





Hole reduction sleeve

for TCC clamps, technopolymer

MATERIAL

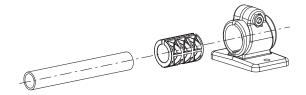
Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

FEATURES

Hole reduction sleeve for tubes with diameter "d1" \pm 0.2 mm. The hole reduction sleeve fits into the housing hole of the TCC clamps so that smaller diameter tubes can be used.

TECHNICAL DATA

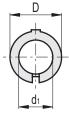
The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque of 5 Nm for TCC-A-18 and 12 Nm for TCC-A-30.







ELESA Original design







	C33
RAL7040	

Code	Description	Code	Description	D	н	d1	7.7
600101-C9	TCC-A-18-12-C9	600101-C33	TCC-A-18-12-C33	18	29	12	5
600102-C9	TCC-A-18-14-C9	600102-C33	TCC-A-18-14-C33	18	29	14	4
600103-C9	TCC-A-18-15-C9	600103-C33	TCC-A-18-15-C33	18	29	15	4
600104-C9	TCC-A-18-16-C9	600104-C33	TCC-A-18-16-C33	18	29	16	3
600201-C9	TCC-A-30-20-C9	600201-C33	TCC-A-30-20-C33	30	45	20	15
600202-C9	TCC-A-30-25-C9	600202-C33	TCC-A-30-25-C33	30	45	25	10

	TCC	C-AB	TCC	-CR	TCC	C-SL	TCC	с-тв	TCC	C-TS
	F1 [N]	M1 [Nm]								
TCC-A-18-12	900	5	1250	5	900	5	900	5	900	5
TCC-A-18-14	1000	7	1650	10	1400	7	1050	8	1200	7
TCC-A-18-15	1000	7	1650	14	1400	10	1100	13	1200	11
TCC-A-18-16	1050	7	2000	14	1300	11	1200	14	1250	12
TCC-A-30-20	1000	8	1000	5	1000	6	1150	7	1000	6
TCC-A-30-25	1350	11	1300	7	1300	7	1600	7	1400	7

	TCC	-AP	TCC	C-TP	TCC-	AP-AP	TCC-/	AP-PB	
				Ö		Solo Contraction of the Contract			
	F1 [N]	M1 [Nm]	F1 [N]	M1 [Nm]	F1 [N]	M1 [Nm]	F1 [N]	M1 [Nm]	
TCC-A-30-20	1600	12	1600	12	1600	12	1600	12	
TCC-A-30-25	2700	15	2700	15	2700	15	2700	15	

	TCC-AP-PBF		TCC-/	AP-TP	TCC-	TP-PB	TCC-TP-PBF		
	F1 [N]	M1 [Nm]	F1 [N]	M1 [Nm]	F1 [N]	M1 [Nm]	F1 [N]	M1 [Nm]	
TCC-A-30-20	1600	12	1600	12	1600	12	1600	12	
TCC-A-30-25	2700	15	2700	15	2700	15	2700	15	







Connecting clamps with mounting base

Technopolymer

CLAMP

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREW AND NUT (SUPPLIED)

Cylindrical-head screws with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nut in AISI 304 stainless steel.

Clamps for tubes with a diameter of 18 ± 0.2 and 30 ± 0.2 mm. For smaller diameter tubes, the hole reduction sleeves TCC-A can be used (ordered separately).

The "s" grub screw may be replaced by the kit TCC-KS.

TECHNICAL DATA

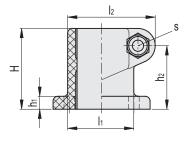
The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

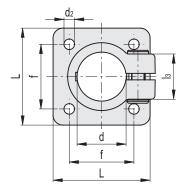
ACCESSORIES ON REQUEST (TO BE ORDERED SEPARATELY)

- TCC-A (see page -): reduction sleeves.
- TCC-KS (see page -): clamping kit.
- TCC-KV (see page -): screws and clamping nuts. GN 990 (see page -): connecting tubes.

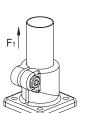


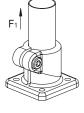
ELESA Original design





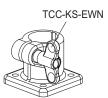


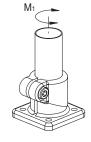






C33 RAL7040





STAINLESS STEEL

Code	Description	d	L	н	d2	f ±0.2	h1	h2	l1	I2	I 3	s	C# [Nm]	F1* [N]	M1** [Nm]	7,7
600111-C9	TCC-AB-18-C9	18	45	34	5.3	30	5	25	26	36.5	20	M6	5	1050	8	29
600111-C33	TCC-AB-18-C33	18	45	34	5.3	30	5	25	26	36.5	20	M6	5	1050	8	29
600211-C9	TCC-AB-30-C9	30	60	50	6.5	40	8	40	40	53.5	27	M8	12	1650	33	75
600211-C33	TCC-AB-30-C33	30	60	50	6.5	40	8	40	40	53.5	27	M8	12	1650	33	75

RAI 9005

- # Suggested torque for screw assembly.
- * Resistance to tube pull out
- ** Resistance to tube rotation









Technopolymer

CLAMP

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREWS AND NUTS

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel.

Supplied: two screws and two nuts for versions TCC-AP-E and TCC-AP-S, one screw and one nut for version TCC-AP-I

STANDARD EXECUTIONS

- TCC-AP-E: external teeth.
- TCC-AP-I: internal teeth.
- TCC-AP-S: without teeth.

FEATURES

Two clamps, one with external teeth and one with internal teeth or two without teeth, can be joined to create a hinged joint.

Joints comprising clamps with external/internal teeth (36 teeth) have a 10° adjustment angle.

Joints comprising clamps without teeth can be positioned at any angle.

Clamps for tubes with a diameter of 30 ± 0.2 mm.

For smaller diameter tubes, the hole reduction sleeve can be used TCC-A (to be ordered separately).

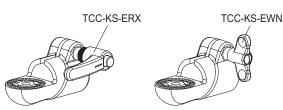
The "s" grub screws may be replaced by the kit TCC-KS.

