

## Certificazioni / Certifications

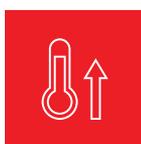
		PRODUKTE DER WASSERVERSORGUNG	DW-8511CL0331	Ø 15 – 54 mm
		AESPRES RANGE OF COMPRESSION FITTINGS	1806312	Ø 15 – 54 mm
		PRESSFITTINGS, TYPE AESPRES	n°1988	Ø 15 – 54 mm
		PRESS-FITTINGS AESPRES	K 83136/02	Ø 15 – 54 mm
		PRESSFITTINGS TIL KOBBERØR Ø 15-54 MM	VA 1.22/20514	Ø 15 – 54 mm
		AESPRES, PRESSKOPPLING Ø 15-54 MM	SC0265-16	Ø 15 – 54 mm
		Attestato di conformità al D.M. 174/2004	TIFQ-099-AP07/00	Ø 15 – 54 mm

## Campi di applicazione / Fields of application

# AES PRES®



**Acqua potabile**  
Potable water



**Riscaldamento**  
Heating



**Raffrescamento**  
Cooling



**Solare termico con O-Ring FKM**  
Solar thermal with FKM O-Ring



**Aria compressa**  
Compressed Air



**Antincendio**  
Fire protection systems

**AES PRES® O-ring EPDM**

**Nero | Black | Schwarz | Noir | Negro**



**TUBO RAME PER AESPRES - AESPRES GAS**  
**AESPRES - AESPRES GAS COPPER PIPING**

Le tubazioni per impianti acqua e gas in rame, devono essere rispondenti alla norma UNI EN 1057:2010.

Rame e leghe di rame - Tubi rotondi di rame senza saldatura per acqua e gas nelle applicazioni sanitarie e di riscaldamento.

Piping for copper water and gas installation should comply with the standard EN 1057:2010, "Copper and copper alloys - Round tubes in copper without welding for water and gas in health-care and heating applications".

**CARATTERISTICHE MECCANICHE DEI TUBI DI RAME - EN 1057**  
**MECHANICAL FEATURES FOR COPPER TUBES - EN 1057**

RIF. EN 1173	STATO - STATE	RESISTENZA MINIMA TRAZIONE MINIMUM TRACTION RESISTANCE RM (MPa)
R220	Ricotto - Annealed	220
R250	Semiduro - Semi-hard	250
R290	Duro - Hard	290

**DILATAZIONE DI ROTTURA "A"**  
**BREAKING "A" DILATION**

Rif. EN 1173	øe (mm)	A min. (%)
R220	12÷22	40
R250	12÷28	20
R290	12÷54	3

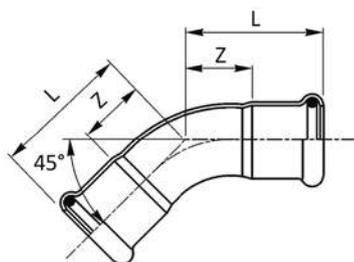
**STATO DI FORNITURA**  
**DELIVERY CONDITION**

R220	Ricotto - Annealed	Rotolo - Roll
R250	Semiduro - Semi-hard	Barra - Bar
R290	Duro - Hard	Barra - Bar

Le dimensioni dei tubi utilizzabili con i sistemi a pressare **Aespres** ed **Aespres Gas** sono espote nella tabella sottostante.  
 Tube sizes to be used with **Aespres** and **Aespres Gas** press fittings are included in the annexed table.

**DIMENSIONI DEI TUBI DI RAME - EN 1057 / DVGW GW 392**  
**AESPRES PIPES DIMENSIONS AND CHARACTERISTICS - EN 1057 / DVGW GW 392**

ø ESTERNO x SP. EXTERNAL ø x THK. mm	DN	ø INTERNO INTERNAL ø mm	MASSA MASS kg/m	CONTENUTO D'ACQUA WATER VOLUME l/m	STATO FORNITURA SUPPLIED CONDITION
12x1	10	10	0,309	0,079	Rotolo / Roll 25/50 m (R 220) o / or Barra / Bar 5 m (R 250)
15x1	12	13	0,393	0,133	
18x1	15	16	0,477	0,201	
22x1	20	20	0,589	0,314	Barra / Bar 5 m (R250)
28x1,5	25	25	1,115	0,491	
35x1,5	32	32	1,410	0,804	Barra / Bar 5 m (R290)
42x1,5	40	39	1,704	1,194	
54x2	50	50	2,918	1,963	

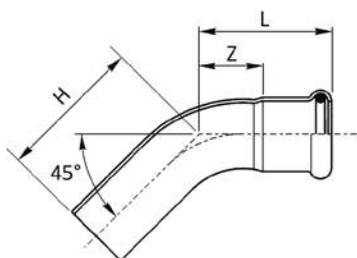
**B 70 71**

**681/450**
**CURVA 45° FF**

- 45° ELBOW FF
- BOGEN 45° II
- COUDE FF 45°
- CURVA 45° HH

**MATERIAL:** Cu-DHP99,9 - CW024A

**O-RING:** EPDM nero - black - Schwarz - noir - negro

CODE	De mm	L mm	Z mm				€
681012450	12	32	14	38	20	400	3,59
681015450	15	27,5	7,5	36	20	400	3,59
681018450	18	29,5	9,5	53	20	300	3,80
681022450	22	32	11	71	20	100	4,64
681028450	28	37	14	101	10	100	14,23
681035450	35	43,5	17,5	138	10	60	20,31
681042450	42	51	21	200	4	40	33,00
681054450	54	62	26,5	306	2	20	46,19

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**681/451**
**CURVA 45° MF**

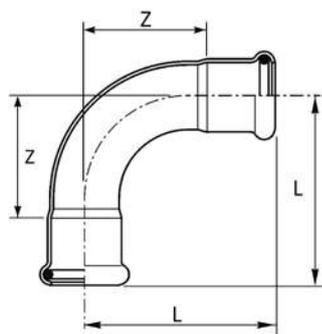
- 45° ELBOW MF
- BOGEN 45° IA
- COUDE MF 45°
- CURVA 45° HM

**MATERIAL:** Cu-DHP99,9 - CW024A

**O-RING:** EPDM nero - black - Schwarz - noir - negro

CODE	De mm	L mm	H mm	Z mm				€
681012451	12	32	41	14	36	20	400	2,91
681015451	15	27,5	40	7,5	41	20	400	2,91
681018451	18	29,5	36	9,5	50	20	300	3,89
681022451	22	32	42	11	69	20	200	4,29
681028451	28	37	46	14	99	10	100	14,15
681035451	35	43,5	57,5	17,5	144	10	60	19,61
681042451	42	51	72	21	215	4	40	30,71
681054451	54	62	82	26,5	333	2	20	45,55

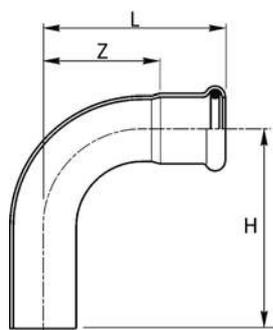
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**681/900****CURVA 90° FF**

- 90° ELBOW FF
- BOGEN 90° II
- COUDE FF 90°
- CURVA 90° HH

**MATERIAL:** Cu-DHP99,9 - CW024A**O-RING:** EPDM nero - black - Schwarz - noir - negro

CODE	De mm	L mm	Z mm				€
681012900	12	42	24	28	20	400	3,24
681015900	15	38	18	51	20	400	3,24
681018900	18	41,5	21,5	62	20	300	4,29
681022900	22	47	26	88	10	150	5,39
681028900	28	56	33	128	10	100	10,90
681035900	35	68	42	180	5	50	21,61
681042900	42	80	50	265	2	30	41,14
681054900	54	100	64,5	419	2	18	55,56

