

S A F E T Y 3 6 0
I N 1 L A P



CATALOG

METAL 
MATRIX
CLAMPS



360 DEGREES,
A COMPLETE LAP THAT
INVOLVES EVERY POINT,
FROM EVERY ANGLE.
IT IS THE TOTAL,
SAFE AND RELIABLE
CLOSURE.

For over 20 years, Metalmatrix has been manufacturing clamps with safety, quality and innovation.

For the automotive, agricultural, metallurgical, electrical, naval, construction industries, meeting the market needs, its requirements and **international** standards from all over Brazil and abroad.

After all, the world is 360, just like us.

Welcome to the Metalmatrix catalog!
Here you find Safety 360 in 1 lap.

www.metalmatrix.com.br

METAL 
MATRIX
CLAMPS

CERTIFICATIONS THAT ASSURE THE QUALITY EXCELLENCE OF METALMATRIX

In order to offer products worldwide, Metalmatrix has **certifications to qualify the produced clamps in more than 10 countries served.**

The ISO 9001 certification attests the quality present in the brand's products and the IATF 16949 makes the company fully capable to serve the automotive market with excellence. All of this makes Metalmatrix a proven reference in the areas in which it operates, carrying all the knowledge acquired for more than two decades.

In addition, the team identifies day by day new expectations and challenges that lead the company to bring innovations from the future to the present day and, with that, make the market even more qualified with the products of Metalmatrix.

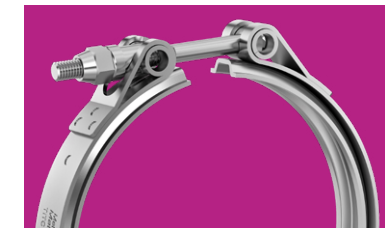


**QUALITY IS TAKEN SERIOUSLY
IN METALMATRIX.**

SUMMARY



HEAVY DUTY **06**



V-MAX **11**



NEW MINOR - WORM DRIVE **13**



EAR CLAMP **19**



SPRINGBAND **21**



NORMIX - FUEL INJECTION **22**



REINFORCED **23**



CLIP **25**



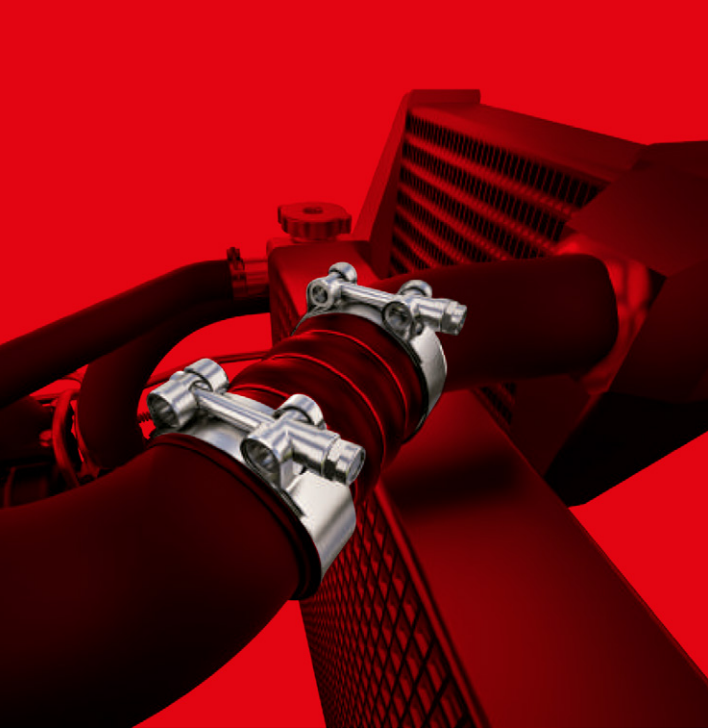
"U" TYPE **27**



NYLON **29**



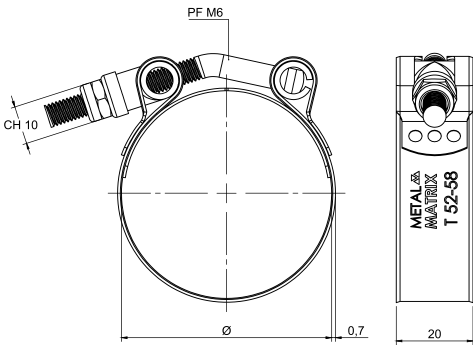
KITS **30**



HEAVY DUTY

“T” BOLT CLAMP

Material: stainless steel AISI 304 and S400 Series
Maximum torque: 10 Nm
Recommended application torque: 8 Nm
Band width: 20mm
Band thickness: 0,7mm



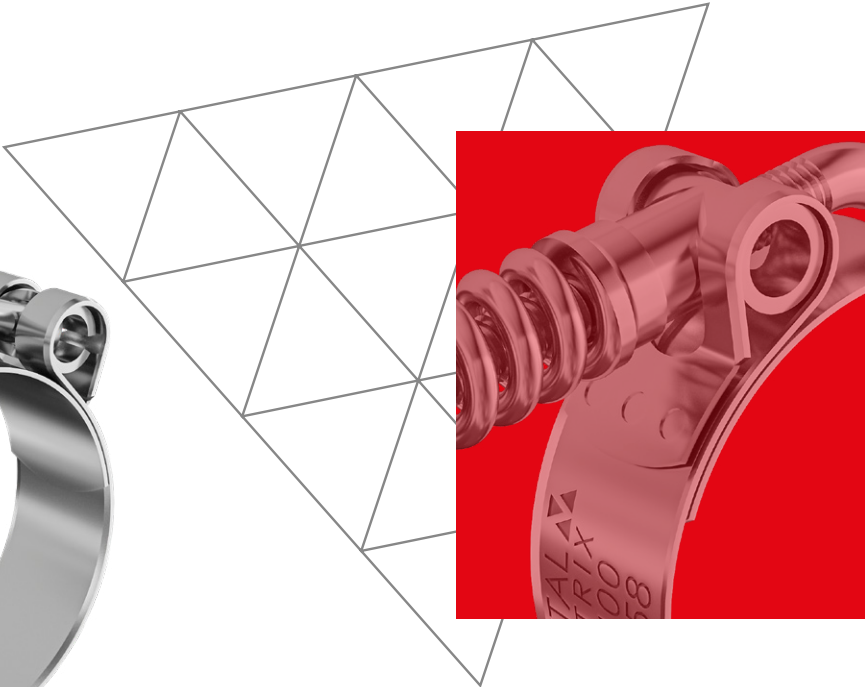
CODE		Ø (mm)		Ø (inches)		QTY PACKING
Stainless Steel AISI 304	Stainless Steel S400	Min	Max	Min	Max	
TIT2430	TSP2430	24	30	1"	1.3/16"	10
TIT2834	TSP2834	28	34	1.1/8"	1.3/8"	10
TIT3238	TSP3238	32	38	1.5/16"	1.1/2"	10
TIT3642	TSP3642	36	42	1.7/16"	1.11/16"	10
TIT4046	TSP4046	40	46	1.5/8"	1.13/16"	10
TIT4450	TSP4450	44	50	1.3/4"	2"	10
TIT4854	TSP4854	48	54	1.15/16"	2.3/16"	10
TIT5258	TSP5258	52	58	2.1/16"	2.5/16"	10
TIT5765	TSP5765	57	65	2.1/4"	2.9/16"	10
TIT6371	TSP6371	63	71	2.1/2"	2.13/16"	10
TIT6877	TSP6877	68	77	2.11/16"	3.1/16"	10
TIT7483	TSP7483	74	83	2.15/16"	3.5/16"	10
TIT8089	TSP8089	80	89	3.3/16"	3.9/16"	10
TIT8392	TSP8392	83	92	3.5/16"	3.5/8"	10
TIT8695	TSP8695	86	95	3.7/16"	3.3/4"	10
TIT92101	TSP92101	92	101	3.5/8"	4"	10
TIT96108	TSP96108	96	108	3.13/16"	4.5/16"	10
TIT104116	TSP104116	104	116	4.1/8"	4.5/8"	10
TIT112124	TSP112124	112	124	4.7/16"	4.15/16"	10
TIT120132	TSP120132	120	132	4.3/4"	5.1/4"	10
TIT128140	TSP128140	128	140	5.1/16"	5.9/16"	10
TIT136148	TSP136148	136	148	5.3/8"	5.7/8"	10
TIT146158	TSP146158	146	158	5.3/4"	6.1/4"	10

For industrial and vehicular applications. Designed for thin flexible hoses, it has excellent durability and strength performance. It features contoured edges to ensure the integrity of the hoses and the system. Reuse of the product is not recommended.

HEAVY DUTY

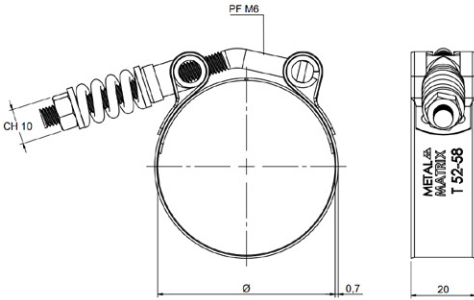
“T” BOLT SPRING CLAMP

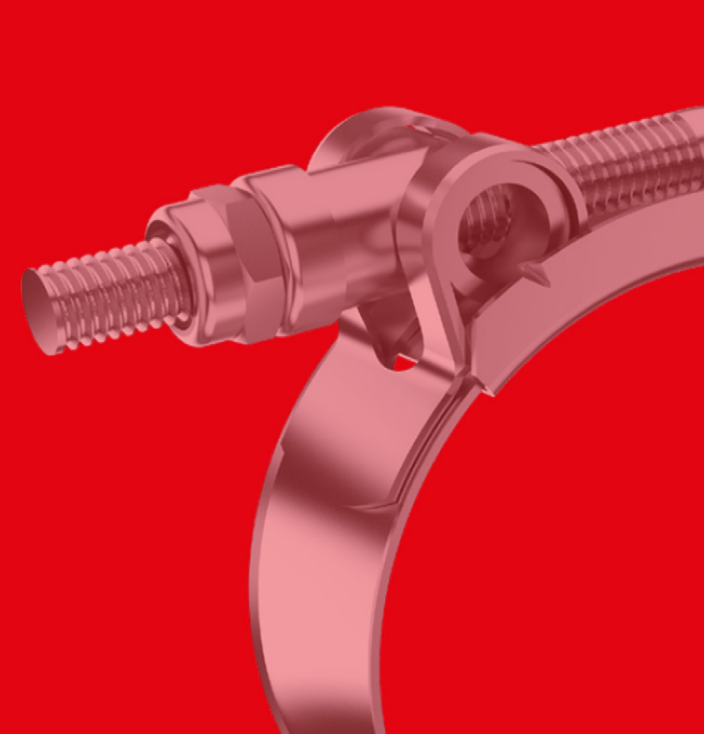
Material: stainless steel AISI 304 and S400 Series
Maximum torque: 10 Nm
Recommended application torque: 8 Nm
Band width: 20mm
Band thickness: 0,7mm