TECHNICAL DATA

The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

ACCESSORIES ON REQUEST (TO BE ORDERED SEPARATELY)

- TCC-A (see page -): reduction sleeves.
- TCC-KS (see page -): clamping kit.
- GN 197 (see page -): monitor mounts.
- TCC-KV (see page -): screws and clamping nuts.
- GN 990 (see page -): connecting tubes.





ELESA Original design

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STAINLESS STEEL

STAINLESS STEEL

M1** M2***

[Nm]

140

140

[Nm]

33

Code	Description	d	L	н	f	l1	I2	13	14	s	C# [Nm]	F1* [N]	M1** [Nm]	M2*** [Nm]	∇
600405-C9	TCC-AP-30-S-C9	30	88	54	67	45	16.5	27	42	M8	12	3300	33	6	79
600405-C33	TCC-AP-30-S-C33	30	88	54	67	45	16.5	27	42	M8	12	3300	33	6	79

Suggested torque for screw assembly.

Description

TCC-AP-30-I-C9

d

30

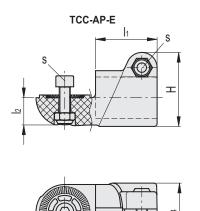
30

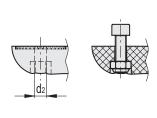
L

88

88

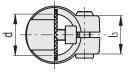
- * Resistance to tube pull out
- ** Resistance to tube rotation
- *** Resistance to joint rotation.

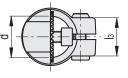




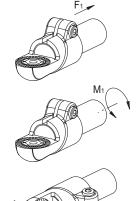
TCC-AP-S

TCC-AP-I









RAL9005 RAL7040

Code

Code

600403-C9

TCC-AP-S

TCC-AP-E

н

54

54

d2

8,1

8,1

Code	Description	d	L	н	f	l1	I2	13	14	s	C# [Nm]	F1* [N]	M1** [Nm]	M2*** [Nm]	47
600401-C9	TCC-AP-30-E-C9	30	88	54	67	45	16.5	27	42	M8	12	3300	33	140	80
600401-C33	TCC-AP-30-E-C33	30	88	54	67	45	16.5	27	42	M8	12	3300	33	140	80
TCC-AP-I													e T	AINI FCC	CTEEL

l1

45

45

12

16.5

16.5

13

27

27

14

42

42

M8

M8

f

67

67

Code	Description

600403-C33 TCC-AP-30-I-C33

Code	Description	d	L	н	f	l1	I2	13	14	s	C# [Nm]	F1* [N]	M1** [Nm]	M2*** [Nm]	4
600405-C9	TCC-AP-30-S-C9	30	88	54	67	45	16.5	27	42	M8	12	3300	33	6	79
600405-C33	TCC-AP-30-S-C33	30	88	54	67	45	16.5	27	42	M8	12	3300	33	6	79



C#

[Nm]

12

12

F1*

[N]

3300

3300































Hinged joints with clamps

Technopolymer

CLAMPS

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREWS AND NUTS (SUPPLIED)

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel.

STANDARD EXECUTIONS

- TCC-AP-AP-T: with teeth.
- TCC-AP-AP-S: without teeth.

FEATURES

Joints comprising clamps with external/internal teeth (36 teeth) have a 10° adjustment angle.

Joints comprising clamps without teeth can be positioned at any

Clamps for tubes with a diameter of 30 ± 0.2 mm.

For smaller diameter tubes, the hole reduction sleeve can be used TCC-A (to be ordered separately).

The "s" grub screws may be replaced by the kit TCC-KS.

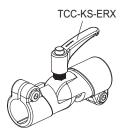
TECHNICAL DATA

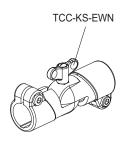
The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

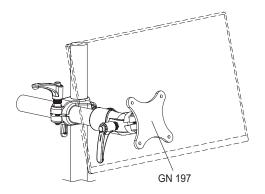
- TCC-A (see page -): reduction sleeves.
- TCC-KS (see page -): clamping kit.
- GN 197 (see page -): monitor mounts.
- TCC-KV (see page -): screws and clamping nuts.
- GN 990 (see page -): connecting tubes.

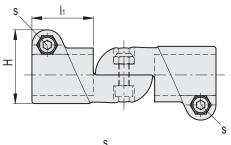


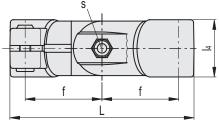
ELESA Original design



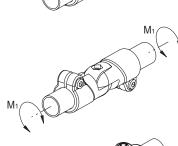


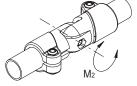












C33

TCC-AP-AP-T

	SIAIIA	LEGG 3	IEEL
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Code	Description	d	L	н	f	l1	13	14	s	C# [Nm]	F1* [N]	M1** [Nm]	M2*** [Nm]	₽
600801-C9	TCC-AP-AP-30-T-C9	30	135	54	56	45	27	42	M8	12	3300	33	140	178
600801-C33	TCC-AP-AP-30-T-C33	30	135	54	56	45	27	42	M8	12	3300	33	140	178

TCC-AP-AP-S

STAINLESS STEEL

Code	Description	d	L	Н	f	l1	13	14	s	C# [Nm]	F1* [N]	M1** [Nm]	M2*** [Nm]	∇
600802-C9	TCC-AP-AP-30-S-C9	30	135	54	56	45	27	42	M8	12	3300	33	6	178
600802-C33	TCC-AP-AP-30-S-C33	30	135	54	56	45	27	42	M8	12	3300	33	6	178

Suggested torque for screw assembly.

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- * Resistance to tube pull out
- ** Resistance to tube rotation
- *** Resistance to joint rotation.

Tube connectors 16





















TCC-AP-PB

Hinged joint with mounting base and clamp

Technopolymer

CLAMP AND BASE

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREWS AND NUTS (SUPPLIED)

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel.

