

1800 Linea - Line

raccordi a compressione con ogiva ottone
brass fittings with brass ring





SYSTEM

FIELDS OF APPLICATION

Mainly used in distribution systems for hot and cold water, in radiating heating installations, for the distribution of gaseous and liquid fuels and for the sanitary draining of water.

PIPE

MULTIPLE ADVANTAGES IN THE USE OF COPPER PIPES

- Resistance to abrasion. Low load loss due to good homogeneous surface.
- High thermal conductivity.
- High resistance to atmospheric agents.
- Non-deformability.
- Smaller dimensions (under the same piping run, the copper pipe has a smaller outside diameter).
- No memory effect and consequently no spring back.
- Highly recyclable.
- Non-toxic - therefore excellent for transporting drinking water

PIPE

REGULATIONS AND USE CONDITIONS

EN ISO 1057:1997 "Copper and copper alloys - Round copper weldless pipes for water and gas in sanitary and heating installations".

UNI EN 12449:2001 "Copper and copper alloys - Round copper weldless pipes for general use".

Ø PIPE	COUPLING THREAD	TIGHTENING TURNS (+1/4)
10	9/16"-24 UNEF	1/2
12	G 3/8"	11/4
14	G 1/2"	3/4
15	G 1/2"	1
16	G 5/8"	3/4
18	W15/16-14	1
22	W1"1/8-14	1/2
28	W1"3/8-14	1/2
35	W42.06-14	1/2
42	W49.2-11	1/2
54	W63.05-11	1/2

SYSTEM

ASSEMBLY INSTRUCTIONS

Photo N°.1



Photo N°.2



Photo N°.3



Photo N°.4

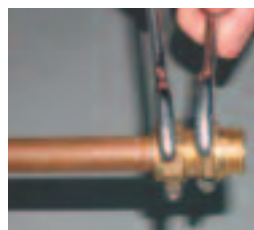


Photo n°1 - Cut the pipe perpendicularly to its axis using an appropriate tool and remove any possible flashes.

Photo n°2 - Insert the parts into the pipe as shown in the picture.

Photo n°3 - Insert the pipe into the body pushing the parts against the same body.

Photo n°4 - Tighten the nut by hand till it clumps. Then tighten the nut using an appropriate tool.

FITTINGS

PRODUCTION AND MATERIALS

All the fittings are manufactured on transfer machines (from hot-stamping) and multi-spindle ones (from bars). The raw material is made up of hot-stamped pieces and brass bars.

MATERIAL		
Hot-stamped pieces	UNI EN 12165-CW617N-CuZn40Pb2	Cu 57-59 Pb 1.6-2.2 Sn <0.3 Fe <0.3 Ni <0.3 Al <0.05 Zn Diff.
Barra	UNI EN 12164-CW614N-CuZn39Pb3	Cu 57-59 Pb 2.3-3.5 Sn <0.3 Fe <0.1 Ni <0.3 Al <0.05 Zn Diff.

NOTES CONCERNING THE MATERIALS USED :

BRASS ALLOY: All the items made from hot-stamping comply with the DIN 50930.6 norm which limits the lead content of the alloy to below 2.2% - D.M. 174 dated 6th April 2004.

FITTINGS

SYSTEM COUPLING THREADS AND REFERENCE REGULATIONS

UNI EN ISO 1254-2

ISO 7/1 – specific for fittings showing the logo Gastec (GAS)

UNI EN 228:2004 – specific for fittings showing the logo Kiwa (ACQUA)
Cylindrical gas threads

“Fittings for copper pipes with compression ends”.

All the threading connections to the system are manufactured in compliance with this norm for conical gas threading having the threading seal. In order to assemble this kind of thread, the use of liquid Teflon is recommended. Avoid hemp or other elements

All the system coupling threads comply with this norm.