CODE		Ø (mm)		Ø (inches)		QTY PACKING
Stainless Steel AISI 304	Stainless Steel S400	Min	Max	Min	Max	
TIM2430	TSM2430	24	30	1"	1.3/16"	10
TIM2834	TSM2834	28	34	1.1/8"	1.3/8"	10
TIM3238	TSM3238	32	38	1.5/16"	1.1/2"	10
TIM3642	TSM3642	36	42	1.7/16"	1.11/16"	10
TIM4046	TSM4046	40	46	1.5/8"	1.13/16"	10
TIM4450	TSM4450	44	50	1.3/4"	2"	10
TIM4854	TSM4854	48	54	1.15/16"	2.3/16"	10
TIM5258	TSM5258	52	58	2.1/16"	2.5/16"	10
TIM5765	TSM5765	57	65	2.1/4"	2.9/16"	10
TIM6371	TSM6371	63	71	2.1/2"	2.13/16"	10
TIM6877	TSM6877	68	77	2.11/16"	3.1/16"	10
TIM7483	TSM7483	74	83	2.15/16"	3.5/16"	10
TIM8089	TSM8089	80	89	3.3/16"	3.9/16"	10
TIM8392	TSM8392	83	92	3.5/16"	3.5/8"	10
TIM8695	TSM8695	86	95	3.7/16"	3.3/4"	10
TIM92101	TSM92101	92	101	3.5/8"	4"	10
TIM96108	TSM96108	96	108	3.13/16"	4.5/16"	10
TIM104116	TSM104116	104	116	4.1/8"	4.5/8"	10
TIM112124	TSM112124	112	124	4.7/16"	4.15/16"	10
TIM120132	TSM120132	120	132	4.3/4"	5.1/4"	10
TIM128140	TSM128140	128	140	5.1/16"	5.9/16"	10
TIM136148	TSM136148	136	148	5.3/8"	5.7/8"	10
TIM146158	TSM146158	146	158	5.3/4"	6.1/4"	10

It offers the same standard of durability, torque and quality as the “T” Bolt clamps, providing a constant tightening and compensating, through the spring, variations in diameter due to temperature changes or hose accommodation. It features contoured edges to ensure the integrity of the hoses and the system. Reuse of the product is not recommended.

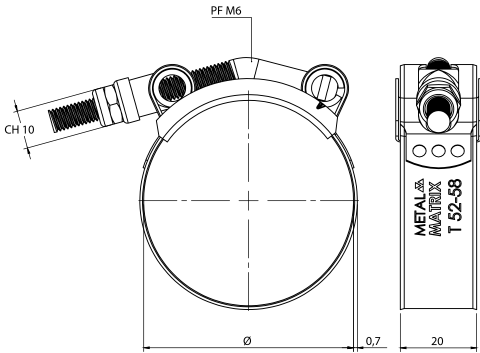
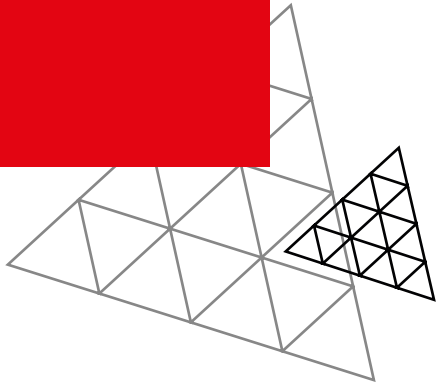




HEAVY DUTY

“T” BOLT BRIDGE

Material: stainless steel AISI 304 and S400 Series
Maximum torque: 10 Nm
Recommended application torque: 8 Nm
Band width: 20mm
Band thickness: 0,7mm



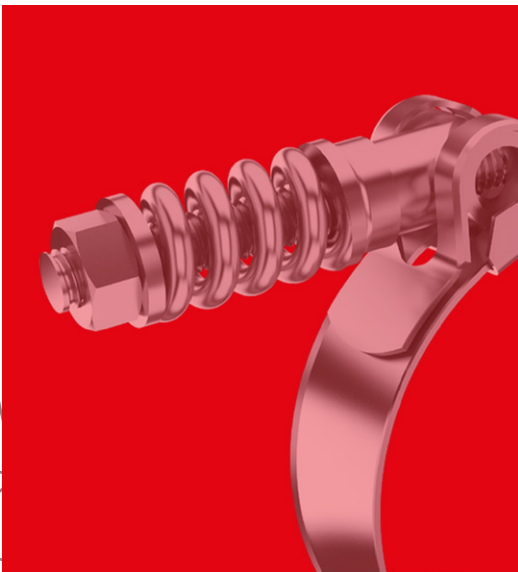
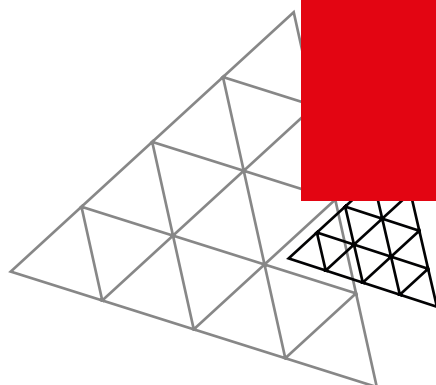
CODE		Ø (mm)		Ø (inches)		QTY PACKING
Stainless Steel AISI 304	Stainless Steel S400	Min	Max	Min	Max	
TITP5258	TSTP5258	52	58	2.1/16"	2.5/16"	10
TITP5765	TSTP5765	57	65	2.1/4"	2.9/16"	10
TITP6371	TSTP6371	63	71	2.1/2"	2.13/16"	10
TITP6877	TSTP6877	68	77	2.11/16"	3.1/16"	10
TITP7483	TSTP7483	74	83	2.15/16"	3.5/16"	10
TITP8089	TSTP8089	80	89	3.3/16"	3.9/16"	10
TITP8392	TSTP8392	83	92	3.5/16"	3.5/8"	10
TITP8695	TSTP8695	86	95	3.7/16"	3.3/4"	10
TITP92101	TSTP92101	92	101	3.5/8"	4"	10
TITP96108	TSTP96108	96	108	3.13/16"	4.5/16"	10
TITP104116	TSTP104116	104	116	4.1/8"	4.5/8"	10
TITP112124	TSTP112124	112	124	4.7/16"	4.15/16"	10
TITP120132	TSTP120132	120	132	4.3/4"	5.1/4"	10
TITP128140	TSTP128140	128	140	5.1/16"	5.9/16"	10
TITP136148	TSTP136148	136	148	5.3/8"	5.7/8"	10
TITP146158	TSTP146158	146	158	5.3/4"	6.1/4"	10

Used in industrial and vehicular applications. It is designed for high thickness rigid and semi-rigid hoses. It has excellent performance of durability and strength. It features contoured edges to ensure the integrity of the hoses and the system. Reuse of the product is not recommended.

HEAVY DUTY

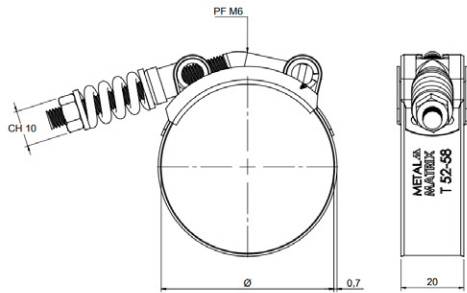
“T” BOLT SPRING BRIDGE

Material: stainless steel AISI 304 and S400 Series
Maximum torque: 10 Nm
Recommended application torque: 8 Nm
Band width: 20mm
Band thickness: 0,7mm



CODE		Ø (mm)		Ø (inches)		QTY PACKING
Stainless Steel AISI 304	Stainless Steel S400	Min	Max	Min	Max	
TIMP5258	TSMP5258	52	58	2.1/16"	2.5/16"	10
TIMP5765	TSMP5765	57	65	2.1/4"	2.9/16"	10
TIMP6371	TSMP6371	63	71	2.1/2"	2.13/16"	10
TIMP6877	TSMP6877	68	77	2.11/16"	3.1/16"	10
TIMP7483	TSMP7483	74	83	2.15/16"	3.5/16"	10
TIMP8089	TSMP8089	80	89	3.3/16"	3.9/16"	10
TIMP8392	TSMP8392	83	92	3.5/16"	3.5/8"	10
TIMP8695	TSMP8695	86	95	3.7/16"	3.3/4"	10
TIMP92101	TSMP92101	92	101	3.5/8"	4"	10
TIMP96108	TSMP96108	96	108	3.13/16"	4.5/16"	10
TIMP104116	TSMP104116	104	116	4.1/8"	4.5/8"	10
TIMP112124	TSMP112124	112	124	4.7/16"	4.15/16"	10
TIMP120132	TSMP120132	120	132	4.3/4"	5.1/4"	10
TIMP128140	TSMP128140	128	140	5.1/16"	5.9/16"	10
TIMP136148	TSMP136148	136	148	5.3/8"	5.7/8"	10
TIMP146158	TSMP146158	146	158	5.3/4"	6.1/4"	10

Used in industrial and vehicular applications. It is designed for high thickness rigid and semi-rigid hoses. It has excellent performance of durability and strength. It features contoured edges to ensure the integrity of the hoses and the system. Reuse of the product is not recommended.

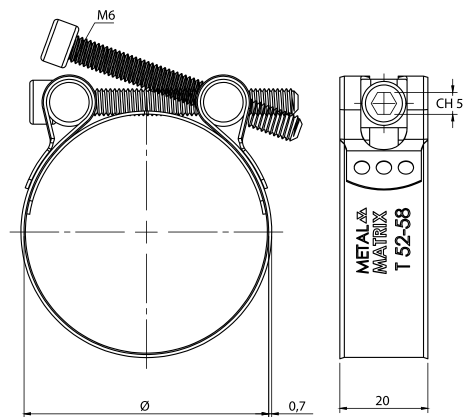




HEAVY DUTY

“T” BOLT QUICK RELEASE

Material: stainless steel S400 Series
Maximum torque: 10 Nm
Recommended application torque: 8 Nm
Band width: 20mm
Band thickness: 0,7mm



CODE	Ø (mm)		Ø (inches)		QTY PACKING
	Min	Max	Min	Max	
TSF4450	44	50	1.3/4"	2"	10
TSF4854	48	54	1.15/16"	2.3/16"	10
TSF5258	52	58	2.1/16"	2.5/16"	10
TSF5765	57	65	2.1/4"	2.9/16"	10
TSF6371	63	71	2.1/2"	2.13/16"	10
TSF6877	68	77	2.11/16"	3.1/16"	10
TSF7483	74	83	2.15/16"	3.5/16"	10
TSF8089	80	89	3.3/16"	3.9/16"	10
TSF8392	83	92	3.5/16"	3.5/8"	10
TSF8695	86	95	3.7/16"	3.3/4"	10
TSF92101	92	101	3.5/8"	4"	10
TSF96108	96	108	3.13/16"	4.5/16"	10
TSF104116	104	116	4.1/8"	4.5/8"	10
TSF112124	112	124	4.7/16"	4.15/16"	10
TSF120132	120	132	4.3/4"	5.1/4"	10
TSF128140	128	140	5.1/16"	5.9/16"	10
TSF136148	136	148	5.3/8"	5.7/8"	10
TSF146158	146	158	5.3/4"	6.1/4"	10

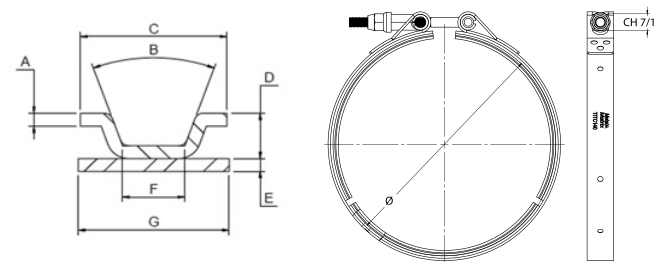
For industrial and vehicular applications. Designed for thin flexible hoses, it has excellent durability and strength performance. It features contoured edges to ensure the integrity of the hoses and the system. Reuse of the product is not recommended.