**681/901****CURVA 90° MF**

- 90° ELBOW MF
- BOGEN 90° IA
- COUDE MF 90°
- CURVA 90° HM

**MATERIAL:** Cu-DHP99,9 - CW024A**O-RING:** EPDM nero - black - Schwarz - noir - negro

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CODE	De mm	L mm	H mm	Z mm				€
681012901	12	42	48	24	40	20	400	3,05
681015901	15	38	48	18	49	20	400	3,05
681018901	18	41,5	48,5	21,5	62	20	300	4,16
681022901	22	47	57	26	87	10	150	5,53
681028901	28	56	64	33	130	10	100	11,94
681035901	35	68	82	42	195	5	50	21,25
681042901	42	80	101	50	278	2	30	42,04
681054901	54	100	120	64,5	435	2	18	56,25

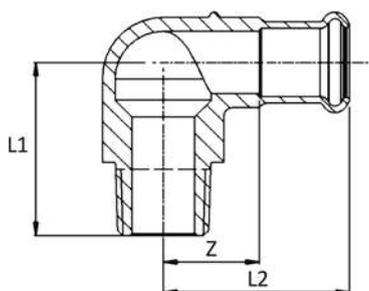
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**697**

**GOMITO MISTO 90° FILETTO M**

- ELBOW ADAPTER 90° WITH MALE THREAD
- ÜBERGANGSWINKEL 90° AG
- EQUERRE 90° AVEC FILETAGE M
- CODO MACHO

**MATERIAL:** CuSn5Zn5Pb2-C - CC499K  
**O-RING:** EPDM nero - black - Schwarz - noir - negro  
**THREAD:** EN 10226-1 (ex ISO 7/1)



CODE	De x R mm x inch	L1 mm	L2 mm	Z mm	g			€
697308012	12 x 3/8"	35	34	14	86	10	200	15,87
697102012	12 x 1/2"	40	34	14	113	10	150	15,95
697308015	15 x 3/8"	35	41,5	21,5	86	10	150	23,75
697102015	15 x 1/2"	38,5	41,5	21,5	131	10	120	15,95
697102018	18 x 1/2"	40	42	22	136	10	100	25,41
697304018	18 x 3/4"	44	42	22	177	10	100	24,79
697102022	22 x 1/2"	42	42	21	162	10	100	30,28
697304022	22 x 3/4"	47	42	21	193	10	80	25,75
697102028	28 x 1/2"	45	47	24	199	10	80	42,13
697100028	28 x 1"	53	45	24	318	5	50	38,66
697114035	35 x 1 1/4"	68	55	29	471	5	40	51,29
697112042	42 x 1 1/2"	75	65	35	660	2	24	70,06
697200054	54 x 2"	88	78	42	1078	2	20	99,11

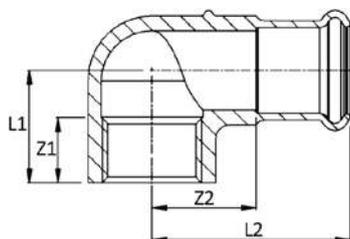
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**698**

**GOMITO MISTO 90° FILETTO F**

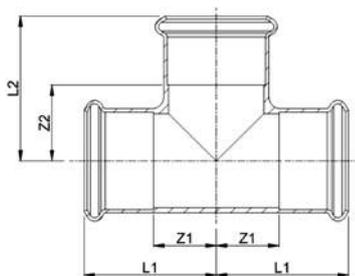
- ELBOW ADAPTER 90° WITH FEMALE THREAD
- ÜBERGANGSWINKEL 90° IG
- EQUERRE 90° AVEC FILETAGE F
- CODO HEMBRA

**MATERIAL:** CuSn5Zn5Pb2-C - CC499K  
**O-RING:** EPDM nero - black - Schwarz - noir - negro  
**THREAD:** EN 10226-1 (ex ISO 7/1)



CODE	De x Rp mm x inch	L1 mm	L2 mm	Z1 mm	Z2 mm	g		€	
698308012	12 x 3/8"	22,5	34	12	14	72	10	200	9,94
698102012	12 x 1/2"	24	34	16	14	87	10	200	9,94
698308015	15 x 3/8"	22,5	41,5	12	21,5	87	10	150	23,40
698102015	15 x 1/2"	22,5	41,5	16	21,5	102	10	150	9,94
698304015	15 x 3/4"	25	41,5	16	21,5	125	10	100	22,51
698102018	18 x 1/2"	24	42	16	22	112	10	150	21,96
698304018	18 x 3/4"	26	42	16	22	133	10	100	24,37
698102022	22 x 1/2"	26	42	15	21	129	10	100	26,17
698304022	22 x 3/4"	29	42	16	21	152	10	100	15,46
698100022	22 x 1"	32	45	19	24	203	10	80	24,57
698102028	28 x 1/2"	29	47	16	24	168	5	50	27,47
698100028	28 x 1"	35	48	19	25	240	5	50	28,17
698114035	35 x 1 1/4"	45	55	23	29	403	5	40	46,44
698112042	42 x 1 1/2"	52	65	23	35	541	2	30	59,84
698200054	54 x 2"	60	78	27	42	1085	2	16	95,05

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"T"

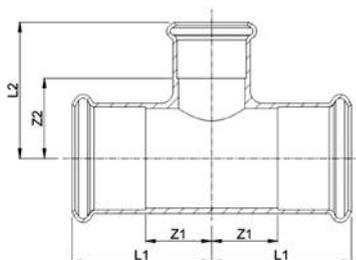
- EQUAL TEE
- T-STÜCK
- TÉ ÉGAL
- TE IGUAL HHH

MATERIAL: Cu-DHP99,9 - CW024A

O-RING: EPDM nero - black - Schwarz - noir - negro

CODE	De mm	L1 mm	L2 mm	Z2 mm	Z1 mm				€
682012000	12	31	31	11	11	54	20	200	4,97
682015000	15	32	32	12	13,5	75	20	200	4,97
682018000	18	34	34	14	13,5	96	20	100	6,77
682022000	22	37	37	16	16	125	10	100	8,63
682028000	28	42	42	19	19	174	10	50	14,98
682035000	35	50	50	24	24	245	4	32	25,33
682042000	42	57	63	33	27	345	4	20	49,08
682054000	54	69	78	42	33,5	559	2	12	60,73

