

Main features and certifications

Compression fittings in nickel-plated brass. Available in many versions, threads and tube diameters. Supplied as standard in compliance to Reach and RoHS directives.



8434



2353



Series O

from page 4.25.10



Series of compression fittings for brass tubes. The ogive crushing onto the tube, by screwing down the external nut, allows to get a safe connection even at high pressures. The ogive is single cone.

The fitting seats, the ogives and the nuts are conforming to DIN 3870-3861 standards. The series of compression fittings is also suitable for connecting "soft" tubes (Rilsan, Polyurethane, Nylon etc.), by applying a tube insert inside the tube. Available in different configurations, with taper BSPT threads and BSP threads, in various sizes.

Compression fittings

Series O



Code key

Series	Type*	Ø Tube*	Thread (or Ø Tube 2)*
O	11	06	18

O

11, 12, 13, 14, 15, 16, 17, 18, 19, 20,
21, 22, 23, 25, 26, 27

04 = Ø 4 mm
06 = Ø 6 mm
08 = Ø 8 mm
10 = Ø 10 mm
12 = Ø 12 mm
15 = Ø 15 mm

M5 = M5x0,8
18 = 1/8"
14 = 1/4"
38 = 3/8"
12 = 1/2"

How to order

Series	Type	Ø Tube	Thread
O	11	06	18

Notes

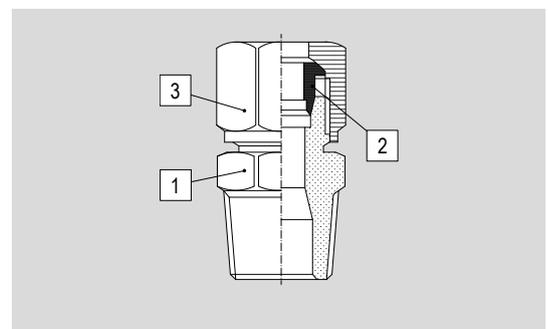
For standard materials see the table below.

* For matching between fitting type, tube diameter and thread, see page 4.25.11; for the specific type, see the following pages.

Technical data

Version	Series O
Fluid	Compressed air
Maximum pressure	According to the used tube. Maximum 60 bar.
Temperature range	According to the used tube.
Parallel threads	UNI - ISO 228 / 1 (BSP)
Taper threads	UNI EN 10226-1 (BSPT)
Metric threads	UNI EN ISO 965-1
Tubes	Metal Calibrated Nylon (PA6), PU and Rilsan (PA11) (with tube insert)

Standard materials



Position	Description	Material
1	Body	Nickel-plated brass
2	Ogive	Brass
3	Nut	Nickel-plated brass

Fittings series O

Type			Taper threads (BSPT)	Parallel threads (BSP)	Metric threads	For tube Ø mm	Stem Ø mm	Data sheet and code page
O11	BSPT stud		1/8", 1/4", 3/8", 1/2"	-	-	4, 5, 6, 8, 10, 12, 15	-	4.25.12
O12	BSP stud		-	1/8", 1/4", 3/8", 1/2"	M5x0,8	4, 5, 6, 8, 10, 12, 15	-	4.25.12
O13	Female BSP stud		-	1/8", 1/4", 3/8"	-	4, 5, 6, 8, 10	-	4.25.13
O14	Union		-	-	-	4, 5, 6, 8, 10, 12, 15	-	4.25.13
O15	Bulkhead		-	-	-	4, 5, 6, 8, 10, 12, 15	-	4.25.14
O26	Reducer		-	-	-	6, 8	8, 10, 12	4.25.14
O16	BSPT elbow		1/8", 1/4", 3/8", 1/2"	-	-	4, 5, 6, 8, 10, 12, 15	-	4.25.15
O17	Equal elbow		-	-	-	4, 5, 6, 8, 10, 12, 15	-	4.25.15
O27	Female BSP elbow		-	1/8", 1/4"	-	4, 6, 8	-	4.25.16
O18	Equal tee		-	-	-	4, 5, 6, 8, 10, 12, 15	-	4.25.16
O19	BSPT tee		1/8", 1/4", 3/8", 1/2"	-	-	4, 5, 6, 8, 10, 12, 15	-	4.25.17
O20	BSPT side tee		1/8", 1/4", 3/8", 1/2"	-	-	4, 5, 6, 8, 10, 12, 15	-	4.25.17
O25	Single banjo		-	-	-	6, 8	-	4.25.18
O21	Nut		-	-	-	4, 5, 6, 8, 10, 12, 15	-	4.25.18
O22	Ogive		-	-	-	4, 5, 6, 8, 10, 12, 15	-	4.25.19
O23	Tube insert		-	-	-	4, 6, 8, 10, 12, 15	-	4.25.19