V-MAX

V-BAND CLAMPS

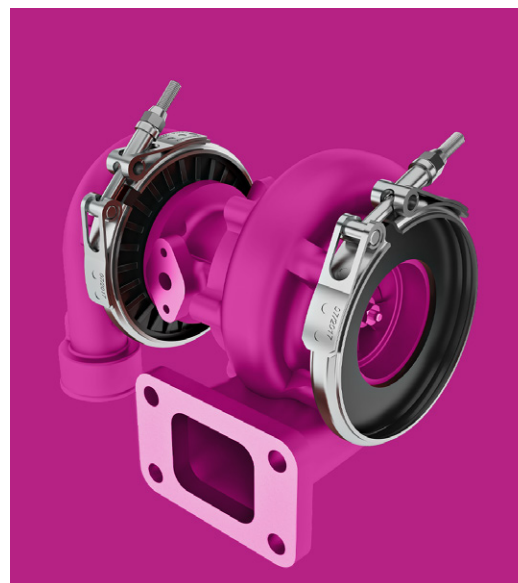
Maximum torque: 12 Nm
Recommended application torque: 9,5 Nm
Clamp developed for fixing turbine flanges



CODE	Ø Internal	A	B °	C	D	E	F	G	Material
TITC70	70	1,2	40	16,7	4,8	0,9	6,2	17	AISI 304
TITC76	76,2	1,2	40	17,5	6	0,9	6,3	17	
TITC112	115,3	1,5	40	16,5	5	1,5	6,5	17	
TITC115	117,5	1,5	40	16,5	5	1,5	6,5	17	
TITC127	130	1,5	40	16,5	5	1,5	6,5	17	
TITC140	142,6	1,5	40	16,5	5	1,5	6,5	17	
TITC170	173	1,5	40	16,5	5	1,5	6,5	17	
TITC186	188,7	1,5	40	16,5	5	1,5	6,5	17	
TITC202	205	1,2	40	16,5	4,7	1,5	6,5	17	
TITC232	235,6	1,5	40	16,5	5	1,5	6,5	17	

Flange diameter = (internal Ø - 3mm)
Screw in AISI 420 and Nut in steel SAE12L14 zinc plated

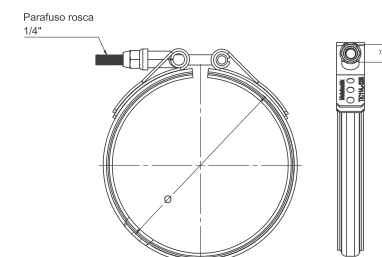
Model used in turbo compressor flanges, intercoolers, or any type of flanges jointing, replacing with advantages bolted unions. Reuse of the product is not recommended.

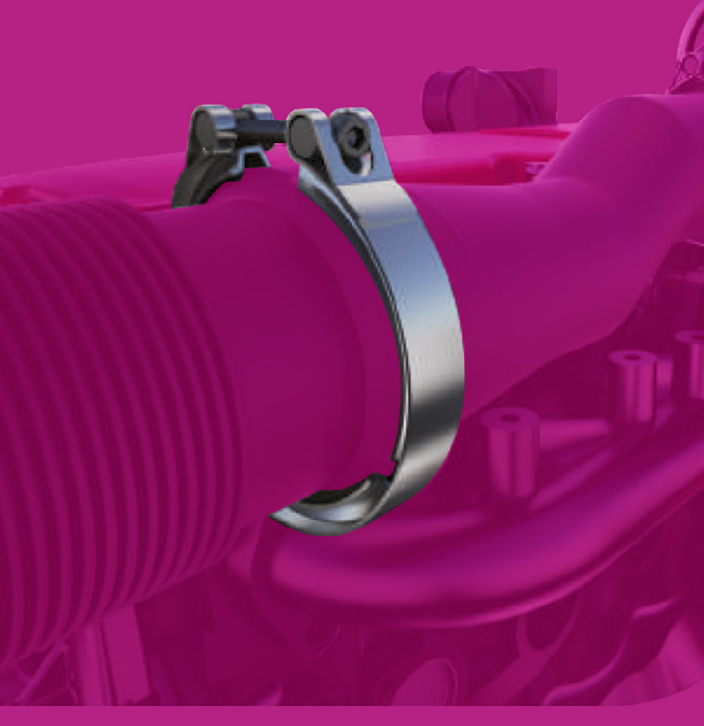


V-MAX LIGHT

V-BAND CLAMPS

Maximum torque: 12 Nm
Recommended application torque: 9,5 Nm



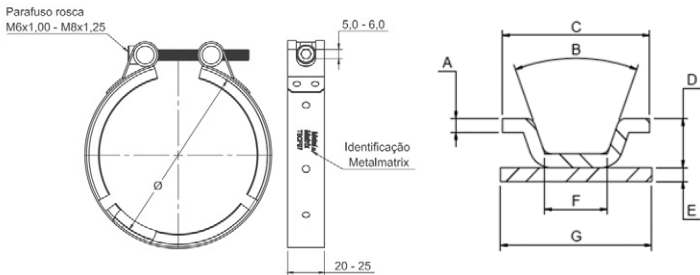


V-MAX FAST

V-BAND QUICK RELEASE CLAMPS

Maximum torque: 12 Nm

Recommended application torque: 9,5 Nm



CODE	Ø Internal	A	B °	C	D	E	F	G	Material
TSCFE63	63	1,5	20	34,85	6,45	1,2	29,6	25	S400 Series
TSCF7783	80	1,5	40	13,1	6,8	0,9	6,4	20	
TSCF93	93	1,5	40	16	8,5	0,9	4,2	20	
TSCF94	94	1,5	40	22	8,3	1,2	10,3	25	
TSCF97	97	1,5	40	14,7	7	0,9	7,8	20	
TSCF97105	100	1,5	40	13,1	6,8	0,9	6,4	20	
TSCF100	100	1,5	40	17	8,7	0,9	5,2	20	
TSCF104	104	1,5	40	23	7,7	1,2	7,8	25	
TSCF1041	104	1,5	40	18,2	5	1,2	7,8	25	
TSCF103110	106	1,5	40	13,7	7,4	0,9	6,4	20	
TSCF107	107	1,5	40	17	8,7	0,9	5,2	20	
TSCF108	108	1,5	40	22	8,3	1,2	10,3	25	
TSCF109	109	1,5	40	16	8,5	1,2	5	25	
TSCF1091	109	1,5	40	12,6	8,2	0,9	4,2	20	
TSCF111	111	1,5	40	12,6	8,2	0,9	4,2	20	
TSCF119	113	1,5	40	22	8,3	1,2	10,3	25	
TSCF120132	117	1,5	40	13,1	6,8	1,2	6,4	25	
TSCF130	130	1,5	40	14,7	7	0,9	7,8	20	
TSCF130142	138	2	35	21	9,5	1,2	6,6	25	
TSCF138	138	2	35	21	9,2	1,2	6,6	25	
TSCF153	153	1,5	40	22	8,3	1,2	10,3	25	AISI 304
TCF7783	80	1,5	40	13,1	6,8	0,9	6,4	20	
TCF97	97	1,5	40	14,7	7	0,9	7,8	20	
TCF97105	100	1,5	40	13,1	6,8	0,9	6,4	20	
TCF103110	106	1,5	40	13,7	7,4	0,9	6,4	20	
TCF120132	117	1,5	40	13,1	6,8	1,2	6,4	25	
TCF130	130	1,5	40	14,7	7	0,9	7,8	20	
TCF130142	138	2	35	21	9,5	1,2	6,6	25	
TCF157	157	1,5	40	24	7,7	1,2	7,8	25	
TCF181	181	1,5	40	14,7	7	0,9	7,8	20	
TCF186	186	1,5	40	24	7,7	1,2	7,8	25	

Flange diameter = (internal Ø - 3mm)
Screw and bushings in zinc plated carbon steel

Model used in turbo compressor flanges, intercoolers, or any type of flanges jointing, replacing with advantages bolted unions. Reuse of the product is not recommended.



NEW MINOR PRO

WORM DRIVE CLAMP 9MM

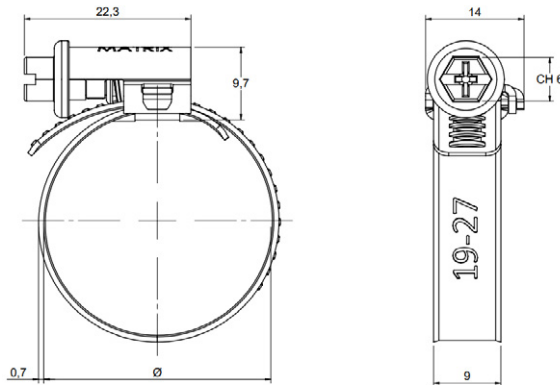
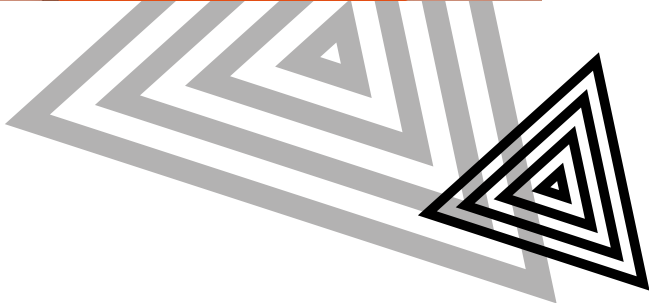
Material: carbon steel, S400 Series

