



fastening is
something serious



CLAMP s.r.l.
Via dell'Artigianato, 1
20070 Cerro al Lambro (MI)
Ph. +39 02 9803211
Fax +39 02 980321399
support@clamp.it
www.clamp.it

Products and solutions
for clamping and cabling

CATALOGUE 2014





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Quality system certification

Clamp s.r.l. has been certified to have a quality management system in compliance with ISO 9001:2008 for both of its operative units.



Our staff

SALES MANAGER

Fabio Tramontin
+39 02 980321301
+39 3485273778
fabio.tramontin@clamp.it

SALES & MARKETING

Alice Cremascoli
+39 02 980321309
+39 3351765541
alice.cremascoli@clamp.it

Katarina Bego
+39 02 980321204
katarina.bego@clamp.it

NATIONAL SALES

Fabio Tiso
+39 335 5955040
fabio.tiso@clamp.it

Alessandro Cassiano
+39 02 980321302
+39 3386051042
alessandro.cassiano@clamp.it

ORDERS PROCESSING

Paolo Cairati
+39 02 980321405
paolo.cairati@clamp.it

Roberto Valle
+39 02 980321304
roberto.valle@clamp.it

LOGISTICS MANAGER

Alejandro Lorefice
+ 39 02 980321402
alejandro.lorefice@clamp.it

PURCHASE AND PRODUCTION DEPT.

Daniele Intra
+39 02 980321303
daniele.intra@clamp.it

Nicoletta Di Bella
+39 02 980321408
nicoletta.dibella@clamp.it

ACCOUNTING

Oscar Puddu
+39 02 980321201
oscar.puddu@clamp.it

Antonella Gilardi
+39 02 980321202
+39 3395691017
antonella.gilardi@clamp.it

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WORM-DRIVE CLAMPING

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 Clamping and Cabling



Technical information

DIAMETER CONVERSION INCHES TO mm: 1" = 25,4 mm

ex.: a 3" diameter corresponds to a 76,2 mm diameter (3" x 25,4 mm)
n.b.: inches diameter refers to the internal size of the rubber hose.

LESS THAN 1" DIAMETERS:

1/4" = 6,3 mm 3/8" = 9,5 mm 1/2" = 12,7 mm 5/8" = 15,8 mm 3/4" = 19 mm

CONVERSION PSI TO BAR:

1 PSI = 0,07 BAR (es.: 100 PSI = 7 BAR)

Tightening - torque

CONVERSION TABLE

Newton metres >kg. force metres:	1 Nm = 0,102 kg m	Kg. force metres >Newton metres:	1 kg m = 9,81 Nm
Newton metres >pound force inches:	1 Nm = 8,851 inc. x lb	Pound force inches >Newton metres:	1 inc x lb = 0,1129 Nm
Pound force inches >kg. force metres:	1 inc. x lb = 0,0115 kg m	Kg. force metres >pound force inches:	1 kg m = 86,8 inc. x lb

e-mail
technicalservice@clamp.it

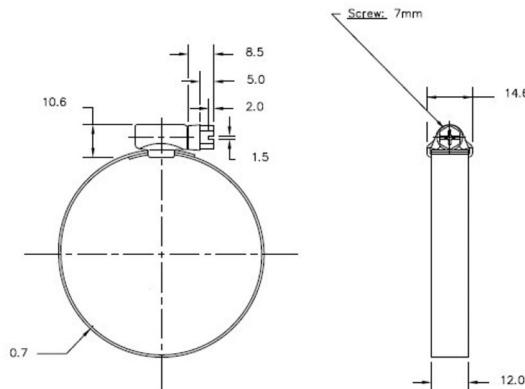


WORM-DRIVE CLAMPING PRODUCTS



12 mm DIN3017

Embossed band clamp manufactured in accordance with DIN3017 ensuring excellent performance. The housing is designed to guarantee high torque and satisfy even the heaviest applications. The band has smoothed edges protecting hoses from damages.