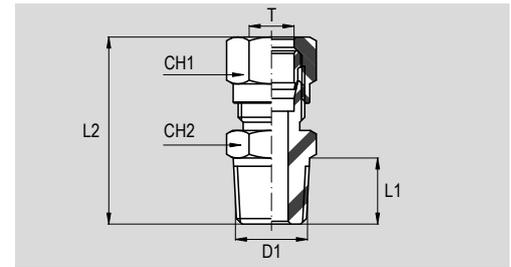
Thread/Tube matching

External Tube Ø	Thread								
	M5x0,8	G1/8"	G1/4"	G3/8"	G1/2"	R1/8"	R1/4"	R3/8"	R1/2"
Ø 4 mm	●	●	-	-	-	●	-	-	-
Ø 6 mm	-	●	●	-	-	●	●	-	-
Ø 8 mm	-	●	●	-	-	●	●	●	-
Ø 10 mm	-	-	●	●	-	-	●	●	-
Ø 12 mm	-	-	-	●	●	-	-	●	●
Ø 15 mm	-	-	-	-	●	-	-	-	●

Key
● available matching; - not available matching

Main features

Type	Description
O11	BSPT stud. In nickel-plated brass.

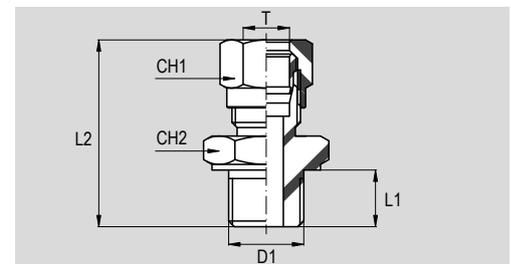


Dimensions

Code	Item	T (ØTube)	D1	L1	L2	CH1	CH2	Weight (g)
021701	O 11 04 18	4	R1/8"	8	27	10	10	-
021703	O 11 06 18	6	R1/8"	8	28	12	12	-
021704	O 11 06 14	6	R1/4"	11	33	12	14	-
021705	O 11 08 18	8	R1/8"	8	30	14	12	-
021706	O 11 08 14	8	R1/4"	11	33	14	14	-
021712	O 11 08 38	8	R3/8"	12	33	14	17	-
021707	O 11 10 14	10	R1/4"	11	37,5	19	17	-
021708	O 11 10 38	10	R3/8"	11,5	38	19	17	-
021709	O 11 12 38	12	R3/8"	11,5	39	22	19	-
021710	O 11 12 12	12	R1/2"	14	41	22	22	-
021711	O 11 15 12	15	R1/2"	14	44,5	27	22	-

Main features

Type	Description
O12	BSP stud. In nickel-plated brass. For sealing washers see from page 4.65.1