Maximum torque: 3,5 Nm / 4 Nm

Recommended application torque: 2,8 Nm / 3,2 Nm

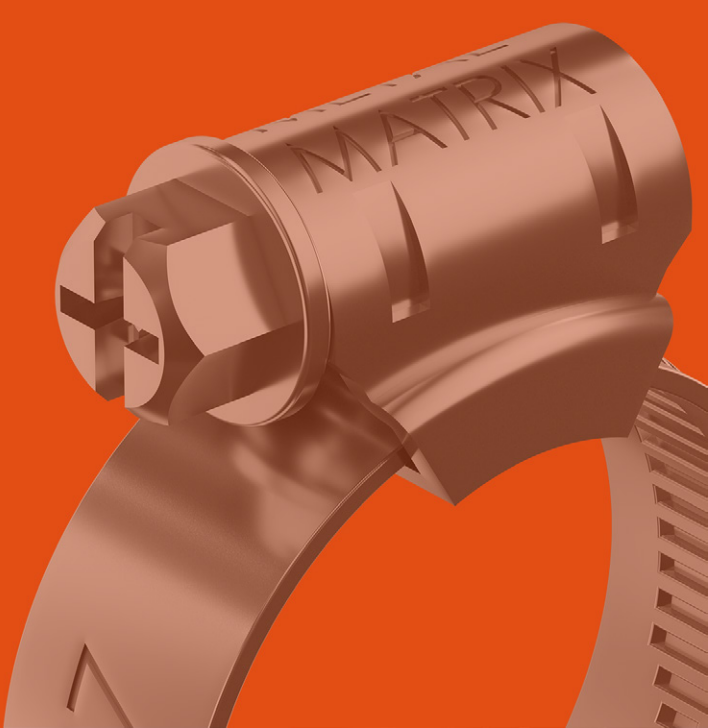
Band width: 9mm

Band thickness: 0,7mm



CODE	Ø (mm)		Ø (inches)		QTY PACKING
	Min	Max	Min	Max	
S090913	09	13	3/8"	1/2"	100
S091216	12	16	1/2"	5/8"	100
S091319	13	19	1/2"	3/4"	100
S091422	14	22	9/16"	7/8"	100
S091927	19	27	3/4"	1.1/16"	100
S092232	22	32	7/8"	1.1/4"	100

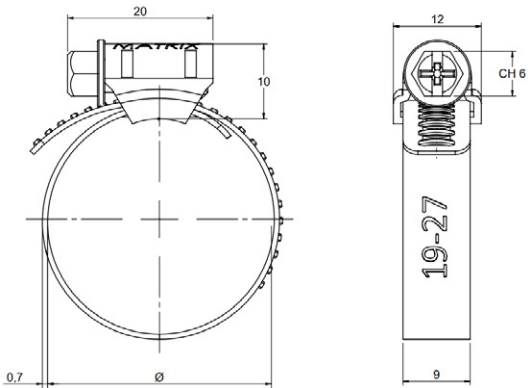
Size on request. For small diameter applications for fixing and sealing hoses that require low installation torque. Can be applied with a screwdriver, phillips or hex hose clamp driver. Reuse of the product is not recommended.



MINOR PRO

WORM DRIVE CLAMP 9MM

Material: stainless steel AISI 304
Maximum torque: 4 Nm
Recommended application torque: 3,2 Nm
Band width: 9mm
Band thickness: 0,7mm



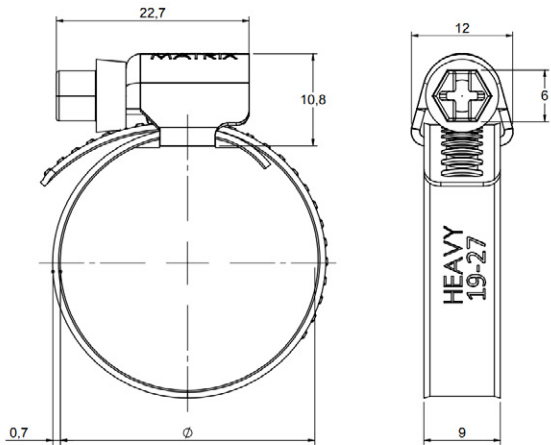
CODE	Ø (mm)		Ø (inches)		QTY PACKING
	Min	Max	Min	Max	
I090913	09	13	3/8"	1/2"	100
I091216	12	16	1/2"	5/8"	100
I091319	13	19	1/2"	3/4"	100
I091422	14	22	9/16"	7/8"	100
I091927	19	27	3/4"	1.1/16"	100
I092232	22	32	7/8"	1.1/4"	100

Size on request. It is used in small diameter applications for fixing and sealing hoses that require low installation torque. Used in environments that require high corrosion resistance. Can be applied with a screwdriver, phillips or hex hose clamp driver. Reuse of the product is not recommended.

HEAVY

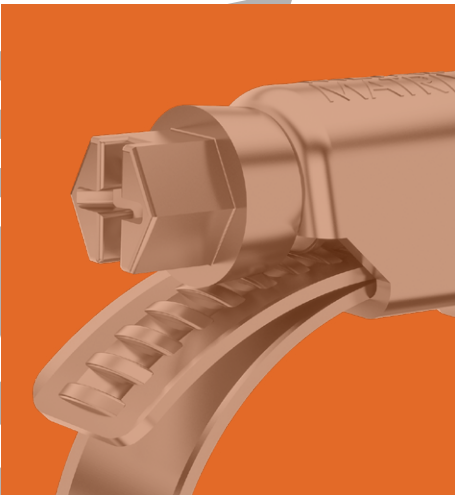
HEAVY WORM DRIVE 9MM

Material: carbon steel
Maximum torque: 3,5 Nm
Recommended application torque: 2,8 Nm
Band width: 9mm
Band thickness: 0,7mm



CODE	Ø (mm)		Ø (inches)		QTY PACKING
	Min	Max	Min	Max	
290913	09	13	3/8"	1/2"	100
291216	12	16	1/2"	5/8"	100
291319	13	19	1/2"	3/4"	100
291422	14	22	9/16"	7/8"	100
291927	19	27	3/4"	1.1/16"	100
292232	22	32	7/8"	1.1/4"	100

Alternative measures and materials on request. It is used in small diameter applications for fixing and sealing gas and liquid hoses and pipes that require low installation torque. The pipe profile must be circular or closer to circular. Can be applied with a screwdriver, philips or "cannon" type tool. Reuse of the product is not recommended.

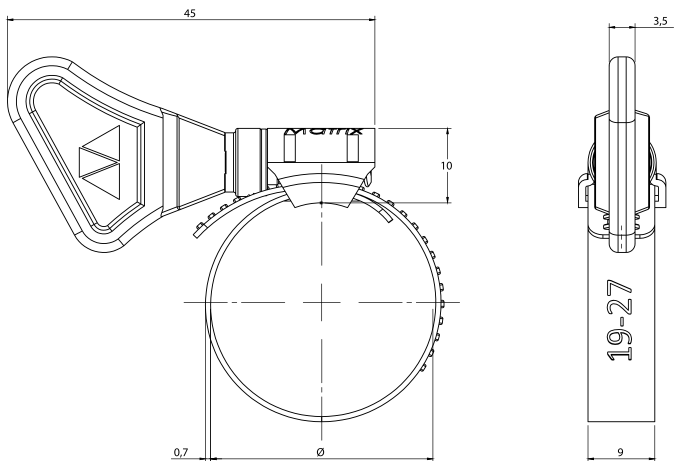




KEY CLAMPS

KEY CLAMPS

Material: carbon steel
Maximum torque: 3,5 Nm
Recommended application torque: 2,8 Nm
Band width: 9mm
Band thickness: 0,7mm
Polymer handle



CODE	Ø (mm)		Ø (inches)		QTY PACKING
	Min	Max	Min	Max	
B00913	09	13	3/8"	1/2"	100
B01216	12	16	1/2"	5/8"	100
B01319	13	19	1/2"	3/4"	100
B01422	14	22	9/16"	7/8"	100
B01927	19	27	3/4"	1.1/16"	100

Alternative measures and materials on request. It is used in small diameter applications for fixing and sealing hoses that require low installation torque. Reuse of the product is not recommended.

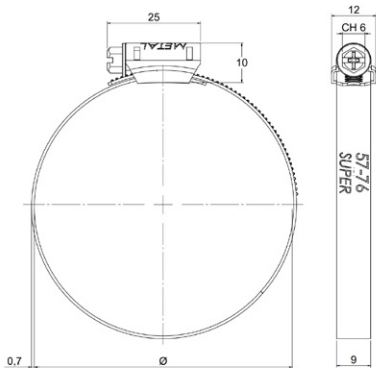
SUPER PRO

WORM DRIVE CLAMP 9MM

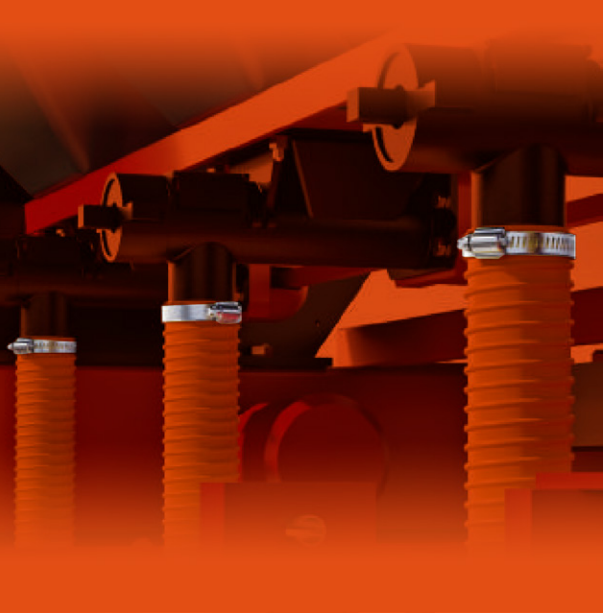
Material: carbon steel and stainless steel AISI 304
Carbon steel maximum torque: 4,5 Nm
Stainless steel maximum torque: 5 Nm
Carbon steel recommended application torque: 3,5 Nm
Stainless steel recommended application torque: 4 Nm
Band width: 9mm
Band thickness: 0,7mm



CODE		Ø (mm)		Ø (inches)		QTY PACKING	
Carbon Steel	Stainless Steel AISI 304	Min	Max	Min	Max	Carbon Steel	Stainless Steel AISI 304
192232	I192232	22	32	7/8"	1.1/4"	100	50
192538	I192538	25	38	1"	1.1/2"	100	50
193244	I193244	32	44	1.1/4"	1.3/4"	100	50
193851	I193851	38	51	1.1/2"	2"	100	50
194457	I194457	44	57	1.3/4"	2.1/4"	100	50
195164	I195164	51	64	2"	2.1/2"	100	50
195770	I195770	57	70	2.1/4"	2.3/4"	50	25
195776	I195776	57	76	2.1/4"	3"	50	25
196483	I196483	64	83	2.1/2"	3.1/4"	50	25
197089	I197089	70	89	2.3/4"	3.1/2"	50	25
197695	I197695	76	95	3"	3.3/4"	50	25
1983102	I1983102	83	102	3.1/4"	4"	50	25
1989108	I1989108	89	108	3.1/2"	4.1/4"	25	10
1995114	I1995114	95	114	3.3/4"	4.1/2"	50	10
19102121	I19102121	102	121	4.1/16"	4.13/16"	50	10
19108127	I19108127	108	127	4.5/16"	5"	50	10
19114133	I19114133	114	133	4.1/2"	5.1/4"	10	10
19127146	I19127146	127	146	5"	5.3/4"	10	10
19140159	I19140159	140	159	5.9/16"	6.5/16"	10	10
19165184	I19165184	165	184	6.1/2"	7.1/4"	10	10
19203222	I19203222	203	222	8"	8.3/4"	10	10
19216235	I19216235	216	235	8.1/2"	9.1/4"	10	10
19229248	I19229248	229	248	9.1/16"	9.13/16"	5	5
19311330	I19311330	311	330	12.1/4"	13"	5	5



Alternative measures and materials on request. Suitable for fixing flexible hoses. The larger screw and housing allow a greater tightening torque, suitable for industrial and residential applications. Can be applied with a screwdriver, phillips or hex hose clamp driver. Reuse of the product is not recommended.