SYSTEM

REFERENCE REGULATIONS AND NORMS

EN 1254-2	“Fittings for copper pipes with compression ends”
EN ISO 1057:1997	“Round copper weldless pipes for water and gas in sanitary and heating installations”. This norm sets the requirements, the sampling and the test methods, the supplying conditions regarding the copper pipes
Gastec QA report 115248	GASTEC QA test report for compression fittings
BRL-K604	Evaluation guideline: “Stop and connection cocks”
BRL-K623	Evaluation guideline: “Plumbing fittings for capillary soldering and/or thread connection to copper tubes”.
BRL-K639	Evaluation guideline: “Fittings with compression ends for use with copper tubes”
BRL-K666	Evaluation guideline: “Bip taps with integrated vacuum breaker and insert check valve”
(EN 1254-2 par.5.4)	Extract test
(EN 1254-2 par.5.6)	Sealing test at internal pressure while subjected to bending
(EN 1254-2 par.5.5)	Extract test
(EN 1254-2 par.5.7)	Pressure test
(EN ISO 6509)	Dezinfication test
(ISO 6957)	Ammonia test of the resistance to corrosion stress

C° TEMPERATURE	PRESSURE FOR MAJOR DIAMETERS FROM Ø AF6 TO Ø AF54 BARS INCLUDED
30°	16
65°	10
110°	6
120°	5



Art. 1800.00

Raccordo doppio - Double straight



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180000H101000G	10 x 10	KG	200	1,13
180000H121200G	12 x 12	KG	200	1,42
180000H141400G	14 x 14	KG	100	2,01
180000H151500G	15 x 15	KG	100	1,63
180000H161600G	16 x 16	KG	80	2,50
180000H181800G	18 x 18	KG	80	2,66
180000H222200G	22 x 22	KG	50	2,75
180000H282800G	28 x 28	KG	40	4,42
180000H353500L	35 x 35		20	9,32
180000H424200L	42 x 42		10	12,88
180000H545400L	54 x 54		5	22,35

Art. 1800.02

Raccordo femmina - Female straight



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180002H031000G	3/8" x 10	KG	150	1,20
180002H031200G	3/8" x 12	KG	150	1,20
180002H031500G	3/8" x 15	KG	100	2,01
180002H041000G	1/2" x 10	KG	150	1,99
180002H041200G	1/2" x 12	KG	150	1,99
180002H041400G	1/2" x 14	KG	100	1,97
180002H041500G	1/2" x 15	KG	100	1,53
180002H041600G	1/2" x 16	KG	100	2,06
180002H041800G	1/2" x 18	KG	100	2,28
180002H042200G	1/2" x 22	KG	60	3,41
180002H051400G	3/4" x 14	KG	70	2,69
180002H051500G	3/4" x 15	KG	80	2,68
180002H051600G	3/4" x 16	KG	70	2,96
180002H051800G	3/4" x 18	KG	70	3,28
180002H052200G	3/4" x 22	KG	50	2,59
180002H102200G	1" x 22	KG	50	4,02
180002H102800G	1" x 28	KG	40	4,50
180002H123500L	1.1/4" x 35		20	7,99
180002H144200L	1.1/2" x 42		10	10,23
180002H205400L	2" x 54		5	17,58

Art. 1800.01

Raccordo maschio - Male straight



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180001H031000G	3/8" x 10	KG	200	1,07
180001H031200G	3/8" x 12	KG	200	1,07
180001H031500G	3/8" x 15	KG	150	1,25
180001H041000G	1/2" x 10	KG	150	1,33
180001H041200G	1/2" x 12	KG	150	1,33
180001H041400G	1/2" x 14	KG	150	1,59
180001H041500G	1/2" x 15	KG	150	1,39
180001H041600G	1/2" x 16	KG	100	1,90
180001H041800G	1/2" x 18	KG	100	2,09
180001H042200G	1/2" x 22	KG	70	2,92
180001H051400G	3/4" x 14	KG	80	2,18
180001H051500G	3/4" x 15	KG	80	2,27
180001H051600G	3/4" x 16	KG	80	2,32
180001H051800G	3/4" x 18	KG	80	2,41
180001H052200G	3/4" x 22	KG	70	2,35
180001H102200G	1" x 22	KG	50	2,93
180001H102800G	1" x 28	KG	40	3,65
180001H123500L	1.1/4" x 35		20	7,82
180001H144200L	1.1/2" x 42		10	11,85
180001H205400L	2" x 54		10	18,00

