

5300

Linea - Line

raccordi a compressione
compression fittings





SYSTEM

FIELDS OF APPLICATION

Mainly used in distribution systems for drinking water, sanitary installations and in both low and high temperature cooling and heating installations.

PIPE

MULTIPLE ADVANTAGES IN INSTALLATIONS WITH PEX PIPES

- Chemical and electrochemical corrosion resistance.
- Abrasion resistance. Low load loss due to good homogenous surface.
- Low noise given high acoustic insulation coefficient
- Light weight.
- Long service life of system compared with wall structure, in the presence of the normally used pressure and temperature values in civil engineering plants.
- Atoxic and therefore excellent for transporting drinking water.
- Tightness to oxygen, vacuum and other gas.
- Easy adaptation of the pipe to any kind of bend and maintenance of the given form (memory effect).
- Good resistance to crashing.

PIPE

REGULATIONS AND USE CONDITIONS

UNI 10954-1 "METAL- PLASTIC MULTILAYER PIPE FOR HOT AND COLD WATER".

The pipe meets requirements of the 4 application classes at a pressure of 10 Bars

Application class	Design T. °C	Time at TD years	Tmax °C	Time at Tmax years	T malfunct. °C	Time at T malfunct.	Typical field of application
1 ^a	60	49	80	1	95	100	Hot water supply 60°C
2 ^a	70	49	80	1	95	100	Hot water supply 70°C
4 ^a	20	2,5	70	2,5	100	100	Underfloor heating and low-temperature radiators
	plus cumulative 40	20					
	plus cumulative 60	25					
5 ^a	20	14	90	1	100	100	Underfloor heating and low-temperature radiators
	plus cumulative 60	25					
	plus cumulative 80	10					

All layers shall be of sufficient thickness to meet requirements of this part of ISO 21003

FITTINGS

PRODUCTION AND MATERIALS

All the fittings are machined on transfer machines (from hot-stamping) and multi-spindle (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 <0.3 Ni <0.3 Al <0.05 Zn Diff.
O-ring	UNI EN 681-1 Tipo WB	EPDM PEROX 70
Ring	(insulating)	PTFE (TEFLON)

NOTE CONCERNING USED MATERIALS

EPDM PEROX 70:

All the gaskets are made of homologated peroxid EPDM for drinking water UNI EN 681-1 type WB Perox grants perfect performances both at low and high temperatures in presence of acid, ozone and water. Perfect resistance to atmospheric agents and consumption. Working temperature: -200°C/+250°C.

BRASS ALLOY:

All the items made from hot-stamping comply with DIN 50930.6 which limits the lead content of the alloy to below 2.2%.

PTFE:

Perfect insulating material between aluminium and brass. Extremely resistant to consumption and chemical agents. Working temperature: -200°C/+250°.

FITTINGS

SYSTEM COUPLING THREADS AND REFERENCE NORMS

UNI EN ISO 1254-3	Fittings for plastic piping with compression terminals.
ISO 228	Cylindrical gas threading. All the fittings connections to the system comply with this norm.

SYSTEM

REFERENCE NORMS AND TESTS

UNI 10954-1	Metal- plastic multilayer pipe for hot and cold water
(UNI EN 712)	Extract test
(UNI EN 713)	Sealing test at internal pressure while subjected to bending
(UNI EN 715)	Hydraulic seal test
(UNI EN 921)	Resistance to internal pressure at constant T tests
(UNI EN 12293)	Test on termic cycles
(UNI EN 12294)	Vacuum test
(UNI EN 12295)	Test on pressure cycles
(ISO 6957)	Ammonia Test of the resistance to corrosion stress.

SYSTEM

ASSEMBLY INSTRUCTIONS

Photo N°.1



Photo N°.2



Photo N°.3



Photo N°.4



Photo n°1 – Cut the pipe perpendicular to its axis, using an appropriate tool.

Photo n°2 – Calibrate the pipe with the special reamer

Photo n°3 – Insert the pipe holder until the pipe is fully inserted up to the flange.

Photo n°4 – Tighten the nut until the torque reading is reached as shown in the table.

N.B. The number of tightening turns is calculated from the moment the nut begins to interact with the ring.

