TECHNICAL DATA SHEET

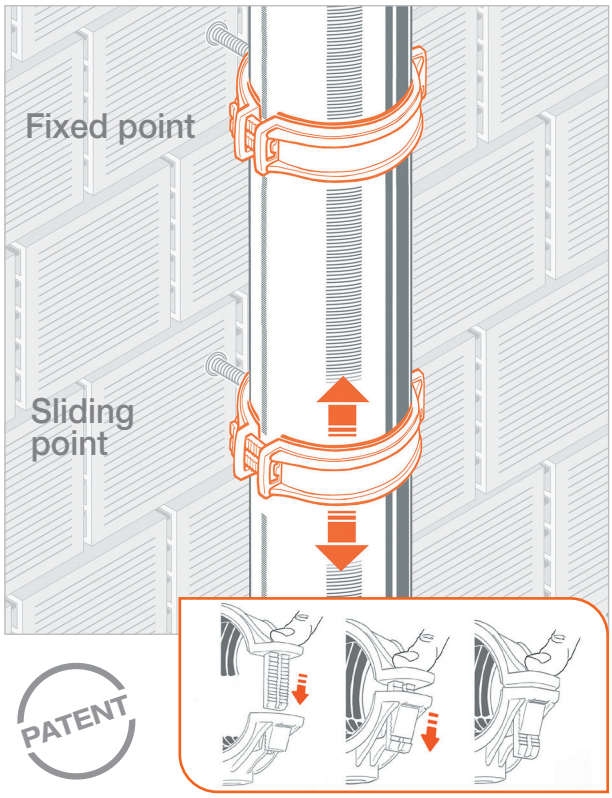
FLIP SI
Fast locking super soundproof pipe clamp

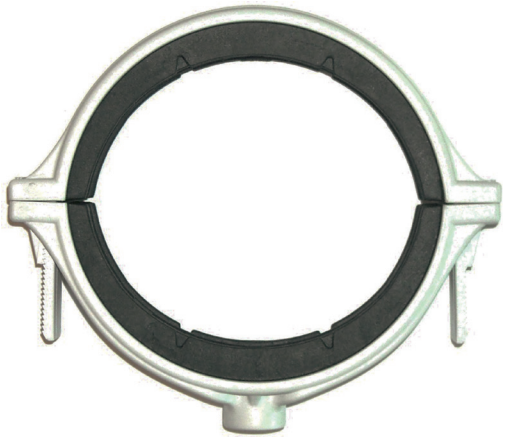
APPLICATION

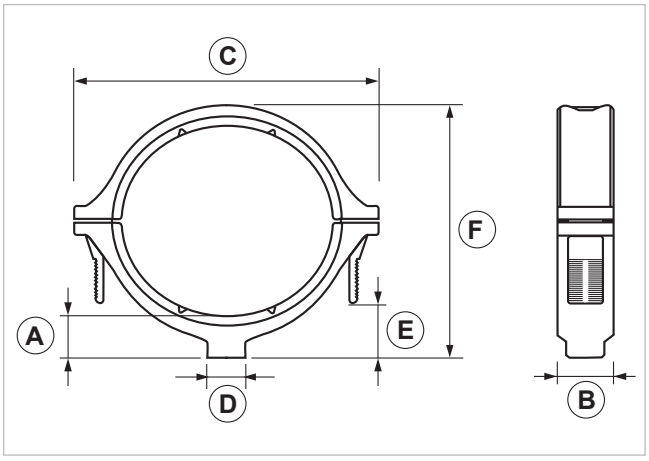
Pipe lines fastening for water and sanitary systems, and drainage systems (either regular and insulated).

FEATURES AND BENEFITS

> It can be closed with the **simple fingers pressure**. No tools are required.
> **Super Soundproof:** thanks to the sheath's thickness and material, it can reduce vibrations and the spread of noise to a minimum.
> The **PA 6.6 material** makes it particularly **long-lasting and resistant** to atmospheric agents, UV rays and corrosion.
> It is recommended **for every kind of pipe lines**.
> The locking system is adjustable in order to allow the creation of both **fixed and sliding points on the same pipe clamp**.
> Available in **grey and brown versions** to guarantee the best looking result in every kind of application.