MATERIALS



RoHS compliant zinc plated band, housing and screw



430 SS band and housing, RoHS compliant zinc plated screw



304 SS band, housing and screw



316 SS band, housing and screw



APPLICATIONS



- Automotive
- Earth moving machines
- Agricultural
- Hardware and plumbing & sanitary
- White goods



- Shipyards
- Marine engines
- Petrochemical industry
- Food processing
- Chemical industry



RANGE Ø	CODE W1	CODE W2	CODE W4	CODE W5	BOX QUANTITY pcs	BAND WIDTH mm	BAND THICKNESS mm	HEX SCREW mm	TIGHTENING TORQUE Nm
16-25	CNS025	CNSP025	CNSX025	CNSH025					
16-27	CNS027	CNSP027	CNSX027	CNSH027					
20-32	CNS032	CNSP032	CNSX032	CNSH032					
23-35	CNS035	CNSP035	CNSX035	CNSH035					
25-40	CNS040	CNSP040	CNSX040	CNSH040					
30-45	CNS045	CNSP045	CNSX045	CNSH045					
30-50	CNS050	CNSP050	CNSX050	CNSH050					
40-60	CNS060	CNSP060	CNSX060	CNSH060					
45-65	CNS065	CNSP065	CNSX065	CNSH065					
50-70	CNS070	CNSP070	CNSX070	CNSH070					
60-80	CNS080	CNSP080	CNSX080	CNSH080					
70-90	CNS090	CNSP090	CNSX090	CNSH090					
80-100	CNS100	CNSP100	CNSX100	CNSH100					
90-110	CNS110	CNSP110	CNSX110	CNSH110					
100-120	CNS120	CNSP120	CNSX120	CNSH120					
110-130	CNS130	CNSP130	CNSX130	CNSH130					
120-140	CNS140	CNSP140	CNSX140	CNSH140					
130-150	CNS150	CNSP150	CNSX150	CNSH150					
140-160	CNS160	CNSP160	CNSX160	CNSH160					
150-170	CNS170	CNSP170	CNSX170	CNSH170					
160-180	CNS180	CNSP180	CNSX180	CNSH180					
170-190	CNS190	CNSP190	CNSX190	CNSH190					
180-200	CNS200	CNSP200	CNSX200	CNSH200					



EARTHING SCREW

Clamps with welded earthing screw for equipotential bonding of metallic sheathed cables, earthing bands, metallic conduits, etc.



WELDED BRIDGE

Worm Drive Clamps with welded bridge for rubber or pvc hoses with metallic spirals



PLASTIC THUMBSCREW

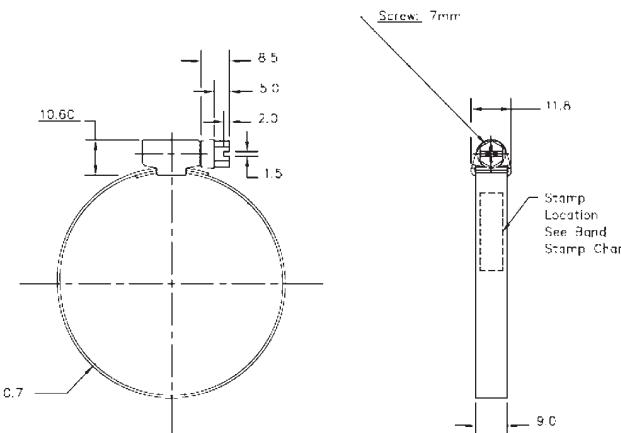
Worm Drive Clamps with plastic thumbscrew for light applications. It allows for easy and fast use without the need for specific tools.



Clamp packaging - on request

9 mm DIN3017

Embossed band clamp manufactured in accordance with DIN3017 ensuring excellent performance. The housing is designed to guarantee high torque and satisfy even the heaviest applications. The band has bevelled edges protecting hoses from damages.



MATERIALS



RoHS compliant zinc plated band, housing and screw



430 SS band and housing, RoHS compliant zinc plated screw



304 SS band, housing and screw



316 SS band, housing and screw



APPLICATIONS



- Automotive
- Earth moving machines
- Agricultural
- Hardware and plumbing & sanitary
- White goods



- Shipyards
- Marine engines
- Petrochemical industry
- Food processing
- Chemical industry