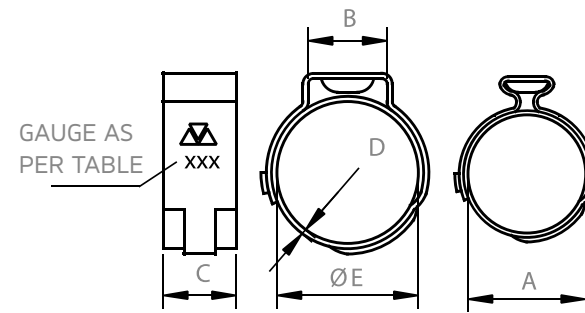
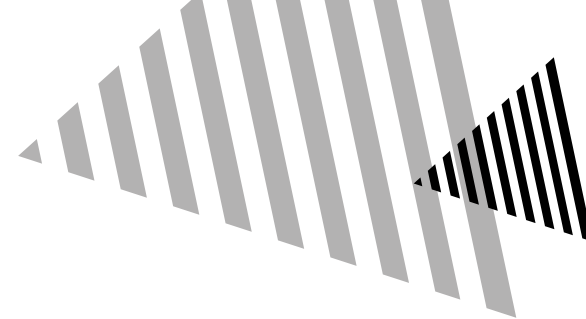
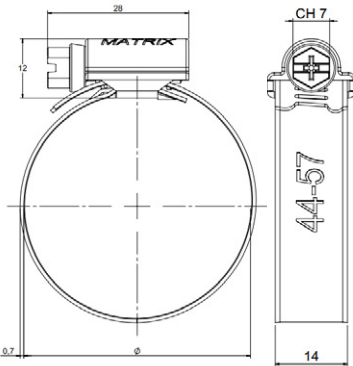
NEW FLEX PRO

WORM DRIVE CLAMP 14MM

Material: carbon steel / stainless steel AISI 304 / S400 Series
Carbon steel and S400 maximum torque: 6 Nm
Stainless steel AISI 304 maximum torque: 7 Nm
Carbon steel and S400 recommended application torque: 4,8 Nm
Stainless steel AISI 304 recommended application torque: 5,6 Nm
Band width: 14mm
Band thickness: 0,7mm
Can be applied with a screwdriver, phillips or hex hose clamp driver.

CODE			Ø (mm)		Ø (inches)		QTY PACKING		
Carbon Steel	Stainless Steel S400	Stainless Steel AISI 304	Min	Max	Min	Max	Carbon Steel	Stainless Steel S400	Stainless Steel AISI 304
0141319	S0141319PC	I0141319	13	19	1/2"	3/4"	100	25	25
0141422	S0141422PC	I0141422	14	22	9/16"	7/8"	100	25	25
0141927	S0141927PC	I0141927	19	27	3/4"	11/16"	100	25	25
0142232	S0142232PC	I0142232	22	32	7/8"	11/4"	100	25	25
0142538	S0142538PC	I0142538	25	38	1"	11/2"	100	25	25
0143244	S0143244PC	I0143244	32	44	11/4"	1.3/4"	100	25	25
0143851	S0143851PC	I0143851	38	51	11/2"	2"	100	25	25
0144457	S0144457PC	I0144457	44	57	1.3/4"	2.1/4"	100	25	25
0145164	S0145164PC	I0145164	51	64	2"	2.1/2"	50	25	25
0145770	S0145770PC	I0145770	57	70	2.1/4"	2.3/4"	50	10	10
0145776	S0145776PC	I0145776	57	76	2.1/4"	3"	50	10	10
0146483	S0146483PC	I0146483	64	83	2.1/2"	3.1/4"	50	10	10
0147089	S0147089PC	I0147089	70	89	2.3/4"	3.1/2"	50	10	10
0147695	S0147695PC	I0147695	76	95	3"	3.3/4"	50	10	10
01483102	S01483102PC	I01483102	83	102	3.1/4"	4"	50	10	10
01489108	S01489108PC	I01489108	89	108	3.1/2"	4.1/4"	25	5	5
01495114	S01495114PC	I01495114	95	114	3.3/4"	4.1/2"	25	5	5
014102121	S014102121PC	I014102121	102	121	4"	4.3/4"	25	5	5
014108127	S014108127PC	I014108127	108	127	4.1/4"	5"	25	5	5
014114133	S014114133PC	I014114133	114	133	4.1/2"	5.1/4"	25	5	5
014121140	S014121140PC	I014121140	121	140	4.3/4"	5.1/2"	25	5	5
014127146	S014127146PC	I014127146	127	146	5"	5.3/4"	25	5	5
014133152	S014133152PC	I014133152	133	152	5.1/4"	6"	25	5	5
014140159	S014140159PC	I014140159	140	159	5.1/2"	6.1/4"	10	5	5
014146165	S014146165PC	I014146165	146	165	5.3/4"	6.1/2"	10	5	5
014152171	S014152171PC	I014152171	152	171	6"	6.3/4"	10	5	5
014159178	S014159178PC	I014159178	159	178	6.1/4"	7"	10	5	5
014165184	S014165184PC	I014165184	165	184	6.1/2"	7.1/4"	10	5	5
014172191	S014172191PC	I014172191	172	191	6.3/4"	7.1/2"	10	5	5
014178197	S014178197PC	I014178197	178	197	7"	7.3/4"	10	5	5
014185203	S014185203PC	I014185203	185	203	7.1/4"	8"	10	5	5
014191210	S014191210PC	I014191210	191	210	7.1/2"	8.1/4"	10	5	5
014197216	S014197216PC	I014197216	197	216	7.3/4"	8.1/2"	10	5	5
014203222	S014203222PC	I014203222	203	222	8"	8.3/4"	10	5	5
014210229	S014210229PC	I014210229	210	229	8.1/4"	9"	10	5	5
014216235	S014216235PC	I014216235	216	235	8.1/2"	9.1/4"	10	5	5
014222241	S014222241PC	I014222241	222	241	8.3/4"	9.1/2"	10	5	5
014229248	S014229248PC	I014229248	229	248	9"	9.3/4"	10	5	5
014235254	S014235254PC	I014235254	235	254	9.1/4"	10"	10	5	5
014241260	S014241260PC	I014241260	241	260	9.1/2"	10.1/4"	10	5	5

A practical solution for many applications that require average range of torque and pressure. The edges of the band are contoured aiming at its protection and integrity. The profile of the application location can be variable, due to its hollow geometry that makes it flexible. Reuse of the product is not recommended.



EAR CLAMP

EARCLIPS

Material: stainless steel AISI 304
Band width: 5mm and 7mm
Band thickness: 0,5mm and 0,6mm

CODE	Ø (mm) OPEN	MEASUREMENTS			Ø (mm) CLOSED	QTY PACKING
	A	B	C	D	E	Stainless steel
5587	8,7	5,5	5,0	0,5	7,0	100
55113	11,3	5,5	5,0	0,5	9,6	100
57123	12,3	8,0	7,0	0,6	9,75	100
57135	13,5	8,0	7,0	0,6	11,0	100
57145	14,5	8,0	7,0	0,6	12,0	100
57153	15,3	8,0	7,0	0,6	12,8	100

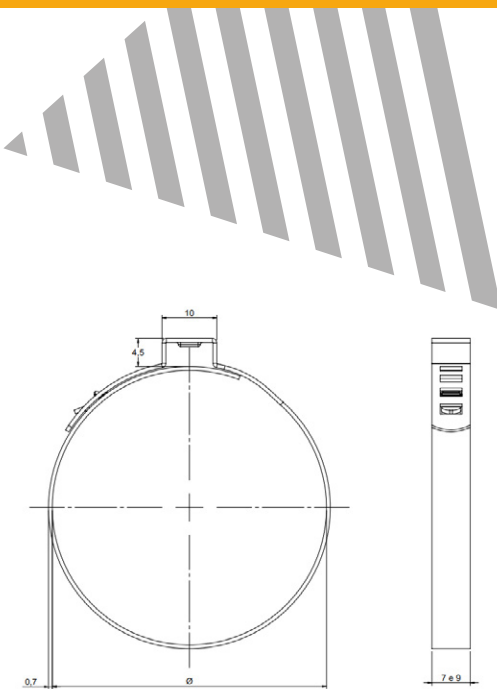
Other dimensions on request. Used for fuel hose, in hydraulic and injection systems subjected to high pressures. It presents regular circularity and constant distribution of radial forces. Easy to apply. Reuse of the product is not recommended.



EAR CLAMP

EAR CLAMP 7MM / 9MM

Material: carbon steel
Band width: 7mm and 9mm
Band thickness: 0,7mm
Stainless steel AISI 304
on request



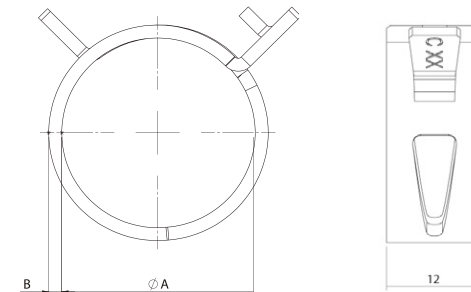
CODE		Ø (mm)	Ø (inches)	QTY PACKING
7 mm	9 mm			
J07280	J09280	28,0	1.1/8"	25
J07295	J09295	29,5	1.3/16"	25
J07310	J09310	31,0	1.1/4"	25
J07330	J09330	33,0	1.5/16"	25
J07350	J09350	35,0	1.7/16"	25
J07385	J09385	38,5	1.9/16"	25
J07420	J09420	42,0	1.11/16"	25
J07440	J09440	44,0	1.3/4"	25
J07470	J09470	47,0	1.7/8"	25
J07500	J09500	50,0	2"	25
J07515	J09515	51,5	2.1/16"	25
J07525	J09525	52,5	2.1/8"	25
J07530	J09530	53,0	2.1/8"	25
J07550	J09550	55,0	2.3/16"	25
J07605	J09605	60,5	2.7/16"	25
J07610	J09610	61,0	2.7/16"	25
J07630	J09630	63,0	2.1/2"	25
J07650	J09650	65,0	2.9/16"	25
J07690	J09690	69,0	2.3/4"	25
J07700	J09700	70,0	2.13/16"	25
J07710	J09710	71,0	2.13/16"	25
J07760	J09760	76,0	3"	25
J07780	J09780	78,0	3.1/8"	25
J07820	J09820	82,0	3.1/4"	25
J07845	J09845	84,5	3.3/8"	25
J07865	J09865	86,5	3.7/16"	25
J07870	J09870	87,0	3.7/16"	25
J07880	J09880	88,0	3.1/2"	25
J07900	J09900	90,0	3.9/16"	25
J07910	J09910	91,0	3.5/8"	25
J07940	J09940	94,0	3.3/4"	25
J07960	J09960	96,0	3.13/16"	25
J071000	J091000	100,0	3.15/16"	25
J071050	J091050	105,0	4.3/16"	25
J071100	J091100	110,0	4.3/8"	25

Applied to vehicle kinetics hoods.