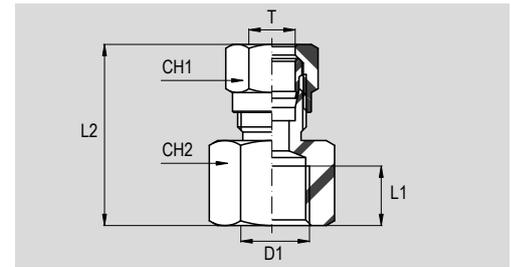


Dimensions

Code	Item	T (ØTube)	D1	L1	L2	CH1	CH2	Weight (g)
021742	O 12 04 M5	4	M5x0,8	5	26	10	9	-
021731	O 12 04 18	4	G1/8"	6	25	10	14	-
021733	O 12 06 18	6	G1/8"	6	26	12	14	-
021734	O 12 06 14	6	G1/4"	8	29,5	12	17	-
021735	O 12 08 18	8	G1/8"	6	26,5	14	14	-
021736	O 12 08 14	8	G1/4"	8	30	14	17	-
021737	O 12 10 14	10	G1/4"	8	34,5	19	17	-
021738	O 12 10 38	10	G3/8"	9	36	19	19	-
021739	O 12 12 38	12	G3/8"	10	39	22	22	-
021740	O 12 12 12	12	G1/2"	12	42	22	27	-
021741	O 12 15 12	15	G1/2"	12	43	27	27	-

Main features

Type	Description
O13	Female BSP stud. In nickel-plated brass.

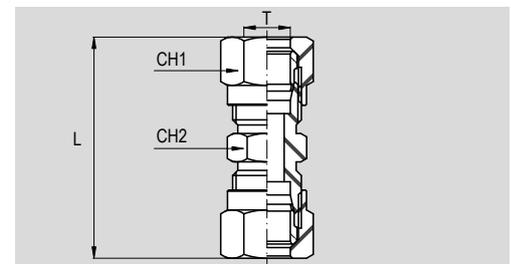


Dimensions

Code	Item	T (ØTube)	D1	L1	L2	CH1	CH2	Weight (g)
021761	O 13 04 18	4	G1/8"	10	29	10	14	-
021763	O 13 06 18	6	G1/8"	10	29	12	14	-
021764	O 13 06 14	6	G1/4"	12	31	12	19	-
021765	O 13 08 18	8	G1/8"	10	30	14	14	-
021766	O 13 08 14	8	G1/4"	12	32	14	19	-
021767	O 13 10 14	10	G1/4"	12	36	19	19	-
021768	O 13 10 38	10	G3/8"	12	38	19	22	-

Main features

Type	Description
O14	Union. In nickel-plated brass.



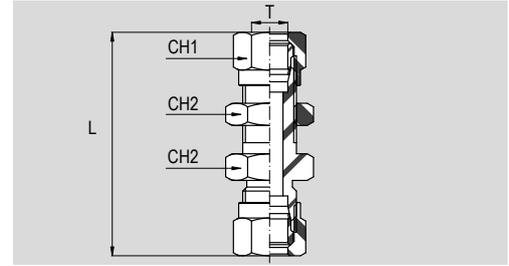
Dimensions

Code	Item	T (ØTube)	L	CH1	CH2	Weight (g)
021791	O 14 04 04	4	36	10	9	-
021793	O 14 06 06	6	36	12	11	-
021794	O 14 08 08	8	38	14	12	-
021795	O 14 10 10	10	48	19	17	-
021796	O 14 12 12	12	50	22	19	-
021797	O 14 15 15	15	53	27	24	-

4 - ACCESSORIES

Main features

Type	Description
O15	Bulkhead. In nickel-plated brass.

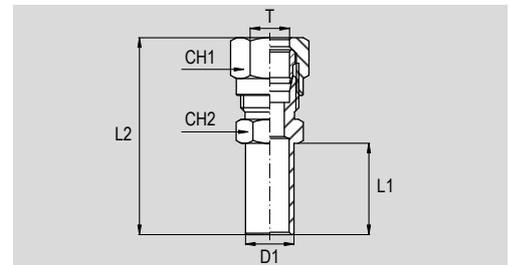


Dimensions

Code	Item	T (ØTube)	L	CH1	CH2	Weight (g)
021811	O 15 04 04	4	57	10	12	-
021813	O 15 06 06	6	60	12	14	-
021814	O 15 08 08	8	62	14	17	-
021815	O 15 10 10	10	72	19	19	-
021816	O 15 12 12	12	75	22	22	-
021817	O 15 15 15	15	79	27	27	-

Main features

Type	Description
O26	Reducer. In nickel-plated brass.

