polyamide sealing washers are used (banjo bolts, & M5 units). In these cases temperature is limited to -20 ... +70°C (-4 ... 158°F)

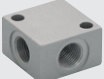
Materials:

Body of the fittings are made from Brass type; OT UNI EN 12164/5 CW 614/7N and undergo to a nickel-plating process. Other materials will be specified with the fitting details. All ISO G male threads supplied with flat aluminium washer unless stated otherwise.

Straight adaptors, connectors and plugs

ISO G - Reducing connector 16023  Page 3	ISO G - Expanding connector 16023  Page 3	ISO G - ISO R Expanding connector 15023  Page 3	ISO G - ISO R Reducing connector 15023  Page 3	NPT - ISO R Adaptor 15423  Page 3	ISO G - NPT Adaptor 17223  Page 3	ISO G and Metric - Bulkhead connector 16029  Page 4
ISO G - Sleeve adaptor 16022  Page 4	ISO G and Metric - Nipple adaptor 16020  Page 4	ISO R - Nipple adaptor 15020  Page 4	ISO R - NPT - Nipple adaptor 15420  Page 4			
ISO R - Flat union 15033  Page 5	ISO R - Conical union 1503D  Page 5	ISO R - Hose adaptor 29117  Page 5	ISO G - Hose adaptor 29217  Page 5			
ISO G - Plug with flange - hex 16206  Page 6	ISO G - Plug with flange - spanner 16005  Page 6	ISO G - Plug 16213  Page 6	ISO R - Plug 1500  Page 6	ISO R - Plug 15113  Page 6	ISO R - Plug Brass (unplated) 25013  Page 6	

Elbow adaptors and T-connectors

ISO G - Elbow connector 16042  Page 7	ISO R - ISO G - Elbow connector 15043  Page 7	ISO R - Elbow connector 15040  Page 7	ISO G - Tee connector 16062  Page 8	ISO R - Tee connector 15060  Page 8	ISO R - ISO G Tee connector 15069  Page 8	ISO R - ISO G Tee connector 15072  Page 8
ISO G - Cross 16092  Page 8	ISO G - Cross block 16094  Page 8	ISO G - Manifold - singlesided - Brass 34050  Page 9	ISO G - Manifold - single sided - Aluminium 162B4 and 162B6  Page 9	ISO G - Manifold - double sided - Aluminium 162C4 and 162C6  Page 9		

Banjo flow controls and elbows

ISO G - Banjo elbow assembly - regulating out 16K51



Page 10

ISO G - Banjo elbow assembly - non-regulating 16A51



Page 10

ISO G - Banjo elbow body 16O51



Page 10

ISO G - Regulating bolt 20K00, 20L00 and 20M00



Page 10

ISO G - Non-regulating bolt 20A00 and 20B00



Page 11

Elbow flow controls

ISO R - Elbow flow control, regulating out 10TAO



Page 13

ISO G - Elbow flow control, regulating out 10KAO



Page 13

Function fittings

ISO R - Pilot operated check valve 101GA



Page 17

ISO G - Pilot operated check valve 102GA



Page 17

ISO G - Pressure reduction valve 102GB



Page 18

ISO G - Pressure sensor valve 102GD



Page 18

Seals

Copper sealing washer 480213



Page 11

Bonded sealing washer 480215



Page 11

Aluminium sealing washer



Page 11

Accessories

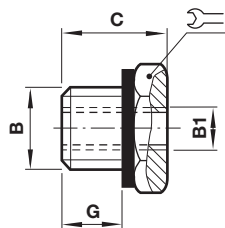
PTFE sealing tape DB-R-12



Page 11

ISO G - Reducing connector 16023

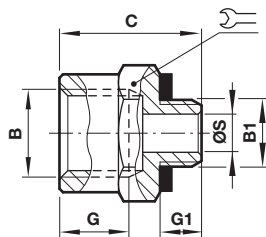
Nickel plated brass, aluminium seals



B	B1	C	G		Model
G1/8	M5	10,5	6	14	160231805
G1/4	G1/8	13	8	17	160232818
G3/8	G1/8	14	9	19	160233818
G3/8	G1/4	14	9	19	160233828
G1/2	G1/8	15,5	10	24	160234818
G1/2	G1/4	15,5	10	24	160234828
G1/2	G3/8	15,5	10	24	160234838
G3/4	G1/4	17,5	12	30	160236828
G3/4	G3/8	17,5	12	30	160236838
G3/4	G1/2	17,5	12	30	160236848

ISO G - Expanding connector 16023

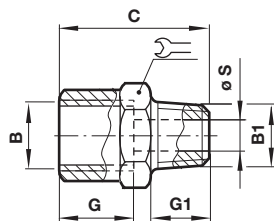
Nickel plated brass, aluminium seals



B	B1	C	G	G1	Ø S		Model
G1/8	M5	14,5	8,5	4	2,5	14	160230518
G1/4	G1/8	20,5	12	6	5,5	17	160231828
G3/8	G1/8	21,5	10,5	6	5,5	22	160231838
G3/8	G1/4	23,5	13	8	8	22	160232838
G1/2	G1/4	26,5	16	8	8	26	160232848
G1/2	G3/8	36,5	16	9	11	26	160233848
G3/4	G1/2	31	16,5	10	15	32	160234868

ISO G - ISO R - Expanding connector 15023

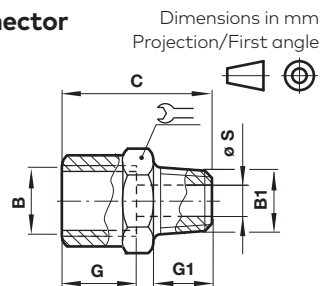
Nickel plated brass



B	B1	C	G	G1	Ø S		Model
G1/4	R1/8	22	12,5	7,5	5,5	17	150231828
G3/8	R1/8	22,5	7,5	10,5	5	22	150231838
G3/8	R1/4	27	13	11	8	22	150232838
G1/2	R1/4	30	16	11	8	26	150232848
G1/2	R3/8	30,5	16	11	11	26	150233848
G3/4	R3/8	38,5	12,5	16,5	11	32	150233868
G3/4	R1/2	35	16,5	14	15	32	150234868
G1	R3/4	45	19	19	18	41	150236888

