RACCORDI IN BRONZO | bronze fittings

INTRODUZIONE

Il bronzo è una lega costituita principalmente da rame, ha un colore leggermente più bruno-rossastro rispetto all'ottone. Il bronzo è noto per la sua forza, durata e resistenza alla corrosione, che lo rendono un materiale eccellente per i raccordi che saranno esposti ad ambienti difficili.

Uno dei vantaggi più significativi dei raccordi in bronzo è la loro resistenza alla corrosione, il che lo rende un materiale ideale per i raccordi esposti ad ambienti con elevati livelli di umidità, sale o altri agenti corrosivi. Ciò lo rende una scelta popolare per le applicazioni marine e offshore.

G.T.COMIS è in grado di offrire alla propria Clientela una gamma completa di raccordi filettati in bronzo.

Le dimensioni disponibili coprono un intervallo molto vasto, da 1/2" a 2", garantendo accoppiamenti ottimali con praticamente tutti i tipi di tubi disponibili sul mercato dell'idrotermosanitaria, navale e quello industriale.

FILETTATURE

I raccordi G.T.COMIS immessi sul mercato con il nostro marchio RACCORDERIE EMILIANE, sono realizzati con accoppiamento secondo UNI EN 10226-1. Tutte le filettature sono sbavate.

• FILETTATURA UNI EN 10226-1 (ex ISO 7) per i raccordi

Nella filettatura conforme alla norma UNI EN 10226-1 (ex ISO 7) l'accoppiamento è a tenuta sul filetto. La filettatura è del tipo conico per l'esterno (maschio) e cilindrica per quella interna (femmina) ed è quindi perfettamente idonea alla realizzazione di impianti di distri-buzione di gas combustibili secondo quanto disposto dalle norme EN 1775 ed UNI 7129.

• FILETTATURA UNI EN ISO 228-1 per le valvole

Nella filettatura conforme alla norma ISO 228-1 l'accoppiamento non è a tenuta sul filetto ed entrambe le filettature sono cilindriche.

PRESSIONE MASSIMA DI ESERCIZIO

Nel prospetto che segue sono riportate le pressioni ammissibili per i raccordi filettati in funzione del loro diametro e della temperatura di esercizio.

INTRODUCTION

Bronze is an alloy made mainly of copper, it has a slightly more reddish-brown color than brass. Bronze is known for its strength, durability and corrosion resistance, making it an excellent material for fittings that will be exposed to harsh environments.

One of the most significant advantages of bronze fittings is their resistance to corrosion, making it an ideal material for fittings exposed to environments with high levels of humidity, salt or other corrosive agents. This makes it a popular choice for marine and offshore applications.

G.T.COMIS offers its customers a complete range of bronze threaded fittings.

The available dimensions cover a very wide range, from 1/2" to 2", ensuring optimal couplings with practically all types of pipes available on the plumbing, navy, and industrial markets.

THREADS

GTCOMIS fittings placed on the market under our RACCORDERIE EMILIANE brand are made with couplings according to UNI EN 10226-1. All threads are deburred.

• UNI EN 10226-1 THREAD (formerly ISO 7) for fittings

In threads compliant with UNI EN 10226-1 (ex ISO 7) the coupling is sealed on the thread. The thread is of the conical type for the external one (male) and cylindrical for the internal one (female) and is therefore perfectly suitable for the construction of combustible gas distribution systems in accordance with the provisions of the EN 1775 and UNI 7129 standards.

• UNI EN ISO 228-1 THREAD for valves

In threading compliant with ISO 228-1 the coupling is not sealed on the thread and both threads are cylindrical.

MAXIMUM WORKING PRESSURE

The table below shows the allowable pressures for threaded fittings based on their diameter and operating temperature.