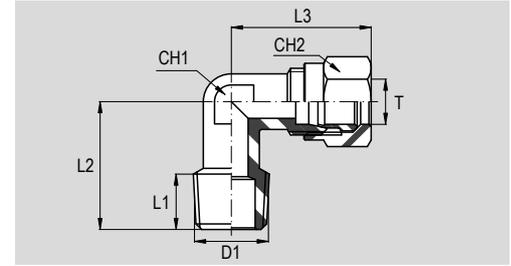


Dimensions

Code	Item	T (ØTube)	D1	L1	L2	CH1	CH2	Weight (g)
022061	O 26 06 08	6	8	18	38	12	12	-
022062	O 26 06 10	6	10	19	39	12	12	-
022063	O 26 08 10	8	10	19	41	14	12	-
022064	O 26 08 12	8	12	19	41	14	14	-

Main features

Type	Description
O16	BSPT elbow. In nickel-plated brass.

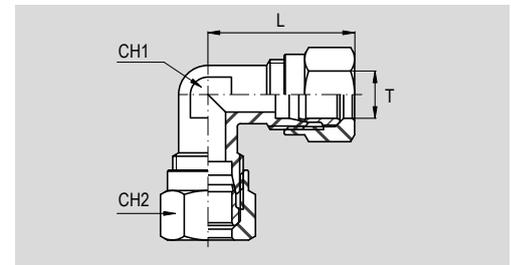


Dimensions

Code	Item	T (ØTube)	D1	L1	L2	L3	CH1	CH2	Weight (g)
021831	O 16 04 18	4	R1/8"	8	17	22	7	10	-
021833	O 16 06 18	6	R1/8"	8	17	23	9	12	-
021834	O 16 06 14	6	R1/4"	12	21	23	9	12	-
021835	O 16 08 18	8	R1/8"	8	20	25	12	14	-
021836	O 16 08 14	8	R1/4"	12	23	25	12	14	-
021837	O 16 10 14	10	R1/4"	12	25	33	14	19	-
021838	O 16 10 38	10	R3/8"	12	27	33	14	19	-
021839	O 16 12 38	12	R3/8"	12	28	35	17	22	-
021840	O 16 12 12	12	R1/2"	14	30	35	17	22	-
021841	O 16 15 12	15	R1/2"	14	31	39	19	27	-

Main features

Type	Description
O17	Equal elbow. In nickel-plated brass.



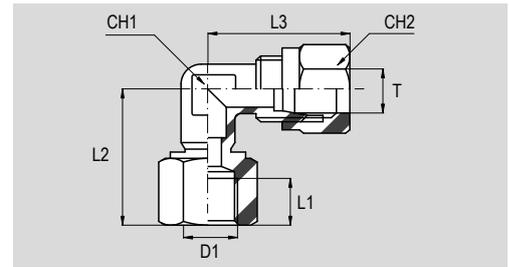
Dimensions

Code	Item	T (ØTube)	L	CH1	CH2	Weight (g)
021861	O 17 04 04	4	22	7	10	-
021863	O 17 06 06	6	23	9	12	-
021864	O 17 08 08	8	25	12	14	-
021865	O 17 10 10	10	33	14	19	-
021866	O 17 12 12	12	35	17	22	-
021867	O 17 15 15	15	39	19	27	-

4 - ACCESSORIES

Main features

Type	Description
O27	Female BSP elbow. In nickel-plated brass.