ISO G - ISO R - Reducing connector 15023

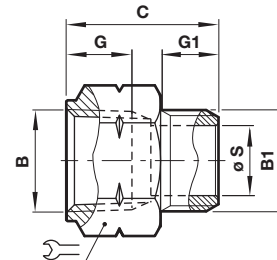
Nickel plated brass



B	B1	C	G	G1	Ø S		Model
G1/8	R1/8	20	10	7,5	5,5	14	150231818
G1/8	R1/4	16	12	11	6	14	150232818
G1/4	R1/4	26	12	11	8	17	150232828
G1/8	R3/8	16,5	12	11,5	6	17	150233818
G1/4	R3/8	16,5	11,5	13	8,5	17	150233828
G3/8	R3/8	27,5	13	11,5	11	22	150233838
G1/8	R1/2	19,5	12	7,5	5,5	22	150234818
G1/4	R1/2	19,5	13	14	9,5	22	150234828
G3/8	R1/2	19,5	13	14	14	22	150234838
G1/2	R1/2	33	16	14	15	26	150234848
G1/4	R3/4	23,5	16,5	11,5	8	27	150236828
G3/8	R3/4	23,5	11,5	16,5	20	27	150236838
G1/2	R3/4	23,5	17	16,5	16	27	150236848
G1/2	R1	26,5	19	13	15	34	150238848
G3/4	R1	27,5	19	16,5	24,5	34	150238868

NPT Female - ISO R - Adaptor 15423

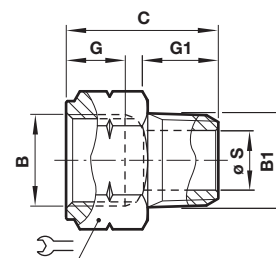
Nickel plated brass



B	B1	C	G	G1	Ø S		Model
1/8 NPT	R1/8	17	9,5	6	5,5	14	154231818
1/4 NPT	R1/4	23	13,5	8	8	17	154232828
3/8 NPT	R3/8	24	13,5	9	11	22	154233838
1/2 NPT	R1/2	31,5	17,5	12	14,5	27	154234848

ISO G Female - NPT - Adaptor 17223

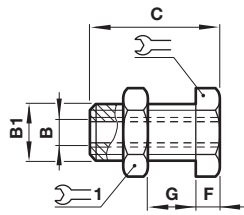
Nickel plated brass



B	B1	C	G	G1	Ø S		Model
G1/4	1/4 NPT	27	12	13	8	17	172232828
G3/8	3/8 NPT	28	13	13	11	22	172233838

ISO G and Metric - Bulkhead connector 16029

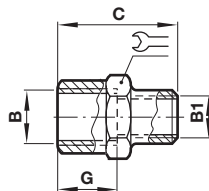
Nickel plated brass



B	B1	C	F	G max.			Model
M5	M10x1,0	14	3,5	7	14	14	160290005
G1/8	M16x1,5	18	4	10	19	22	160290018
G1/4	M20x1,5	25	4	16	24	27	160290028
G3/8	M26x1,5	26	5	15	30	32	160290038
G1/2	M28x1,5	33	6	21	32	36	160290048
G3/4	M33x1,5	36,5	6	22,5	41	41	160290068
G1	M42x1,5	41,5	8	24,5	46	50	160290088

ISO G and Metric - Sleeve adaptor 16022

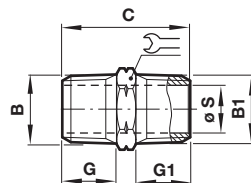
Nickel plated brass



B	B1	C	G		Model
M5	M5	11	11	8	160220505
G1/8	M5	13	7,5	14	160221805
G1/8	G1/8	15	15	14	160221818
G1/4	G1/8	19	11	17	160222818
G1/4	G1/4	22	22	17	160222828
G3/8	G1/8	20	11,5	22	160223818
G3/8	G1/4	23	11,5	22	160223828
G3/8	G3/8	24	24	22	160223838
G1/2	G1/8	24	14	24	160224818
G1/2	G1/4	25	14	24	160224828
G1/2	G3/8	27,5	16	24	160224838
G1/2	G1/2	30	30	26	160224848
G3/4	G1/2	30	16,5	30	160226848
G3/4	G3/4	32	31	32	160226868
G1	G3/4	41	20	40	160228868

NPT - ISO R - Nipple adaptor 15420

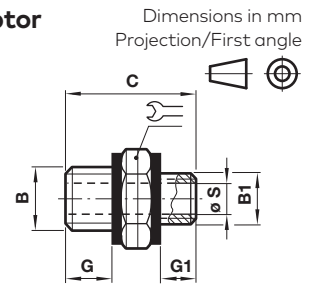
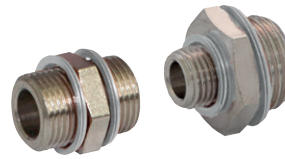
Nickel plated brass



B	B1	C	G	G1	Ø S		Model
1/8 NPT	R1/8	21,5	8,5	8,5	5,5	12	154201818
1/4 NPT	R1/4	31	13	13	8	14	154202828
3/8 NPT	R3/8	31	13	13	11	19	154203838
1/2 NPT	R1/2	40	17	17	16,5	22	154204848

ISO G and Metric - Nipple adaptor 16020

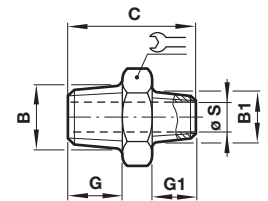
Nickel plated brass, aluminium seals



B	B1	C	G	G1	Ø S	Ø S1		Model
M5	M5	11,5	4	4	2,5	2,5	8	160200505
G1/8	M5	14,5	6	4	5,5	3,5	14	160201805
G1/8	G1/8	16,5	6	6	5,5	5,5	14	160201818
G1/4	G1/8	19	8	6	8	5,5	17	160202818
G1/4	G1/4	21	8	8	8	8	17	160202828
G3/8	G1/4	22	9	8	11	8	19	160203828
G3/8	G3/8	23	9	9	11	11	19	160203838
G1/2	G1/4	23,5	10	8	15	8	24	160204828
G1/2	G3/8	24,5	10	9	15	11	24	160204838
G1/2	G1/2	25,5	10	10	15	15	24	160204848
G3/4	G1/2	27,5	12	10	20	15	30	160206848
G3/4	G3/4	29,5	12	12		20	30	160206868
G1	G1	32	12	12		24	40	160208888