DIMENSIONS	MAXIMUM PRESSURE - BAR	
	Up to 120° C	Up to 225° C
from ¼" to ¾"	25	16
from 1" to 2"	16	10
from 2 ½" to 4"	10	6

MATERIALE

La lega di bronzo utilizzata per i raccordi è la CC491K, conforme al DM 174 del 06/04/2004 e pertanto sono idonei all'utilizzo negli impianti fissi di captazione, trattamento, adduzione e distribuzione delle acque destinate al consumo umano. I componenti sono:

MATERIAL

The bronze alloy used for the fittings is CC491K, compliant with Ministerial Decree 174 of 06/04/2004 and therefore they are suitable for use in fixed systems for the collection, treatment, supply and distribution of water intended for human consumption. The components are:

I racccordi G.T. COMIS immessi sul mercato con il marchio RE - RACCORDERIE EMILIANE - in bronzo, utilizzano la lega CC491K la cui composizione chimica percentuale è:
All RE bronze fittings are made with CC491K material

		Cu	Sn	Zn	Pb	Ni	P	Fe	Si	Mn	Al
CC491K	Min.	83	4	4	4	-	-	-	-		-
	Max.	87	6	6	6	2	0,1	0,3	0,01	/	0,01



BRONZO | bronze

RACCORDI IN BRONZO | bronze fittings

	**Gomiti 90°** Elbows 90°	**74**
	**Bocchettoni curvi** Bent unions	**74**
	**Tee** Tees	**75**
	**Manicotti** Sockets	**75**
	**Nipples** Hex nipples	**75**
	**Tappi** Caps	**76**
	**Bocchettoni diritti** Straigth unions	**76-77**
	**Riduzioni** Reducers	**77**
	**Portagomma** Hose connectors	**78**
	**Giunti elastici** Expansion joints	**78**

ART. 450

- R E -

Gomito a 90° F.F. in bronzo

F.F. bronze elbow joint

Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004

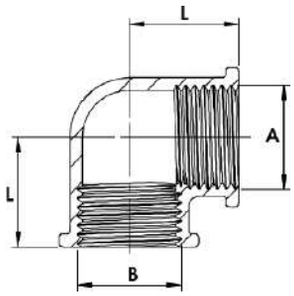




Fig. 90

Codice - *Code*	AxB Ø	L mm	Conf. - *Pack*		€ Cad. - *€ each*
1035758	1/2"	23	10	200	
1035759	3/4"	29	10	120	
1035760	1"	37	5	60	
1035761	1"1/4	42,8	5	35	
1035762	1"1/2	46	3	24	
1035763	2"	56,5	2	12	

ART. 452

- R E -

Gomito a 90° M.F. in bronzo

M.F. bronze elbow joint

Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004

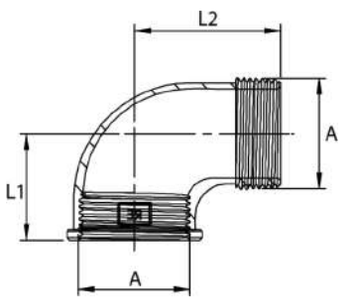




Fig. 92

Codice - *Code*	AxB Ø	L1 mm	L2 mm	Conf. - *Pack*		€ Cad. - *€ each*
1035958	1/2"	25	35	10	200	
1035959	3/4"	30,5	40	10	120	
1035960	1"	35,5	50,5	5	50	
1035961	1"1/4	42,5	60	5	35	
1035962	1"1/2	47,5	64,5	3	21	
1035963	2"	56	70	2	12	

ART. 454

Bocchettone a gomito M.F. sede conica in bronzo

Bronze M.F. conic seat bent pipe union

Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004

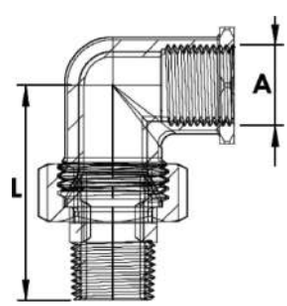




Fig. 98

Codice - *Code*	A Ø	L mm	Conf. - *Pack*		€ Cad. - *€ each*
1039458	1/2"	55	10	50	
1039459	3/4"	66	10	30	
1039460	1"	74	10	20	
1039461	1"1/4	83	1	8	
1039462	1"1/2	90	1	8	
1039463	2"	99	1	6	