COD	TYPE	For pipes Ø mm	Color	A	B	C	D	F
180845	FLIP SI 90	84-90	Grey	26	30	136	M8-M10	117
180850	FLIP SI 110	110-125	Grey	26	30	155	M10	132
180855	FLIP SI 125	125-135	Grey	24	30	182	M10	155
180945	FLIP SIM 90	84-90	Brown	26	30	136	M8-M10	117
180950	FLIP SIM 110	100-110	Brown	26	30	155	M10	132
180955	FLIP SIM 125	125-135	Brown	24	30	182	M10	155

FLIP® SYSTEM

PIPE CLAMPS AND PIPE LINES FIXINGS

MATERIALS TECHNICAL DATA

MATERIAL

Polyamide PA 6.6 stabilized against UV rays

AVAILABLE COLORS

Grey RAL 7035 | Brown RAL 8014

VIBRATION-PROOF RUBBER

Vibration-proof sheath with black EPDM thermoplastic elastomer

HARDNESS

60 Shore A

INSERT

Brass CW614N

TEMPERATURE

-20°C | +100°C

PERFORMANCE UNDER FIRE SITUATIONS - Body and seal

Self-extinguishment according to UL94 regulation: “V2” class | “HB” class

DIMENSIONS

Type	FlipSI 84-90	FlipSI 100-110	FlipSI 125-135	Tol.
Inch	3″	4″	5″	-
Diameter	84-90	100-110	125-135	-
H	117	132	155	± 1
L	136	155	182	± 1
S	30	30	30	± 0.5
A	26	26	24	± 1
B	29	28	38	± 1
Ø Brass insert	M8-M10	M10	M10	-
		Blind insert	Blind insert	
Weight (g)	114	134	149	± 1

Values are expressed in mm when not differently specified.

RESISTANCE

Recommended loads [1] - No influences				
Type	*** FlipSI 84-90**	**FlipSI 100-110**	**FlipSI 125-135**	**Unit of measurement**
Diameter	3″	4″	5″	Inch
Traction	1,70	1,30	1,80	kN
Shear	0,40	0,85	1,30	kN

*Flip 84-90 is produced in two versions: Soundproof and Super-soundproof. The difference between the two is related to the thickness of both the insulating rubber and the EPDM sheath, but also to their shape.Data refer to the soundproof version.

All tests were carried out at the EQI-European Quality Institute Srl certified laboratory.
All values are expressed in mm if not differently specified.
All levels of tensile strength and shear resistance are average values and they are related to the break of the testing item. A safety coefficient of 3 has been used. 1 kN=100 kg

Resistenza chimica ai reagenti					
Reagent	**Notes about reagent**	**Temp. (°C)**	**Time (days)**	**PDL RATING[4]**	**Notes about resistance**
Fuel		23		8	Very good resistance
Motor oil		81	3	6	
	5W30	23	60	9	
Mineral oil		23		8	Resistant
		93	1	1	
Ethylene qlycol		23	56	6	Little changes in properties
		23	7	6	
Petrol	Gas oil	23		8	Very good resistance
	Lead-free petrol	23	21	9	
Diesel		22	30	9	
	Diesel oil	23		8	Resistant

This evaluation has been developed by PDL and it has a maximum value of 10 and a minimum value of 1.
Bibliografy: CHEMICAL RESISTANCE, vol. I - Thermoplastics, Second Edition, PDL Handbook Series, Plastic Design Library, 13 Eaton avenue Norwich, NY.

