

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	1.01g/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) black (similar to RAL 9011)

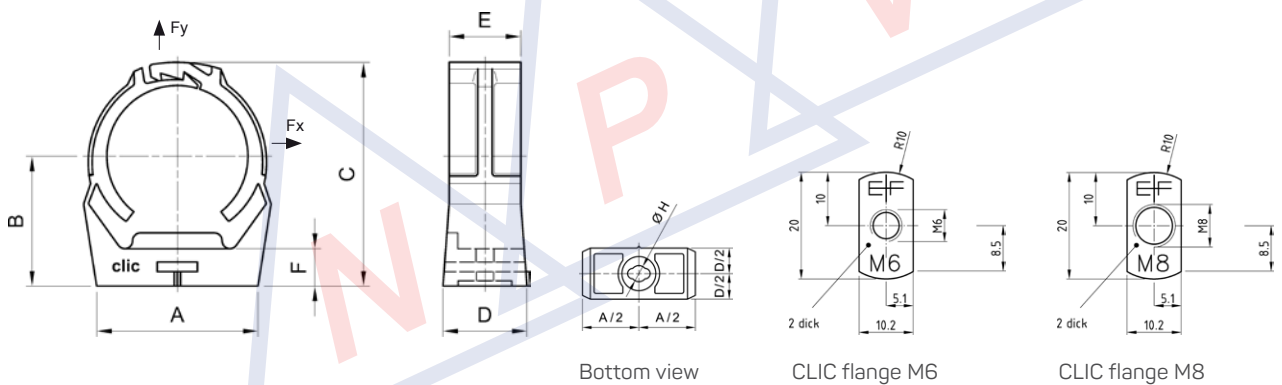


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5. Technical data

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**
8	7.8	9.5	171	175	26.4	171	14.5	7.5	3.5	M6	280	250
10	9.5	11.8	171	175	26.2	171	14.5	7.5	3.5	M6	420	380
12	11.8	14.3	20.2	19.5	28.3	172	14.5	7.5	3.5	M6	420	380
15	14.3	16.8	20.6	18.8	32.0	171	14.5	7.5	3.5	M6	500	450
17	16.8	19.5	22.5	23.7	35.4	19.5	16.0	7.8	4.5	M6	650	590
20	19.5	21.8	24.8	24.9	39.4	20.0	16.3	7.8	4.5	M6	700	630
22	21.8	24.8	27.8	26.0	42.0	20.0	16.5	7.8	4.5	M6	750	680
25	24.8	27.8	30.4	28.0	45.1	20.0	17.0	8.8	4.5	M6	850	770
28	27.8	31.2	33.4	31.7	48.9	20.2	17.0	8.8	4.5	M6	900	810
32	31.2	35.5	38.0	34.5	54.4	21.0	17.5	9.0	4.5	M6 / M8	1000	900
36	35.5	39.5	41.8	36.5	59.4	21.0	18.0	9.1	4.5	M6 / M8	1100	990
40	39.5	43.5	46.2	38.2	64.2	21.0	18.6	9.4	4.5	M6 / M8	1150	1040
47	46.5	50.5	53.5	43.0	72.8	22.0	19.5	9.8	4.5	M6 / M8	1300	1170
51	50.5	55.5	58.6	46.8	78.7	23.0	20.0	10.2	4.5	M6 / M8	1400	1260
59	58.5	64.0	66.3	52.0	88.2	23.2	21.0	10.7	4.5	M6 / M8	1600	1440

* H = screw diameter; wood screw (wood) / metal screw (metric)
 ** with screw DIN 96 at +20 °C, safety factor must be considered!



6. Selection guide

Type	Steel pipe		Copper pipe mm	Cast iron pipe mm	PE pipe mm	PVC pipe mm	Cable-ducts metric measures M	Coaxial cable inch	Certification		Breaking load [N]	
	mm	inch							Kiwa	UL	Fy**	Fx**
8							8		✓	✓	280	250
10			10				10		✓	✓	420	380
12	13.5	½"	12				12		✓	✓	420	380
15			15			16	16	½"	✓	✓	500	450
17	17.2	¾"	18						✓	✓	650	590
20	21.3	½"				20	20	¾"	✓	✓	700	630
22			22						✓	✓	750	680
25	26.9	¾"				25	25		✓	✓	850	770
28			28					7/8"	✓	✓	900	810
32	33.7	1"	35		32	32	32		✓	✓	1000	900
36								1¼"	✓	✓	1100	990
40	42.4	1¼"	42		40	40	40		✓	✓	1150	1040
47	48.3	1½"		48	50	50	50	1¾"	✓	✓	1300	1170
51			54						✓	✓	1400	1260
59	60.3	2"	64			63			✓	✓	1600	1440

** with screw DIN 96 at +20 °C, safety factor must be considered!

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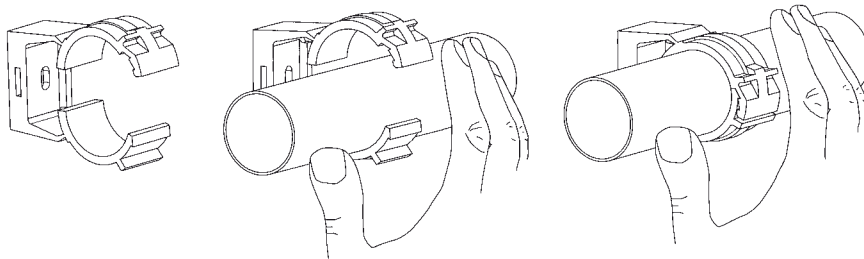
7. Chemical resistance

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		●●●
Perchloroethylene		●●●
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	●●●

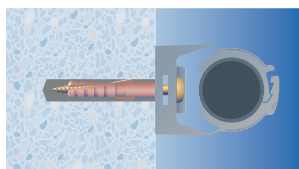
●●● resistant | ●● limited resistance | ● not resistant | ○ soluble, greatly affected

8. Installation/mounting

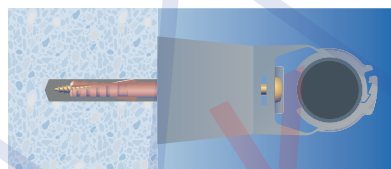


Simply mount CLIC, push pipe in by hand, grips and locks by applying slight pressure.
To open: unlock the CLIC latch with screwdriver.

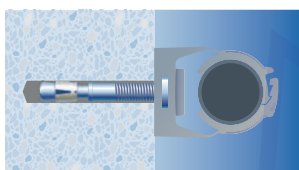
Examples of concrete base-materials



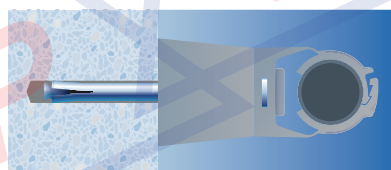
wood screw,
DELTA nylon plug



wood screw,
CLIC spacer,
DELTA nylon plug

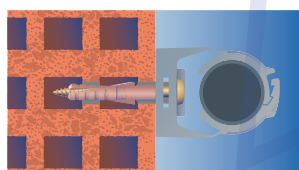


TILCA anchor bolt,
CLIC flange or
TILCA fire resisting anchor,
CLIC flange or
TILCA nail plug,
CLIC flange

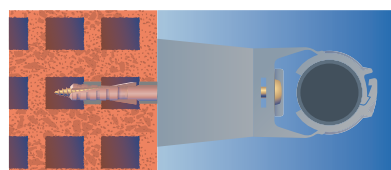


CLIC spacer,
TILCA fire resisting anchor,
CLIC flange

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 8-51 mm)
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.

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.