RANGE Ø	CODE W1	CODE W2	CODE W4	CODE W5	BOX QUANTITY pcs	BAND WIDTH mm	BAND THICKNESS mm	HEX SCREW mm	TIGHTENING TORQUE Nm
08-12	CN012W1	CN012	CNX012	CNH012	100	9	0,7	7	4,5
10-16	CN016W1	CN016	CNX016	CNH016					
12-20	CN020W1	CN020	CNX020	CNH020					
12-22	CN022W1	CN022	CNX022	CNH022					
16-25	CN025W1	CN025	CNX025	CNH025					
16-27	CN027W1	CN027	CNX027	CNH027					
20-32	CN032W1	CN032	CNX032	CNH032					
25-35	CN035W1	CN035	CNX035	CNH035					
25-40	CN040W1	CN040	CNX040	CNH040					
30-45	CN045W1	CN045	CNX045	CNH045					
32-50	CN050W1	CN050	CNX050	CNH050	50	25	0,7	7	4,5
40-60	CN060W1	CN060	CNX060	CNH060					
50-70	CN070W1	CN070	CNX070	CNH070					
60-80	CN080W1	CN080	CNX080	CNH080					
70-90	CN090W1	CN090	CNX090	CNH090					
80-100	CN100W1	CN100	CNX100	CNH100					
90-110	CN110W1	CN110	CNX110	CNH110					
100-120	CN120W1	CN120	CNX120	CNH120					
110-130	CN130W1	CN130	CNX130	CNH130					
120-140	CN140W1	CN140	CNX140	CNH140					
130-150	CN150W1	CN150	CNX150	CNH150					
140-160	CN160W1	CN160	CNX160	CNH160					



EARTHING SCREW



Clamps with welded earthing screw for equipotential bonding of metallic sheathed cables, earthing bands, metallic conduits, etc.



WELDED BRIDGE

Worm Drive Clamps with welded bridge for rubber or pvc hoses with metallic spirals



PLASTIC THUMBSREW

Worm Drive Clamps with plastic thumbscrew for light applications. It allows for easy and fast use without the need for specific tools.



Clamp packaging - on request

Double wire screw

Clamps suggested for spiral hoses. They are made by double zinc plated wire to ensure the performance also in presence of very soft and thin hoses.



MATERIALS



- RoHS compliant "Aluzink" pre-zinc plated steel



For further details see pag.74-75



APPLICATIONS

- Rubber or Plastic hoses with or without metallic spirals
- Aluminium foil ducts



AVAILABLE ON REQUEST

Single wire clamps for bellows, cv boots and light rubber protections.

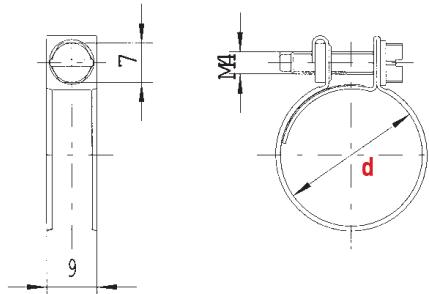


CODE	RANGE Ø mm	HEX SCREW	WIRE Ø Nm
BIFV012	9,5-12	M3	1,5
BIFV013	10,5-13		
BIFV014	11,5-14		
BIFV015	12,5-15		
BIFV016	13-16		
BIFV017	13,5-17		
BIFV018	15-18		
BIFV019	15,5-19		
BIFV020	17-20		
BIFV021	17,5-21		
BIFV022	18,5-22	M4	1,8
BIFV023	19-23		
BIFV025	21,5-25		
BIFV027	23,5-27		
BIFV029	25-29		
BIFV031	27-31		
BIFV033	29-33		
BIFV035	30,5-35		
BIFV037	33-37		
BIFV040	35,5-40		
BIFV043	38,5-43	M5	2,2
BIFV046	41-46		
BIFV049	43,5-49		
BIFV053	46,5-53		
BIFV056	50,5-56		
BIFV060	53,5-60		
BIFV064	55,5-64		
BIFV068	60-68		
BIFV072	64-72		
BIFV076	68,5-76		
BIFV080	72,5-80	M6	2,5
BIFV084	76,5-84		
BIFV088	80-88		
BIFV092	84-92		
BIFV096	88-96		
BIFV100	92-100		
BIFV104	95-104		
BIFV108	98-108		
BIFV112	103-112		
BIFV116	109-116		
BIFV120	111-120	3	2,8
BIFV124	115-124		
BIFV128	120-128		
BIFV132	124-132		
BIFV140	125-140		
BIFV150	134-150		
BIFV160	145-160		
BIFV165	150-165		
BIFV170	155-170		
BIFV180	165-180		
BIFV190	175-190		

Box quantity 100 pcs.