ISO R - Nipple adaptor 15020

Nickel plated brass

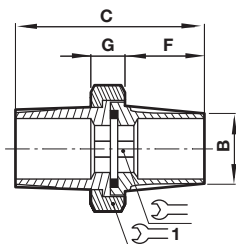
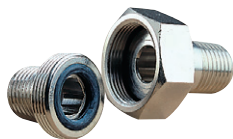


B	B1	C	G	G1	Ø S	Ø S1		Model
R1/8	R1/8	19,5	7,5	7,5	5,5	5,5	12	150201818
R1/4	R1/8	23,5	11	7,5	8	5,5	14	150202818
R1/4	R1/4	27	11	11	8	8	14	150202828
R3/8	R1/8	24	11,5	7,5	11	5,5	17	150203818
R3/8	R1/4	27,5	11,5	11	11	8	17	150203828
R3/8	R3/8	28	11,5	11,5	11	11	17	150203838
R1/2	R1/8	27	14	7,5	15	5,5	22	150204818
R1/2	R1/4	30,5	14	11	15	8	22	150204828
R1/2	R3/8	31	14	11,5	15	11	22	150204838
R1/2	R1/2	33,5	14	14	15	15	22	150204848
R3/4	R1/2	37,5	16,5	14	19	15	27	150206848
R3/4	R3/4	40	16,5	16,5	19	19	27	150206868
R1	R3/4	44	19	16,5	24	19	34	150208868
R1	R1	46,5	19	19	24	24	34	150208888

ISO R - Flat union

15033

Nickel plated brass, O-ring NBR
Temperature: -20 ... +80°C
Operating pressure: -1 ... +15 bar

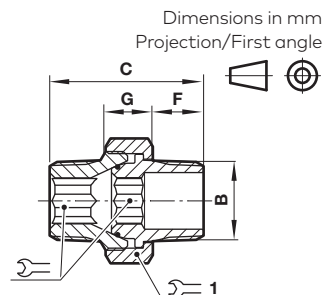


B	C	F	G			Model
R1/8	33,5	10	8,5	5	15	150331818
R1/4	42	13	10,5	8	24	150332828
R3/8	43	13	11	10	27	150333838
R1/2	52	17,5	11,5	14	30	150334848
R3/4	56,5	19	12,5	17	38	150336868
R1	68	23	16	19	46	150338888

ISO R - Conical union

1503D

Brass, O-ring NBR
Temperature: -20 ... +80°C
Operating pressure: -1 ... +15 bar

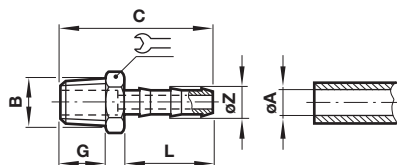


B	C	F	G			Model
R1/8	27	9	8,5	5	15	1503D1818
R1/4	33,5	11,5	9,5	6	19	1503D2828
R3/8	36,5	13	10	8	22	1503D3838
R1/2	45	16	12	12	27	1503D4848
R3/4	54	18	17	14	36	1503D6868
R1	65	21,5	20	19	46	1503D8888

ISO R - Hose adaptor

29117

Nickel plated brass

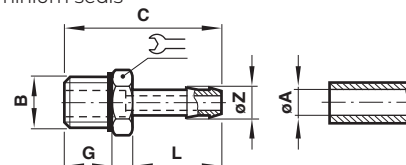


Ø A	B	C	G	L		Ø Z	Model
4	R1/8	32	7,5	19,5	12	6	291170418
4	R1/4	35,5	11	19,5	14	6	291170428
6	R1/8	32	7,5	19,5	12	8	291170618
6	R1/4	35,5	11	19,5	14	8	291170628
6	R3/8	36	11,5	19,5	17	8	291170638
7	R1/8	32	7,5	19,5	14	9	291170718
7	R1/4	35	11	19,5	17	9	291170728
7	R3/8	36	11,5	19,5	17	9	291170738
8	R1/8	32	7,5	19,5	12	10	291170818
8	R1/4	35,5	11	19,5	14	10	291170828
8	R3/8	36	11,5	19,5	17	10	291170838
8	R1/2	39	14	19,5	22	10	291170848
9	R1/8	32	7,5	19,5	12	11	291170918
9	R1/4	35,5	11	19,5	14	11	291170928
9	R3/8	36	11,5	19,5	17	11	291170938
9	R1/2	39	14	19,5	17	11	291170948
10	R1/4	35,5	11	19,5	14	12	291171028
10	R3/8	36	11,5	19,5	17	12	291171038
10	R1/2	39	14	19,5	22	12	291171048
12	R3/8	36	11,5	19,5	17	14	291171238
12	R1/2	39	14	19,5	22	14	291171248
13	R1/4	35,5	11	19,5	22	15	291171328
13	R3/8	36	11,5	19,5	17	15	291171338
13	R1/2	39	14	19,5	22	15	291171348
13	R3/4	43,5	14,5	19,5	27	15	291171368
16	R3/8	36	11,5	19,5	19	18	291171638
16	R1/2	39	14	19,5	22	18	291171648
16	R3/4	43,5	16,5	19,5	27	18	291171668
19	R3/8	47,5	11,5	30	22	21	291171938
19	R1/2	49,5	14	30	22	21	291171948
19	R3/4	54	16,5	30	27	21	291171968
25	R3/4	52,5	14,5	30	28	27	291172568
25	R1	53,5	16	30	34	27	291172588
32	R1	55	16	30	36	34	291173288