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692

"T" RIDOTTO

- REDUCING TEE
- T-STÜCK MIT REDUZIERTEM ABGANG
- TÉ RÉDUIT
- TE REDUCIDA HHH

MATERIAL: Cu-DHP99,9 - CW024A

O-RING: EPDM nero - black - Schwarz - noir - negro

CODE	De mm	L1 mm	L2 mm	Z1 mm	Z2 mm				€
692015012	15 x 12 x 15	32	32	12	12	69	20	100	5,73
692018012	18 x 12 x 18	34	35	14	15	84	20	100	6,36
692018015	18 x 15 x 18	34	35	14	15	93	20	100	6,09
692022012	22 x 12 x 22	37	35	16	15	106	10	100	7,67
692022015	22 x 15 x 22	37	38	16	18	122	10	100	7,32
692022018	22 x 18 x 22	37	38	16	18	128	10	100	9,40
692028015	28 x 15 x 28	42	40,5	19	20,5	167	10	50	17,18
692028018	28 x 18 x 28	42	40,5	19	20,5	168	10	50	23,75
692028022	28 x 22 x 28	42	41	19	20	173	10	50	17,12
692035015	35 x 15 x 35	50	44	24	24	250	5	50	25,33
692035018	35 x 18 x 35	50	44	24	24	241	5	50	26,79
692035022	35 x 22 x 35	50	44	24	23	237	5	50	23,21
692035028	35 x 28 x 35	50	44	24	21	231	5	35	24,43
692042015	42 x 15 x 42	57	47,5	27	27,5	338	4	20	46,24
692042018	42 x 18 x 42	57	47,5	27	27,5	338	4	20	45,55
692042022	42 x 22 x 42	57	53	27	32	330	4	20	44,38
692042028	42 x 28 x 42	57	56	27	33	323	4	20	45,00
692042035	42 x 35 x 42	57	61	27	35	338	4	20	46,66
692054022	54 x 22 x 54	69	59	33,5	38	469	2	16	69,65
692054028	54 x 28 x 54	69	64	33,5	41	465	2	16	71,79
692054035	54 x 35 x 54	69	67	33,5	41	502	2	16	74,54
692054042	54 x 42 x 54	69	70	33,5	40	489	2	16	55,77

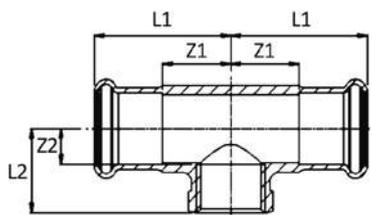
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**689**

**"T" CON DERIVAZIONE FILETTO F**

- BRANCH TEE FEMALE BSP OUTLET
- T-STÜCK MIT ABGANG IG
- TÉ MIXTE AVEC FILETAGE F
- TE HEMBRA ROSCADA

**MATERIAL:** CuSn5Zn5Pb2-C - CC 499K  
**O-RING:** EPDM nero - black - Schwarz - noir - negro  
**THREAD:** EN 10226-1 (ex ISO 7/1)



CODE	De x Rp x De mm x inch x mm	L1 mm	L2 mm	Z1 mm	Z2 mm				€
689102012	12 x 1/2" x 12	34	24	14	10	104	10	100	15,68
689308015	15 x 3/8" x 15	41,5	22,5	21,5	10,5	118	10	100	26,79
689102015	15 x 1/2" x 15	41,5	22,5	21,5	8,5	128	10	100	15,26
689102018	18 x 1/2" x 18	42	24	22	10	145	10	100	26,52
689102022	22 x 1/2" x 22	42	26	21	12	170	10	100	21,41
689304022	22 x 3/4" x 22	42	30	21	14	183	10	100	30,71
689102028	28 x 1/2" x 28	44	29	21	15	211	5	50	26,79
689304028	28 x 3/4" x 28	44	30	21	14	216	5	50	34,79
689100028	28 x 1" x 28	44	34	21	16	265	5	50	35,90
689102035	35 x 1/2" x 35	50	34	24	19	308	5	50	36,72
689304035	35 x 3/4" x 35	50	34	24	18	305	5	40	37,26
689100035	35 x 1" x 35	50	35	24	17	329	5	40	38,92
689102042	42 x 1/2" x 42	57	38	27	23	419	4	32	44,51
689304042	42 x 3/4" x 42	57	38	27	22	415	4	32	48,31
689102054	54 x 1/2" x 54	69	44	33	30	638	2	14	53,01
689304054	54 x 3/4" x 54	69	44	33	28	639	2	14	57,97

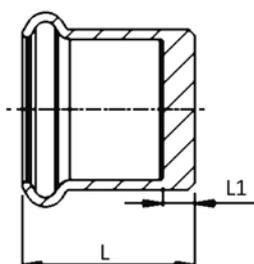
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**683/003**

**TAPPO DI CHIUSURA**

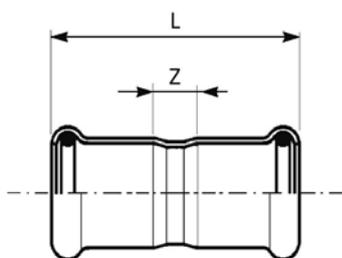
- STOP END
- VERSCHLUSSKAPPE
- BOUCHON D'OBTURATION
- TAPÓN

**MATERIAL:** Cu-DHP99,9 - CW024A  
**O-RING:** EPDM nero - black - Schwarz - noir - negro



CODE	De mm	L mm	L1 mm				€
683012003	12	20	3	14	20	500	3,80
683015003	15	22,5	2,5	20	20	500	6,44
683018003	18	23	3	25	20	300	8,49
683022003	22	24,5	2,5	34	10	200	11,19
683028003	28	26,5	3,5	49	10	150	17,25
683035003	35	28,5	2,5	65	5	100	18,78
683042003	42	32,5	2,5	93	4	80	29,07
683054003	54	37,5	2,5	147	4	40	35,47

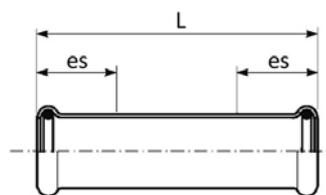
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**683/000****MANICOTTO**

- COUPLING
- MUFFE
- MANCHON
- MANGUITO HH

**MATERIAL:** Cu-DHP99,9 - CW024A**O-RING:** EPDM nero - black - Schwarz - noir - negro

CODE	De mm	L mm	Z mm				€
683012000	12	42	6	38	20	400	3,12
683015000	15	49	9	39	20	400	3,12
683018000	18	50	10	47	20	300	3,94
683022000	22	53	11	62	20	200	4,64
683028000	28	56	10	84	10	150	8,49
683035000	35	63	10	108	10	100	10,57
683042000	42	72	12	156	4	60	19,89
683054000	54	83	13	225	2	24	24,99

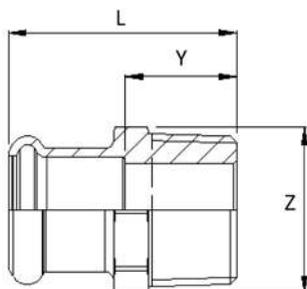
**683/001****MANICOTTO PASSANTE**

- SLIP COUPLING
- SCHIEBEMUFFE
- MANCHON LONG
- MANGUITO SIN TOPE

**MATERIAL:** Cu-DHP99,9 - CW024A**O-RING:** EPDM nero - black - Schwarz - noir - negro

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CODE	De mm	L mm	es mm				€
683012001	12	56	22	33	20	500	3,39
683015001	15	80	25	58	20	200	3,39
683018001	18	80	25	66	20	200	4,01
683022001	22	80	25	80	20	100	4,78
683028001	28	90	30	110	10	100	8,78
683035001	35	102	30	167	10	50	11,46
683042001	42	120	40	223	4	40	20,85
683054001	54	140	40	333	4	20	26,92


**687**
**MANICOTTO MISTO FILETTO M**

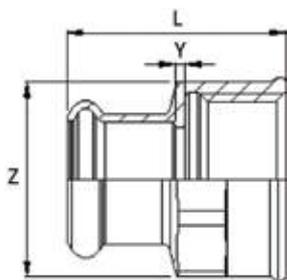
- MALE ADAPTER
- ÜBERGANGSSTÜCK MIT AG
- RACCORD AVEC FILETAGE MALE
- UNIÓN MACHO