Mini clamps

Mini clamps have small diameter ranges suggested for light applications. The band has bevelled edges.



CODE	RANGE Ø mm	PACKAGING pcs/box	EX SCREW mm	BAND WIDTH mm	BAND THICKNESS mm	TIGHTENING TORQUE Nm
BEN709	7-9	2000				
BEN810	8-10	2000				
BEN911	9-11	2000				
BEN1012	10-12	2000				
BEN1113	11-13	3000				
BEN1214*	12-14	3000				
BEN1315	13-15	3000				
BEN1416	14-16	3000				
BEN1517	15-17	3000				
BEN1618	16-18	2500				
BEN1719	17-19	2500				
BEN1820*	18-20	2500				
BEN1921	19-21	2500				
BEN2325*	23-25	2500				

* On request: "IMQ" compliant and marked clamps



MATERIALS

- RoHS compliant zinc plated steel



For further details see pag. 74-75



APPLICATIONS

- Automotive
- White goods
- Gas equipment

S-clamps

Clamps manufactured in accordance with DIN 3017-2 to guarantee high torque and excellent performance. The inner bridge protects the hose especially during installation.



RANGE Ø mm	BAND WIDTH mm	BAND THICKNESS mm	BOLT
12 to 50	15	0,60	M6
25 to 80	20	0,90	M8



MATERIALS



- RoHS compliant zinc plated steel
- Other materials available on request

SAE standard perforated band

Perforated band clamps, available in different band widths, suitable for light applications. They are supplied with separate screw to ease assembly on large diameters, starting 165 mm diameter.



APPLICATIONS

- Automotive
- Hardware and Plumbing & Sanitary
- General Industry
- Shipyards
- Marine Engines
- Petrochemical Industry
- Food Processing
- Chemical Industry
- Air conditioning, ventilation systems and exhaust fan
- Large-diameter flexible hoses



For further details see pag.74-75

BAND WIDTH 8,5 mm, HEX SCREW 6 mm.

CODE	RANGE Ø mm
EK0012	8-12
EK0016	10-16
EK0020	11-20
EK0022	14-24
EK0025	16-25
EK0027	18-28
EK0032	20-32
EK0035	24-36
EK0040	25-40
EK0045	25-45
EK0050	32-50
EK0060	40-60

W1

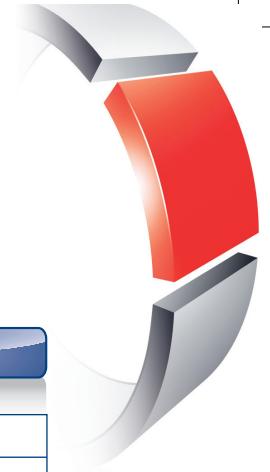
RoHS compliant zinc plated band, housing and screw.

BAND WIDTH 8 mm, HEX SCREW 6 mm.

CODE	RANGE Ø mm
B3704	6-16
B3706	11-20
B3708	13-23
B3710	14-27
B3712	17-32
B3716	24-38
B3720	30-45
B3724	38-51
B3728	44-57
B3732	49-64

W4

304 SS band, housing and screw



BAND WIDTH 12,7 mm, HEX SCREW 8 mm.

CODE	RANGE Ø mm	CODE	RANGE Ø mm
B62006	10-22	B63006	10-22
B62008	11-25	B63008	11-25
B62010	13-27	B63010	13-27
B62012	13-32	B63012	13-32
B62016	18-38	B63016	18-38
B62020	19-44	B63020	19-44
B62024	25-51	B63024	25-51
B62028	32-57	B63028	32-57
B62032	38-63	B63032	38-63
B62036	44-70	B63036	44-70
B62040	51-76	B63040	51-76
B62044	57-82	B63044	57-82
B62048	64-89	B63048	64-89
B62052	70-95	B63052	70-95
B62056	76-101	B63056	76-101
B62060	83-108	B63060	83-108
B62064	64-114	B63064	64-114
B62072	76-127	B63072	76-127
B62080	89-140	B63080	89-140
B62088	102-152	B63088	102-152

W2

430 SS band and housing, RoHS compliant zinc plated screw.

W4

304 SS band, housing and screw.

BAND WIDTH 14,3 mm, HEX SCREW 8 mm.