Metric and ISO G - Hose adaptor

29217

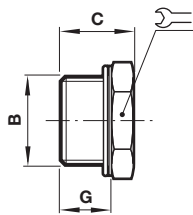
Nickel plated brass, aluminium seals



Ø A	B	C	G	L		Ø Z	Model
3	M5	15,5	4	7,5	8	3,5	292170305
4	G1/8	30	6	20	14	6,5	292170418
4	G1/4	33	8	20	17	6,5	292170428
5	G1/8	30	6	20	14	7,5	292170518
6	G1/8	30	6	20	14	8,5	292170618
6	G1/4	33	8	20	17	8,5	292170628
9	G1/8	30	6	20	14	11,5	292170918
9	G1/4	33	8	20	17	11,5	292170928
9	G3/8	34	9	20	19	11,5	292170938
9	G1/2	35,5	10	20	24	11,5	292170948
10	G1/4	33	8	20	17	12,5	292171028
10	G3/8	34	9	20	19	12,5	292171038
10	G1/2	37,5	10	22	24	12,5	292171048
13	G1/4	33	8	20	17	15,5	292171328
13	G3/8	34	9	20	19	15,5	292171338
13	G1/2	37,5	10	22	24	15,5	292171348
13	G3/4	39,5	12	22	30	15,5	292171368
19	G3/4	41,5	12	24	30	21,5	292171968

Metric and ISO G - Plug with flange - spanner 16005

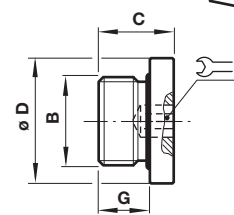
Nickel plated brass, aluminium seals



B	C	G		Model
M5	8	4,5	8	160050005
G1/8	10	6,5	14	160050018
G1/4	13	9	17	160050028
G3/8	13,5	9,5	19	160050038
G1/2	14,5	10	24	160050048
G3/4	16	11	30	160050068
G1	17	12	40	160050088

ISO G - Plug with flange - hex 16206

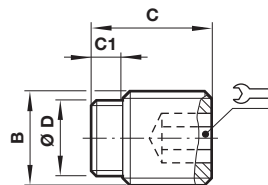
Nickel plated brass, O-ring NBR
Temperature: -20 ... +80°C
Operating pressure: -1 ... +15 bar



B	C	G	ØD		Model
M5	6	4	8	2	162060005
G1/8	8,5	6	14	5	162060018
G1/4	11	8	17	6	162060028
G3/8	12,5	9	20	8	162060038
G1/2	13,5	10	25	10	162060048

ISO G - Plug 16213

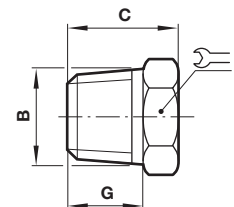
Nickel plated brass



B	C	C1	ØD		Model
G1/8	8	2	8	5	162130018
G1/4	11	3	11	6	162130028
G3/8	12,5	3,5	14,5	8	162130038
G1/2	14	4	18	10	162130048
G3/4	14	3	21,5	12	162130068

ISO R - Plug 15005

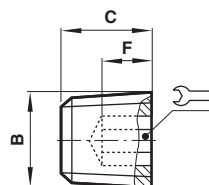
Nickel plated brass



B	C	G		Model
R1/8	11	7,5	10	150050018
R1/4	15	11	14	150050028
R3/8	15,5	11,5	17	150050038
R1/2	18,5	14	22	150050048
R3/4	21,5	16,5	27	150050068
R1	25	19	34	150050088

ISO R - Plug 15113

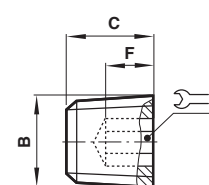
Nickel plated brass



B	C	F		Model
R1/8	7,5	5	5	151130018
R1/4	10	7	6	151130028
R3/8	11	7	8	151130038
R1/2	13	8	10	151130048

ISO R - Plug 25013

Brass (unplated)

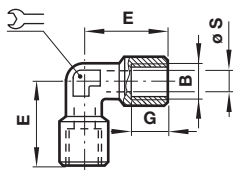


B	C	F		Model
R1/8	7,5	5	5	250130018
R1/4	10	7	6	250130028
R3/8	11	7	8	250130038
R1/2	13	8	10	250130048

ISO G and metric Elbow connector

16042

Nickel plated brass

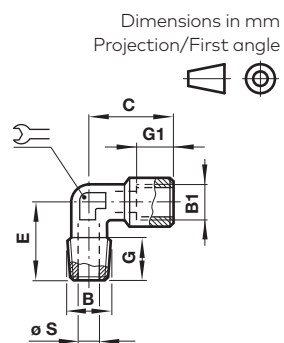


B	E	G	Ø S		Typ
M5	11	5,5	-	9	1604200M5
G1/8	21	7	5,5	11	160420018
G1/4	25,5	8,5	8	13	160420028
G3/8	28	11	11	17	160420038
G1/2	32	15	15	20	160420048
G3/4	36,5	16,5	19	27	160420068
G1	45	19	24	30	160420088

ISO G - ISO R Elbow connector

15043

Nickel plated brass

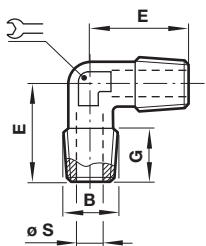


B	B1	C	E	G	G1	Ø S		Model
M5	M5	11,5	11,5	4	5,5	-	9	1604300M5
R1/8	G1/8	21	18	7,5	8,5	5,5	12	150430018
R1/4	G1/4	25,5	24	11	11	8	13	150430028
R3/8	G3/8	28	27	11,5	12	11	16	150430038
R1/2	G1/2	32	29,5	14	15	15	20	150430048
R3/4	G3/4	36,5	32	14,5	16,5	19	27	150430068
R1	G1	45	39	16	19	24	30	150430088

ISO R - Elbow connector

15040

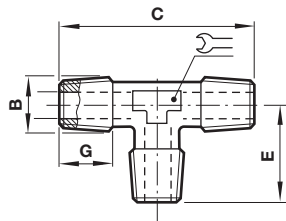
Nickel plated brass



B	E	G	Ø S		Model
R1/8	18	7,5	6	11	150400018
R1/4	24	11	8	13	150400028
R3/8	27	12	11	17	150400038
R1/2	29,5	14	15	20	150400048
R3/4	32	14,5	19	27	150400068
R1	39	17	24	30	150400088