ART. 456

- R E -

Raccordo a TEE in bronzo
Bronze TEE

Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004

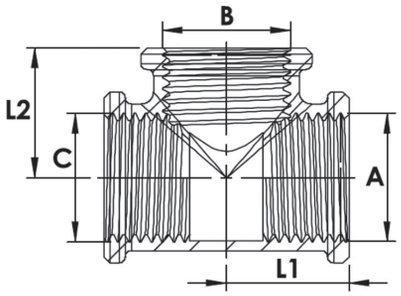




Fig. 130

Codice - *Code*	A x B x C Ø	L1 mm	L2 mm	Conf. - *Pack*		€ Cad. - *€ each*
1036658	1/2"	25,5	25,5	10	110	
1036659	3/4"	29,75	29,75	10	70	
1036660	1"	37,5	37,5	5	35	
1036661	1"1/4	43,75	43,75	3	24	
1036662	1"1/2	46,5	46,5	2	18	
1036663	2"	55,5	55,5	1	12	

ART. 458

Manicotto in bronzo
Bronze coupling

Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004

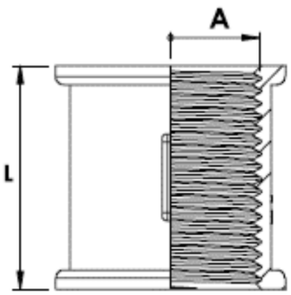




Fig. 270

Codice - *Code*	A Ø	L mm	Conf. - *Pack*		€ Cad. - *€ each*
1035657	3/8"	23	10	200	
1035658	1/2"	30	10	240	
1035659	3/4"	33	10	150	
1035660	1"	34	10	100	
1035661	1"1/4	44	1	60	
1035662	1"1/2	48	1	50	
1035663	2"	59	1	27	

ART. 460

- R E -

Nipples doppio in bronzo
Bronze nipples

Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004

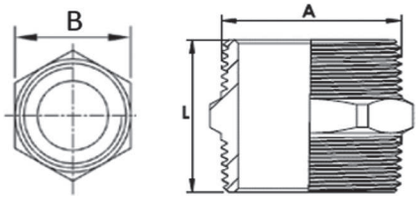




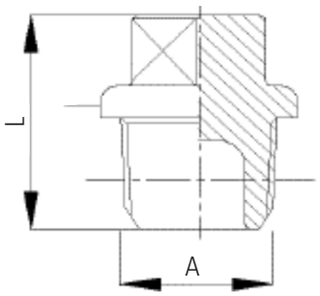
Fig. 280

Codice - *Code*	A Ø	B mm	L mm	Conf. - *Pack*		€ Cad. - *€ each*
1038058	1/2"	22	30	10	400	
1038059	3/4"	27,5	36	10	200	
1038060	1"	34	40	10	120	
1038061	1"1/4	42,5	47,5	5	70	
1038062	1"1/2	50,5	50	5	45	
1038063	2"	62	55	2	36	

ART. 462

Tappo vite maschio in bronzo
Bronze M cap

Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004



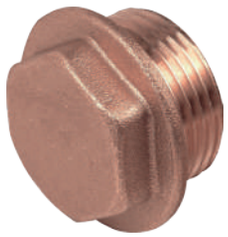


Fig. 290

Codice - *Code*	A Ø	L mm	Conf. - *Pack*		€ Cad. - *€ each*
1038157	3/8"	20	10	500	
1038158	1/2"	23	10	150	
1038159	3/4"	27	10	200	
1038160	1"	34	10	50	
1038161	1"1/4	40	1	40	
1038162	1"1/2	39	1	30	
1038163	2"	48	1	35	

ART. 464

Tappo vite femmina in bronzo
Bronze F cap

Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004

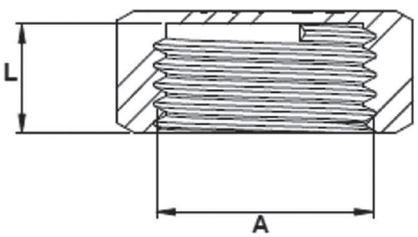




Fig. 300

Codice - *Code*	A Ø	L mm	Conf. - *Pack*		€ Cad. - *€ each*
1038258	1/2"	17	10	150	
1038259	3/4"	20	10	100	
1038260	1"	23	10	60	
1038261	1"1/4	27	1	40	
1038262	1"1/2	28	1	30	
1038263	2"	38	1	20	