Art. 1800.03

Raccordo ridotto - Reduced straight



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180003H121000G	12 x 10	KG	200	1,25
180003H151000G	15 x 10	KG	150	1,50
180003H151200G	15 x 12	KG	150	1,53
180003H221500G	22 x 15	KG	70	2,77
180003H282200G	28 x 22	KG	40	4,14
180003H351500L	35 x 15		20	8,31
180003H352200L	35 x 22		20	9,10

K= Kiwa G= Gastec

Art. 1800.08

Tee femmina laterale - Side female tee



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180008H041515K	1/2" x 15 x 15	K	60	3,31
180008H042222G	1/2" x 22 x 22	KG	30	3,59
180008H052222K	3/4" x 22 x 22	K	20	5,76

Art. 1800.12

Tee femmina - Female tee



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180012H120412G	12 x 1/2" x 12	KG	100	2,57
180012H140414G	14 x 1/2" x 14	KG	40	3,42
180012H140514G	14 x 3/4" x 14	KG	40	4,12
180012H150215G	15 x 1/4" x 15	KG	60	2,40
180012H150315G	15 x 3/8" x 15	KG	60	3,21
180012H150415G	15 x 1/2" x 15	KG	50	3,11
180012H150515G	15 x 3/4" x 15	KG	40	3,90
180012H160416G	16 x 1/2" x 16	KG	40	3,19
180012H160516G	16 x 3/4" x 16	KG	40	4,32
180012H180418G	18 x 1/2" x 18	KG	40	3,33
180012H180518G	18 x 3/4" x 18	KG	40	4,46
180012H220422G	22 x 1/2" x 22	KG	30	3,67
180012H220522K	22 x 3/4" x 22	K	30	5,11
180012H280428K	28 x 1/2" x 28	K	20	5,72
180012H280528K	28 x 3/4" x 28	K	20	8,27

Art. 1800.09

Angolo tee - Tee elbow



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180009H151515G	15 x 15 x 15	KG	50	3,90
180009H221515G	22 x 15 x 15	KG	30	5,03
180009H222215G	22 x 22 x 15	KG	20	5,30
180009H222222G	22 x 22 x 22	KG	20	6,34

Art. 1800.13

Tee ridotto - Reduced tee



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180013H121512G	12 x 15 x 12	KG	70	2,73
180013H151212G	15 x 12 x 12	KG	70	2,78
180013H151215G	15 x 12 x 15	KG	60	3,05
180013H151512G	15 x 15 x 12	KG	60	3,18
180013H152215G	15 x 22 x 15	KG	50	3,90
180013H221515G	22 x 15 x 15	KG	40	3,56
180013H221522G	22 x 15 x 22	KG	30	3,73
180013H222215G	22 x 22 x 15	KG	30	4,23
180013H222822G	22 x 28 x 22	KG	20	6,43
180013H281522G	28 x 15 x 22	KG	20	5,56
180013H281528G	28 x 15 x 28	KG	20	5,38
180013H282215G	28 x 22 x 15	KG	20	5,76
180013H282222G	28 x 22 x 22	KG	20	6,29
180013H282228G	28 x 22 x 28	KG	20	6,62
180013H282815G	28 x 28 x 15	KG	20	6,57
180013H282822G	28 x 28 x 22	KG	20	7,50
180013H351535L	35 x 15 x 35		10	10,19
180013H352235L	35 x 22 x 35		10	10,57
180013H352835L	35 x 28 x 35		10	11,54

Art. 1800.10

Tee



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180010H101010G	10 x 10 x 10	KG	100	2,09
180010H121212G	12 x 12 x 12	KG	100	2,17
180010H141414G	14 x 14 x 14	KG	60	2,77
180010H151515G	15 x 15 x 15	KG	60	2,62
180010H161616G	16 x 16 x 16	KG	40	4,03
180010H181818G	18 x 18 x 18	KG	40	4,11
180010H222222G	22 x 22 x 22	KG	30	4,26
180010H282828G	28 x 28 x 28	KG	20	7,04
180010H353535L	35 x 35 x 35		10	13,96
180010H424242L	42 x 42 x 42		5	19,14
180010H545454L	54 x 54 x 54		3	35,01