STANDARD EXECUTIONS

- TCC-AP-PB-T: with teeth.
- TCC-AP-PB-S: without teeth.

FEATURES

Joints comprising bases with external teeth and clamps with internal teeth (36 teeth) have a 10° adjustment angle.

Joints comprising bases and clamps without teeth can be positioned at any angle.

Clamps for tubes with a diameter of 30 ± 0.2 mm.

For smaller diameter tubes, the hole reduction sleeve can be used TCC-A (to be ordered separately).

The "s" grub screws may be replaced by the kit TCC-KS.

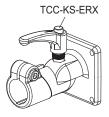
TECHNICAL DATA

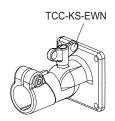
The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

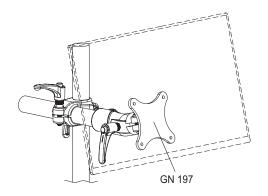
- TCC-A (see page -): reduction sleeves.
- TCC-KS (see page -): clamping kit.
- GN 197 (see page -): monitor mounts.
- TCC-KV (see page -): screws and clamping nuts.
- GN 990 (see page -): connecting tubes.



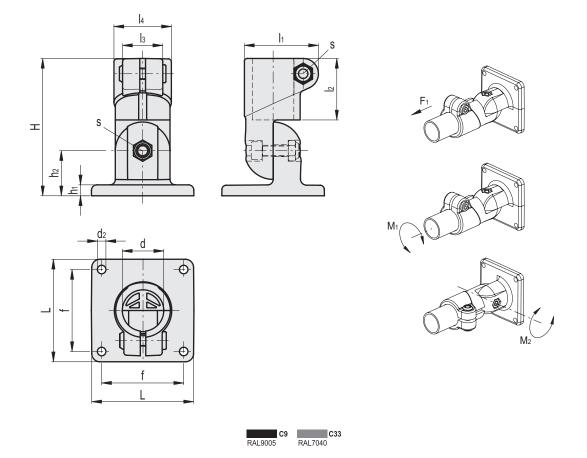
ELESA Original design











TCC-AP-PB-T STAINLESS STEEL

Code	Description	d	L	н	d2	f ±0.2	h1	h2	l1	I2	13	14	s	C# [Nm]	F1* [N]		M2*** [Nm]	^ ^
600821-C9	TCC-AP-PB-30-T-C9	30	75	100	6.5	60	8	33	54	45	27	42	M8	12	3300	33	100	157
600821-C33	TCC-AP-PB-30-T-C33	30	75	100	6.5	60	8	33	54	45	27	42	M8	12	3300	33	100	157

TCC-AP-PB-S STAINLESS STEEL

Code	Description	d	L	н	d2	f ±0.2	h1	h2	l1	I2	13	14	s	C# [Nm]		M1** [Nm]		
600822-C9	TCC-AP-PB-30-S-C9	30	75	100	6.5	60	8	33	54	45	27	42	M8	12	3300	33	6	157
600822-C33	TCC-AP-PB-30-S-C33	30	75	100	6.5	60	8	33	54	45	27	42	M8	12	3300	33	6	157

- # Suggested torque for screw assembly.
- * Resistance to tube pull out
- ** Resistance to tube rotation
- *** Resistance to joint rotation.













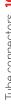


















Hinged joint with mounting base and clamp

Technopolymer

CLAMP AND BASE

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREWS AND NUTS (SUPPLIED)

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel.

STANDARD EXECUTIONS

- TCC-AP-PBF-T: with teeth.
- TCC-AP-PBF-S: without teeth.

FEATURES

Joints comprising bases with external teeth and clamps with internal teeth (36 teeth) have a 10° adjustment angle.

Joints comprising bases and clamps without teeth can be positioned at any angle.

Clamps for tubes with a diameter of 30 ± 0.2 mm.

For smaller diameter tubes, the hole reduction sleeve can be used TCC-A (to be ordered separately).

The "s" grub screws may be replaced by the kit TCC-KS.

TECHNICAL DATA

The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

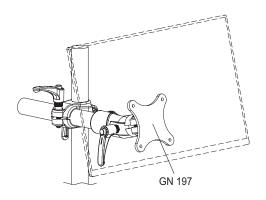
- TCC-A (see page -): reduction sleeves.
- TCC-KS (see page -): clamping kit.
- GN 197 (see page -): monitor mounts.
- TCC-KV (see page -): screws and clamping nuts.
- GN 990 (see page -): connecting tubes.

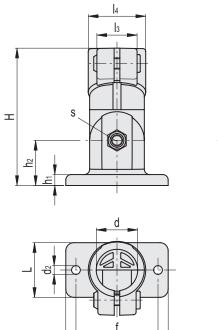


ELESA Original design

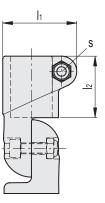


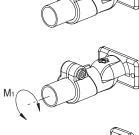


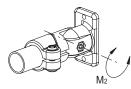




В







C9 RAL9005 RAL7040

TCC-AP-PBF-T STAINLESS STEEL

Code	Description	d	L	В	Н	d2	f ±0.2	h1	h2	l1	I2	I3	14	s	C# [Nm]	F1*] [N]		M2*** [Nm]	
600831-C9	TCC-AP-PBF-30-T-C9	30	40	75	100	6.5	60	8	33	54	45	27	42	M8	12	3300	33	100	142
600831-C33	TCC-AP-PBF-30-T-C33	30	40	75	100	6.5	60	8	33	54	45	27	42	M8	12	3300	33	100	142

TCC-AP-PBF-S STAINLESS STEEL

Code	Description	d	L	В	н	d2	f ±0.2	h1	h2	l1	I2	13	14	s	C# [Nm]		M1** I [Nm]		
600832-C9	TCC-AP-PBF-30-S-C9	30	40	75	100	6.5	60	8	33	54	45	27	42	M8	12	3300	33	6	142
600832-C33	TCC-AP-PBF-30-S-C33	30	40	75	100	6.5	60	8	33	54	45	27	42	M8	12	3300	33	6	142

- # Suggested torque for screw assembly.
- * Resistance to tube pull out
- ** Resistance to tube rotation
- *** Resistance to joint rotation.

