ISO R - Tee connector 15060

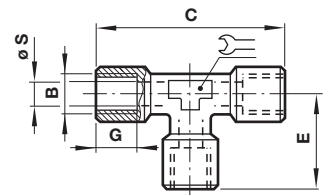
Nickel plated brass



B	C	E	G	Ø S		Model
R1/8	35	17,5	8	5,5	12	150600018
R1/4	46	23	11	8	13	150600028
R3/8	51,5	25,5	11,5	11	16	150600038
R1/2	59	29,5	14	15	20	150600048
R3/4	64	32	14,5	19	27	150600068
R1	78	39	17	24	30	150600088

ISO G - Tee connector 16062

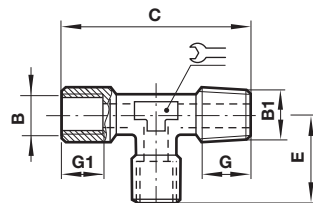
Nickel plated brass



B	C	E	G	Ø S		Model
G1/8	39	19,5	8,5	6	12	160620018
G1/4	49	24,5	11	8	13	160620028
G3/8	54	27	12	11	16	160620038
G1/2	64	32	15	15	20	160620048
G3/4	73	36,5	16,5	19	27	160620068
G1	90	45	19	24	30	160620088

ISO R and Metric - ISO G - Tee connector 15072

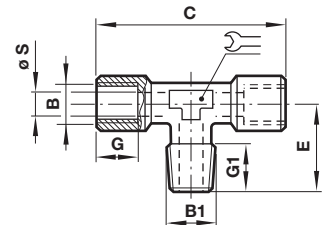
Nickel plated brass



B	B1	C	E	G	G1		Model
M5	M5	22	11	4	5,5	9	1607200M5
G1/8	R1/8	37	19,5	8	8,5	12	150720018
G1/4	R1/4	47,5	24,5	11	11	13	150720028
G3/8	R3/8	52,5	27	11,5	12	16	150720038
G1/2	R1/2	61,5	32	14	15	20	150720048
G3/4	R3/4	68,5	36,5	14,5	16,5	27	150720068
G1	R1	84	45	17	19	30	150720088

ISO R and Metric - ISO G - Tee connector 15069

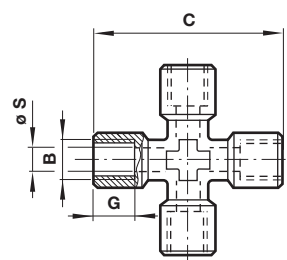
Nickel plated brass



B	B1	C	E	G	G1	Ø S		Model
M5	M5	22	11	5,5	4	-	9	1606900M5
G1/8	R1/8	39	17,5	8,5	8	6	12	150690018
G1/4	R1/4	49	23	11	11	8	13	150690028
G3/8	R3/8	54	25,5	12	11,5	11	16	150690038
G1/2	R1/2	64	29	15	14	15	20	150690048
G3/4	R3/4	73	32	16,5	14,5	19	27	150690068
G1	R1	90	39	19	17	24	30	150690088

ISO G - Cross 16092

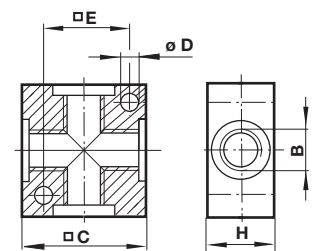
Nickel plated brass



B	C	G	Ø S		Model
G1/8	39	8,5	6	11	160920018
G1/4	50	11	8	13	160920028
G3/8	56	12	11	17	160920038
G1/2	64	15	15	20	160920048

ISO G - Cross block 16094

Aluminium



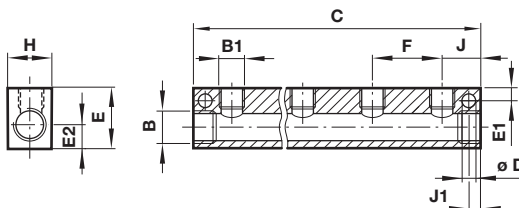
B	C	Ø D	E	H	Model
G1/8	25	4,5	17,5	16	160940018
G1/4	40	5,5	27	20	160940028
G3/8	50	5,5	35	25	160940038
G1/2	50	5,5	35	32	160940048

ISO G - Manifold - single sided

34050

Brass

Dimensions in mm
Projection/First angle



Numbers of outputs: 4

B	B1	C	ØD	E	E1	E2	F	H	J	J1	Model
G1/4	G1/4	109	5,5	31	5	20	23	23	20	5	34050402
G3/8	G3/8	127	6,5	35	6	23	27	25,5	20	6	34050403

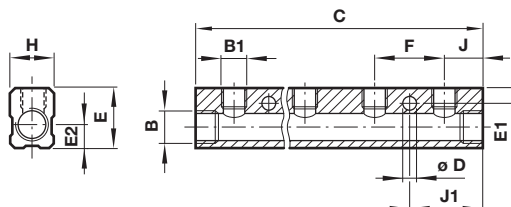
Numbers of outputs: 6

B	B1	C	ØD	E	E1	E2	F	H	J	J1	Model
G1/4	G1/4	155	5,5	31	5	20	23	23	20	5	34050602

ISO G - Manifold - single sided

162B4 and 162B6

Aluminium



Numbers of outputs: 4

B	B1	C	ØD	E	E1	E2	F	H	J	J1	Model
G1/4	G1/8	125	4,5	24	6	9	30	18	17,5	32,5	162B42818
G3/8	G1/4	148	5,5	30	7	11	36	22	20	38	162B43828
G1/2	G3/8	170	5,5	35	7,5	13	40	26	25	45	162B44838

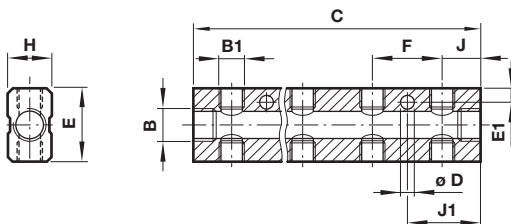
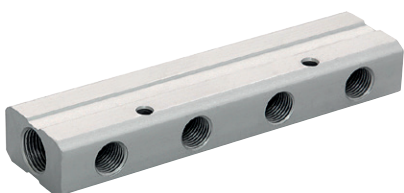
Numbers of outputs: 6