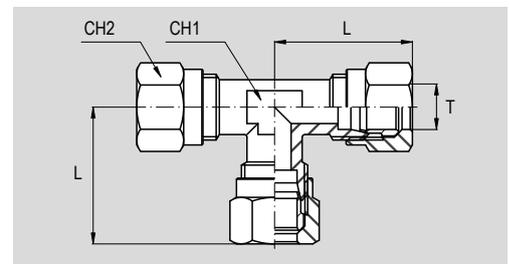


Dimensions

Code	Item	T (ØTube)	D1	L1	L2	L3	CH1	CH2	Weight (g)
022071	O 27 04 18	4	G1/8"	8	20	22	9	10	-
022072	O 27 06 18	6	G1/8"	8	20	24,5	9	12	-
022073	O 27 06 14	6	G1/4"	11	25,5	27	13	12	-
022074	O 27 08 18	8	G1/8"	8	20	24	11	14	-
022075	O 27 08 14	8	G1/4"	11	25,5	27,5	13	14	-

Main features

Type	Description
O18	Equal tee. In nickel-plated brass.

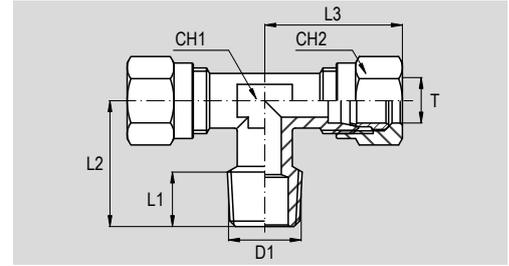


Dimensions

Code	Item	T (ØTube)	L	CH1	CH2	Weight (g)
021881	O 18 04 04	4	22	7	10	-
021883	O 18 06 06	6	23	9	12	-
021884	O 18 08 08	8	25	12	14	-
021885	O 18 10 10	10	33	14	19	-
021886	O 18 12 12	12	35	17	22	-
021887	O 18 15 15	15	39	19	27	-

Main features

Type	Description
O19	BSPT tee. In nickel-plated brass.

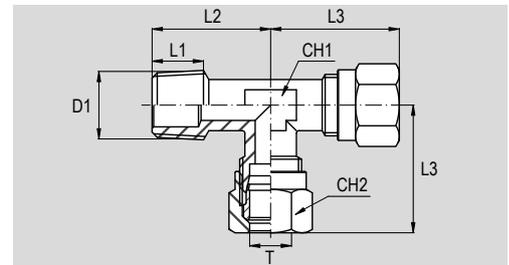


Dimensions

Code	Item	T (ØTube)	D1	L1	L2	L3	CH1	CH2	Weight (g)
021911	O 19 04 18	4	R1/8"	8	17	22	7	10	-
021913	O 19 06 18	6	R1/8"	8	17	23	9	12	-
021914	O 19 06 14	6	R1/4"	12	21	23	9	12	-
021915	O 19 08 18	8	R1/8"	8	20	25	12	14	-
021916	O 19 08 14	8	R1/4"	12	23	25	12	14	-
021917	O 19 10 14	10	R1/4"	12	25	33	14	19	-
021918	O 19 10 38	10	R3/8"	12	27	33	14	19	-
021919	O 19 12 38	12	R3/8"	12	28	35	17	22	-
021920	O 19 12 12	12	R1/2"	14	30	35	17	22	-
021921	O 19 15 12	15	R1/2"	14	31	39	19	27	-

Main features

Type	Description
O20	BSPT side tee. In nickel-plated brass.