Hinged joints with clamps

Technopolymer

CLAMPS

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREWS AND NUTS (SUPPLIED)

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel.

STANDARD EXECUTIONS

- TCC-AP-TP-T: with teeth.
- TCC-AP-TP-S: without teeth.

FEATURES

Joints comprising clamps with external/internal teeth (36 teeth) have a 10° adjustment angle.

Joints comprising clamps without teeth can be positioned at any

Clamps for tubes with a diameter of 30 ± 0.2 mm.

For smaller diameter tubes, the hole reduction sleeve can be used TCC-A (to be ordered separately).

The "s" grub screws may be replaced by the kit TCC-KS.

TECHNICAL DATA

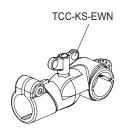
The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

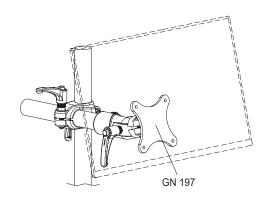
- TCC-A (see page -): reduction sleeves.
- TCC-KS (see page -): clamping kit.
- GN 197 (see page -): monitor mounts.
- TCC-KV (see page -): screws and clamping nuts.
- GN 990 (see page -): connecting tubes.

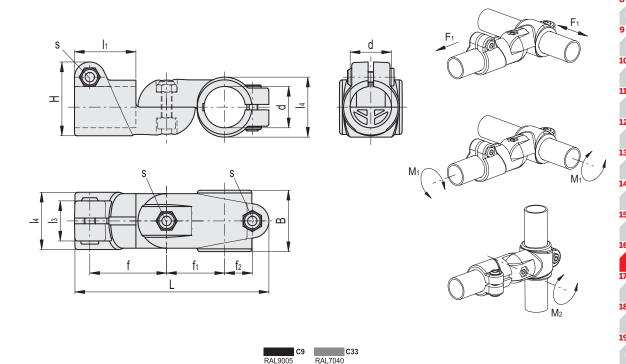


ELESA Original design









TCC-AP-TP-T STAINLESS STEEL

RAL9005

Code	Description	d	L	В	н	f	f1	f2	l1	13	14	s	C# [Nm]	F1* [N]	M1** [Nm]	M2*** [Nm]	7.7
600811-C9	TCC-AP-TP-30-T-C9	30	142	44.5	54	56	42	20.5	45	27	44	M8	12	3000	33	120	181
600811-C33	TCC-AP-TP-30-T-C33	30	142	44.5	54	56	42	20.5	45	27	44	M8	12	3000	33	120	181

TCC-AP-TP-S STAINLESS STEEL

Code	Description	d	L	В	н	f	f1	f2	l1	13	14	s	C# [Nm]			M2*** [Nm]	7.7
600812-C9	TCC-AP-TP-30-S-C9	30	142	44.5	54	56	42	20.5	45	27	44	M8	12	3000	33	4	181
600812-C33	TCC-AP-TP-30-S-C33	30	142	44.5	54	56	42	20.5	45	27	44	M8	12	3000	33	4	181

- # Suggested torque for screw assembly.
- * Resistance to tube pull out
- ** Resistance to tube rotation
- *** Resistance to joint rotation.











Two-way connecting clamps

Technopolymer

CLAMP

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREWS AND NUTS (SUPPLIED)

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel.

FEATURES

Clamps for tubes with a diameter of 18 ± 0.2 and 30 ± 0.2 mm. For smaller diameter tubes, the hole reduction sleeve TCC-A can be used (ordered separately).

The "s" grub screws may be replaced by the kit TCC-KS.

TECHNICAL DATA

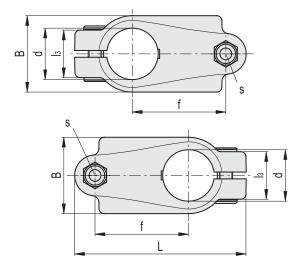
The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

ACCESSORIES ON REQUEST (TO BE ORDERED SEPARATELY)

- TCC-A (see page -): reduction sleeves.
- TCC-KS (see page -): clamping kit.
- TCC-KV (see page -): screws and clamping nuts.
- GN 990 (see page -): connecting tubes.

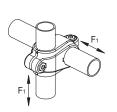


ELESA Original design

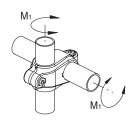








C33



RAL7040 RAI 9005

STAINLESS STEEL

Description	d	L	В	f	13	s	C# [Nm]	F1* [N]	M1** [Nm]	44
TCC-CR-18-18-C9	18	65	29	34	21	M6	5	2150	17	41
TCC-CR-18-18-C33	18	65	29	34	21	M6	5	2150	17	41
TCC-CR-30-30-C9	30	100.5	45	54.5	27	M8	12	1350	21	123
TCC-CR-30-30-C33	30	100.5	45	54.5	27	M8	12	1350	21	123
	TCC-CR-18-18-C9 TCC-CR-18-18-C33 TCC-CR-30-30-C9	TCC-CR-18-18-C9 18 TCC-CR-18-18-C33 18 TCC-CR-30-30-C9 30	TCC-CR-18-18-C9 18 65 TCC-CR-18-18-C33 18 65 TCC-CR-30-30-C9 30 100.5	TCC-CR-18-18-C9 18 65 29 TCC-CR-18-18-C33 18 65 29 TCC-CR-30-30-C9 30 100.5 45	TCC-CR-18-18-C9 18 65 29 34 TCC-CR-18-18-C33 18 65 29 34 TCC-CR-30-30-C9 30 100.5 45 54.5	TCC-CR-18-18-C9 18 65 29 34 21 TCC-CR-18-18-C33 18 65 29 34 21 TCC-CR-30-30-C9 30 100.5 45 54.5 27	TCC-CR-18-18-C9 18 65 29 34 21 M6 TCC-CR-18-18-C33 18 65 29 34 21 M6 TCC-CR-30-30-C9 30 100.5 45 54.5 27 M8	Description d L B f I3 s [Nm] TCC-CR-18-18-C9 18 65 29 34 21 M6 5 TCC-CR-18-18-C33 18 65 29 34 21 M6 5 TCC-CR-30-30-C9 30 100.5 45 54.5 27 M8 12	Description d L B f I3 s [Nm] [N] TCC-CR-18-18-C9 18 65 29 34 21 M6 5 2150 TCC-CR-18-18-C33 18 65 29 34 21 M6 5 2150 TCC-CR-30-30-C9 30 100.5 45 54.5 27 M8 12 1350	Description d L B f 13 s [Nm] [N] [Nm] TCC-CR-18-18-C9 18 65 29 34 21 M6 5 2150 17 TCC-CR-18-18-C33 18 65 29 34 21 M6 5 2150 17 TCC-CR-30-30-C9 30 100.5 45 54.5 27 M8 12 1350 21

