TECHNICAL DATA SHEET

Plastic pipe clamp CLIC TOP 8–64

1. Product description

The most efficient mounting system for pipes, cables and many other applications.
Diameter dimensions ranging from 8 to 64 mm for the exterior and the indoor area, as well as tunnels.

2. Application areas

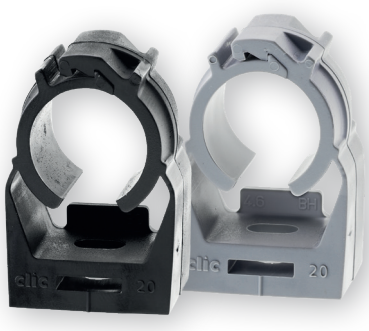
- Electrical installation of all kinds in the indoor and exterior area
- Installation technology, installation of small pipes, also in wet locations
- Installations within the chemical industry, due to high chemical resistance
- Tunnels, fixing of coaxial cables

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: KIWA (ø 8–51 mm), UL (1565/2043)
- 100 % made in Switzerland

4. Material data

Material quality	Polyamide PA 12
Density at +20 °C	1.01 g/cm³
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/m²
Impact value (Charpy, –30 °C)	6 kJ/m²
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) black (similar to RAL 9011)

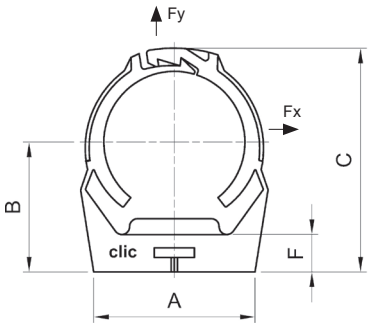


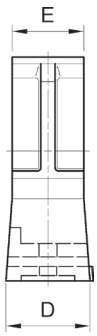
TECHNICAL DATA SHEET – CLIC TOP 8–64

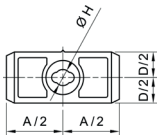
5. Technical data

Type	Clamping range [mm]		A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	H*		Breaking load [N]	
	min.	max.							wood [mm]	metric	Fy/Fx	@ 23 °C
8	7.8	9.5	17.1	17.5	26.4	17.1	14.5	7.5	3.5	M6	170	
10	9.5	11.8	17.1	17.5	26.2	17.1	14.5	7.5	3.5	M6	185	
12	11.8	14.3	20.2	19.5	28.3	17.2	14.5	7.5	3.5	M6	200	
15	14.3	16.8	20.6	18.8	32.0	17.1	14.5	7.5	3.5	M6	220	
17	16.8	19.5	22.5	23.7	35.4	19.5	16.0	7.8	4.5	M6	235	
20	19.5	21.8	24.8	24.9	39.4	20.0	16.3	7.8	4.5	M6	250	
22	21.8	24.8	27.8	26.0	42.0	20.0	16.5	7.8	4.5	M6	270	
25	24.8	27.8	30.4	28.0	45.1	20.0	17.0	8.8	4.5	M6	300	
28	27.8	31.2	33.4	31.7	48.9	20.2	17.0	8.8	4.5	M6	320	
32	31.2	35.5	38.0	34.5	54.4	21.0	17.5	9.0	4.5	M6 / M8	370	
36	35.5	39.5	41.8	36.5	59.4	21.0	18.0	9.1	4.5	M6 / M8	400	
40	39.5	43.5	46.2	38.2	64.2	21.0	18.6	9.4	4.5	M6 / M8	440	
47	46.5	50.5	53.5	43.0	72.8	22.0	19.5	9.8	4.5	M6 / M8	470	
51	50.5	55.5	58.6	46.8	78.7	23.0	20.0	10.2	4.5	M6 / M8	500	
59	58.5	64.0	66.3	52.0	88.2	23.2	21.0	10.7	4.5	M6 / M8	540	

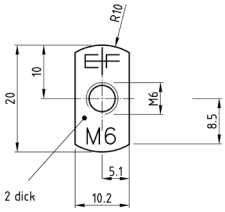
* H = screw diameter; wood screw (wood) / metal screw (metric)