**MATERIAL:** CuSn5Zn5Pb2-C - CC499K

**O-RING:** EPDM nero - black - Schwarz - noir - negro

**THREAD:** EN 10226-1 (ex ISO 7/1)

CODE	De x R mm x inch	L mm	Z mm	Y mm	 g			€
687308012	12 x 3/8"	32	17	12	31	20	400	4,35
687102012	12 x 1/2"	36	22	16	48	20	400	6,34
687308015	15 x 3/8"	32	21	12	32	20	400	4,84
687102015	15 x 1/2"	36	22	16	53	20	300	4,84
687304015	15 x 3/4"	37,5	27	17,5	74	20	240	8,00
687102018	18 x 1/2"	37	22	17	47	20	300	5,36
687304018	18 x 3/4"	38	27	18	65	10	200	7,96
687102022	22 x 1/2"	36	27	17	58	10	200	7,02
687304022	22 x 3/4"	39	27	18	64	10	200	6,60
687100022	22 x 1"	42,5	34	21,5	111	10	100	10,82
687304028	28 x 3/4"	42	34	19	93	10	100	17,40
687100028	28 x 1"	44,5	34	21,5	105	10	100	10,62
687114028	28 x 1 1/4"	48	43	25	192	10	100	21,90
687100035	35 x 1"	48	40	22	139	5	50	24,22
687114035	35 x 1 1/4"	50	43	24	182	5	50	23,23
687112035	35 x 1 1/2"	51	50	25	239	5	50	25,08
687114042	42 x 1 1/4"	54	50	24	223	4	40	31,56
687112042	42 x 1 1/2"	54	51	24	215	4	40	32,52
687112054	54 x 1 1/2"	60	63	24	316	4	32	54,83
687200054	54 x 2"	63,5	63	33	341	4	32	62,74

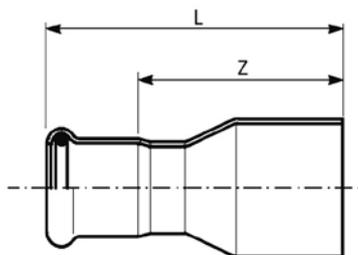
**690****MANICOTTO MISTO FILETTO F**

- FEMALE ADAPTER
- ÜBERGANGSSTÜCK MIT IG
- RACCORD AVEC FILETAGE FEMELLE
- UNIÓN HEMBRA

**MATERIAL:** CuSn5Zn5Pb2-C - CC499K**O-RING:** EPDM nero - black - Schwarz - noir - negro**THREAD:** EN 10226-1 (ex ISO 7/1)

CODE	De x Rp mm x inch	L mm	Z mm	Y mm				€
690308012	12 x 3/8"	33,5	21	2	38	20	400	5,92
690102012	12 x 1/2"	36	26	2	58	20	300	7,59
690308015	15 x 3/8"	33,5	21	2	38	20	300	5,62
690102015	15 x 1/2"	36	26	2	58	20	300	7,38
690304015	15 x 3/4"	39	31	2	76	10	200	9,10
690102018	18 x 1/2"	37	26	2	61	20	300	7,59
690304018	18 x 3/4"	39	31	2	77	10	200	10,49
690102022	22 x 1/2"	36	27	1,5	64	20	200	7,23
690304022	22 x 3/4"	39	31	2,5	76	10	150	8,32
690100022	22 x 1"	42,5	38	2	112	10	100	13,78
690102028	28 x 1/2"	39	34	1	98	20	100	18,46
690304028	28 x 3/4"	41,5	34	2	98	10	100	20,39
690100028	28 x 1"	45	38	2,5	122	10	100	13,37
690114028	28 x 1"1/4	48	46	3	162	10	100	21,15
690100035	35 x 1"	45	40	2	132	5	100	25,79
690114035	35 x 1"1/4	50	46	2	164	5	100	25,47
690114042	42 x 1"1/4	54	50	2	198	4	40	36,02
690112042	42 x 1"1/2	54	53	2	217	4	40	36,95
690200054	54 x 2"	65	65	3	342	4	32	64,38

**B 70 71**



**691**

**RIDUZIONE MF**

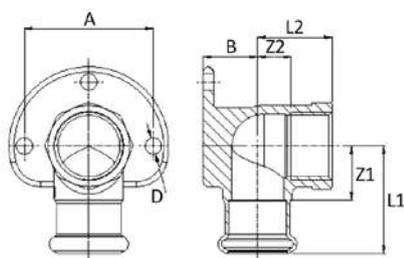
- REDUCER
- REDUZIERSTÜCK
- REDUCTION
- REDUCCIÓN MH

**MATERIAL:** Cu-DHP99,9 - CW024A

**O-RING:** EPDM nero - black - Schwarz - noir - negro

CODE	De mm	L mm	Z mm				€
691015012	15 x 12	51	31	20	20	500	2,76
691018012	18 x 12	53	33	36	20	500	2,91
691018015	18 x 15	57	37	42	20	500	2,76
691022015	22 x 15	64	44	53	20	400	3,32
691022018	22 x 18	59,5	39,5	52	20	300	3,45
691028015	28 x 15	54	34	48	20	200	8,16
691028018	28 x 18	53	33	54	20	200	8,36
691028022	28 x 22	65	44	72	20	200	8,56
691035022	35 x 22	59	38	68	10	100	10,15
691035028	35 x 28	71	48	98	10	100	11,06
691042022	42 x 22	66	45	97	4	80	17,41
691042028	42 x 28	65	42	99	4	80	16,93
691042035	42 x 35	80,5	54,5	137	4	40	16,16
691054022	54 x 22	74	53	154	4	40	41,41
691054028	54 x 28	70	47	148	4	40	34,86
691054035	54 x 35	76	50	159	4	40	22,64
691054042	54 x 42	97,5	67,5	204	4	32	21,68

**B 70 71**



**685**

**GOMITO MISTO 90° FF**

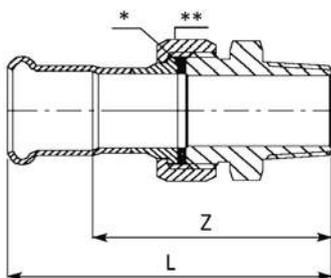
- WALL PLATE ELBOW 90° WITH FEMALE THREAD
- DECKENWINKEL 90° IG
- EQUERRE 90° FF
- CODO PLACA HH

**MATERIAL:** CuSn5Zn5Pb2-C - CC499K

**O-RING:** EPDM nero - black - Schwarz - noir - negro

**THREAD:** EN 10226-1 [ex ISO 7/1]

CODE	De x Rp mm x inch	L1 mm	L2 mm	Z1 mm	Z2 mm	A mm	B mm	D mm				€
685102012	12 x 1/2"	34	24	14	9	40	12	6,5	155	10	100	13,74
685102015	15 x 1/2"	41,5	22,5	21,5	7	40	14	6,5	172	10	100	13,58
685102018	18 x 1/2"	42	24	22	9	40	15	6,5	188	10	100	17,67
685304022	22 x 3/4"	42	29	21	13	50	21	6,5	249	10	50	28,85
685100022	22 x 1"	45	32	24	13	50	30	6,5	315	10	50	29,98
685100028	28 x 1"	48	35	25	16	50	30	6,5	366	5	50	40,04

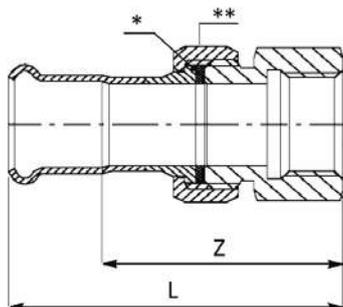
**684/002****BOCCHETTONE SEDE PIANA FILETTO M**

- STRAIGHT MALE UNION CONNECTOR
- DURCHGANGSVERSCHRÄUBUNG MIT AUSSENGEWINDE
- RACCORD UNION FILETÉ
- RÁCOR 3 PIEZAS ROSCADO MACHO

