

EXTENSIONS

TECHNICAL SPECIFICATIONS

The Comisa heavy extensions are compatible with:

- UNI EN ISO 228-1:2003 cylindrical male threaded ends
- UNI EN 10226-2:2006 conical male threaded ends
- UNI EN ISO 228-1:2003 female threaded ends

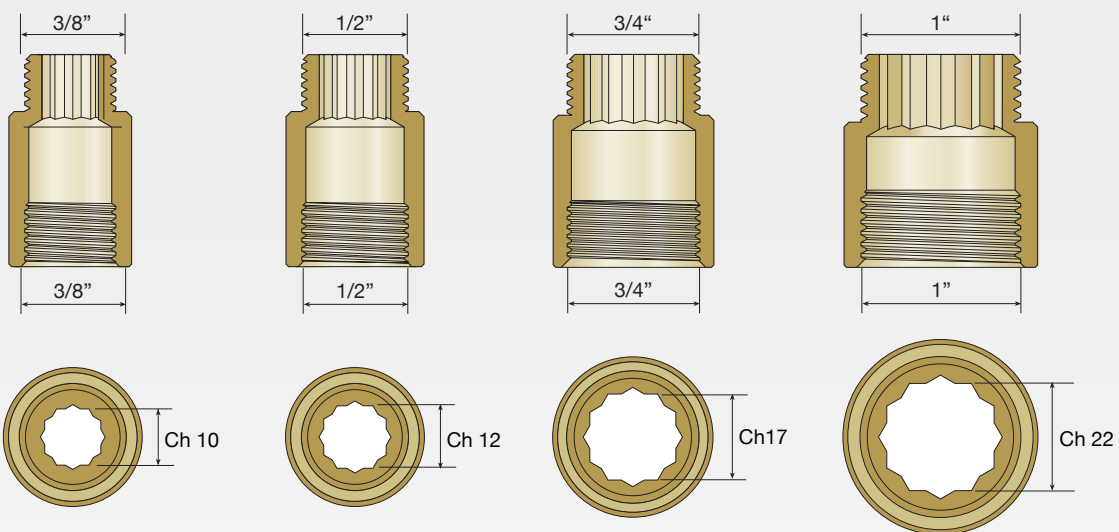
MATERIALS

Brass UNI EN 12164/12168 CW 617 N (DIN 50930-6)

- Suitable for contact with food liquids for human consumption (complies with DIN 3523 standards)
- Hardness HB 2.5/62.5 ≤ 115 (complies with DIN 3523 standards)

HEAT TREATMENT

vNormalising.



EFFECTS OF THERMAL TREATMENT ON THE BRASS ALLOYS

Mechanical operations required to obtain the product (fitting) causes hardening thereof and the ensuing increase of fragility. This problem can be overcome through suitable heat treatment.

Heating the fittings at a given temperature over a preset period of time allows softening the product.

When normalising an alloy, crystals deformed and subjected to stress are transformed into stress-free crystals through resetting, re-crystallisation and grain growth.

Normalised fittings have a higher capacity of absorbing deformations without being exposed to the risk of breakage, while the aesthetic aspect varies considerably in terms of colour.

NON-NORMALISED EXTENSIONS



NON-NORMALISED EXTENSIONS

- Light yellow colour
- HB 2.5/62.5 > 115 Hardness (does not comply with DIN 3523 standards)
- Occurrence of fractures if subjected to radial compression by a deformation = 7% of the diameter
- Cracks occur if subjected to radial compression = 400 Kgf

NORMALISED EXTENSIONS



NORMALISED EXTENSIONS

- Dark yellow colour
- HB 2.5/62.5 ≤ 115 Hardness (complies with DIN 3523)
- No fractures if subjected to radial compression by a deformation > 7% of the diameter
- No cracks occur if subjected to radial compression > 400 Kgf (plastic deformation)

OTHER PRODUCERS











WARNING!