SPRINGBAND

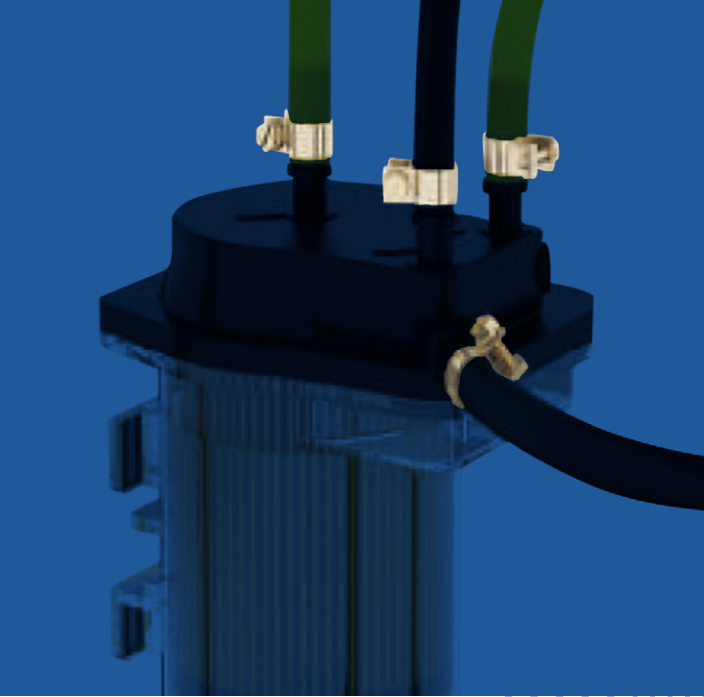
SPRINGBAND CLAMP DIN 3021

Material: vanadium chrome steel
Corrosion resistance: 720 hours
Organometallic coating



CODE	Ø Aplication TIGHTEN	Ø Aplication CLOSED	Ø Aplication OPEN	QTY PACKING
61222	22	20,5	24,2	100
61225	25	23,5	26,8	100

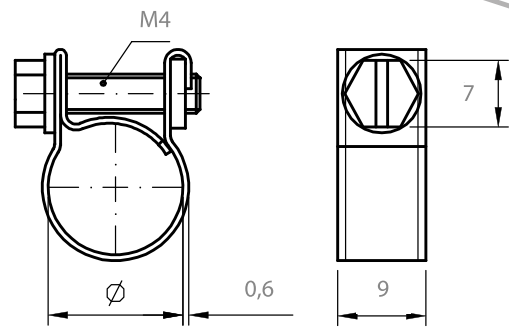
The SPRING type clamps offer constant tension, and therefore are recommended for applications where there are temperature and pressure variations, or even accommodation of the hose material, widely used in cooling systems. Its application must be carried out with a specific tool. Alternative sizes and measures on request. Reuse of the product is not recommended.



NORMIX

FUEL INJECTION HOSE CLAMPS

Material: carbon steel
Maximum torque: 2 Nm
Band width: 9mm
Band thickness: 0,6mm



CODE	Ø (MM)		Ø (inches)		QTY PACKING
	Min	Max	Min	Max	
01268	06	08	1/4"	5/16"	100
01279	07	09	5/16"	3/8"	100
012810	08	10	3/8"	7/16"	100
012911	09	11	3/8"	7/16"	100
0121012	10	12	7/16"	1/2"	100
0121113	11	13	7/16"	9/16"	100
0121214	12	14	1/2"	9/16"	100
0121315	13	15	9/16"	5/8"	100
0121416	14	16	9/16"	11/16"	100
0121517	15	17	5/8"	11/16"	100
0121618	16	18	11/16"	3/4"	100

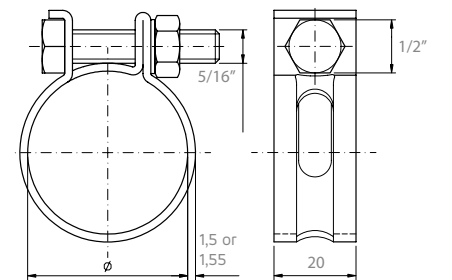
Developed for a perfect adaptation to the profile of the hose. It is suitable for use in places with low pressure, such as fuel hoses. Usually suitable for industrial applications. Other dimensions on request. Reuse of the product is not recommended.



REINFORCED - 20MM

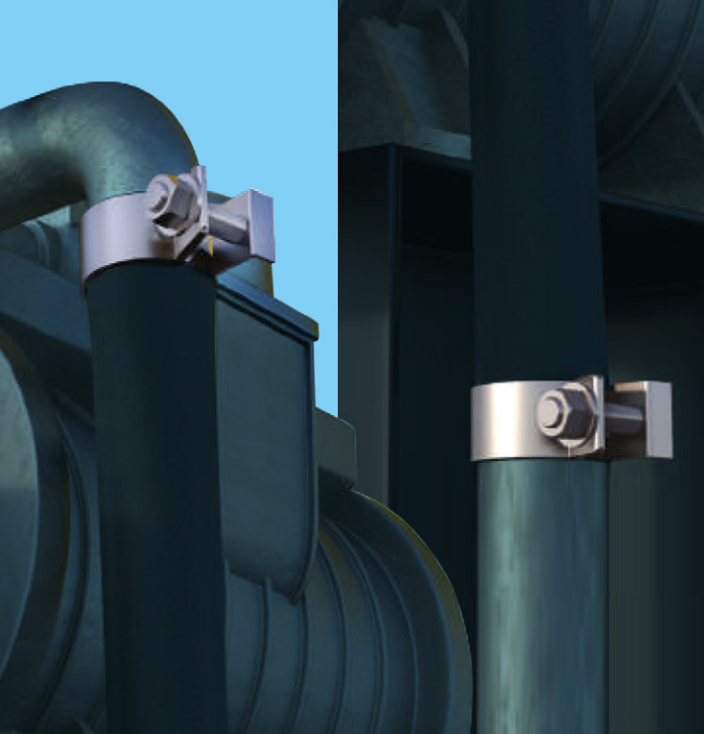
REINFORCED HOSE CLAMP MG 20MM

Material: carbon steel and stainless steel AISI 304
Maximum torque: 10 Nm
Recommended application torque: 8 Nm
Band width: 20mm
Carbon steel band thickness: 1,55mm
Stainless steel band thickness: 1,50mm



CODE		Ø (mm)		Ø (inches)		QTY PACKING	
Carbon Steel	Stainless Steel	Min	Max	Min	Max	Carbon Steel	Stainless Steel
04202025	I04202025	20	25	13/16"	1"	25	10
04202328	I04202328	23	28	15/16"	1.1/8"	25	10
04202530	I04202530	25	30	1"	1.3/16"	25	10
04202932	I04202932	29	32	1.3/16"	1.5/16"	25	10
04203237	I04203237	32	37	1.5/16"	1.1/2"	25	10
04203540	I04203540	35	40	1.7/16"	1.5/8"	25	10
04203947	I04203947	39	47	1.9/16"	1.7/8"	25	10
04204351	I04204351	43	51	1.3/4"	2.1/16"	25	10
04204856	I04204856	48	56	1.15/16"	2.1/4"	25	10
04205462	I04205462	54	62	2.3/16"	2.1/2"	25	10
04205765	I04205765	57	65	2.1/4"	2.9/16"	25	10
04206169	I04206169	61	69	2.7/16"	2.3/4"	25	10
04206775	I04206775	67	75	2.11/16"	3"	10	5
04207381	I04207381	73	81	2.7/8"	3.1/4"	10	5
04207987	I04207987	79	87	3.1/8"	3.7/16"	10	5
04208694	I04208694	86	94	3.7/16"	3.3/4"	10	5
042092100	I042092100	92	100	3.5/8"	3.15/16"	10	5
042099107	I042099107	99	107	3.15/16"	4.1/4"	10	5
0420105117	I0420105117	105	117	4.3/16"	4.5/8"	10	5
0420111123	I0420111123	111	123	4.3/8"	4.7/8"	10	5
0420117129	I0420117129	117	129	4.5/8"	5.1/8"	10	5
0420124136	I0420124136	124	136	4.15/16"	5.3/8"	10	5
0420130142	I0420130142	130	142	5.1/8"	5.5/8"	5	5
0420137149	I0420137149	137	149	5.7/16"	5.7/8"	5	5
0420143155	I0420143155	143	155	5.11/16"	6.1/8"	5	5
0420149161	I0420149161	149	161	5.7/8"	6.3/8"	5	5
0420162174	I0420162174	162	174	6.7/16"	6.7/8"	5	5
0420175188	I0420175188	175	188	6.15/16"	7.7/16"	5	5
0420187199	I0420187199	187	199	7.3/8"	7.7/8"	5	5
0420200212	I0420200212	200	212	7.7/8"	8.3/8"	5	5
0420213225	I0420213225	213	225	8.7/16"	8.7/8"	5	5
0420226238	I0420226238	226	238	8.15/16"	9.3/8"	5	5

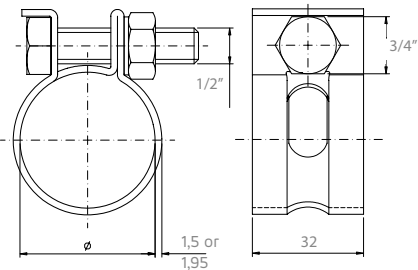
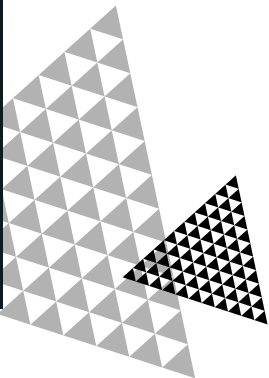
The clamps of this line have a high tightening capacity (torque). Indicated for heavy services in tubes and hoses of rigid material. Indicated for high pressures. Reuse of the product is not recommended.