**MATERIAL:** CuSn5Zn5Pb2-C - CC499K**FITTING:** [\*\*]: ottone - brass - Messing - laiton - latón**O-RING:** EPDM nero - black - Schwarz - noir - negro**GASKET:** [\*]: EPDM nero - black - Schwarz - noir - negro**THREAD:** EN 10226-1 [ex ISO 7/1]

CODE	De x R mm x inch	L mm	Z mm	Gasket mm				€
684015002	15 x 1/2"	66	46	24x14 thk 2,5	164	2	100	32,78
684015012	15 x 3/4"	67	47	24x14 thk 2,5	195	2	80	33,81
684018002	18 x 1/2"	65,5	45,5	24x14 thk 2,5	160	2	80	38,41
684018012	18 x 3/4"	66,5	46,5	24x14 thk 2,5	191	2	80	39,46
684022002	22 x 3/4"	67	46	30x20 thk 2,5	252	2	60	51,30
684022012	22 x 1"	68,5	47,5	30x20 thk 2,5	242	2	60	51,79
684028002	28 x 1"	80	56	39x27 thk 2,5	432	2	40	78,72
684035002	35 x 1 1/4"	89	62	44,5x30 thk 2,5	684	2	20	98,51
684042002	42 x 1 1/2"	92,5	62,5	50,5x38 thk 2,5	716	2	20	118,80
684054002	54 x 2"	106	70	65,5x45 thk 3	1344	2	12	191,05

**B7071**



**684/003**

**BOCCHETTONE SEDE PIANA FILETTO F**

- STRAIGHT FEMALE UNION CONNECTOR
- DURCHGANGSVERSCHRÄUBUNG MIT INNENGEWINDE
- RACCORD UNION TARAUDÉ
- RÁCOR 3 PIEZAS HEMBRA

**MATERIAL:** CuSn5Zn5Pb2-C - CC499K  
**FITTING:** [\*\*]: ottone - brass - Messing - laitón - latón  
**O-RING:** EPDM nero - black - Schwarz - noir - negro  
**GASKET:** [\*]: EPDM nero - black - Schwarz - noir - negro  
**THREAD:** EN 10226-1 (ex ISO 7/1)

CODE	De x Rp mm x inch	L mm	Z mm	Gasket mm				€
684012003	12 x 3/8"	59,5	39,5	18x10 thk 2,5	156	2	100	34,60
684012013	12 x 1/2"	59,5	39,5	18x10 thk 2,5	142	2	100	38,94
684015003	15 x 1/2"	60,5	40,5	24x14 thk 2,5	170	2	100	31,27
684015013	15 x 3/4"	62,5	42,5	24x14 thk 2,5	191	2	100	37,73
684018003	18 x 1/2"	62	42	24x14 thk 2,5	168	2	100	37,49
684018013	18 x 3/4"	62	42	24x14 thk 2,5	185	2	100	43,35
684022003	22 x 1/2"	62,5	41,5	30x20 thk 2,5	299	2	60	50,38
684022013	22 x 3/4"	63,5	42,5	30x20 thk 2,5	250	2	60	50,05
684022023	22 x 1"	67,5	46,5	30x20 thk 2,5	273	2	60	53,97
684028003	28 x 1"	73	49	39x27 thk 2,5	481	2	40	73,95
684035003	35 x 1"1/4	81	54	44,5x30 thk 2,5	638	2	24	88,00
684042003	42 x 1"1/2	84,5	54,5	50,5x38 thk 2,5	682	2	24	109,86
684054003	54 x 2"	104	68	65,5x45 thk 3	1355	2	12	187,38

## Certificazioni / Certifications

		PRODUKTE DER GASVERSORGUNG	DG-8531CL0376	Ø 15 – 54 mm
		RACCORDI A PRESSARE PER GAS - PLUMBING FITTINGS FOR GASES	CA06.00293	Ø 15 – 54 mm
		AESPRES GAS - WITH O-RING NBR	C-16-3742-A	Ø 15 – 54 mm
		COPPER AND BRONZE PRESS CONNECTORS	13/16	Ø 15 – 54 mm

## Campi di applicazione / Fields of application

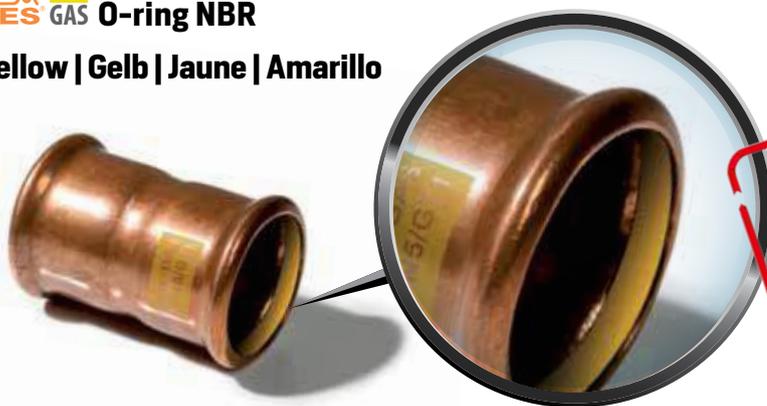
AES PRES® GAS



Gas metano / GPL  
Natural gas / LPG

AES PRES® GAS O-ring NBR

Giallo | Yellow | Gelb | Jaune | Amarillo



**TUBO RAME PER AESPRES - AESPRES GAS  
 AESPRES - AESPRES GAS COPPER PIPING**

Le tubazioni per impianti acqua e gas in rame, devono essere rispondenti alla norma UNI EN 1057:2010.

Rame e leghe di rame - Tubi rotondi di rame senza saldatura per acqua e gas nelle applicazioni sanitarie e di riscaldamento.

Piping for copper water and gas installation should comply with the standard EN 1057:2010, "Copper and copper alloys - Round tubes in copper without welding for water and gas in health-care and heating applications".

**CARATTERISTICHE MECCANICHE DEI TUBI DI RAME - EN 1057  
 MECHANICAL FEATURES FOR COPPER TUBES - EN 1057**

RIF. EN 1173	STATO - STATE	RESISTENZA MINIMA TRAZIONE MINIMUM TRACTION RESISTANCE RM (MPa)
R220	Ricotto - Annealed	220
R250	Semiduro - Semi-hard	250
R290	Duro - Hard	290

**DILATAZIONE DI ROTTURA "A"  
 BREAKING "A" DILATION**

Rif. EN 1173	øe (mm)	A min. (%)
R220	12÷22	40
R250	12÷28	20
R290	12÷54	3

**STATO DI FORNITURA  
 DELIVERY CONDITION**

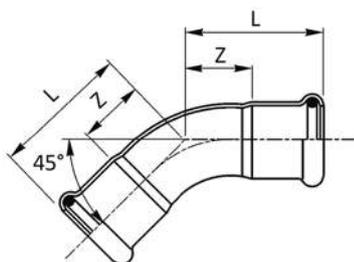
R220	Ricotto - Annealed	Rotolo - Roll
R250	Semiduro - Semi-hard	Barra - Bar
R290	Duro - Hard	Barra - Bar

Le dimensioni dei tubi utilizzabili con i sistemi a pressare **Aespres** ed **Aespres Gas** sono espote nella tabella sottostante.  
 Tube sizes to be used with **Aespres** and **Aespres Gas** press fittings are included in the annex table.