Comisa definitely forbids the use of hemp in combination with its extensions. For hydraulic sealing, we recommend the use of teflon tape in weighted quantity.










MALE/MALE EXTENSIONS












278 - 1/2"

CODE	TECH. CODE	SIZE  /L			
77.16.010	RF0278005050	1/2" x 30 mm		10	100
77.16.015	RF0278005070	1/2" x 40 mm		10	100
77.16.020	RF0278005090	1/2" x 50 mm		10	70
77.16.025	RF0278005110	1/2" x 60 mm		10	70
77.16.026	RF0278005130	1/2" x 70 mm		10	50
77.16.030	RF0278005150	1/2" x 80 mm		10	50
77.16.031	RF0278005170	1/2" x 90 mm		10	50
77.16.035	RF0278005210	1/2" x 100 mm		10	50
77.16.036	RF0278005230	1/2" x 120 mm		10	50
77.16.040	RF0278005290	1/2" x 150 mm		10	50
77.16.045	RF0278005390	1/2" x 200 mm		10	30

278 - 3/4"

CODE	TECH. CODE	SIZE  /L			
77.16.110	RF0278007050	3/4" x 30 mm		10	60
77.16.115	RF0278007070	3/4" x 40 mm		10	60
77.16.120	RF0278007090	3/4" x 50 mm		10	60
77.16.125	RF0278007110	3/4" x 60 mm		10	60
77.16.126	RF0278007130	3/4" x 70 mm		10	50
77.16.130	RF0278007150	3/4" x 80 mm		10	50
77.16.131	RF0278007170	3/4" x 90 mm		10	50
77.16.135	RF0278007210	3/4" x 100 mm		10	50
77.16.136	RF0278007220	3/4" x 110 mm		10	30
77.16.140	RF0278007290	3/4" x 150 mm		10	30
77.16.145	RF0278007390	3/4" x 200 mm		10	30

278 - 1"

CODE	TECH. CODE	SIZE 			
77.16.210	RF0278010050	1" x 30 mm		5	30
77.16.215	RF0278010070	1" x 40 mm		5	30
77.16.220	RF0278010090	1" x 50 mm		5	20
77.16.225	RF0278010110	1" x 60 mm		5	20
77.16.226	RF0278010130	1" x 70 mm		5	20
77.16.230	RF0278010150	1" x 80 mm		5	20
77.16.231	RF0278010170	1" x 90 mm		5	20
77.16.235	RF0278010210	1" x 100 mm		5	20
77.16.236	RF0278010250	1" x 130 mm		5	20
77.16.240	RF0278010290	1" x 150 mm		5	20



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EXTENSIONS

BRASS

UNI EN 12164/12165
CW 617N
DIN 50930-6



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For hydraulic sealing, we recommend the use of teflon tape in weighted quantity.

MALE / FEMALE EXTENSIONS

DIN 3523



277 - 3/8"

CODE	TECH. CODE	SIZE /L		
77.15.005	RF0277003010	3/8" x 10 mm	10	300
77.15.010	RF0277003020	3/8" x 15 mm	10	250
77.15.015	RF0277003030	3/8" x 20 mm	10	200
77.15.016	RF0277003040	3/8" x 25 mm	10	180
77.15.020	RF0277003050	3/8" x 30 mm	10	150
77.15.021	RF0277003070	3/8" x 40 mm	10	120
77.15.025	RF0277003090	3/8" x 50 mm	10	100
77.15.030	RF0277003120	3/8" x 65 mm	10	70
77.15.035	RF0277003150	3/8" x 80 mm	10	60
77.15.040	RF0277003190	3/8" x 100 mm	10	40

277 - 1/2"