K= Kiwa G= Gastec



Art. 1800.17

Tee maschio laterale - Side female tee



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180017H041515G	1/2" x 15 x 15	KG	60	3,13
180017H052222G	3/4" x 22 x 22	KG	20	4,99
180017H102222G	1" x 22 x 22	KG	20	9,02
180017H102828G	1" x 28 x 28	KG	20	7,48

Art. 1800.21

Angolo maschio - Male elbow



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180021H031200G	3/8" x 12	KG	150	1,56
180021H041200G	1/2" x 12	KG	150	2,20
180021H041400G	1/2" x 14	KG	80	1,93
180021H041500G	1/2" x 15	KG	100	1,82
180021H041600G	1/2" x 16	KG	70	2,16
180021H041800G	1/2" x 18	KG	70	2,24
180021H051200G	3/4" x 12	KG	50	2,69
180021H051400G	3/4" x 14	KG	50	3,18
180021H051500G	3/4" x 15	KG	50	3,06
180021H051600G	3/4" x 16	KG	50	3,22
180021H051800G	3/4" x 18	KG	50	3,28
180021H052200G	3/4" x 22	KG	50	3,31
180021H052800G	3/4" x 28	KG	30	4,44
180021H102200G	1" x 22	KG	30	5,65
180021H102800G	1" x 28	KG	30	5,97

Art. 1800.20

Angolo doppio - Double elbow



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180020H101000G	10 x 10	KG	150	1,77
180020H121200G	12 x 12	KG	150	1,76
180020H141400G	14 x 14	KG	100	2,21
180020H151500G	15 x 15	KG	100	1,99
180020H161600G	16 x 16	KG	60	2,99
180020H181800G	18 x 18	KG	60	3,19
180020H222200G	22 x 22	KG	40	3,24
180020H282800G	28 x 28	KG	30	5,25
180020H353500L	35 x 35		15	10,49
180020H424200L	42 x 42		10	14,67
180020H545400L	54 x 54		5	26,49

Art. 1800.22

Angolo femmina - Female elbow



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180022H031200G	3/8" x 12	KG	150	1,71
180022H031500K	3/8" x 15	K	100	2,33
180022H041200G	1/2" x 12	KG	150	1,92
180022H041400G	1/2" x 14	KG	80	2,46
180022H041500G	1/2" x 15	KG	100	1,91
180022H041600G	1/2" x 16	KG	70	2,57
180022H041800G	1/2" x 18	KG	70	2,88
180022H051400G	3/4" x 14	KG	50	2,94
180022H051500G	3/4" x 15	KG	60	2,83
180022H051600G	3/4" x 16	KG	60	2,96
180022H051800G	3/4" x 18	KG	60	3,16
180022H052200G	3/4" x 22	KG	50	3,36
180022H052800K	3/4" x 28	K	30	6,29
180022H102200G	1" x 22	KG	30	5,16
180022H102800G	1" x 28	KG	30	5,99
180022H123500L	1.1/4" x 35		15	9,61
180022H144200L	1.1/2" x 42		10	16,50
180022H205400L	2" x 54		5	26,53

K= Kiwa G= Gastec

Art. 1800.23

Attacco a muro - Wallplate elbow



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180023H041200G	1/2" x 12	KG	40	3,22
180023H041400G	1/2" x 14	KG	40	3,50
180023H041500K	1/2" x 15	K	40	3,46
180023H041600G	1/2" x 16	KG	30	4,12
180023H042200L	1/2" x 22		20	5,89
180023H051500K	3/4" x 15	K	30	6,15
180023H052200K	3/4" x 22	K	20	7,10

Art. 1800.40

Tappo maschio - Male cap



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180040H120000G	12	KG	300	0,77
180040H150000G	15	KG	200	0,92
180040H220000G	22	KG	100	2,77
180040H280000G	28	KG	50	3,73
180040H350000L	35		30	6,23

Art. 1800.29

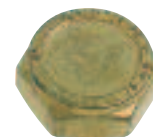
Angolo ridotto - Reduced elbow



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180029H121000G	12 x 10	KG	150	1,67
180029H151000G	15 x 10	KG	150	1,98
180029H151200G	15 x 12	KG	150	1,99
180029H221500G	22 x 15	KG	50	2,88
180029H281500L	28 x 15		40	4,03
180029H282200L	28 x 22		30	4,60