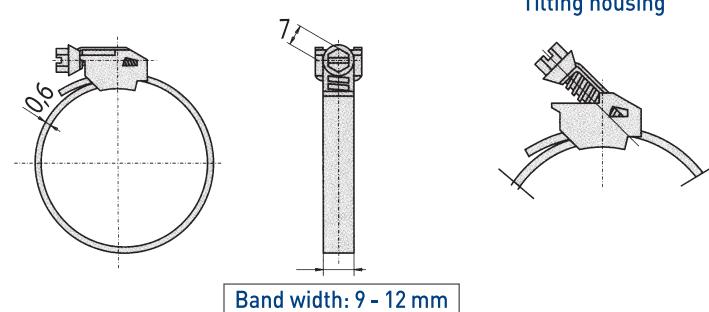
CODE	RANGE Ø mm
B300096	114-165
B300104	127-178
B300116	146-197
B300128	64-216
B300140	184-235
B300152	51-254
B300164	51-273
B300176	241-292
B300188	51-311
B300208	292-343
B300224	318-368
B300236	337-387
B300248	51-406

W4

304 SS band, housing and screw.

Hi-Flex VN - VNS

Tilting housing worm-drive clamps guarantee versatile and quick application especially on large diameter hoses. The toothed band and the bevelled edges protect the hose from damages.



MATERIALS



430 SS band and housing, RoHS compliant zinc plated screw.



For further details see pag.74-75



APPLICATIONS

- Air conditioning, ventilation systems and exhaust fan
- Large-diameter flexible hoses



On request: worm drive clamps with welded bridge for rubber or pvc hoses with metallic spirals

CODE 9 mm	CODE 12 mm	RANGE Ø mm	TIGHTENING TORQUE Nm
VN027	N.D.	16-27	4 for 9 mm
VN035	N.D.	20-35	
VN047	N.D.	20-47	
VN050	VNS050	30-50	
VN060	VNS060	30-60	
VN 070	VNS070	40-70	
VN 080	VNS080	40-80	
VN090	VNS090	40-90	
VN100	VNS100	60-100	
VN115	VNS115	60-115	
VN125	VNS125	60-125	
VN145	VNS145	60-145	
VN175	VNS175	60-175	
VN215	VNS215	60-215	
VN288	VNS288	60-288	
VN320	VNS320	60-320	
VN370	VNS370	60-370	- 7 for 12 mm
VN420	VNS420	60-420	
VN540	VNS540	60-540	
VN650	VNS650	60-650	
VN750	VNS750	60-750	

Box quantity 100 pcs.

Fast Clamp 14 mm

A kit composed of a continuous stainless steel band and separated housings. It's the solution to make a 14 mm band width clamp of every size, whenever needed.



CODE	DESCRIPTION	BAND WIDTH W2	BAND THICKNESS mm	HEX SCREW mm
FC4009	25 mt. roll of continuous perforated band	14	0,8	8
FC4010	25 housing box			
FC4011	25 mt. roll of continuous perforated band	14	0,8	8
FC4012	25 housing box			



MATERIALS



430 SS band and housing, RoHS compliant zinc plated screw.



304 SS band, housing and screw



APPLICATIONS

- Air conditioning, ventilation systems and exhaust fan
- Large-diameter flexible hoses



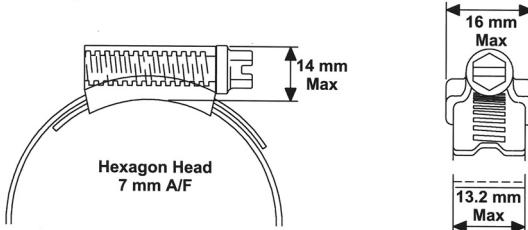
Available to manufacture customized band portions

CODE	DESCRIPTION	BAND WIDTH mm	BAND THICKNESS mm	HEX SCREW mm
FC4013	3 mt. roll of continuous perforated band W2 + 8 housing box	14	0,8	8
FC4014	3 mt. roll of continuous perforated band W4 + 8 housing box			



Jubilee

Jubilee worm-drive clamps are designed and manufactured to ensure high torque, greater than usual clamps. The housing and screw design allows maximum working engagement with the band, making them particularly suitable for heavy-duty applications in case of great pressures and vibrations.