Ø Pipe	Coupling threading	Tightening turns (+1/4)
14	G 1/2"	1/2
16	G 1/2"	1/2
18	3/4"	3/4
20	3/4"	3/4
26	1"	1/2
32	M39x1.5	1/2



Art. 5300.00

Raccordo doppio nichelato - *Nickel plated double nipple*



Codice/Code	Misura/Size	Quant/Q.ty	Euro
530000N142000A	14 x 2,0	100	4,32
530000N162000A	16 x 2,0	100	3,95
530000N182000A	18 x 2,0	80	5,85
530000N202000A	20 x 2,0	60	5,85
530000N252500A	25 x 2,5	40	10,08
530000N263000A	26 x 3,0	40	10,08
530000N323000A	32 x 3,0	25	19,48

Art. 5300.02

Raccordo femmina nichelato - *Nickel plated female nipple*



Codice/Code	Misura/Size	Quant/Q.ty	Euro
530002N041420A	1/2 x 14 x 2,0	150	2,85
530002N041620A	1/2 x 16 x 2,0	150	2,57
530002N041820A	1/2 x 18 x 2,0	100	3,33
530002N042020A	1/2 x 20 x 2,0	80	3,33
530002N042630A	1/2 x 26 x 3,0	50	6,63
530002N051620A	3/4 x 16 x 2,0	100	3,47
530002N051820A	3/4 x 18 x 2,0	80	3,58
530002N052020A	3/4 x 20 x 2,0	80	3,59
530002N052525A	3/4 x 25 x 2,5	50	6,64
530002N052630A	3/4 x 26 x 3,0	50	6,64
530002N102525K	1" x 25 x 2,5	40	6,75
530002N102630A	1" x 26 x 3,0	40	6,75
530002N103230A	1" x 32 x 3,0	40	11,48

Art. 5300.01

Raccordo maschio nichelato - *Nickel plated male nipple*



Codice/Code	Misura/Size	Quant/Q.ty	Euro
530001N031620A	3/8 x 16 x 2,0	160	2,89
530001N041420A	1/2 x 14 x 2,0	160	2,89
530001N041620A	1/2 x 16 x 2,0	160	2,28
530001N041820A	1/2 x 18 x 2,0	100	3,00
530001N042020A	1/2 x 20 x 2,0	100	3,00
530001N042630A	1/2 x 26 x 3,0	50	5,89
530001N051620A	3/4 x 16 x 2,0	120	3,19
530001N051820A	3/4 x 18 x 2,0	100	3,33
530001N052020A	3/4 x 20 x 2,0	80	3,33
530001N052525A	3/4 x 25 x 2,5	50	5,90
530001N052630A	3/4 x 26 x 3,0	50	5,90
530001N102525A	1" x 25 x 2,5	50	6,02
530001N102630A	1" x 26 x 3,0	40	6,02
530001N103230A	1" x 32 x 3,0	40	11,48

Art. 5300.03

Raccordo ridotto nichelato - *Nickel plated reduced straight*



Codice/Code	Misura/Size	Quant/Q.ty	Euro
530003N665600A	20x2,0 x 16x2,0	60	5,27
530003N666200A	20x2,0 x 18x2,0	60	5,27
530003N775600A	26x3,0 x 16x2,0	40	10,25
530003N776600A	26x3,0 x 20x2,0	40	8,77
530003N806600A	32x3,0 x 20x2,0	30	15,44
530003N807700A	32x3,0 x 26x3,0	30	16,70

Art. 5300.10

Tee nichelato - Nickel plated equal tee



Codice/Code	Misura/Size	Quant/Q.ty	Euro
530010N142000A	14 x 14 x 14 x 2,0	60	7,08
530010N162000A	16 x 16 x 16 x 2,0	60	6,38
530010N182000A	18 x 18 x 18 x 2,0	30	9,30
530010N202000A	20 x 20 x 20 x 2,0	30	9,30
530010N252500A	25 x 25 x 25 x 2,5	20	14,90
530010N263000A	26 x 26 x 26 x 3,0	20	14,90
530010N323000A	32 x 32 x 32 x 3,0	10	27,57