**DIMENSIONI DEI TUBI DI RAME - EN 1057 / DVGW GW 392  
 AESPRES PIPES DIMENSIONS AND CHARACTERISTICS - EN 1057 / DVGW GW 392**

ø ESTERNO x SP. EXTERNAL ø x THK. mm	DN	ø INTERNO INTERNAL ø mm	MASSA MASS kg/m	CONTENUTO D'ACQUA WATER VOLUME l/m	STATO FORNITURA SUPPLIED CONDITION
12x1	10	10	0,309	0,079	Rotolo / Roll
15x1	12	13	0,393	0,133	25/50 m (R 220)
18x1	15	16	0,477	0,201	o / or
22x1	20	20	0,589	0,314	Barra / Bar 5 m (R 250)
28x1,5	25	25	1,115	0,491	Barra / Bar 5 m (R250)
35x1,5	32	32	1,410	0,804	
42x1,5	40	39	1,704	1,194	Barra / Bar 5 m (R290)
54x2	50	50	2,918	1,963	

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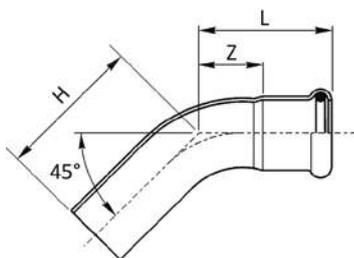
**681/450 G****CURVA 45° FF**

- 45° ELBOW FF
- BOGEN 45° II
- COUDE FF 45°
- CURVA 45° HH

**MATERIAL:** Cu-DHP99,9 - CW024A**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo

CODE	De mm	L mm	Z mm	 g		€
681015450G	15	27,5	7,5	36	4	4,16
681018450G	18	29,5	9,5	53	4	4,42
681022450G	22	32	11	71	4	5,39
681028450G	28	37	14	101	4	16,37
681035450G	35	43,5	17,5	138	1	23,40
681042450G	42	51	21	200	1	37,96
681054450G	54	62	26,5	306	1	53,14

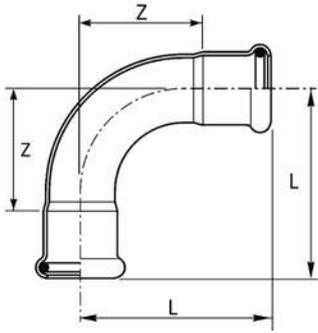
B7072

**681/451 G****CURVA 45° MF**

- 45° ELBOW MF
- BOGEN 45° IA
- COUDE MF 45°
- CURVA 45° HM

**MATERIAL:** Cu-DHP99,9 - CW024A**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo

CODE	De mm	L mm	H mm	Z mm	 g		€
681015451G	15	27,5	40	7,5	41	4	3,39
681018451G	18	29,5	36	9,5	50	4	4,48
681022451G	22	32	42	11	69	4	4,97
681028451G	28	37	46	14	99	4	16,29
681035451G	35	43,5	57,5	17,5	144	1	22,59
681042451G	42	51	72	21	215	1	35,34
681054451G	54	62	82	26,5	333	1	52,40

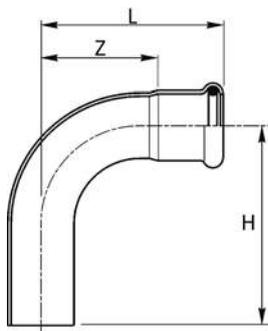
**B 70 72**

**681/900 G**
**CURVA 90° FF**

- 90° ELBOW FF
- BOGEN 90° II
- COUDE FF 90°
- CURVA 90° HH

**MATERIAL:** Cu-DHP99,9 - CW024A

**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo

CODE	De mm	L mm	Z mm	g	kg	€
681015900G	15	38	18	51	4	3,80
681018900G	18	41,5	21,5	62	4	4,97
681022900G	22	47	26	88	4	6,22
681028900G	28	56	33	128	4	12,57
681035900G	35	68	42	180	1	24,85
681042900G	42	80	50	265	1	47,36
681054900G	54	100	64,5	419	1	63,91


**681/901 G**
**CURVA 90° MF**

- 90° ELBOW MF
- BOGEN 90° IA
- COUDE MF 90°
- CURVA 90° HM

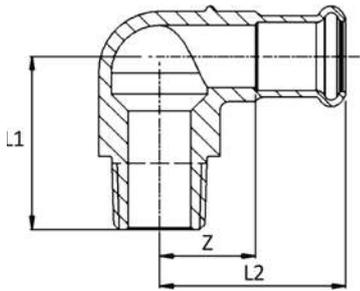
**MATERIAL:** Cu-DHP99,9 - CW024A

**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo

**B 70 72**

CODE	De mm	L mm	H mm	Z mm	g	kg	€
681015901G	15	38	48	18	49	4	3,54
681018901G	18	41,5	48,5	21,5	62	4	4,78
681022901G	22	47	57	26	87	4	6,36
681028901G	28	56	64	33	130	4	13,74
681035901G	35	68	82	42	195	1	24,51
681042901G	42	80	101	50	278	1	48,39
681054901G	54	100	120	64,5	435	1	64,74

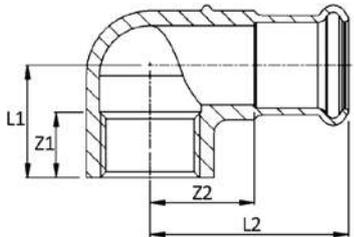
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**697 G****GOMITO MISTO 90° FILETTO M**

- ELBOW ADAPTER 90° WITH MALE THREAD
- ÜBERGANGSWINKEL 90° AG
- EQUERRE 90° AVEC FILETAGE M
- CODO MACHO

**MATERIAL:** CuSn5Zn5Pb2-C - CC499K**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo**THREAD:** EN 10226-1 (ex ISO 7/1)

CODE	De x R mm x inch	L1 mm	L2 mm	Z mm	g	€
697308015G	15 x 3/8"	35	41,5	21,5	86	27,34
697102015G	15 x 1/2"	38,5	41,5	21,5	131	18,36
697102018G	18 x 1/2"	40	42	22	136	29,25
697304018G	18 x 3/4"	44	42	22	177	28,50
697102022G	22 x 1/2"	42	42	21	162	34,86
697304022G	22 x 3/4"	47	42	21	193	29,61
697102028G	28 x 1/2"	45	47	24	199	48,46
697100028G	28 x 1"	53	45	24	318	44,46
697114035G	35 x 1"1/4	68	55	29	471	59,00
697112042G	42 x 1"1/2	75	65	35	660	80,62
697200054G	54 x 2"	88	78	42	1078	114,01

**698 G**

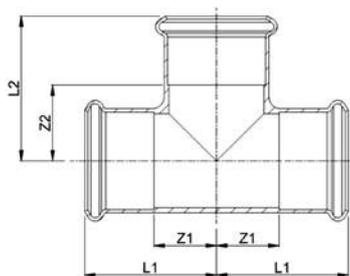
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**GOMITO MISTO 90° FILETTO F**

- ELBOW ADAPTER 90° WITH FEMALE THREAD
- ÜBERGANGSWINKEL 90° IG
- EQUERRE 90° AVEC FILETAGE F
- CODO HEMBRA

**MATERIAL:** CuSn5Zn5Pb2-C - CC499K**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo**THREAD:** EN 10226-1 (ex ISO 7/1)