CODE		RANGE Ø	BAND WIDTH
W1	W4	mm	mm
JC012	JCX012	9.5-12	9
JC016	JCX016	11-16	9
JC020	JCX020	13-20	9
JC022	JCX022	16-22	13
JC025	JCX025	18-25	13
JC030	JCX030	22-30	13
JC035	JCX035	25-35	13
JC040	JCX040	30-40	13
JC045	JCX045	32-45	13
JC050	JCX050	35-50	13
JC055	JCX055	40-55	13
JC060	JCX060	45-60	13
JC070	JCX070	55-70	13
JC080	JCX080	60-80	13
JC090	JCX090	70-90	13
JC100	JCX100	85-100	13
JC120	JCX120	90-120	13
JC140	JCX140	110-140	13
JC150	JCX150	120-150	13
JC165	-	135-165	13
JC190	-	158-190	13
JC216	-	184-216	13
JC242	-	210-242	13
JC267	-	235-267	13
JC292	-	260-292	13
JC318	-	286-318	13



MATERIALS



- RoHS compliant zinc plated band, housing and screw



- 304 SS band, housing and screw



APPLICATIONS

- Earth moving machines
- Engines
- Agricultural
- Heavy vehicles
- Shipyards

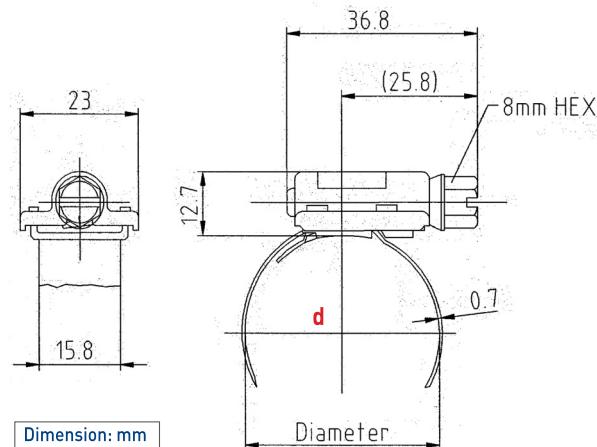


For further details see pag. 74-75



HTM (hi-torque)

High-torque clamp, superior performance than usual worm-drive clamps. Its strength and the engagement of 8 screw threads to the band make it particularly suitable for high-pressure and high-vibration applications. A protective inner liner prevents any damage to the hose.



MATERIALS



304 SS band and housing
* 410 SS screw



For further details see pag. 74-75



APPLICATIONS

- Earth moving machines
- Engines
- Agricultural
- Heavy vehicles
- Shipyards



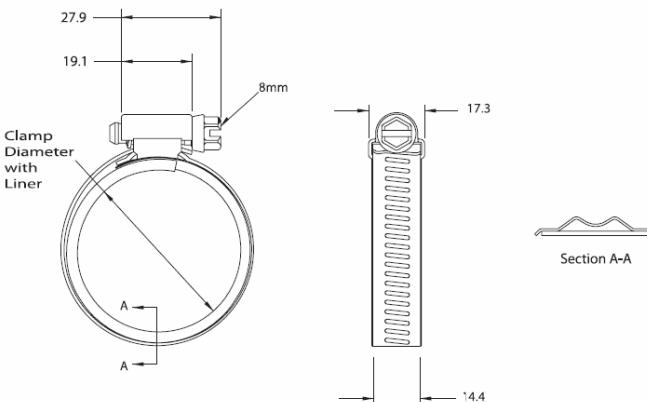
ON REQUEST

Available in 316 SS

CODE	RANGE Ø mm	TIGHTENING TORQUE Nm	12
HTM-175	25-45		
HTM-200	32-54		
HTM-250	45-67		
HTM-300	57-79		
HTM-350	70-92		
HTM-400	83-105		
HTM-450	95-118		
HTM-500	108-130		
HTM-550	121-143		
HTM-600	133-156		
HTM-650	146-168		
HTM-700	159-181		
HTM-750	172-194		
HTM-800	184-206		
HTM-850	197-219		
HTM-900	210-232		

Wave seal

Optimal clamp in case of diameter variations due to pressure and temperature changes. The uniquely designed inner ring creates a steady 360° seal preventing unwanted leakage.