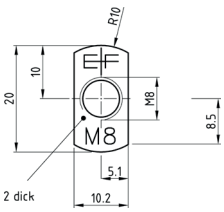




Bottom view



CLIC flange M6



CLIC flange M8

6. Selection guide

Type	Steel pipe		Copper pipe	Cast iron pipe	PE pipe	PVC pipe	Cable-ducts	Coaxial cable	Certification		Breaking load [N]	
	mm	inch	mm	mm	mm	mm	metric measures M	inch	Kiwa	UL	Fy/Fx	@ 23 °C
8							8		✓	✓	170	
10			10				10		✓	✓	185	
12	13.5	¼"	12				12		✓	✓	200	
15			15			16	16	½"	✓	✓	220	
17	17.2	⅜"	18						✓	✓	235	
20	21.3	½"				20	20	⅝"	✓	✓	250	
22			22						✓	✓	270	
25	26.9	¾"				25	25		✓	✓	300	
28			28					⅞"	✓	✓	320	
32	33.7	1"	35		32	32	32		✓	✓	370	
36								1¼"	✓	✓	400	
40	42.4	1¼"	42		40		40		✓	✓	440	
47	48.3	1½"		48	50	50	50	1⅝"	✓	✓	470	
51			54						✓	✓	500	
59	60.3	2"	64			63				✓	540	

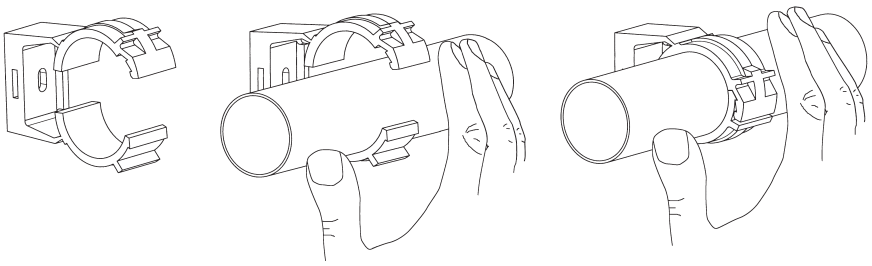
7. Chemical resistance

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		●●●
Eatible 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 perioxide	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	●●●

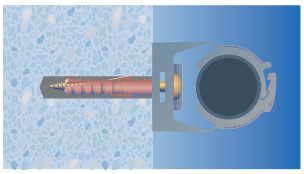
●●● resistant | ●● limited resistance | ● not resistant | ❍ soluble, greatly affected

8. Installation/mounting

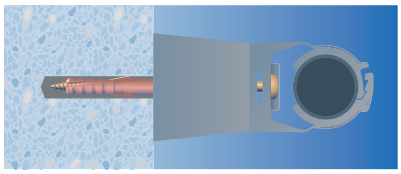


Simply mount CLIC, push pipe in by hand, grips and locks by applying slight pressure.
To open: unlock the CLIC latch with screwdriver.

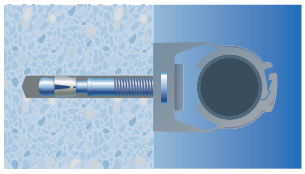
Examples of concrete base-materials



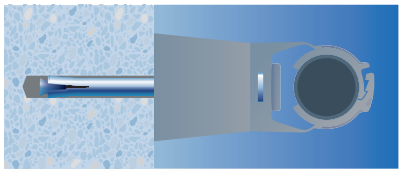
wood screw,
DELTA nylon plug



wood screew,
CLIC spacer,
DELTA nylon plug

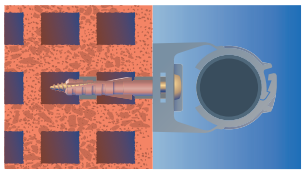


TILCA anchor bolt,
CLIC flange or
TILCA fire resisting anchor,
CLIC flange or
TILCA nail plug,
CLIC flange

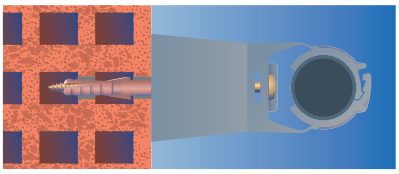


CLIC spacer,
TILCA fire resisting anchor,
CLIC flange

Examples of brickwork base-materials



wood screw,
DELTA nylon plug or
TILCA nail plug



wood screw,
CLIC spacer,
DELTA nylon plug

9. Testings/authorizations/specifications/compliance

KIWA (ø 8–51mm)
UL
REACH, RoHS

10. Safety data sheet

not required

11. Manufacturer/brand/production

EFCO Fixing Technology Ltd
Grabenstrasse 1 · 8606 Nänikon · Switzerland

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