CODE	TECH. CODE	SIZE /L		
77.15.100	RF0277005010	1/2" x 10 mm	10	200
77.15.105	RF0277005020	1/2" x 15 mm	10	150
77.15.110	RF0277005030	1/2" x 20 mm	10	120
77.15.111	RF0277005040	1/2" x 25 mm	10	120
77.15.115	RF0277005050	1/2" x 30 mm	10	100
77.15.116	RF0277005070	1/2" x 40 mm	10	80
77.15.120	RF0277005090	1/2" x 50 mm	10	80
77.15.121	RF0277005110	1/2" x 60 mm	10	70
77.15.125	RF0277005150	1/2" x 80 mm	10	50

277 - 3/4"

CODE	TECH. CODE	SIZE /L		
77.15.200	RF0277007010	3/4" x 10 mm	10	150
77.15.205	RF0277007020	3/4" x 15 mm	10	120
77.15.210	RF0277007030	3/4" x 20 mm	10	100
77.15.211	RF0277007040	3/4" x 25 mm	10	100
77.15.215	RF0277007050	3/4" x 30 mm	10	80
77.15.216	RF0277007070	3/4" x 40 mm	10	60
77.15.220	RF0277007090	3/4" x 50 mm	10	60
77.15.221	RF0277007110	3/4" x 60 mm	10	50
77.15.225	RF0277007150	3/4" x 80 mm	10	50
77.15.235	RF0277007190	3/4" x 100 mm	10	30

277 - 1"




CODE	TECH. CODE	SIZE /L		
77.15.300	RF0277010010	1" x 10 mm	5	100
77.15.305	RF0277010020	1" x 15 mm	5	80
77.15.310	RF0277010030	1" x 20 mm	5	60
77.15.311	RF0277010040	1" x 25 mm	5	50
77.15.315	RF0277010050	1" x 30 mm	5	40
77.15.318	RF0277010070	1" x 40 mm	5	30
77.15.320	RF0277010090	1" x 50 mm	5	20
77.15.321	RF0277010110	1" x 60 mm	5	20
77.15.323	RF0277010150	1" x 80 mm	5	20
77.15.330	RF0277010190	1" x 100 mm	5	20

**WARNING!**




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MALE / FEMALE EXTENSIONS - CHROMED




DIN 3523 - CHROME PLATED**277C - 3/8"**

CODE	TECH. CODE	SIZE  /L		
77.17.005	RF027700301C	3/8" x 10 mm	10	300
77.17.010	RF027700302C	3/8" x 15 mm	10	250
77.17.015	RF027700303C	3/8" x 20 mm	10	200
77.17.016	RF027700304C	3/8" x 25 mm	10	180
77.17.020	RF027700305C	3/8" x 30 mm	10	150
77.17.021	RF027700307C	3/8" x 40 mm	10	120
77.17.025	RF027700309C	3/8" x 50 mm	10	100
77.17.030	RF027700312C	3/8" x 65 mm	10	70
77.17.035	RF027700315C	3/8" x 80 mm	10	60
77.17.040	RF027700319C	3/8" x 100 mm	10	40




277C - 3/4"

CODE	TECH. CODE	SIZE  /L		
77.17.200	RF027700701C	3/4" x 10 mm	10	150
77.17.205	RF027700702C	3/4" x 15 mm	10	120
77.17.210	RF027700703C	3/4" x 20 mm	10	100
77.17.211	RF027700704C	3/4" x 25 mm	10	100
77.17.215	RF027700705C	3/4" x 30 mm	10	80
77.17.216	RF027700707C	3/4" x 40 mm	10	60
77.17.220	RF027700709C	3/4" x 50 mm	10	60
77.17.221	RF027700711C	3/4" x 60 mm	10	50
77.17.225	RF027700715C	3/4" x 80 mm	10	50
77.17.235	RF027700719C	3/4" x 100 mm	10	30