MATERIALS



- 304 SS band, housing, screw and inner ring

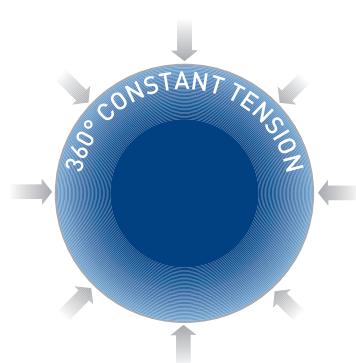


APPLICATIONS

- Cooling systems
- Air conducting systems
- Engine exhaust systems
- Charged air system - intercooler



For further details see pag. 74-75

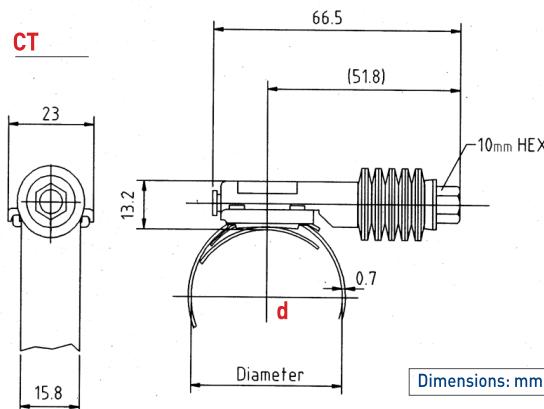


- Reduced maintenance costs
- Easy fit in tight spaces

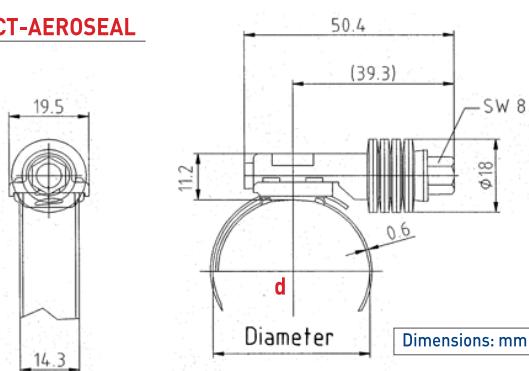
CODE	RANGE Ø mm
IC033W	21-33
IC035W	27-35
IC040W	26-40
IC043W	29-43
IC046W	30-46
IC052W	34-52
IC059W	39-59
IC062W	41-62
IC065W	43-65
IC071W	46-71
IC078W	52-78
IC084W	56-84
IC091W	60-91
IC097W	64-97
IC103W	68-103
IC110W	71-110
IC122W	81-122
IC135W	90-135
IC148W	97-148

CT (constant torque)

CT clamps are designed to adjust to the hose to respond temperature fluctuations. The thermal compensation given by the Belleville spring provides a uniform high tightening torque. Against leakage occurring with non-compensating clamps, CT use reduces maintenance and refill costs.



CT-AEROSEAL



CODE	RANGE Ø mm	TIGHTENING TORQUE Nm
CT-AEROSEAL		
CT-9408	13-23	6,5
CT-9410	14-27	
CT-9412	17-32	
CT-9416	21-38	
CT-9420	21-44	

CODE	RANGE Ø mm	TIGHTENING TORQUE Nm
CT		
CT-175	25-45	9,0
CT-200	32-54	
CT-250	45-67	
CT-300	57-79	
CT-350	70-92	
CT-400	83-105	
CT-450	95-118	
CT-500	108-130	
CT-550	121-143	
CT-600	133-156	
CT-650	146-168	
CT-700	159-181	
CT-750	172-194	
CT-800	184-206	
CT-850	197-219	
CT-900	210-232	



MATERIALS



304 SS band and housing
* 410 SS screw



For further details see pag. 74-75



APPLICATIONS

- Cooling systems
- Air conducting system
- Engine exhaust systems
- Charged air system - Intercooler

Exhaust clamps

U-Bolt clamps used to connect exhaust pipes on light and heavy vehicles and metallic pipes.