REINFORCED - 32MM

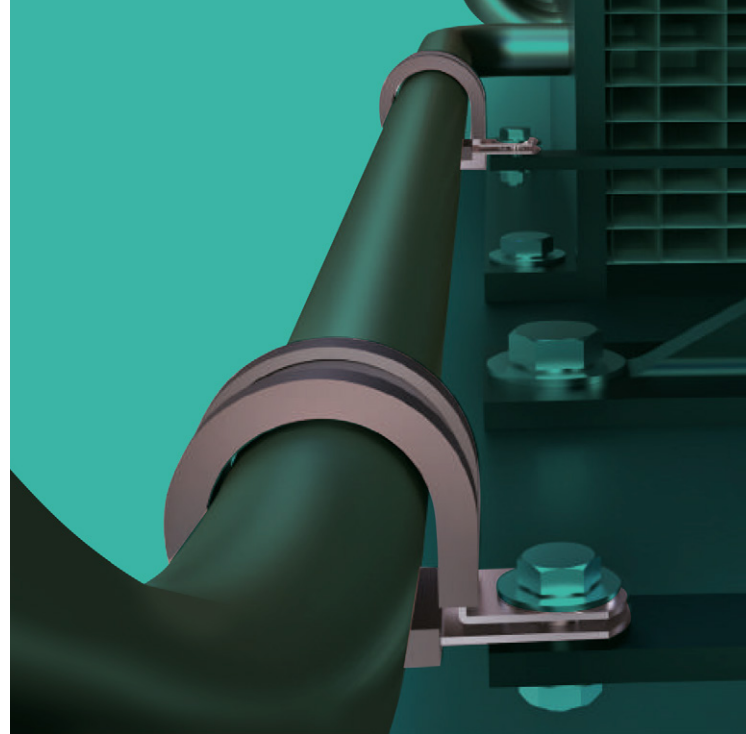
REINFORCED HOSE CLAMP MG 32MM

Material: carbon steel and stainless steel AISI 304
Maximum torque: 30 Nm
Recommended application torque: 24 Nm
Band width: 32mm
Carbon steel band thickness: 1,95mm
Stainless steel band thickness: 1,50mm



The clamps of this line have a high tightening capacity (torque). Indicated for heavy services in tubes and hoses of rigid material. Indicated for high pressures. Reuse of the product is not recommended.

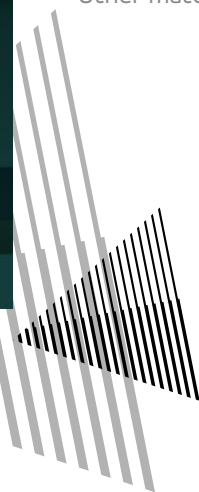
CODE		Ø (mm)		Ø (inches)		QTY PACKING	
Carbon Steel	Stainless Steel	Min	Max	Min	Max	Carbon Steel	Stainless Steel
04322932	I04322932	29	32	1.3/16"	1.5/16"	25	10
04323540	I04323540	35	40	1.7/16"	1.5/8"	25	10
04323947	I04323947	39	47	1.9/16"	1.7/8"	25	10
04324351	I04324351	43	51	1.3/4"	2.1/16"	25	10
04324856	I04324856	48	56	1.15/16"	2.1/4"	25	10
04325462	I04325462	54	62	2.3/16"	2.1/2"	25	10
04325765	I04325765	57	65	2.1/4"	2.9/16"	25	10
04326169	I04326169	61	69	2.7/16"	2.3/4"	10	10
04326775	I04326775	67	75	2.11/16"	3"	10	5
04327381	I04327381	73	81	2.7/8"	3.1/4"	10	5
04327987	I04327987	79	87	3.1/8"	3.7/16"	10	5
04328694	I04328694	86	94	3.7/16"	3.3/4"	10	5
043292100	I043292100	92	100	3.5/8"	3.15/16"	10	5
043299107	I043299107	99	107	3.15/16"	4.1/4"	10	5
0432105117	I0432105117	105	117	4.3/16"	4.5/8"	10	5
0432111123	I0432111123	111	123	4.3/8"	4.7/8"	10	5
0432117129	I0432117129	117	129	4.5/8"	5.1/8"	10	5
0432124136	I0432124136	124	136	4.15/16"	5.3/8"	10	5
0432130142	I0432130142	130	142	5.1/8"	5.5/8"	5	5
0432137149	I0432137149	137	149	5.7/16"	5.7/8"	5	5
0432143155	I0432143155	143	155	5.11/16"	6.1/8"	5	5
0432149161	I0432149161	149	161	5.7/8"	6.3/8"	5	5
0432162174	I0432162174	162	174	6.7/16"	6.7/8"	5	5
0432175188	I0432175188	175	188	6.15/16"	7.7/16"	5	5
0432187199	I0432187199	187	199	7.3/8"	7.7/8"	5	5
0432200212	I0432200212	200	212	7.7/8"	8.3/8"	5	5
0432213225	I0432213225	213	225	8.7/16"	8.7/8"	5	5
0432226238	I0432226238	226	238	8.15/16"	9.3/8"	5	5
0432238250	I0432238250	238	250	9.3/8"	9.7/8"	5	5
0432251263	I0432251263	251	263	9.15/16"	10.3/8"	5	5
0432264276	I0432264276	264	276	10.7/16"	10.7/8"	5	5
0432295307	I0432295307	295	307	11.5/8"	12.1/8"	5	5



CLIP WITH EPDM

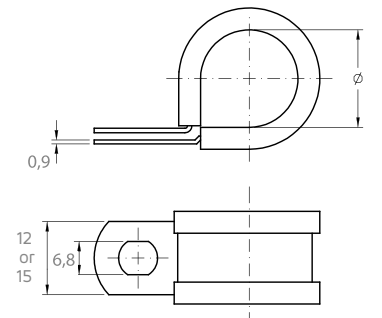
RETAINING CLAMPS 12MM - 15MM

Material: carbon steel and stainless steel AISI 304
Rubber type: EPDM
Band width: 12mm and 15mm
Band thickness: 0,9mm
EPDM with temperature resistance from -40°C to 120°C
Other materials, diameter on request

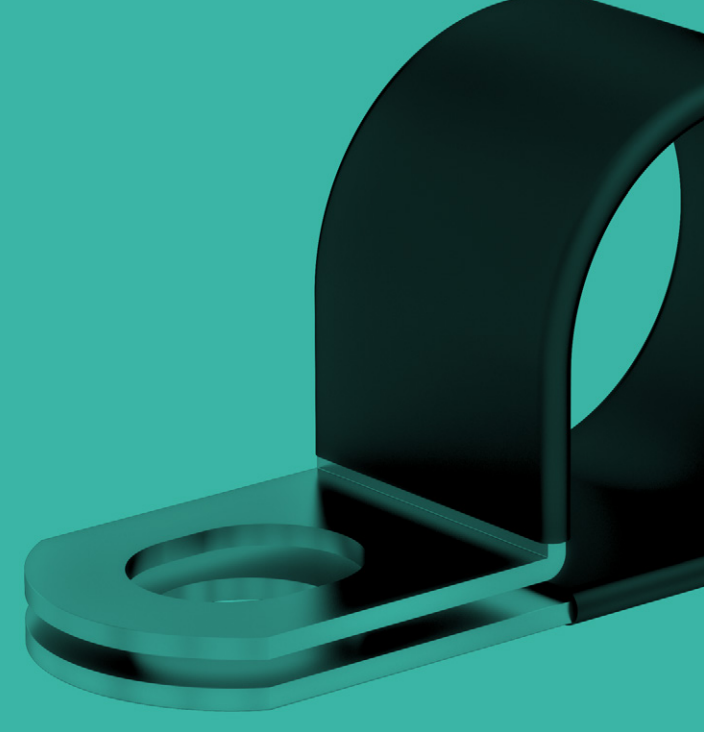


CODE				Ø (mm)	Ø (inches)	QTY PACKING	
12 mm		15 mm				Carbon Steel	Stainless Steel
Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel				
011206	I011206	011506	I011506	06	1/4"	100	100
011208	I011208	011508	I011508	08	3/8"	100	100
011210	I011210	011510	I011510	10	7/16"	100	100
011212	I011212	011512	I011512	12	1/2"	100	100
011213	I011213	011513	I011513	13	9/16"	100	100
011214	I011214	011514	I011514	14	9/16"	100	100
011216	I011216	011516	I011516	16	11/16"	100	100
011218	I011218	011518	I011518	18	3/4"	100	100
011219	I011219	011519	I011519	19	3/4"	100	100
011220	I011220	011520	I011520	20	13/16"	100	100
011222	I011222	011522	I011522	22	7/8"	100	100
011224	I011224	011524	I011524	24	1"	100	100
011225	I011225	011525	I011525	25	1"	100	100
011228	I011228	011528	I011528	28	1.1/8"	100	100
011232	I011232	011532	I011532	32	1.5/16"	100	100
011235	I011235	011535	I011535	35	1.7/16"	100	100
011236	I011236	011536	I011536	36	1.7/16"	100	100
011238	I011238	011538	I011538	38	1.1/2"	100	100
011245	I011245	011545	I011545	45	1.13/16"	50	50
011250	I011250	011550	I011550	50	2"	50	50
011260	I011260	011560	I011560	60	2.3/8"	50	50
011276	I011276	011576	I011576	76	3"	50	50

Designed for fixing tubes or hoses and in structures subject to vibrations. Its EPDM rubber coating protects the components from direct contact. Used in trucks, buses, automobiles and industrial facilities. It should not be used for tightening. Reuse of the product is not recommended.



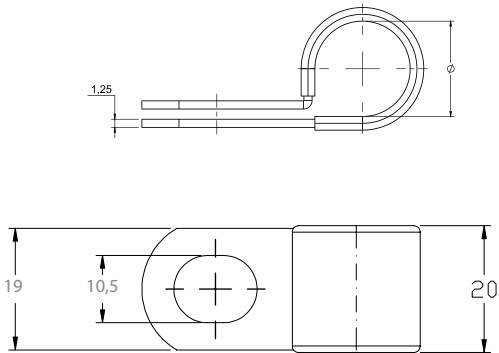
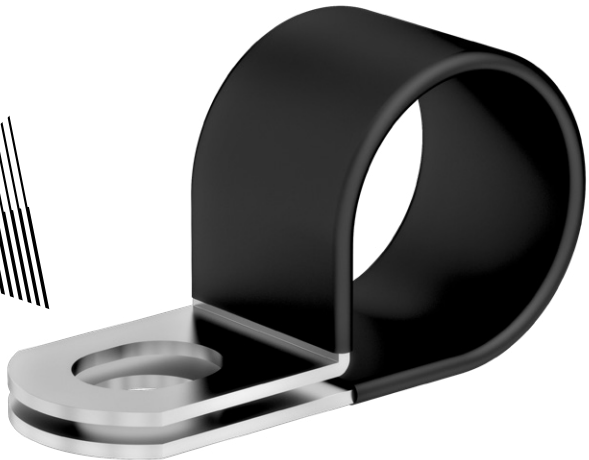
NOTE: PARTS ALSO SUPPLIED WITHOUT THE RUBBER.