Suggested torque for screw assembly.

1/2022

- * Resistance to tube pull out
- ** Resistance to tube rotation



Tube connectors 16

TCC-KS









Clamping kit for TCC

Technopolymer

ADJUSTABLE HANDLE AND WING NUT

Glass-fibre reinforced polyamide based (PA) technopolymer, grey-black colour, matte finish.

DISTANCE BUSHING

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

SELF-LOCKING NUT

AISI 304 stainless steel.

STANDARD EXECUTIONS

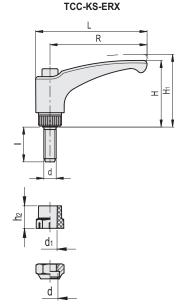
- TCC-KS-ERX: adjustable handle with AISI 303 stainless steel threaded stud, chamfered flat end UNI 947: ISO 4753 (see Technical data on page -), with black push button.
- TCC-KS-EWN: wing nuts with AISI 303 stainless steel threaded stud, chamfered flat end UNI 947: ISO 4753 (see Technical data on page -), with black cap.

FEATURES AND APPLICATIONS

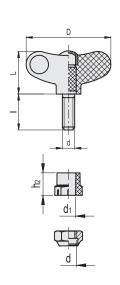
The clamping kit for TCC, comprising a distance bushing, an adjustable handle or a wing nut and nut, is used when clamping operations are required.

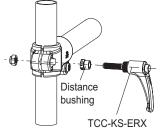


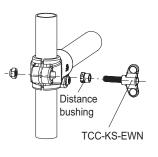
ELESA Original design



TCC-KS-EWN







TCC-KS-ERX

ICC-N3-ER	^										STAINLES	SIEEL
Code	Description	d	R	D	L	н	H1	h3	I	l1	For TCC	4
600509-C1	TCC-KS-ERX.30-SST-p-M6x30-C1	M6	30	15	37.5	30	33.5	23	30	9	TCC-18	21
600519-C1	TCC-KS-ERX.44-SST-p-M6x30-C1	M6	44	16	52	32.5	36	25	30	11	TCC-18	23
600525-C1	TCC-KS-ERX.63-SST-p-M6x30-C1	M6	63	19	72.5	43	47	34.5	30	13.5	TCC-18	25
600541-C1	TCC-KS-ERX.63-SST-p-M8x40-C1	M8	63	19	72.5	43	47	34.5	40	13.5	TCC-30	47
600557-C1	TCC-KS-ERX.78-SST-p-M8x40-C1	M8	78	23	89.5	54	58	44	40	16	TCC-30	56

TCC-KS-EWN

STAINLESS STEEL

STAINI FSS STEFI

Code	Description	d	D	L	b	ı	For TCC	4₽
600607-C1	TCC-KS-EWN.48-SST-p-M6x30-C1	M6	47	24	7	30	TCC-18	18
600619-C1	TCC-KS-EWN.55-SST-p-M8x40-C1	M8	55	28	8	40	TCC-30	36

Screws and nuts for TCC

Stainless steel

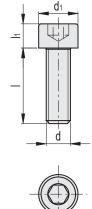
MATERIAL

AISI 304 stainless steel.

STANDARD EXECUTION

Cylindrical-head screw with hexagon socket with anti-seizure treatment and self-locking nut.









STAINLESS STEEL

Code	Description	d	d1	h	I	l1	s	47
600706	TCC-KV-M6	M6	10	6	18	6	10	8
600708	TCC-KV-M8	M8	13	8	25	8	13	19





ELESA Original design









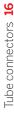


















Mounting base for hinged **joints**

Technopolymer

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREW AND NUT (SUPPLIED)

Cylindrical-head screws with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nut in AISI 304 stainless steel.

STANDARD EXECUTIONS

- TCC-PB-E: external teeth.
- TCC-PB-S: without teeth.

FEATURES

A base with external teeth can be joined to a clamp with internal teeth, or a base without teeth to a clamp without teeth, to create a

Joints comprising bases with external teeth and clamps with internal teeth (36 teeth) have a 10° adjustment angle.

Joints comprising bases and clamps without teeth can be positioned

The "s" grub screw may be replaced by the kit TCC-KS.

ACCESSORIES ON REQUEST (TO BE ORDERED SEPARATELY)

TCC-KS (see page -): clamping kit.

- TCC-KV (see page -): screws and clamping nuts.

TECHNICAL DATA

The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

Ф

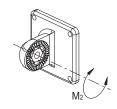


6.5

TCC-PB-E



TCC-PB-S



C33 RAL7040

TCC-PB-E

STAINLESS STEEL

Code	Description	L	Н	d2	f ±0.2	h1	h2	l1	I2	s	C# [Nm]	M2*** [Nm]	2,7
600421-C9	TCC-PB-30-E-C9	75	54	6.5	60	8	33	40	20	M8	12	100	78
600421-C33	TCC-PB-30-E-C33	75	54	6.5	60	8	33	40	20	M8	12	100	78

TCC-PB-S

600425-C33

STAINLESS STEEL M2*** Code Description н d2 f ±0.2 h1 h2 11 12 $\overline{4}$ [Nm] [Nm] 600425-C9 TCC-PB-30-S-C9 6.5 60 8 33 40 M8 73 40

8

33

60

Suggested torque for screw assembly.