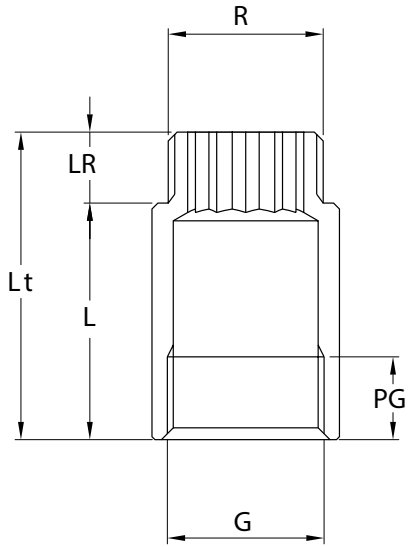
277C - 1/2"

CODE	TECH. CODE	SIZE  /L		
77.17.100	RF027700501C	1/2" x 10 mm	10	200
77.17.105	RF027700502C	1/2" x 15 mm	10	150
77.17.110	RF027700503C	1/2" x 20 mm	10	120
77.17.111	RF027700504C	1/2" x 25 mm	10	120
77.17.115	RF027700505C	1/2" x 30 mm	10	100
77.17.116	RF027700507C	1/2" x 40 mm	10	80
77.17.120	RF027700509C	1/2" x 50 mm	10	80
77.17.121	RF027700511C	1/2" x 60 mm	10	70
77.17.125	RF027700515C	1/2" x 80 mm	10	50

277C - 1"

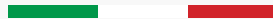
CODE	TECH. CODE	SIZE  /L		
77.17.300	RF027701001C	1" x 10 mm	5	100
77.17.305	RF027701002C	1" x 15 mm	5	80
77.17.310	RF027701003C	1" x 20 mm	5	60
77.17.311	RF027701004C	1" x 25 mm	5	50
77.17.315	RF027701005C	1" x 30 mm	5	40
77.17.318	RF027701007C	1" x 40 mm	5	30
77.17.320	RF027701009C	1" x 50 mm	5	20
77.17.321	RF027701011C	1" x 60 mm	5	20
77.17.323	RF027701015C	1" x 80 mm	5	20
77.17.330	RF027701019C	1" x 100 mm	5	20

MALE / FEMALE EXTENSIONS
TECHNICAL SPECIFICATIONS



Size	G	L	LR	Lt	PG	R
3/8"	3/8"	10	10	20	11	3/8"
	3/8"	15	10	25	11	3/8"
	3/8"	20	10	30	11	3/8"
	3/8"	25	10	35	11	3/8"
	3/8"	30	10	40	11	3/8"
	3/8"	40	10	50	11	3/8"
	3/8"	50	10	60	11	3/8"
	3/8"	65	10	75	11	3/8"
	3/8"	80	10	90	11	3/8"
	3/8"	100	10	110	11	3/8"
1/2"	1/2"	10	11	21	7	1/2"
	1/2"	15	11	26	11	1/2"
	1/2"	20	11	31	13	1/2"
	1/2"	25	11	36	13	1/2"
	1/2"	30	11	41	13	1/2"
	1/2"	40	11	51	13	1/2"
	1/2"	50	11	61	13	1/2"
	1/2"	60	11	71	13	1/2"
	1/2"	80	11	91	13	1/2"
3/4"	3/4"	10	12	22	7	3/4"
	3/4"	15	12	27	12	3/4"
	3/4"	20	12	32	14	3/4"
	3/4"	25	12	37	14	3/4"
	3/4"	30	12	42	14	3/4"
	3/4"	40	12	52	14	3/4"
	3/4"	50	12	62	14	3/4"
	3/4"	60	12	72	14	3/4"
	3/4"	80	12	92	14	3/4"
	3/4"	100	12	112	14	3/4"
1"	1"	10	14	24	7	1"
	1"	15	14	29	12	1"
	1"	20	14	34	14	1"
	1"	25	14	39	14	1"
	1"	30	14	44	14	1"
	1"	40	14	54	14	1"
	1"	50	14	64	14	1"
	1"	60	14	74	14	1"
	1"	80	14	94	14	1"
	1"	100	14	114	14	1"

COMISA



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