INSULATING CLIP

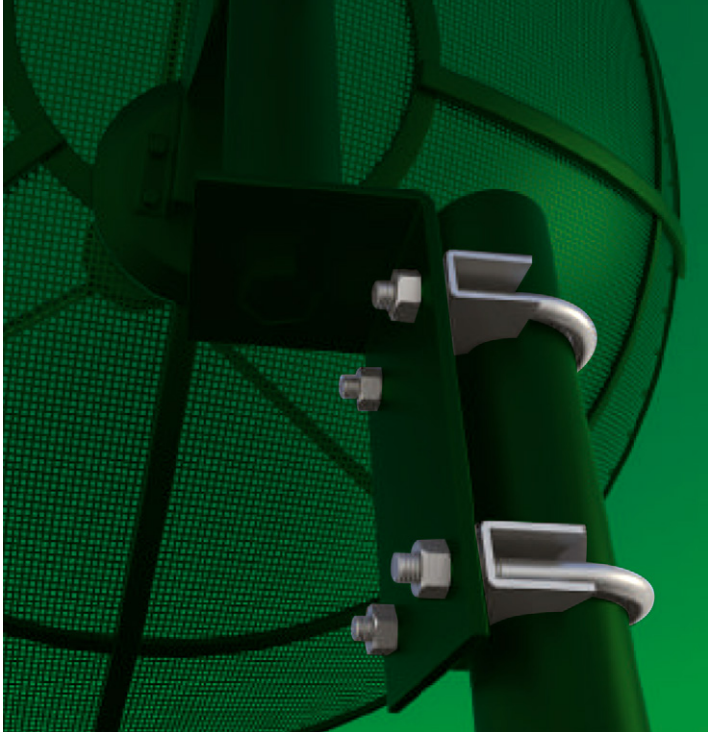
INSULATING CLIP (POLYOLEFIN COATING)

Material: carbon steel
Stainless steel on request
Coating: poyolefin
Band width: 19mm
Band thickness: 1,25mm
With temperature resistance between -55°C and +125°C
Additional diameters and other materials on request



CODE	Ø (mm)	Ø (inches)	QTY PACKING
Carbon			
031907	7	9/32"	100
031908	8	5/16"	100
0319095	9,5	3/8"	100
031911	11	7/16"	100
031913	13	9/16"	100
031916	16	11/16"	100
031917	17	11/16"	100
031918	18	3/4"	100
031919	19	3/4"	100
031924	24	1"	100
031925	25	1"	100
031928	28	1.1/8"	100
031930	30	1.3/16"	100
031935	35	1.7/16"	100
031938	38	1.1/2"	5
031945	45	1.13/16"	5
031957	57	2.1/4"	5
0319635	63,5	2.1/2"	5
031965	65	2.9/16"	5

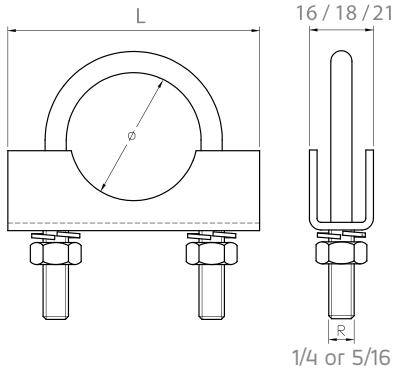
Designed for fixing tubes or hoses to structures that presents variations in temperature and vibration. Its polymer coating protects components from direct contact. Reuse of the product is not recommended.



"U" TYPE

"U" TYPE HOSE CLAMPS

Material: carbon steel
Maximum torque: 10 Nm
Recommended torque: 8 Nm
Plate thickness: 1,95mm



CODE	Ø (mm)	Ø (inches)	Width	Ø (inches) Rod thread	QTY PACKING
0563322	32	1.1/4"	63mm	1/4'	10
0563352	35	1.3/8"	63mm	1/4'	10
0563382	38	1.1/2"	63mm	5/16'	10
0572422	42	1.5/8"	72mm	5/16'	10
0572452	45	1.3/4"	72mm	5/16'	10
0572482	48	1.7/8"	72mm	5/16'	10
0582512	51	2"	82mm	5/16'	10
0582542	54	2.1/8"	82mm	5/16'	10
0582572	57	2.1/4"	82mm	5/16'	10
0590642	64	2.1/2"	95mm	5/16'	10
0598702	70	2.3/4"	95mm	5/16'	10
0511080	80	3.1/8"	110mm	5/16'	10

Indicated for fixing antennas and pipes, exhaust sustems of cars, trucks, tractors, with great mechanical resistance and high torque. Reuse of the product is not recommended.

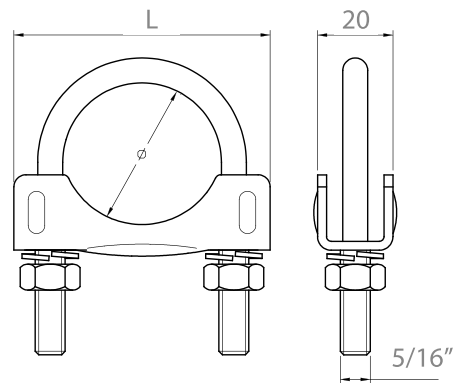
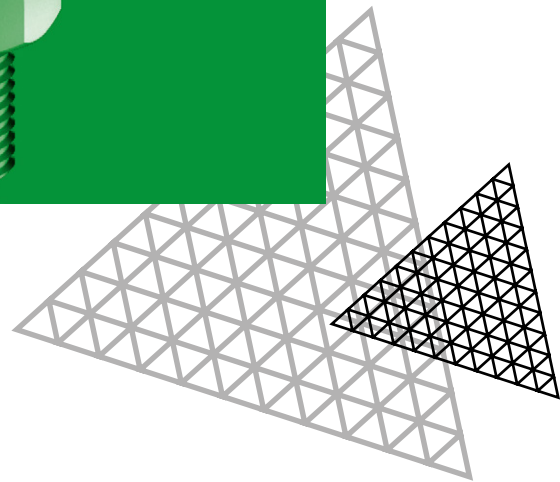




“U” TYPE REINFORCED

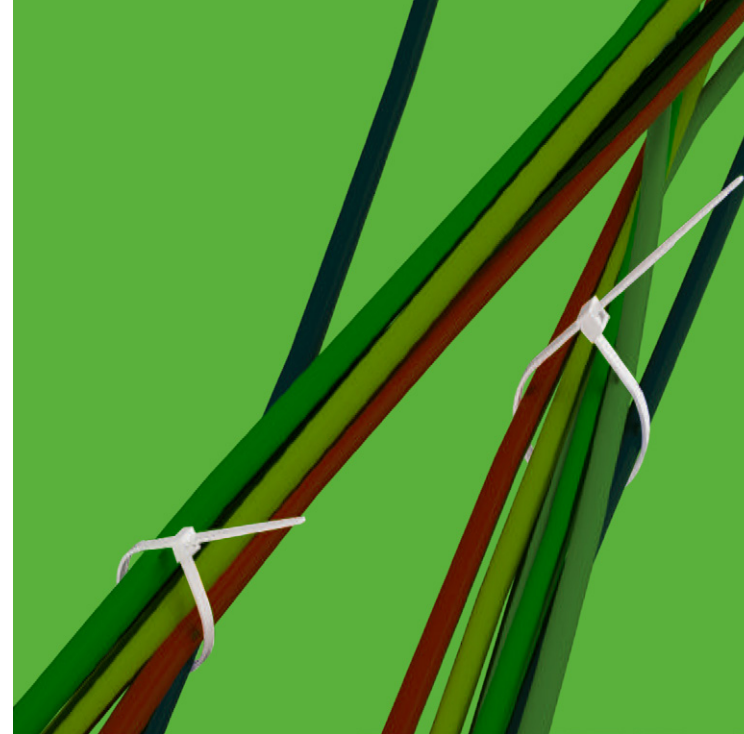
“U” TYPE REINFORCED

Material: carbon steel
Maximum torque: 10 Nm
Recommended torque: 8 Nm
Plate thickness: 1,95mm



CODE	Ø (mm)	Ø (inches)	Width	QTY PACKING
056342	42	1.5/8"	75mm	10
056345	45	1.3/4"	75mm	10
056348	48	1.7/8"	75mm	10
056651	51	2"	85mm	10
056654	54	2.1/8"	85mm	10
056657	57	2.1/4"	85mm	10

Indicated for the use in car exhausts, trucks, tractors, fixation of antennas and pipes, having high mechanical strength and high torque. Reuse of the product is not recommended.



NYLON

NYLON CABLE TIES



Self-extinguishing V2: UL94
(does not propagate the flame)
Available in natural or black color
Material: M.P. PA6.6 virgin
Resistant to ultraviolet rays
Fireproof



CODE	Ø (mm)		RUPTURE STRESS N	QTY PACKING
	Length	Width		
NY25075	75	2,5	110	100
NY25100	100	2,5	110	100
NY35140	140	3,5	200	100
NY25160	160	2,5	110	100
NY45180	180	4,5	280	100
NY25200	200	2,5	110	100
NY35200	200	3,5	200	100
NY45200	200	4,5	280	100
NY75200	200	7,5	650	100
NY75240	240	7,5	650	100
NY35250	250	3,5	200	100
NY45250	250	4,5	280	100
NY35280	280	3,5	200	100
NY45280	280	4,5	280	100
NY75280	280	7,5	650	100
NY45300	300	4,5	280	100
NY75360	360	7,5	650	100
NY45380	380	4,5	280	100
NY45430	430	4,5	280	100
NY75450	450	7,5	650	100
NY75500	500	7,5	650	100
NY75540	540	7,5	650	100

Other measures, colors and with label, consult availability. High standard of quality, flexibility, practicality and tensile strength in various applications, without the need of a tightening tool.


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SPECIAL PACKAGING



NEW MINOR WORM DRIVE BOWL

Material: carbon steel
PS091319
PS091422



KEY CLAMPS BOWL

Material: carbon steel
PBO0913
PBO1319
PBO1422
PBO1927



TOOL KIT

HEX HOSE CLAMP DRIVER 6mm and 7mm
Code: 9



CLAMPS KIT

10 clamps with a 9mm band and measure of 9-13 mm
08 clamps with a 9mm band and measure of 12-16 mm
10 clamps with a 9mm band and measure of 13-19 mm
08 clamps with a 14mm band and measure of 19-27 mm
08 clamps with a 14mm band and measure of 22-32 mm
04 clamps with a 14mm band and measure of 38-51 mm
02 HEX hose clamps drivers - 6mm and 7mm

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