ART. 466

Bocchettone diritto F.F. sede conica in bronzo
Bronze F.F. conic pipe union

Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004

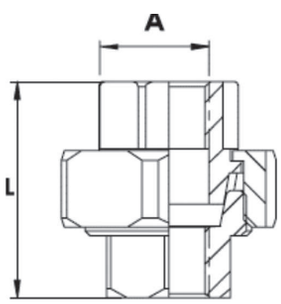




Fig. 340

Codice - *Code*	A Ø	L mm	Conf. - *Pack*		€ Cad. - *€ each*
1039158	1/2"	46	10	100	
1039159	3/4"	54	10	60	
1039160	1"	57	10	40	
1039161	1"1/4	63	1	30	
1039162	1"1/2	68	1	15	
1039163	2"	77	1	10	

ART. 468

- R E -

Bocchettone diritto M.F. sede conica in bronzo

Bronze M.F. conic pipe union

Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004

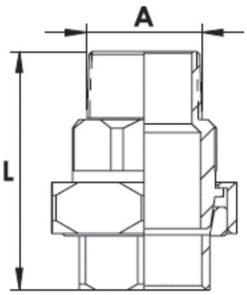




Fig. 341

Codice - *Code*	A Ø	L mm	Conf. - *Pack*		€ Cad. - *€ each*
1039258	1/2"	56	10	200	
1039259	3/4"	62	10	120	
1039260	1"	68	5	50	
1039261	1"1/4	75	4	32	
1039262	1"1/2	77	2	20	
1039263	2"	90	1	12	

ART. 470

- R E -

Riduzione M.F. in bronzo

Bronze reducer

Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004

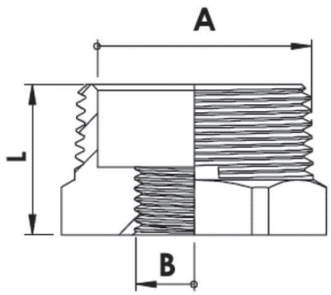




Fig. 241

Codice - *Code*	A x B Ø	L mm	Conf. - *Pack*		€ Cad. - *€ each*
1036755	1/2"x1/4"	19	10	600	
1036757	1/2"x3/8"	19	10	600	
1036758	3/4"x1/2"	24	10	350	
1036763	1"x1/2"	23	10	200	
1036759	1"x3/4"	23	10	200	
1036760	1"1/4x1"	27	5	120	
1036770	1"1/2x1"	29	10	90	
1036761	1"1/2x1"1/4	27	5	80	
1036764	2"x1"	32	5	50	
1036765	2"x1"1/4	32	5	50	
1036762	2"x1"1/2	33	1	50	

ART. 472

Nipples doppio ridotto in bronzo

Bronze reducing nipples

Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004

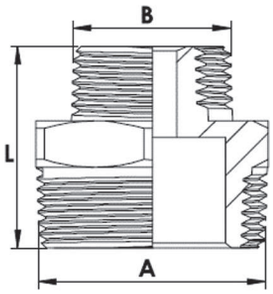




Fig. 245

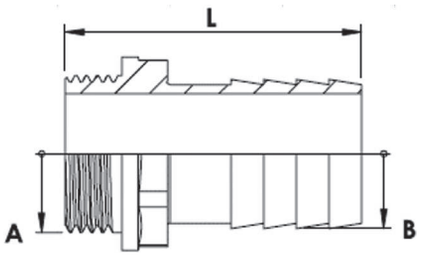
Codice - *Code*	A x B Ø	L mm	Conf. - *Pack*		€ Cad. - *€ each*
1036857	1/2"x3/8"	31	10	400	
1036858	3/4"x1/2"	36	10	280	
1036859	1"x3/4"	41	10	130	
1036860	1"1/4x1"	47	1	60	
1036870	1"1/2x1"	48	1	90	
1036865	2"x1"1/4	54	1	40	
1036862	2"x1"1/2	54	1	40	