Art. 5300.12

Tee femmina nichelato - Nickel plated female tee



Codice/Code	Misura/Size	Quant/Q.ty	Euro
530012N041420A	1/2 x 14 x 2,0	50	5,95
530012N041620A	1/2 x 16 x 2,0	50	5,21
530012N041820A	1/2 x 18 x 2,0	40	6,96
530012N042020A	1/2 x 20 x 2,0	30	6,95
530012N051620A	3/4 x 16 x 2,0	30	7,53
530012N051820A	3/4 x 18 x 2,0	30	7,78
530012N052020A	3/4 x 20 x 2,0	30	7,79
530012N052525A	3/4 x 25 x 2,5	20	13,37
530012N052630A	3/4 x 26 x 3,0	20	13,37
530012N053230A	3/4 x 32 x 3,0	10	23,54
530012N102630A	1" x 26 x 3,0	20	13,90
530012N103230A	1" x 32 x 3,0	10	23,53

Art. 5300.11

Tee maschio nichelato - Nickel plated male tee



Codice/Code	Misura/Size	Quant/Q.ty	Euro
530011N041420A	1/2 x 14 x 2,0	60	5,96
530011N041620A	1/2 x 16 x 2,0	60	5,20
530011N041820A	1/2 x 18 x 2,0	40	6,95
530011N042020A	1/2 x 20 x 2,0	30	6,95
530011N051620A	3/4 x 16 x 2,0	40	7,53
530011N051820A	3/4 x 18 x 2,0	40	7,78
530011N052020A	3/4 x 20 x 2,0	30	7,78
530011N052630A	3/4 x 26 x 3,0	20	13,38
530011N053230A	3/4 x 32 x 3,0	10	23,54
530011N102630A	1" x 26 x 3,0	15	13,90
530011N103230A	1" x 32 x 3,0	10	23,54

Art. 5300.13

Tee ridotto nichelato - Nickel plated reduced tee



Codice/Code	Misura/Size	Quant/Q.ty	Euro
530013N566656A	16x2x20x2x16x2	30	9,92
530013N666656A	20x2x16x2x16x2	30	9,31
530013N666666A	20x2x16x2x20x2	30	10,04
530013N666656A	20x2x20x2x16x2	30	10,04
530013N775677A	26x3x16x2x26x3	20	15,41
530013N776677A	26x3x20x2x26x3	20	15,41
530013N805680A	32x3x16x2x32x3	10	27,12
530013N806680A	32x3x20x2x32x3	10	27,79
530013N807780A	32x3x26x3x32x3	10	28,86

Art. 5300.22Angolo femmina nichelato - *Nickel plated female elbow*

Codice/Code	Misura/Size	Quant/Q.ty	Euro
530022N041420A	1/2 x 14 x 2,0	80	3,76
530022N041620A	1/2 x 16 x 2,0	80	3,54
530022N041820A	1/2 x 18 x 2,0	70	4,48
530022N042020A	1/2 x 20 x 2,0	60	4,48
530022N051620A	3/4 x 16 x 2,0	40	4,58
530022N052020A	3/4 x 20 x 2,0	40	4,75
530022N052525A	3/4 x 25 x 2,5	30	9,20
530022N052630A	3/4 x 26 x 3,0	30	9,20
530022N102525K	1" x 25 x 2,5	30	10,16
530022N102630A	1" x 26 x 3,0	30	10,16
530022N103230A	1" x 32 x 3,0	20	14,91

Art. 5300.36Raccordo croce nichelato - *Nickel plated cross fitting*

Codice/Code	Misura/Size	Quant/Q.ty	Euro
530036N142000A	14 x 2,0	60	11,46
530036N162000A	16 x 2,0	40	11,46
530036N182000A	18 x 2,0	20	18,86
530036N202000A	20 x 2,0	20	18,86

Art. 5300.23Attacco a muro nichelato - *Nickel plated wallplate elbow*

Codice/Code	Misura/Size	Quant/Q.ty	Euro
530023N041420A	1/2 x 14 x 2,0	50	4,75
530023N041620A	1/2 x 16 x 2,0	50	4,01
530023N041820A	1/2 x 18 x 2,0	50	4,98
530023N042020A	1/2 x 20 x 2,0	50	4,98
530023N052020A	3/4 x 20 x 2,0	40	6,51

Art. 5300.85Raccordo adattatore per tubo rame - *Adapter for copper pipe*

Codice/Code	Misura/Size	Quant/Q.ty	Euro
530085N161500A	16 x 2,0 x 15	100	2,35