

TECHNICAL DATA SHEET

Plastic pipe clamp CLIC TOP 63–127

1. Product description

The most efficient mounting system for pipes, cables and many other applications.
Diameter dimensions ranging from 63 to 127 mm for the exterior and the indoor area, as well as tunnels.

2. Application areas

- Building drainage
- Installation technology
- Chemical industry
- Electrical installations for infrastructure
- Sanitary installations

3. Features

- One-piece, self locking plastic pipe clamp
- Tool-free installation system
- Very high dynamic load and stress corrosion crack stability
- Very low moisture absorption (suitable for wet locations)
- Chloride- and weather resistant
- UV resistant (for the exterior area)
- Wide range of mounting temperature from -30 °C to +110 °C
- Mounting with metrical or wood screws
- Approved by: UL (1565/2043)
- 100 % made in Switzerland

4. Material data

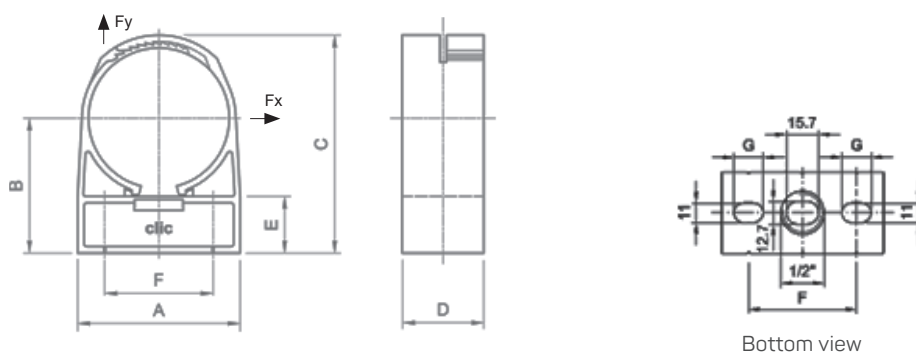
Material quality	Polyamide PA 12
Density at +20 °C	1.01g/cm ³
Elongation at yield	12 %
E-Modulus in tension	1100 MPa
Water absorption at 23 °C	1.50 %
Moisture absorption (23 °C / 50 % r.F.)	0.70 %
Dielectric strength	32 kV/mm
Weather proof	-30 °C up to +110 °C
Maximum service temperature short term	+150 °C
Maximum service temperature long term	+110 °C
Flammability	HB according to UL 94
Impact value (Charpy, +23 °C)	7 kJ/m ²
Impact value (Charpy, -30 °C)	6 kJ/m ²
Halogen	halogen free as per IEC 754-2
Petrol, diesel, oil	resistant
Corrosion	resistant
Chloride salt	resistant
UV	resistant as per ISO 4892-2
Standard colours	dark grey (similar to RAL 7001)



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5. Technical data

Type	Clamping range [mm]		A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	Breaking load [N] F _y /F _x @ 23 °C
	min.	max.								
63	63	71	78	72	115	40	31	52	11	600
71	71	80	87	77	124	40	31	58	15	740
80	80	90	98	83	136	40	31	66	16	880
90	90	101	110	89	148	40	31	76	16	1000
101	101	113	124	96	163	40	31	86	17	1200
113	113	127	139	105	180	40	31	102	17	1350



6. Selection guide

Type	Steel pipe		Copper pipe mm	Cast iron pipe mm	PE pipe mm	PVC pipe mm	Cable-ducts metric measures M	Certification UL	Breaking load [N] F _y /F _x @ 23 °C
	mm	inch							
63					63		63	✓	600
71	76,1	2 1/2"	76	78	75	75		✓	740
80	88,9	3"	89					✓	880
90					90			✓	1000
101			108	110	110	110		✓	1200
113	114,3	4"	114		125	125		✓	1350

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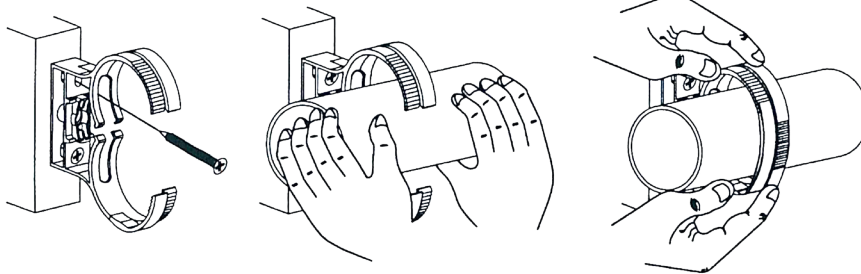
7. Chemical resistance