*** Resistance to joint rotation.

M8

12

73

20

TCC-PB-30-S-C33











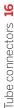
















Mounting base for hinged **joints**

Technopolymer

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREW AND NUT (SUPPLIED)

Cylindrical-head screws with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nut in AISI 304 stainless steel.

STANDARD EXECUTIONS

- TCC-PBF-E: external teeth.
- TCC-PBF-S: without teeth.

FEATURES

A base with external teeth can be joined to a clamp with internal teeth, or a base without teeth to a clamp without teeth, to create a

Joints comprising bases with external teeth and clamps with internal teeth (36 teeth) have a 10° adjustment angle.

Joints comprising bases and clamps without teeth can be positioned

The "s" grub screw may be replaced by the kit TCC-KS.





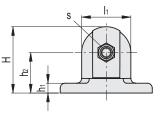
ELESA Original design

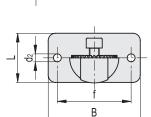
TECHNICAL DATA

The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

ACCESSORIES ON REQUEST (TO BE ORDERED SEPARATELY)

- TCC-KS (see page -): clamping kit.
- TCC-KV (see page -): screws and clamping nuts.



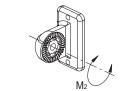


TCC-PBF-E





TCC-PBF-S



RAL9005

RAL7040

C33

TCC-PBF-E

TCC-PBF-E												S	TAINLESS	STEEL
Code	Description	L	В	Н	d2	f ±0.2	h1	h2	l1	I2	s	C# [Nm]	M2*** [Nm]	7,7
600431-C9	TCC-PBF-30-E-C9	40	75	54	6.5	60	8	33	40	20	M8	12	100	63
600431-C33	TCC-PBF-30-F-C33	40	75	54	6.5	60	8	33	40	20	M8	12	100	63

TCC-PRF-S

ICC-PDF-3												3	IAINLES	SIEEL
Code	Description	L	В	Н	d2	f ±0.2	h1	h2	l1	l2	s	C# [Nm]	M2*** [Nm]	7,7
600435-C9	TCC-PBF-30-S-C9	40	75	54	6.5	60	8	33	40	20	M8	12	7	58
600435-C33	TCC-PBF-30-S-C9	40	75	54	6.5	60	8	33	40	20	M8	12	7	58

Suggested torque for screw assembly.

1/2022

*** Resistance to joint rotation.







Connecting clamps with sleeve Technopolymer

CLAMP

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREWS AND NUTS (SUPPLIED)

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel.

FEATURES

Clamps for tubes with a diameter of 18 ± 0.2 and 30 ± 0.2 mm. For smaller diameter tubes, the hole reduction sleeve TCC-A can be used (ordered separately).

The "s" grub screws may be replaced by the kit TCC-KS.

TECHNICAL DATA

The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

ACCESSORIES ON REQUEST (TO BE ORDERED SEPARATELY)

- TCC-A (see page -): reduction sleeves.
- TCC-KS (see page -): clamping kit.
- TCC-KV (see page -): screws and clamping nuts.
- GN 990 (see page -): connecting tubes.



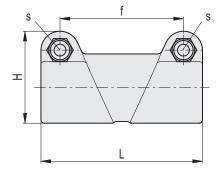
ELESA Original design



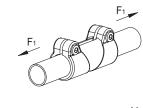


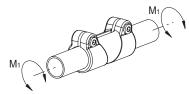


TCC-KS-EWN









RAI 9005

C33 RAL7040

STAINLESS STEEL

Code	Description	d	L	н	f	13	14	s	C# [Nm]	F1* [N]	M1** [Nm]	47
600131-C9	TCC-SL-18-18-C9	18	64.5	35.5	48	20.5	29	M6	5	1100	13	45
600131-C33	TCC-SL-18-18-C33	18	64.5	35.5	48	20.5	29	M6	5	1100	13	45
600231-C9	TCC-SL-30-30-C9	30	94.5	53.5	72	27	42	M8	12	1400	25	116
600231-C33	TCC-SL-30-30-C33	30	94.5	53.5	72	27	42	M8	12	1400	25	116

- # Suggested torque for screw assembly.
- * Resistance to tube pull out
- ** Resistance to tube rotation











Connecting clamps with mounting plate

Technopolymer

CLAMP

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREW AND NUT (SUPPLIED)

Cylindrical-head screws with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nut in AISI 304 stainless steel.

FEATURES

Clamps for tubes with a diameter of 18 ± 0.2 and 30 ± 0.2 mm. For smaller diameter tubes, the hole reduction sleeve TCC-A can be used (ordered separately).

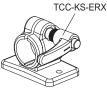
The "s" grub screw may be replaced by the kit TCC-KS.

TECHNICAL DATA

The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

ELESA Original design

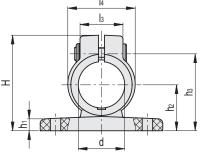


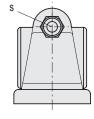


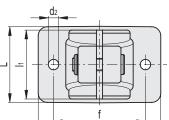


ACCESSORIES ON REQUEST (TO BE ORDERED SEPARATELY)

- TCC-A (see page -): reduction sleeves.
- TCC-KS (see page -): clamping kit.
- TCC-KV (see page -): screws and clamping nuts.
- GN 990 (see page -): connecting tubes.