ART. 474

- R E -

Raccordo portagomma tipo ROMA maschio in bronzo

ROMA male hose connector in bronze





Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004

Codice - *Code*	ØA x B mm	L mm	Conf. - *Pack*		€ Cad. - *€ each*
1039507	3/8"x15	46	10	300	
1039513	1/2"x14	48,5	10	400	
1039514	1/2"x16	48,5	10	280	
1039518	1/2"x20	48,5	10	250	
1039509	3/4"x20	49	10	180	
1039508	3/4"x25	55	10	140	
1039510	1"x25	56,5	10	100	
1039516	1"x30	56,5	10	90	
1039519	1"1/4x30	59	10	100	
1039522	1"1/4x35	65	8	64	
1039524	1"1/4x40	65	8	64	
1039520	1"1/2x40	68	6	48	
1039521	1"1/2x45	74	6	30	
1039525	1"1/2x50	74	6	64	
1039560	2"x50	75	4	24	
1039562	2"x60	75	4	24	
1039566	2"1/2x65	78	1	16	
1039568	3"x75	95	1	12	
1039572	4"x100	116	1	6	

ART. 476

- R E -

Giunto elastico filettato con bocchettoni in bronzo

Bronze unions

- Corpo in Nitrile.
- Temperatura di esercizio da -15°C a +90°C.
- Pressione massima di esercizio 10 bar.
- Pressione di scoppio: 40 bar
- Fluidi: acqua, acqua di mare, acidi deboli, aria compressa.

- *Nitrile body.*
- *Temperature: -15°C +90°C.*
- *Burst pressure: 40 bar.*
- *Applicable fluids: water, warm water, sea water, weak acids.*



Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)

Codice - *Code*	Ø	Conf. - *Pack*		€ Cad. - *€ each*
2324069	3/4"	1	1	
2324070	1"	1	1	
2324071	1"1/4	1	1	
2324072	1"1/2	1	1	
2324073	2"	1	1	

Diametro nominale Nominal Diameter		Lunghezza di install. Installed lenght mm.		Corsa mm. Travel mm.	Movimenti ammissibili Allowable movements from neutral				Pressioni a 80°C Pressions 80°C		
Ø pollici inch		Lungh. libera	Minima Massima	Tot. compressione estensione	Compr. assiale	Estens. assiale	Corsa laterale	Corsa angolare	Positiva PSIG	Positiva kg/cm2	Negativa mm HG
		Natural lenght	Minimum maximum	Total compressed extended	Axial Compr.	Axial Extension	Lateral deection	Angular deection	Positive PSIG	Positive kg/cm2	Negative mm HG
3/4"	20	203	186 - 206	181 - 209	22	6	22	32°	150	10	660
1"	25	203	186 - 206	181 - 209	22	6	22	25°	150	10	660
1" 1/4	32	203	186 - 206	181 - 209	22	6	22	25°	150	10	660
1" 1/2	40	203	186 - 206	181 - 209	22	6	22	20°	150	10	660
2"	50	203	186 - 206	181 - 209	22	6	22	15°	150	10	660
2" 1/2	65	240	224 - 244	218 - 246	22	6	22	12°	150	10	660
3"	80	240	224 - 244	218 - 246	22	6	22	10°	150	10	660