Material	Concentration	Resistance at +23 °C
Acetic acid		●●
Acetone		●●●
Acetylene		●●●
Aluminium salts	aqueous	●●●
Ammonia	aqueous	●●●
Amylacetate		●●
Aniline		●●
Antifreeze		●●●
Benzene		●●●
Benzine		●●●
Benzyl alcohol		●
Bromine		●
Butane		●●●
Butanol		●●●
Carbon tetrachloride		●●
Caustic potash	10 %	●●●
Caustic potash	50 %	●●●
Chlorbenzene		●
Chlorine		○
Chloroform		●
Citric acid		●●
Copper sulphate		●●●
Cresol		○
Decalin		●●●
Eatable fat		●●●
Engine oil		●●●
Ethanol		●●●
Ether		●●●
Ethyl acetate		●●●
Ethylene oxide		●●●
Fats		●●●
Fluorine gas		●
Formaldehyde		●●
Formic acid	concentrated	●
Frigen	liquid F12	●●●
Frigen	liquid F22	●
Fuel		●●●
Glycerine		●●●
Glycol		●●●
Heating oil		●●●
Heptane		●●●
Hydraulic oil		●●●
Hydrochloric acid	1%	●●
Hydrochloric acid	10 %	●
Hydrogen peroxide	20 %	●●
Hydrosulphide		●●●
Iodine tincture		○
Iso-octane		●●●
Isopropanol		●●●
Kaliumpermanganat		○
Kerosene		●●●
Lactic acid		●●
Magnesium chloride	10 %	●●●
Mercury		●●●
Methane		●●●
Methanol		●●

Material	Concentration	Resistance at +23 °C
Methylene chloride		●
Milk		●●●
Mineral oil		●●●
Naphthaline		●●●
Nitric acid		○
Nitrobenzene		●●
Oils		●●●
Oleic acid		●●●
Oleum		○
Oxalic acid		●●●
Oxygen		●●●
Ozone		●
Paraffin oil		●●●
Perchlorethylene		●●●
Petroleum		●●●
Petroleum ether		●●●
Phenol		●
Potash		●●●
Propane		●●●
Pyridine		●●●
Salicylic acid		●●●
Sea water		●●●
Silicon oils		●●●
Soap suds		●●●
Soda	10 %	●●●
Soda	50 %	●●●
Sodium chloride	saturated	●●●
Sodium hydroxide	10 %	●●●
Sodium hydroxide	50 %	●●●
Sodium silicate		●●●
Sodium sulphate	concentrated	●●●
Starch		●●●
Stearic acid		●●●
Stearin		●●●
Styrene		●●●
Sulphur dioxide		●●
Sulphuric acid	10 %	●●
Sulphuric acid	concentrated	●
Table salt		●●●
Tallow		●●●
Tartaric acid		●●●
Tetralin		●●●
Toluene		●●●
Transformer oil		●●●
Trichlorethane		●●
Trichlorethylene		●●
Turpentine		●●●
Urea		●●●
Uric acid		●●●
Urine		●●●
Vaseline		●●●
Vinegar		●●●
Water		●●●
Wax		●●●
Xylene		●●●
Zinc chloride	aqueous	●●●

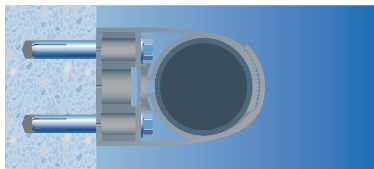
●●● resistant | ●● limited resistance | ● not resistant | ○ soluble, greatly affected

8. Installation/mounting

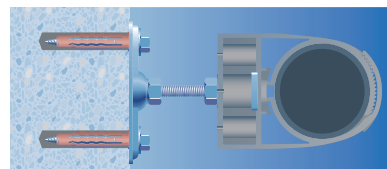


Simply mount CLIC, push pipe in by hand, grips and locks by applying slight pressure.
To open: unlock the CLIC latch with screwdriver.

Examples of concrete base-materials

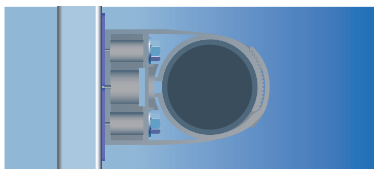


drive-in anchor,
hex-head screw,
washer



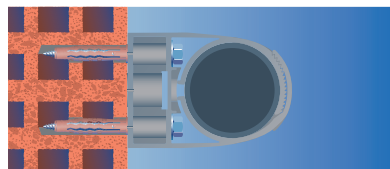
DELTA nylon plug,
hex-head wood screw,
washer,
2-hole base plate,
hexagon nut,
CLIC spacer

Example of mounting on rail



mounting rail,
channel nut,
hex-head screw,
washer

Example of brickwork base-materials



DELTA nylon plug,
hex-head screw,
washer

9. Testings/authorizations/specifications/compliance

UL
REACH, RoHS

10. Safety data sheet

not required

11. Manufacturer/brand/production

EFCO Fixing Technology Ltd
Grabenstrasse 1 · 8606 Nänikon · Switzerland

clic[®] CLIC is a registered international trademark of EFCO and is 100 % Swiss made.
The CLIC technology is protected by Swiss and international patents held by EFCO.

12. Accessories

Further accessories, e.g. spacers, base plates for multiple mountings, are available at the EFCO Shop (online) or are listed in the EFCO catalogue (print or PDF).

13. Links/downloads

For further information:

EFCO Website/EFCO Shop <http://www.efco.swiss>
CLIC-Website <http://www.clic-original.com>

The recommendations and data given are based on our experience to date and are standard values. No liability can be assumed in connection with their usage and processing. In individual cases the chemical resistance has to be verified by your own testings. For further technical information please refer to EFCO.