CODE	De x Rp mm x inch	L1 mm	L2 mm	Z1 mm	Z2 mm	g	€
698308015G	15 x 3/8"	22,5	41,5	12	21,5	87	26,92
698102015G	15 x 1/2"	22,5	41,5	16	21,5	102	11,46
698304015G	15 x 3/4"	25	41,5	16	21,5	125	25,88
698102018G	18 x 1/2"	24	42	16	22	112	25,26
698304018G	18 x 3/4"	26	42	16	22	133	28,02
698102022G	22 x 1/2"	26	42	15	21	129	30,10
698304022G	22 x 3/4"	29	42	16	21	152	17,81
698100022G	22 x 1"	32	45	19	24	203	28,31
698102028G	28 x 1/2"	29	47	16	24	168	31,61
698100028G	28 x 1"	35	48	19	25	240	32,43
698114035G	35 x 1"1/4	45	55	23	29	403	53,40
698112042G	42 x 1"1/2	52	65	23	35	541	68,87
698200054G	54 x 2"	60	78	27	42	1085	109,34

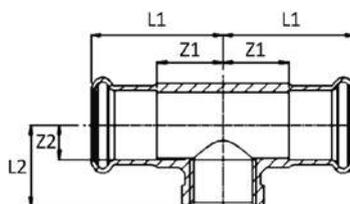
**B 70 72**

**682 G**
**"T"**

- EQUAL TEE
- T-STÜCK
- TÉ ÉGAL
- TE IGUAL HHH

**MATERIAL:** Cu-DHP99,9 - CW024A

**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo

CODE	De mm	L1 mm	L2 mm	Z1 mm	Z2 mm	g	kg	€
682015000G	15	32	32	13,5	12	75	4	5,73
682018000G	18	34	34	13,5	14	96	4	7,80
682022000G	22	37	37	16	16	125	4	9,94
682028000G	28	42	42	19	19	174	4	17,25
682035000G	35	50	50	24	24	245	1	29,20
682042000G	42	57	63	27	33	345	1	56,46
682054000G	54	69	78	33,5	42	559	1	69,85

**B 70 72**

**689 G**
**"T" CON DERIVAZIONE FILETTO F**

- BRANCH TEE FEMALE BSP OUTLET
- T-STÜCK MIT ABGANG IG
- TÉ MIXTE AVEC FILETAGE F
- TE HEMBRA ROSCADA

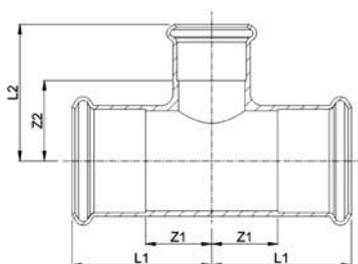
**MATERIAL:** CuSn5Zn5Pb2-C - CC499K

**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo

**THREAD:** EN 10226-1 (ex ISO 7/1)

CODE	De x Rp x De mm x inch x mm	L1 mm	L2 mm	Z1 mm	Z2 mm	g	kg	€
689308015G	15 x 3/8" x 15	41,5	22,5	21,5	10,5	118	4	30,86
689102015G	15 x 1/2" x 15	41,5	22,5	21,5	8,5	128	4	17,60
689102018G	18 x 1/2" x 18	42	24	22	10	145	4	30,51
689102022G	22 x 1/2" x 22	42	26	21	12	170	4	24,63
689304022G	22 x 3/4" x 22	42	30	21	14	183	4	35,34
689102028G	28 x 1/2" x 28	44	29	21	15	211	4	30,86
689304028G	28 x 3/4" x 28	44	30	21	14	216	4	40,04
689100028G	28 x 1" x 28	44	34	21	16	265	4	41,28
689102035G	35 x 1/2" x 35	50	34	24	19	308	1	42,25
689304035G	35 x 3/4" x 35	50	34	24	18	305	1	42,85
689100035G	35 x 1" x 35	50	35	24	17	329	1	44,80
689102042G	42 x 1/2" x 42	57	38	27	23	419	1	51,21
689304042G	42 x 3/4" x 42	57	38	27	22	415	1	55,56
689102054G	54 x 1/2" x 54	69	44	33	30	638	1	61,02
689304054G	54 x 3/4" x 54	69	44	33	28	639	1	66,66

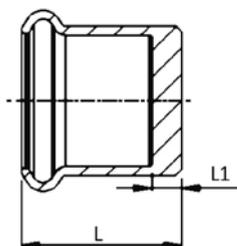
B7072

**692 G****“T” RIDOTTO**

- REDUCING TEE
- T-STÜCK MIT REDUZIERTEM ABGANG
- TÉ RÉDUIT
- TE REDUCIDA HHH

**MATERIAL:** Cu-DHP99,9 - CW024A**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo

CODE	De mm	L1 mm	L2 mm	Z1 mm	Z2 mm	g	kg	€
692018015G	18 x 15 x 18	34	35	14	15	93	4	7,06
692022015G	22 x 15 x 22	37	38	16	18	122	4	8,42
692022018G	22 x 18 x 22	37	38	16	18	128	4	10,84
692028015G	28 x 15 x 28	42	40,5	19	20,5	167	4	19,81
692028018G	28 x 18 x 28	42	40,5	19	20,5	168	4	27,34
692028022G	28 x 22 x 28	42	41	19	20	173	4	19,74
692035015G	35 x 15 x 35	50	44	24	24	250	1	29,20
692035018G	35 x 18 x 35	50	44	24	24	241	1	30,86
692035022G	35 x 22 x 35	50	44	24	23	237	1	26,70
692035028G	35 x 28 x 35	50	44	24	21	231	1	28,17
692042015G	42 x 15 x 42	57	47,5	27	27,5	338	1	53,21
692042018G	42 x 18 x 42	57	47,5	27	27,5	338	1	52,40
692042022G	42 x 22 x 42	57	53	27	32	330	1	51,07
692042028G	42 x 28 x 42	57	56	27	33	323	1	51,75
692042035G	42 x 35 x 42	57	61	27	35	338	1	53,71
692054022G	54 x 22 x 54	69	59	33,5	38	469	1	80,14
692054028G	54 x 28 x 54	69	64	33,5	41	465	1	82,55
692054035G	54 x 35 x 54	69	67	33,5	41	502	1	85,73
692054042G	54 x 42 x 54	69	70	33,5	40	489	1	64,19

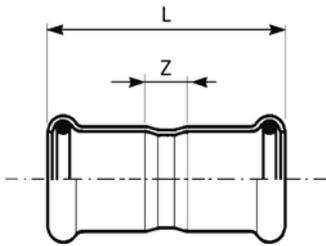
**683/003 G****TAPPO DI CHIUSURA**

- STOP END
- VERSCHLUSSKAPPE
- BOUCHON D'OBTURATION
- TAPÓN

**MATERIAL:** Cu-DHP99,9 - CW024A**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo

B7072

CODE	De mm	L mm	L1 mm	g	kg	€
683015003G	15	22,5	2,5	20	4	7,38
683018003G	18	23	3	25	4	9,82
683022003G	22	24,5	2,5	34	4	12,93
683028003G	28	26,5	3,5	49	4	19,89
683035003G	35	28,5	2,5	65	1	21,61
683042003G	42	32,5	2,5	93	1	33,50
683054003G	54	37,5	2,5	147	1	40,88

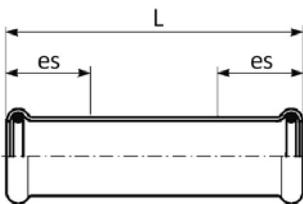
**B 70 72**

**683/000 G**
**MANICOTTO**

- COUPLING
- MUFFE
- MANCHON
- MANGUITO HH

**MATERIAL:** Cu-DHP99,9 - CW024A

**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo

CODE	De mm	L mm	Z mm			€
683015000G	15	49	9	39	4	3,59
683018000G	18	50	10	47	4	4,55
683022000G	22	53	11	62	4	5,39
683028000G	28	56	10	84	4	9,82
683035000G	35	63	10	108	1	12,16
683042000G	42	72	12	156	1	22,91
683054000G	54	83	13	225	1	28,79