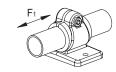


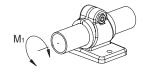




В







STAINLESS STEEL

Code	Description	d	L	В	Н	d2	f ±0.2	h1	h2	h3	l1	I 3	14	s	C# [Nm]	F1* [N]	M1** [Nm]	2,7
600141-C9	TCC-TB-18-C9	18	34.5	52	41	5.3	40	5	18	33.5	29	21	29	M6	5	1450	16	29
600141-C33	TCC-TB-18-C33	18	34.5	52	41	5.3	40	5	18	33.5	29	21	29	M6	5	1450	16	29
600241-C9	TCC-TB-30-C9	30	49.5	80	61.5	6.5	60	8	30	50	44.5	27	44	M8	12	1800	27	84
600241-C33	TCC-TB-30-C33	30	49.5	80	61.5	6.5	60	8	30	50	44.5	27	44	M8	12	1800	27	84

Suggested torque for screw assembly.

1/2022

- * Resistance to tube pull out
- ** Resistance to tube rotation

Tube connectors 16









Clamps for hinged joints

Technopolymer

CLAMP

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREWS AND NUTS

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel.

Supplied: two screws and two nuts for versions TCC-TP-E and TCC-TP-S, one screw and one nut for version TCC-TP-I

STANDARD EXECUTIONS

- TCC-TP-E: external teeth.
- TCC-TP-I: internal teeth.
- TCC-TP-S: without teeth.

FEATURES

Two clamps, one with external teeth and one with internal teeth or two without teeth, can be joined to create a hinged joint.

Joints comprising clamps with external/internal teeth (36 teeth) have a 10° adjustment angle.

Joints comprising clamps without teeth can be positioned at any

Clamps for tubes with a diameter of 30 ± 0.2 mm.

For smaller diameter tubes, the hole reduction sleeve can be used TCC-A (to be ordered separately).

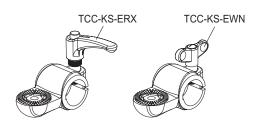
The "s" grub screws may be replaced by the kit TCC-KS.

TECHNICAL DATA

The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

ACCESSORIES ON REQUEST (TO BE ORDERED SEPARATELY)

- TCC-A (see page -): reduction sleeves.
- TCC-KS (see page -): clamping kit.
- GN 197 (see page -): monitor mounts.
- TCC-KV (see page -): screws and clamping nuts.
- GN 990 (see page -): connecting tubes.





ELESA Original design

TCC-TP-E

f₁

Description

Description

TCC-TP-30-I-C9

TCC-TP-30-I-C33

TCC-TP-30-E-C9

TCC-TP-30-E-C33

d

30

d

30

L

95

95

L

95

95

В

44.5

44.5

В

44.5

44.5

f

32.5

32.5

d2

8,1

8,1

Θ

S

Tube connectors 16

M1** M2*** [Nm] [Nm] 82

> 120 82

STAINLESS STEEL

47

83

83

M2***

[Nm]

120

120

STAINLESS STEEL

M1**

[Nm]

33

33

33

33

C#

[Nm]

12

12

C#

[Nm]

12

F1*

[N]

3000

3000

F1*

[N]

3000

3000

STAINLESS STEEL M2*** ₽

C# F1* M1** Code В Description d L f f1 11 12 13 14 [Nm] [N] [Nm] [Nm] 600415-C9 TCC-TP-30-S-C9 95 44.5 32.5 42 44 M8 30 40 16.5 27 12 3000 33 82 4 600415-C33 TCC-TP-30-S-C33 44.5 32.5 42 40 16.5 27 44 M8 3000 4 82

TCC-TP-I

d₂

RAL9005

f1

42

42

f

32.5

32.5

RAL7040

l1

40

40

f1

42

42

12

16.5

16.5

l1

40

40

13

27

27

12

16.5

16.5

14

44

44

14 s

13

27 44 M8

27 44 M8

s

M8

M8

TCC-TP-S

- # Suggested torque for screw assembly.
- * Resistance to tube pull out

TCC-TP-E

600411-C9

600411-C33

TCC-TP-I

Code

600413-C9

TCC-TP-S

600413-C33

Code

- ** Resistance to tube rotation
- *** Resistance to joint rotation.











Hinged joint with mounting base and clamp

Technopolymer

CLAMP AND BASE

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREWS AND NUTS (SUPPLIED)

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel.

STANDARD EXECUTIONS

- TCC-TP-PB-T: with teeth.
- TCC-TP-PB-S: without teeth.

FEATURES

Joints comprising bases with external teeth and clamps with internal teeth (36 teeth) have a 10° adjustment angle.

Joints comprising bases and clamps without teeth can be positioned at any angle.

Clamps for tubes with a diameter of 30 ± 0.2 mm.

For smaller diameter tubes, the hole reduction sleeve can be used TCC-A (to be ordered separately).

The "s" grub screws may be replaced by the kit TCC-KS.

TECHNICAL DATA

The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

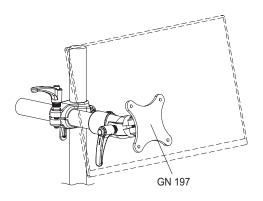
- TCC-A (see page -): reduction sleeves.
- TCC-KS (see page -): clamping kit.
- GN 197 (see page -): monitor mounts.
- TCC-KV (see page -): screws and clamping nuts.
- GN 990 (see page -): connecting tubes.

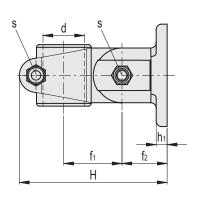


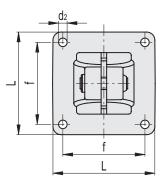
ELESA Original design

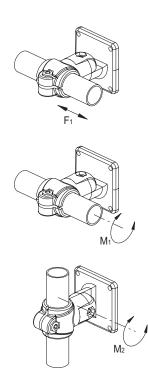














TCC-TP-PB-T STAINLESS STEEL

Code	Description	d	L	Н	d2	f ±0.2	f1	f2	h1	s	C# [Nm]	F1* [N]	M1** [Nm]	M2*** [Nm]	7.7
600841-C9	TCC-TP-PB-30-T-C9	30	75	108	65	60	42	33	8	M8	12	3000	33	100	160
600841-C33	TCC-TP-PB-30-T-C33	30	75	108	65	60	42	33	8	M8	12	3000	33	100	160

TCC-TP-PB-S STAINLESS STEEL

Code	Description	d	L	Н	d2	f ±0.2	f1	f2	h1	s	C# [Nm]	F1* [N]	M1** [Nm]		∇
600842-C9	TCC-TP-PB-30-S-C9	30	75	108	65	60	42	33	8	M8	12	3000	33	4	160
600842-C33	TCC-TP-PB-30-S-C33	30	75	108	65	60	42	33	8	M8	12	3000	33	4	160

- # Suggested torque for screw assembly.
- * Resistance to tube pull out
- ** Resistance to tube rotation
- *** Resistance to joint rotation.