B	B1	C	ØD	E	E1	E2	F	H	J	J1	Model
G1/4	G1/8	185	4,5	24	6	9	30	18	17,5	32,5	162B62818
G3/8	G1/4	220	5,5	30	7	11	36	22	20	38	162B63828
G1/2	G3/8	250	5,5	35	7,5	13	40	26	25	45	162B64838

ISO G - Manifold - double sided

162C4 and 162C6

Aluminium



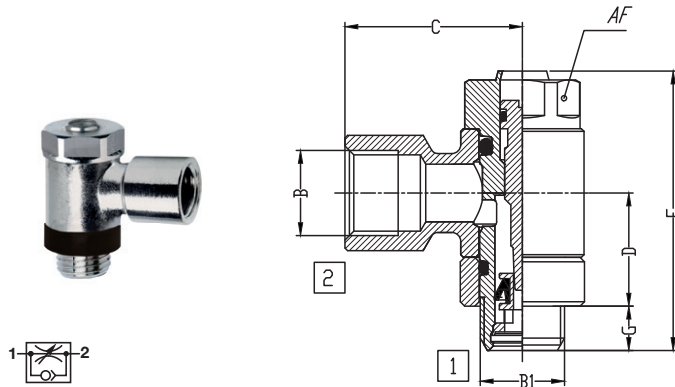
Numbers of outputs: 8

B	B1	C	ØD	E	E1	F	H	J	J1	Model
G1/4	G1/8	125	4,5	30	6	30	18	17,5	32,5	162C42818
G3/8	G1/4	148	5,5	38	7	36	22	20	38	162C43828
G1/2	G3/8	170	5,5	44	7,5	40	26	25	45	162C44838

Numbers of outputs: 12

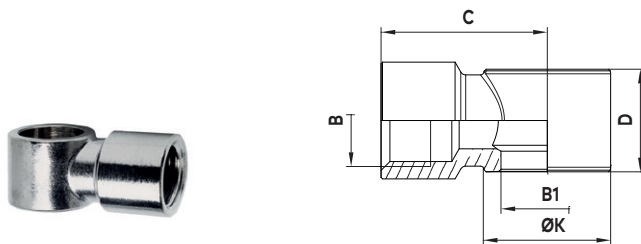
B	B1	C	ØD	E	E1	F	H	J	J1	Model
G1/4	G1/8	185	4,5	30	6	30	18	17,5	32,5	162C62818
G3/8	G1/4	220	5,5	38	7	36	22	20	38	162C63828
G1/2	G3/8	250	5,5	44	7,5	40	26	25	45	162C64838

ISO G - Elbow banjo assembly regulating-out BSP parallel 16K51



B	B1	C	D	E	G	AF	Weight (g)	Model
G1/8	G1/8	20	12,5	31,5	5	12	30	16K511818
G1/4	G1/4	23,5	12,5	32,5	6	15	47	16K512828
G3/8	G3/8	26,5	12,5	42	8	19	74	16K513838
G1/2	G1/2	34,5	24,5	70,5	8	27	235	16K514848

Banjo elbow body 16051

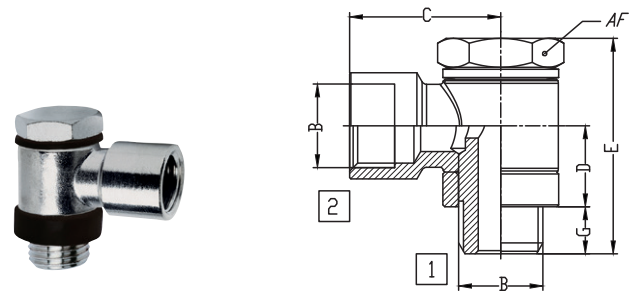


B	Bolt size B	ØB1	ØK	D	C	Weight (g)	Model
G1/8	G1/8	9,8	14	14,5	20	14	160511818Z
G1/4	G1/4	13,2	18	14,5	23,5	21	160512828Z
G3/8	G3/8	16,7	21	14,5	26,5	27	160513838Z
G1/2	G1/2	21	44	14,5	34	44	160514848Z

Note: Banjo elbow bodies with suffix Z at the end of the model number are not interchangeable with the previous series without the suffix Z.

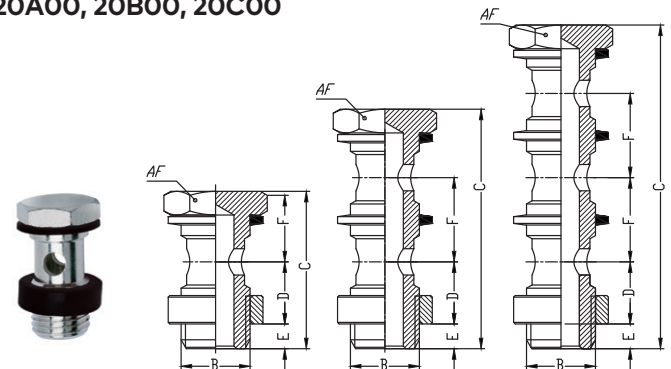
ISO G - Banjo elbow non-regulating, BSP parallel to BSP parallel 16A51

Dimensions in mm
Projection/First angle



B	C	D	E	G	AF	Weight (g)	Model
G1/8	20	12,5	31	6	14	29	16A511818
G1/4	23,5	12,5	33,5	8	17	48	16A512828
G3/8	26,5	12,5	34	8	19	64	16A513838
G1/2	34	12,5	35	9	27	104	16A514848

ISO G - Banjo bolt, non-regulating stacking 20A00, 20B00, 20C00

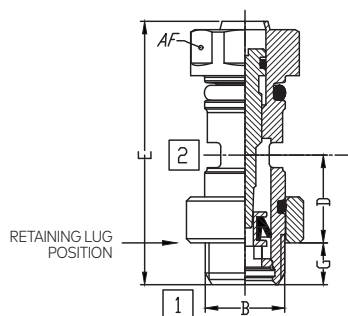
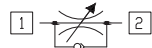