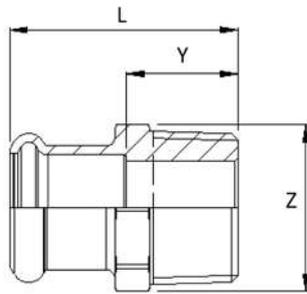
**B 70 72**

**683/001 G**
**MANICOTTO PASSANTE**

- SLIP COUPLING
- SCHIEBEMUFFE
- MANCHON LONG
- MANGUITO SIN TOPE

**MATERIAL:** Cu-DHP99,9 - CW024A

**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo

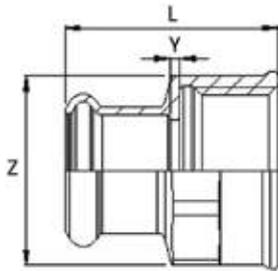
CODE	De mm	L mm	es mm			€
683015001G	15	80	25	58	4	3,94
683018001G	18	80	25	66	4	4,64
683022001G	22	80	25	80	4	5,53
683028001G	28	90	30	110	4	10,15
683035001G	35	102	30	167	1	13,18
683042001G	42	120	40	223	1	24,01
683054001G	54	140	40	333	1	30,99

**687 G****MANICOTTO MISTO FILETTO M**

- MALE ADAPTER
- ÜBERGANGSSTÜCK MIT AG
- RACCORD AVEC FILETAGE MALE
- UNIÓN MACHO

**MATERIAL:** CuSn5Zn5Pb2-C - CC499K**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo**THREAD:** EN 10226-1 (ex ISO 7/1)

CODE	De x R mm x inch	L mm	Z mm	Y mm	 g		€
687308015G	15 x 3/8"	32	21	12	32	4	5,59
687102015G	15 x 1/2"	36	22	16	53	4	5,55
687304015G	15 x 3/4"	37,5	27	17,5	74	4	9,21
687102018G	18 x 1/2"	37	22	17	47	4	6,15
687304018G	18 x 3/4"	38	27	17	65	4	9,15
687102022G	22 x 1/2"	36	27	18	58	4	8,07
687304022G	22 x 3/4"	39	27	18	64	4	7,59
687100022G	22 x 1"	42,5	34	21,5	111	4	12,43
687304028G	28 x 3/4"	42	34	19	93	4	20,01
687100028G	28 x 1"	44,5	34	21,5	105	4	12,24
687114028G	28 x 1"1/4	48	43	25	192	4	25,24
687100035G	35 x 1"	48	40	22	139	1	27,86
687114035G	35 x 1"1/4	50	43	24	182	1	26,72
687112035G	35 x 1"1/2	51	50	25	239	1	28,88
687114042G	42 x 1"1/4	54	50	24	223	1	36,34
687112042G	42 x 1"1/2	54	50	24	215	1	37,40
687112054G	54 x 1"1/2	60	63	24	316	1	63,13
687200054G	54 x 2"	63,5	63	27,5	341	1	72,16

**B 70 72**


## 690 G

### MANICOTTO MISTO FILETTO F

- FEMALE ADAPTER
- ÜBERGANGSSTÜCK MIT IG
- RACCORD AVEC FILETAGE FEMELLE
- UNIÓN HEMBRA

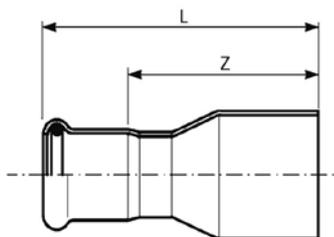
**MATERIAL:** CuSn5Zn5Pb2-C - CC499K

**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo

**THREAD:** EN 10226-1 (ex ISO 7/1)

CODE	De x Rp mm x inch	L mm	Z mm	Y mm	 g		€
690308015G	15 x 3/8"	33,5	21	2	38	4	6,46
690102015G	15 x 1/2"	36	26	2	58	4	8,49
690304015G	15 x 3/4"	39	31	2	76	4	10,47
690102018G	18 x 1/2"	37	26	2	61	4	8,74
690304018G	18 x 3/4"	39	31	2	77	4	12,13
690102022G	22 x 1/2"	36	27	1,5	64	4	8,31
690304022G	22 x 3/4"	39	31	2,5	76	4	9,57
690100022G	22 x 1"	42,5	38	2	112	4	15,83
690102028G	28 x 1/2"	39	34	1	98	4	21,27
690304028G	28 x 3/4"	41,5	34	2	98	4	23,46
690100028G	28 x 1"	45	38	2,5	122	4	15,36
690114028G	28 x 1"1/4	48	46	3	162	4	24,35
690100035G	35 x 1"	45	40	2	132	1	29,68
690114035G	35 x 1"1/4	50	46	2	164	1	29,32
690114042G	42 x 1"1/4	54	50	2	198	1	41,49
690112042G	42 x 1"1/2	54	53	2	217	1	42,54
690200054G	54 x 2"	65	65	3	342	1	74,04

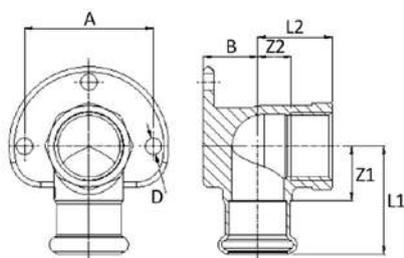
B 7072

**691 G****RIDUZIONE MF**

- REDUCER
- REDUZIERSTÜCK
- REDUCTION
- REDUCCIÓN MH

**MATERIAL:** Cu-DHP99,9 - CW024A**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo

CODE	De mm	L mm	Z mm	 g		€
691018015G	18 x 15	57	37	42	4	3,18
691022015G	22 x 15	64	44	53	4	3,89
691022018G	22 x 18	59,5	39,5	52	4	4,01
691028015G	28 x 15	54	34	48	4	9,40
691028018G	28 x 18	53	33	54	4	9,67
691028022G	28 x 22	65	44	72	4	9,89
691035022G	35 x 22	59	38	68	1	11,74
691035028G	35 x 28	71	48	98	1	12,71
691042022G	42 x 22	66	45	97	1	20,02
691042028G	42 x 28	65	42	99	1	19,47
691042035G	42 x 35	80,5	54,5	137	1	18,64
691054022G	54 x 22	74	53	154	1	47,62
691054028G	54 x 28	70	47	148	1	40,10
691054035G	54 x 35	76	50	159	1	26,09
691054042G	54 x 42	97,5	67,5	204	1	24,99

**685 G****GOMITO MISTO 90° FF**

- WALL PLATE ELBOW 90° WITH FEMALE THREAD
- DECKENWINKEL 90° IG
- EQUERRE 90° FF
- CODO PLACA

**MATERIAL:** CuSn5Zn5Pb2-C - CC499K**O-RING:** NBR giallo - yellow - Gelb - jaune - amarillo**THREAD:** EN 10226-1 (ex ISO 7/1)

B 7072

CODE	De x Rp mm x inch	L1 mm	L2 mm	Z1 mm	Z2 mm	A mm	B mm	D mm	 g		€
685102015G	15 x 1/2"	41,5	22,5	21,5	7	40	14	6,5	172	4	15,59
685102018G	18 x 1/2"	42	24	22	9	40	15	6,5	188	4	20,36
685304022G	22 x 3/4"	42	29	21	13	50	21	6,5	247	4	33,19