VALVOLE | valves



Valvole a sfera
F/F ball valves
NEW SIZES ▶ 80



Valvole clapet
Clapet valves
▶ 81



Saracinesche
Gate valves
▶ 81

ART. 480

- R E -

WRAS APPROVED PRODUCT



Valvola a sfera in bronzo con leva, passaggio totale

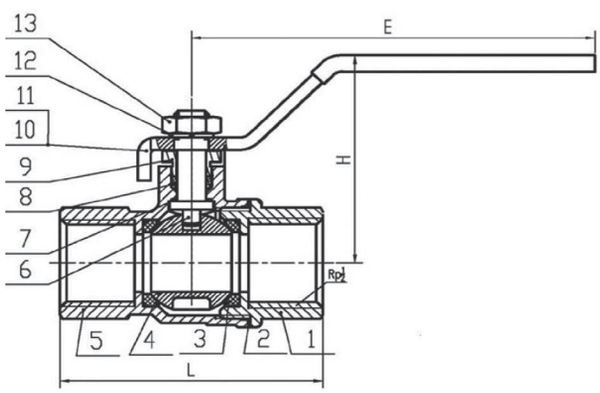
Bronze ball valve, full port

Material: Bronze CC491K
Thread: UNI EN ISO 228/1
Norm: DM 174 06/04/2004

Codice - *Code*	Ø	E mm	H mm	L mm	Pressure kg/cm²	Conf. - *Pack*		€ Cad. - *€ each*
1039708	1/2"	95	44	53	25 bar	50	200	
1039709	3/4"	110	51	61	25 bar	25	100	
1039710	1"	110	55	71	25 bar	18	72	
1039711	1"1/4	140	65	85	25 bar	8	32	
1039712	1"1/2	140	70	92	25 bar	6	24	
1039713	2"	160	83	114	25 bar	4	16	
NEW 1039714	2"1/2	220	118	134	25 bar	1	7	

Temperatura d'esercizio inferiore a: +170°C

Disponibili su richiesta anche leve e dadi in acciaio inox AISI 304



N° *POS*	DESCRIZIONE *DESCRIPTION*	MATERIALE *MATERIAL*	
1	SEAT RETAINER	BRONZE CC491K	
2	PACKING	P.T.F.E.	
3	SEAT	P.T.F.E.	
4	BALL	BRASS CW617N	
5	BODY	BRONZE CC491K	
6	STEM	DZR BRASS CW602N	
7	STEM	P.T.F.E.	
8	PACKING	P.T.F.E.	
9	GLAND NUT	BRASS CW617N	
10	HANDLE	STEEL	
11	LEVER	PVC	
12	WASHER	STEEL	
13	NUT	STEEL	

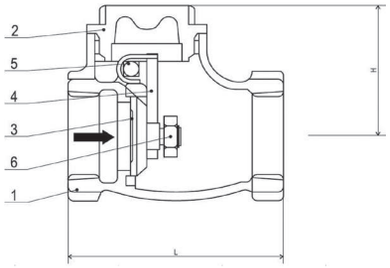
ART. 482

- R E -

Valvola di ritegno a clapet in bronzo, sede metallo

Bronze clapet valve

Material: Bronze CC491K
Thread: EN 10226-1 (ex ISO 7/1)
Norm: DM 174 06/04/2004





Codice - *Code*	Ø	H mm	L mm	Pressure kg/cm²	Conf. - *Pack*		€ Cad. - *€ each*
1039808	1/2"	58	38	25 bar	45	180	
1039809	3/4"	66	42	25 bar	30	120	
1039810	1"	80	49	25 bar	15	60	
1039811	1"1/4	89	56	25 bar	8	32	
1039812	1"1/2	95	65	25 bar	8	32	
1039813	2"	108	76	25 bar	5	20	

Temperatura d'esercizio inferiore a: +170°C

N° *POS*	DESCRIZIONE *DESCRIPTION*	MATERIALE *MATERIAL*	
1	BODY	BRONZE CC491K	
2	CAP	BRONZE CC491K	
3	DISC	BRONZE CC491K (1"1/4 - 2")	
3	DISC	BRASS CW617N (3/8" - 1")	
4	HINGE	BRONZE CC491K	
5	HINGE PIN	STAINLESS STEEL	
6	HINGE NUT	BRASS CW617N	

ART. 484

Saracinesca in bronzo

Bronze gate valve

Material: Bronze CC491K
Thread: ISO 228



Codice - *Code*	Ø	Conf. - *Pack*		€ Cad. - *€ each*
1039608	1/2"	20	20	
1039609	3/4"	20	20	
1039610	1"	10	10	
1039611	1"1/4	10	10	
1039612	1"1/2	5	5	
1039613	2"	5	5	
1039614	2"1/2	1	1	
1039615	3"	1	1	
1039617	4"	1	1	

Temperatura d'esercizio inferiore a: +80°C