Art. 1800.41

Tappo femmina - Female cap



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180041H100000L	10			0,33
180041H120000L	12			0,41
180041H150000L	15			0,46
180041H220000L	22			0,69
180041H280000L	28			1,11
180041H350000L	35			2,50
180041H420000L	42			3,30
180041H540000L	54			5,55

Art. 1800.36

Croce - Cross



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180036H150000G	15 x 15 x 15 x 15	KG	30	3,75
180036H220000G	22 x 22 x 22 x 22	KG	20	6,06
180036H280000G	28 x 28 x 28 x 28	KG	10	9,33

K= Kiwa G= Gastec



Art. 1800.70

Dado - Nut



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180070H100000L	10			0,27
180070H120000L	12			0,34
180070H140000L	14			0,41
180070H150000L	15			0,38
180070H160000L	16			0,50
180070H180000L	18			0,55
180070H220000L	22			0,58
180070H280000L	28			0,93
180070H350000L	35			2,08
180070H420000L	42			2,75
180070H540000L	54			4,62

Art. 1800.A9

Set riduzione - Reduction set



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
1800A9H121000H	12 x 10			0,37
1800A9H151000H	15 x 10			0,51
1800A9H151200H	15 x 12			0,47
1800A9H221200H	22 x 12			0,96
1800A9H221500H	22 x 15			0,85
1800A9H281200H	28 x 12			1,64
1800A9H281500H	28 x 15			1,53
1800A9H282200H	28 x 22			1,85
1800A9H352200H	35 x 22			2,38
1800A9H352800H	35 x 28			2,62
1800A9H422800H	42 x 28			3,55
1800A9H423500H	42 x 35			3,93
1800A9H543500H	54 x 35			6,66
1800A9H544200H	54 x 42			7,03

Art. 1800.81

Ogiva - Ring



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180081R100000H	10			0,07
180081R120000H	12			0,07
180081R140000H	14			0,11
180081R150000H	15			0,07
190081R160000H	16			0,14
190081R180000H	18			0,17
190081R220000H	22			0,10
190081R280000H	28			0,18
180081R350000H	35			0,31
180081R420000H	42			0,35
180081R540000H	54			1,10

Art. 1800.B1

Croce ridotta - Reduced cross



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
1800B1H221500G	22 x 15 x 22 x 15	KG	20	5,06
1800B1H221501G	22 x 15 x 15 x 15	KG	20	4,86

Art. 1800.95

Attacco per serbatoio - Tank connector



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
180095H150000H	15		100	2,79
180095H220000H	22		50	4,83
180095H350000H	35			9,16
180095H420000H	42			12,87
180095H540000H	54			18,79

Art. 1800.B2

Attacco a muro maschio - Male wall/plate elbow



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
1800B2H051500K	3/4" x 15	K	30	4,06

K= Kiwa G= Gastec



Art. 1800.B8

Dritto maschio per radiatore - Male straight for radiator



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
1800B8H041500L	1/2" x 15		60	4,83

Art. 1800.C1

Tappo interno - Stop and



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
1800C1H120000H	12		1000	0,19
1800C1H150000H	15		500	0,28
1800C1H220000H	22			0,52
1800C1H280000H	28			1,04

Art. 1800.B9

Angolo per radiatore - Elbow for radiator



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
1800B9H041500L	1/2" x 15		50	5,32

Art. 1100.94

Bussola di rinforzo - Reinforcement part



Codice/Code	Misura/Size	Cert.	Quant/Q.ty	Euro
110094H081000H	8 x 10		1200	0,16
110094H101200H	10 x 12		750	0,20
110094H121400H	12 x 14		750	0,23
110094H141600H	14 x 16		600	0,31
110094H151300H	13 x 15		600	0,26
110094H161800H	16 x 18		600	0,33
110094H202200H	20 x 22		300	0,36

I raccordi della serie 1800 sono disponibili anche nichelati su richiesta
Nickel plated fittings of range 1800 are also available on request

K= Kiwa G= Gastec