B	C	D	E	F	AF	Type	Weight (g)	Model
M5	18	5,5	4	-	8	Single	4	20A000005Z
G1/8	31	12,5	6	-	14	Single	15	20A000018Z
G1/4	33,5	12,5	8	-	17	Single	27	20A000028Z
G3/8	34	12,5	8	-	19	Single	37	20A000038Z
G1/2	35	12,5	9	-	27	Single	60	20A000048Z
G1/8	56	12,5	6	25	14	Double	26	20B000018Z
G1/4	58,5	12,5	8	25	17	Double	44	20B000028Z
G3/8	59	12,5	8	25	19	Double	64	20B000038Z
G1/4	61,5	12,5	8	25	17	Triple	42	20C000028Z
G3/8	62	12,5	8	25	19	Triple	62	20C000038Z

Note:

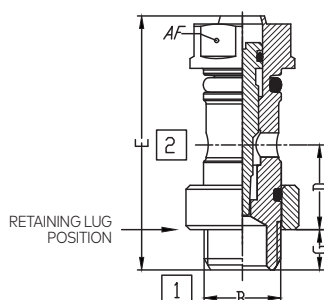
Banjo bolts are supplied with a spacing washer with integral retention lug. The washer must be installed with the mounting lug at the lowest position to ensure retention on to thread.

ISO G - Banjo bolt, regulating out, 20K00



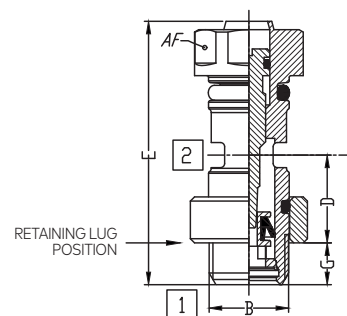
B	D	E	G	AF	Weight (g)	Model
G1/8	12,5	31,5	5	12	15	20K000018Z
G1/4	12,5	32,5	6	15	25	20K000028Z
G3/8	12,5	42	8	19	45	20K000038Z

ISO G - Banjo bolt, regulating bi-directional, 20M00



B	D	E	G	AF	Weight (g)	Model
G1/8	12,5	31,5	5	12	17	20M000018Z
G1/4	12,5	32,5	6	15	27	20M000028Z

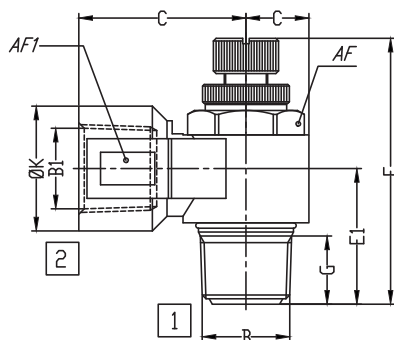
ISO G - Banjo bolt, regulating in, BSP parallel 20L00



B	D	E	G	AF	Weight (g)	Model
G1/8	12,5	31,5	5	12	15	20L000018Z
G1/4	12,5	32,5	6	15	25	20L000028Z

Note: Banjo bolts, regulating, non-regulating and stacking with suffix Z at the end of the model number are not interchange with the previous series without the suffix Z.

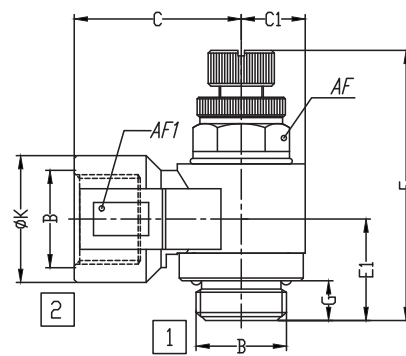
ISO R - Elbow flow control, regulating out 10TA0



B	B1	C	C1	E Max	E1	G	ØK	AF	AF1	Weight (g)	Model
R1/8	Rc1/8	18.2	7.3	40.7	16.0	7.6	14.5	12	15	30	10TA01818
R1/4	Rc1/4	26.5	9.5	46.6	21.1	10.6	18.0	15	19	60	10TA02828
R3/8	Rc3/8	30.8	11.6	54.9	25.0	12.6	23.0	19	24	107	10TA03838
R1/2	Rc1/2	38.7	14.0	60.1	29.1	14.5	26.5	24	28	170	10TA04848

Material: Body - Zinc die-casting

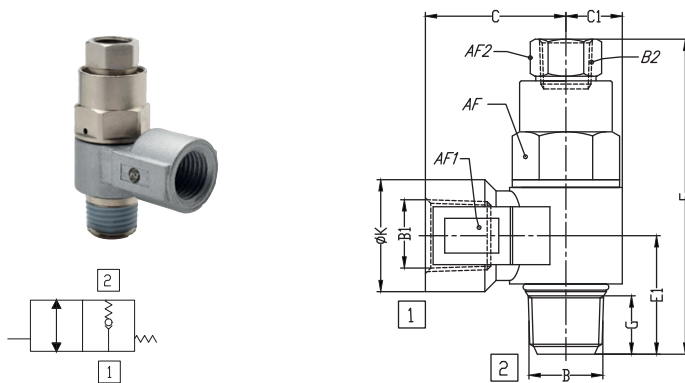
ISO G - Elbow flow control, regulating out 10KA0



B	C	C1	E Max	E1	G	ØK	AF	AF1	Weight (g)	Model
G1/8	17.7	7.3	40.7	14.8	6.0	14.5	8	15	31	10KA01818
G1/4	26.0	9.5	46.6	15.8	8.0	18	12	19	66	10KA02828
G3/8	30.3	11.6	54.9	18.4	8.0	23	15	24	117	10KA03838
G1/2	38.2	14.0	60.1	22.1	9.0	26.5	19	28	180	10KA04848

Material: Body - Zinc die-casting

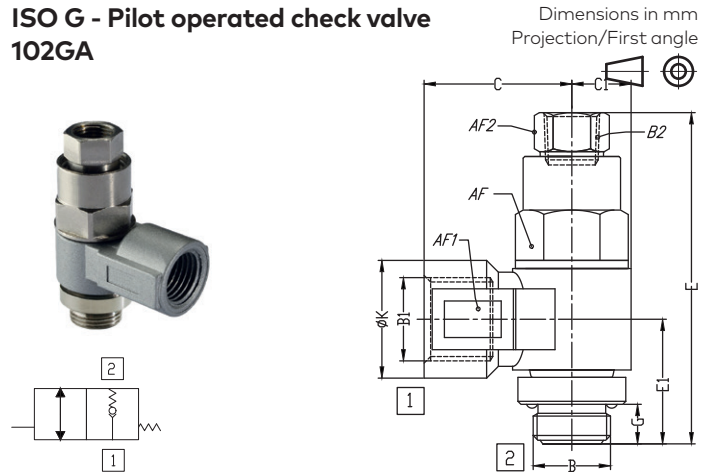
ISO R - Pilot operated check valve 101GA