FLIP® SYSTEM
PIPE CLAMPS AND PIPE LINES FIXINGS

ACOUSTICS IN DRAINAGE SYSTEMS

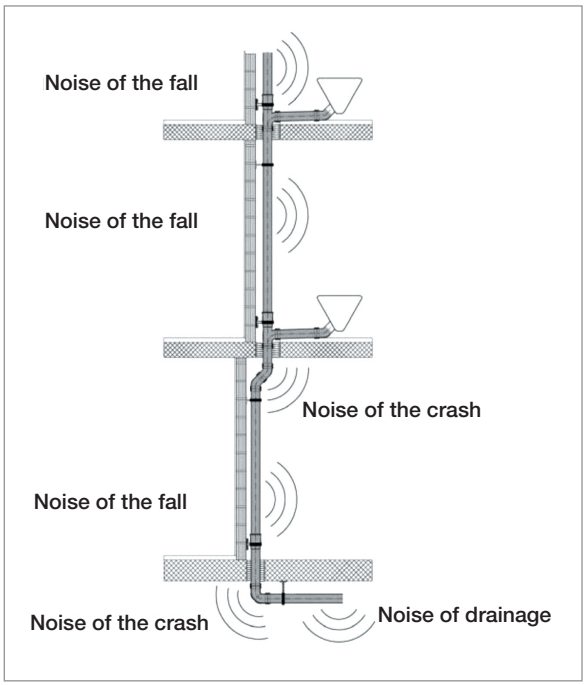
The noises produced by drainage systems are caused by **pipe lines vibration**, which is generated by the fall of waste liquids which:

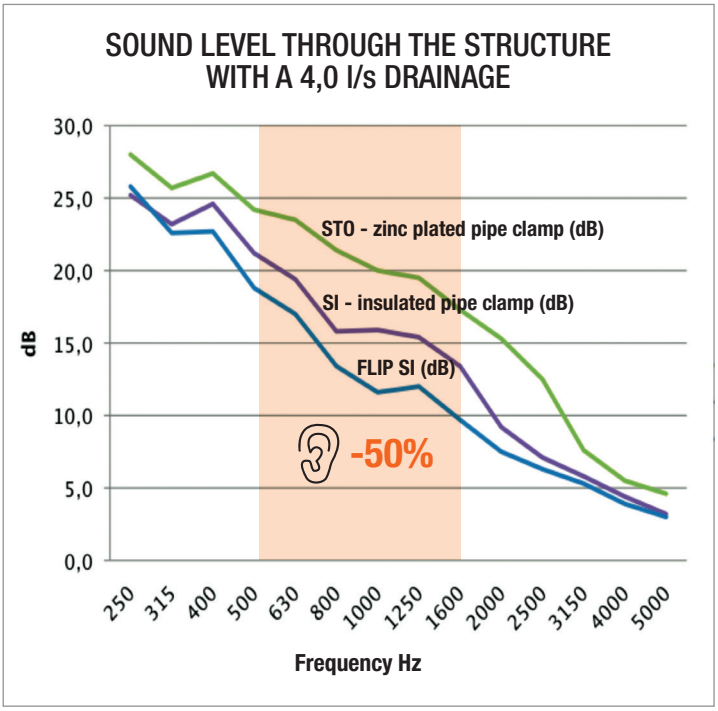
- lap the walls of the vertical pipe line;
- hit against the joints walls when changing directions;
- flow in the horizontal pipe lines.

The noise that is spread by a drainage system can occur either by air or by structure, spreading from the pipe lines to the whole building via the fixing system.

Therefore, the technical features of the fixing system play a major role in reducing the amount of noise in such plumbing systems.

FLIP SI pipe clamps are characterized by super soundproof qualities which allow them to significantly reduce the noise spread when compared to those fixings that are still built with traditional pipe clamps.





Laboratory test provided by Istituto Giordano (Gatteo ,FC, Italy) to measure the amount of noise produced by waste water systems according to the UNI EN 14366:2005 regulation.

Technical reports are available on request, by texting to:

assistenza@gia.it

ISTITUTO GIORDANO

RAPPORTO DI PROVA N. 317866
TEST REPORT No. 317866

Luogo e data di emissione: Bellaria-Igea Marina - Italia, 31/07/2014
Place and date of issue:
Committente: GIA S.p.A. - Via Sac. A. Cremona, 12 - 28069 TRECATE (NO) - Italia
Customer:
Data della richiesta della prova: 09/06/2014
Date testing requested:
Numero e data della commessa: 63392, 09/06/2014
Order number and date:
Data del ricevimento del campione: 04/06/2014
Date sample received:
Data dell'esecuzione della prova: 21/07/2014
Date of testing:
Oggetto della prova: misurazione in laboratorio del rumore emesso dagli impianti di acque reflue secondo la norma UNI EN 14366:2005
Purpose of testing: laboratory measurements of noise from waste water installation according to standard UNI EN 14366:2005
Luogo della prova: Istituto Giordano S.p.A. - Via Erbosa, 78 - 47043 Gatteo (FC) - Italia
Place of testing:
Provenienza del campione: campionato e fornito dal Committente
Origin of sample: sampled and supplied by the Customer
Identificazione del campione in accettazione: n. 2014/1591/C
Identification of sample received:

Denominazione del campione*.
Sample name.*

Il campione sottoposto a prova è denominato "FLIP SI - COLLARE SUPER ISOFONICO".
The test sample is called "FLIP SI - FAST LOCK PIPE CLAMP".

(*) Secondo le dichiarazioni del Committente.
According to information supplied by the Customer.

Comp. AV Revis. RB

Il presente rapporto di prova è composto da n. 18 fogli ed è emesso in formato bilingue (italiano e inglese); in caso di dubbio, è valida la versione in lingua italiana.
This test report is made up of 18 sheets and is issued in bilingual format (italian and English); in case of dispute the only valid version is the italian one.

Foglio / *sheet* 1 / 18

INSTALLATION

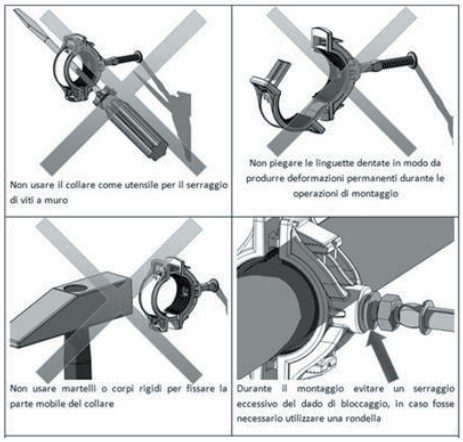
SI FLIP - Super soundproof pipe clamp can be easily and quickly installed by using a threaded rod or a 12 mechanical plug (e.g. 12TN), with a M10 connecting screw.
Make a Ø12mm hole as deep as needed for the plug to be inserted. Screw the connecting screw in the plug and tighten the FLIP SI's fixed part to the M10 insert.
You can quickly fasten the pipe line just by pressing the moving part on the fixed one until the pipe line is locked. The rubber warps making the pipe clamp better adhere to the pipe line. It is possible to create either fixed or sliding points on the installation by keeping the pipe clamp more or less locked on the pipe line. In case of particularly long pipe lines, tools able to compensate for expansion are to be considered.

Thanks to the so called Apriflip tool - made up of two Philips screwdrivers, with Ø3mm - it is very easy to open the pipe clamp. You just have to completely insert the Apriflip's pivots into the specific hole of the clamp and pull out: doing so the moving part gets free and the pipe line can be removed.

INSTALLATION TOOLS AND RECOMMENDATIONS

At low temperatures the pipe clamp tend to lose the flexibility needed during installation, and its resistance to crash decreases (low temperatures help to guarantee a good endurance of the clamp once it has been installed). Avoid hitting the moving part of the pipe clamp with a hammer in order to close it because it might damage the serrated splines.
While using the clamp, the highest temperature affordable is 100°C.

Don't keep the splines out of shape for long in order not to compromise their functionality.
The flexibility of the material allows you to close the pipe clamp in the first place, and to open it again later on. If the splines have been deformed due to a wrong use of the item, make them rest (do not assemble them together) until they recover their original shape.



PACKAGING

In plastic bags

STORAGE

Storage items at a temperature higher than 10°C: at low temperatures the pipe clamps loses the flexibility that is needed during the installation.

RELATED ITEMS

> FLIP System product range

DATA 09-2022 REV. 01
The current technical data sheet substitutes and cancels the previous ones. The details provided fit our current knowledge of the product. It cannot lead us to any sort of responsibility or compensation.
Gia S.p.A. reserves the right of changing technical features and molds without notice.
This company is subject to "Ethica Global Investments S.p.A." management.

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