Hinged joint with mounting base and clamp

Technopolymer

CLAMP AND BASE

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREWS AND NUTS (SUPPLIED)

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel.

STANDARD EXECUTIONS

- TCC-TP-PBF-T: with teeth.
- TCC-TP-PBF-S: without teeth.

FEATURES

Joints comprising bases with external teeth and clamps with internal teeth (36 teeth) have a 10° adjustment angle.

Joints comprising bases and clamps without teeth can be positioned at any angle.

Clamps for tubes with a diameter of 30 ± 0.2 mm.

For smaller diameter tubes, the hole reduction sleeve can be used TCC-A (to be ordered separately).

The "s" grub screws may be replaced by the kit TCC-KS.

TECHNICAL DATA

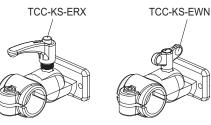
The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

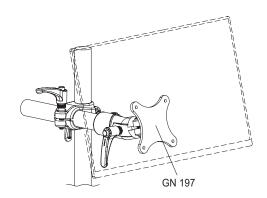
- TCC-A (see page -): reduction sleeves.
- TCC-KS (see page -): clamping kit.
- GN 197 (see page -): monitor mounts.
- TCC-KV (see page -): screws and clamping nuts.
- GN 990 (see page -): connecting tubes.



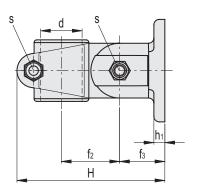


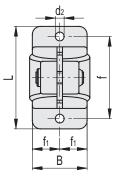
ELESA Original design

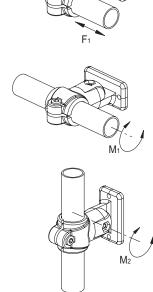
















TCC-TP-PBF-T STAINLESS STEEL

Code	Description	d	L	В	Н	d2	f ±0.2	f1	f2	f3	h1	s	C# [Nm]		M1** [Nm]	M2*** [Nm]	A A I
600851-C9	TCC-TP-PBF-30-T-C9	30	75	40	108	6.5	60	20	42	33	8	M8	12	3000	33	100	145
600851-C33	TCC-TP-PBF-30-T-C33	30	75	40	108	6.5	60	20	42	33	8	M8	12	3000	33	100	145

TCC-TP-PBF-S STAINLESS STEEL

Code	Description	d	L	В	Н	d2	f ±0.2	f1	f2	f3	h1	s	C# [Nm]			M2*** [Nm]	7,7
600852-C9	TCC-TP-PBF-30-S-C9	30	75	40	108	6.5	60	20	42	33	8	M8	12	3000	33	4	145
600852-C33	TCC-TP-PBF-30-S-C33	30	75	40	108	6.5	60	20	42	33	8	M8	12	3000	33	4	145

- # Suggested torque for screw assembly.
- * Resistance to tube pull out
- ** Resistance to tube rotation
- *** Resistance to joint rotation.











T-shaped connecting clamps

Technopolymer

CLAMP

Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 9005 (C9) black colour or grey RAL 7040 (C33) colour, matte finish.

SCREWS AND NUTS (SUPPLIED)

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel.

FEATURES

Clamps for tubes with a diameter of 18 ± 0.2 and 30 ± 0.2 mm. For smaller diameter tubes, the hole reduction sleeve TCC-A can be used (ordered separately).

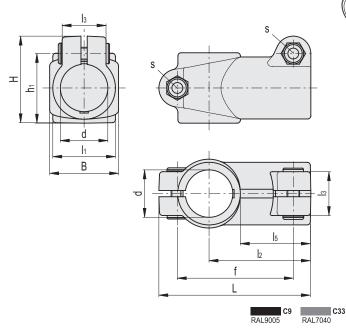
The "s" grub screws may be replaced by the kit TCC-KS.

TECHNICAL DATA

The resistance values shown in the table were measured during laboratory tests at ambient temperature with the screws tightened to the maximum torque "C#".

ACCESSORIES ON REQUEST (TO BE ORDERED SEPARATELY)

- TCC-A (see page -): reduction sleeves.
- TCC-KS (see page -): clamping kit.
- TCC-KV (see page -): screws and clamping nuts.
- GN 990 (see page -): connecting tubes.

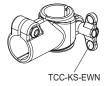


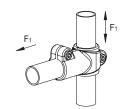


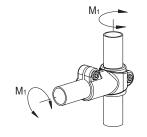


ELESA Original design









STAINLESS STEEL

Code	Description	d	L	В	Н	f	h1	l1	I2	I3	I5	s	C# [Nm]	F1* [N]	M1** [Nm]	2,2
600151-C9	TCC-TS-18-18-C9	18	65	29	35	49	27	26.5	43.5	20.5	30.5	M6	5	1450	14	42
600151-C33	TCC-TS-18-18-C33	18	65	29	35	49	27	26.5	43.5	20.5	30.5	M6	5	1450	14	42
600251-C9	TCC-TS-30-30-C9	30	96	44	55.5	74	44	40.5	64.5	28	45.5	M8	12	1650	17	113
600251-C33	TCC-TS-30-30-C33	30	96	44	55.5	74	44	40.5	64.5	28	45.5	M8	12	1650	17	113

- # Suggested torque for screw assembly.
- * Resistance to tube pull out
- ** Resistance to tube rotation