B	B1	B2	C	C1	E	E1	G	ØK	AF	AF1	AF2	Weight (g)	Model
R1/8	Rc1/8	M5	18.2	7.3	40.8	15.4	7.6	14.5	12	15	8	35	101GA1818
R1/4	Rc1/4	Rc1/8	26.5	9.5	48.9	21.1	10.6	18.0	17	19	12	75	101GA2828
R3/8	Rc3/8	Rc1/8	30.8	11.6	56.7	24.8	12.6	23.0	20	24	12	123	101GA3838
R1/2	Rc1/2	Rc1/4	38.7	14.0	70.6	31.0	14.5	26.5	24	28	17	207	101GA4848

Material: Body - Zinc die-casting

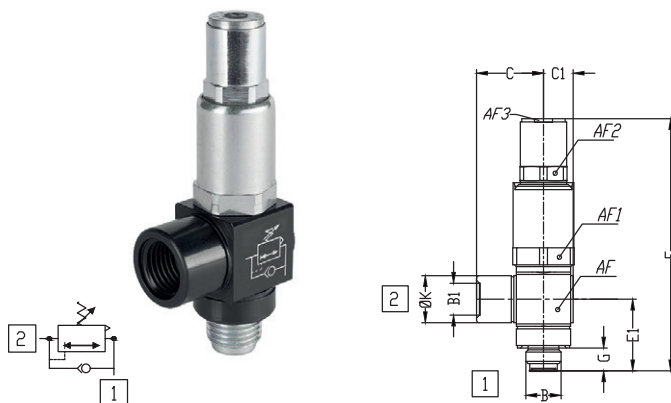
ISO G - Pilot operated check valve 102GA



B	B1	B2	C	C1	E	E1	G	ØK	AF	AF1	AF2	Weight (g)	Model
G1/8	G1/8	M5	17.7	7.3	40.8	16.2	5.1	14.5	12	15	8	35	102GA1818
G1/4	G1/4	G1/8	26.0	9.5	48.9	21.3	6.6	18.0	17	19	12	77	102GA2828
G3/8	G3/8	G1/8	30.3	11.6	56.7	24.8	7.2	23.0	20	24	12	128	102GA3838
G1/2	G1/2	G1/4	38.2	14.0	70.6	29.6	8.7	26.5	24	28	17	219	102GA4848

Material: Body - Zinc die-casting

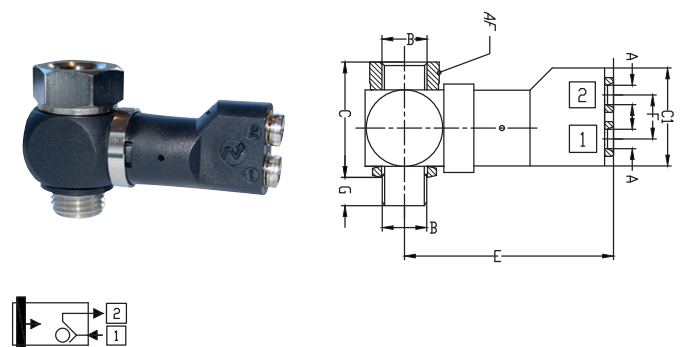
ISO G - Pressure reduction valve 102GB



B	B1	C	C1	E	E1	G	ØK	AF	AF1	AF2	AF3	Weight (g)	Model
G1/8	G1/8	18.5	8.4	70	19.8	6.3	13	15	17	13	5	57	102GB1818
G1/4	G1/4	22.5	10.4	78	25.8	9.5	18	19	17	13	5	76	102GB2828
G3/8	G3/8	28.5	12.5	85.7	29	9.7	23	23	23	17	6	132	102GB3838
G1/2	G1/2	31	15.3	86.7	32	9.5	25	28	27	17	6	181	102GB4848

Materials: Body - PA, Banjo bolt - nickel plated brass

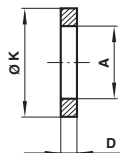
ISO G - Pressure sensor valve 102GD



ØA	B	C	C1	E	F	G	AF	Weight (g)	Model
4	G1/8	25	21	45.2	9.5	5.5	15	38	102GD0418
4	G1/4	29	21	47.2	9.5	6.5	19	55	102GD0428

Materials: Body - PA, Banjo bolt - nickel plated brass

ISO G - Copper sealing washer 480213

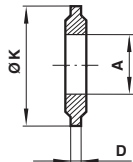


A for thread	D	K	Model
G1/8	1,8	13,5	48021301
G1/4	1,8	17,6	48021302
G3/8	1,8	20,9	48021303
G1/2	1,8	26,4	48021304
G3/4	1,8	32,4	48021306
G1	1,8	38,9	48021308

Operating Pressure: 20 Bar (max)

Temperature: -10°C ... +80°C

ISO G - Bonded sealing washer 480215

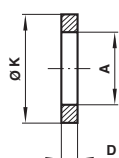


A for thread	D	K	Model
G1/8	2	15,9	48021501
G1/4	2	20,6	48021502
G3/8	2	23,8	48021503
G1/2	2	28,6	48021504
G3/4	2	34,9	48021506
G1	2,5	42,8	48021508

Operating Pressure: 128 Bar (max)

Temperature: -30°C ... +110°C

ISO G - Aluminium sealing washer (supplied with ISO G male connectors)



A for thread	D	K
G1/8	1,5	14
G1/4	1,5	18
G3/8	1,5	21
G1/2	1,5	26
G3/4	2,5	32
G1	2,5	39,5

Operating Pressure: 20 Bar (max)

Temperature: -10°C ... +80°C

PTFE - sealing tape DB-R-12



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.

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97

Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

www.norgren.nt-rt.ru | | ner@nt-rt.ru