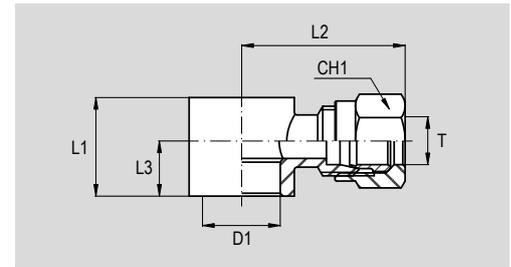
Dimensions

Code	Item	T (ØTube)	D1	L1	L2	L3	CH1	CH2	Weight (g)
021941	O 20 04 18	4	R1/8"	8	17	22	7	10	-
021943	O 20 06 18	6	R1/8"	8	17	23	9	12	-
021944	O 20 06 14	6	R1/4"	12	21	23	9	12	-
021945	O 20 08 18	8	R1/8"	8	20	25	12	14	-
021946	O 20 08 14	8	R1/4"	12	23	25	12	14	-
021947	O 20 10 14	10	R1/4"	12	25	33	14	19	-
021948	O 20 10 38	10	R3/8"	12	27	33	14	19	-
021949	O 20 12 38	12	R3/8"	12	28	35	17	22	-
021950	O 20 12 12	12	R1/2"	14	30	35	17	22	-
021951	O 20 15 12	15	R1/2"	14	31	39	19	27	-

4 - ACCESSORIES

Main features

Type	Description
O25	Single banjo. In nickel-plated brass. Compatible with bolt types R31, R32, R59 and R60. Compatible with flow regulators types V14 and V15. Compatible with accessories with integrated function types V45, V46 and V47.

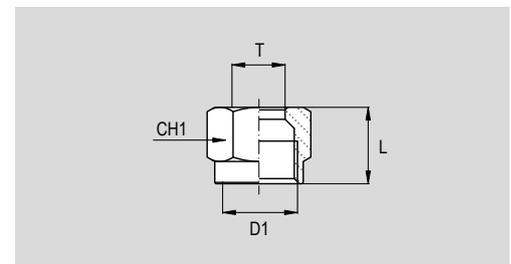


Dimensions

Code	Item	T (ØTube)	D1	L1	L2	L3	CH1	Weight (g)
022056	O 25 06 18	6	10	15	26	9	12	19
022057	O 25 06 14	6	13,2	17	28	9,5	12	26
022058	O 25 08 18	8	10	15	27	8,5	14	21
022059	O 25 08 14	8	13,2	17	29	9,5	14	28

Main features

Type	Description
O21	Nut. In nickel-plated brass.

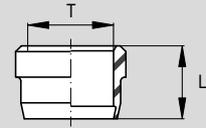


Dimensions

Code	Item	T (ØTube)	D1	L	CH1	Weight (g)
021971	O 21 04 08	4	8x1	11	10	-
021973	O 21 06 10	6	10x1	11,5	12	-
021974	O 21 08 12	8	12x1	12	14	-
021975	O 21 10 16	10	16x1,5	15,5	19	-
021976	O 21 12 18	12	18x1,5	15,5	22	-
021977	O 21 15 22	15	22x1,5	17	27	-

Main features

Type	Description
O22	Ogive. In brass.

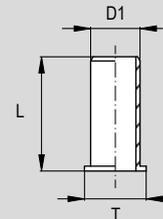


Dimensions

Code	Item	T (ØTube)	L	Weight (g)
021991	O 22 04 65	4	6,5	-
021993	O 22 06 75	6	7,5	-
021994	O 22 08 75	8	7,5	-
021995	O 22 10 95	10	9,5	-
021996	O 22 12 95	12	9,5	-
021997	O 22 15 10	15	10	-

Main features

Type	Description
O23	Tube insert. In brass. Required if using tubes in Nylon (PA6), Polyurethane or Rilsan (PA11). For tubes see from page 4.65.1



Dimensions

Code	Item	T (External Øtube)	D1	L	Weight (g)
022016	O 23 04 10	4	2,5	10	-
022011	O 23 06 12	6	4	12	-
022012	O 23 08 14	8	6	14	-
022013	O 23 10 16	10	8	16	-
022014	O 23 12 18	12	10	18	-
022015	O 23 15 20	15	12	20	-

STANDARD

fittings



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