MAR



CODE	RANGE Ø mm	WIRE 8 MA
MAR35-8	33-35	
MAR38-8	36-38	
MAR42-8	40-42	
MAR45-8	43-45	
MAR48-8	46-48	
MAR51-8	49-51	
MAR54-8	52-54	
MAR57-8	55-57	
MAR60-8	58-60	

CODE	RANGE Ø mm	WIRE 10 MA
MAR35-10	33-35	
MAR38-10	36-38	
MAR40-10	39-40	
MAR43-10	40-42	
MAR45-10	43-45	
MAR48-10	46-48	
MAR51-10	49-51	
MAR54-10	52-54	
MAR57-10	55-57	
MAR60-10	58-60	
MAR63-10	61-63	
MAR66-10	64-66	
MAR69-10	67-69	
MAR72-10	70-72	
MAR76-10	73-76	
MAR80-10	77-80	
MAR86-10	81-86	
MAR89-10	87-89	
MAR92-10	90-92	
MAR98-10	93-98	
MAR106-10	99-106	
MAR110-10	107-110	
MAR118-10	111-118	
MAR125-10	119-125	

MARF



MATERIALS

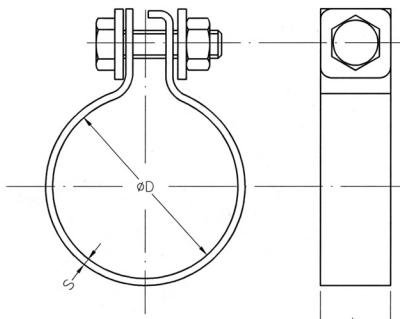


- RoHS compliant zinc plated steel; self-locking nut

CODE	DIAMETER D mm	SUPPLIED Ø mm	BAND THICKNESS mm	BAND WIDTH mm	BOLT
					mm
MARF038	38	39	2,5 (x2)	13,5	8MA
MARF041	41	42			
MARF042	42	43			
MARF043	43	44			
MARF044	44	45			
MARF045	45	46			
MARF047	47	48			
MARF049	49	50			
MARF052	52	52,7			
MARF054	54	55			

Heavy bolt clamps

Heavy Bolt Clamps for exhaust systems and metallic pipes.



CODE	RANGE Ø D mm	BAND WIDTH A mm	BAND THICKNESS mm	BOLT
P038	37-39			
P040	39-41			
P043	42-44			
P045	44-46			
P048	47-49			
P050	49-51			
P053	52-54			
P055	54-56			
P057	56-58			
P060	59-61			
P063	62-64			
P065	64-66			
P068	67-69			
P070	69-71			
P073	72-74			
P076	75-77			
P078	77-79			
P080	79-81			
P083	82-84			
P086	85-88			
P089	88-91			
P092	91-95			
P098	96-101			
P103	102-105			
P106	105-109			
P108	107-112			
P114	113-118			
P116	115-120			



MATERIALS

- RoHS compliant zinc plated steel.



For further details see pag. 74-75



APPLICATIONS

- Agriculture and irrigation
- Special vehicles and tankers
- Building equipment
- General industry

PCN

Bolt and barrel clamps for great pressures and reinforced hoses. The bolt is directly engaged in the threaded barrel and it can thus be fastened with an electric or pneumatic tool.



CODE	BAND WIDTH	BAND THICKNESS	BOLT
Ø Min.-Max	A mm	B mm	
PCN036-039			
PCN040-043			
PCN044-047			
PCN048-051			
PCN052-055			
PCN056-059			
PCN060-063			
PCN064-067	22		8MA
PCN068-073			
PCN074-079			
PCN080-085			
PCN086-091			
PCN092-097		1,2	
PCN098-103			
PCN104-112			
PCN113-121			
PCN122-130			
PCN131-140			
PCN140-148			
PCN149-161			
PCN162-174	24		10MA
PCN175-187			
PCN188-200			
PCN201-213			
PCN214-227			
PCN227-239			
PCN240-252			



MATERIALS

W2

430 SS band and bridge, RoHS compliant zinc plated bolt, barrel and washer.

W4

W5 On request



For further details see pag. 74-75

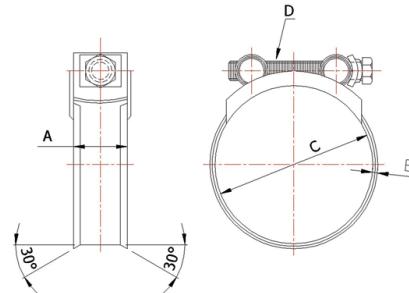


APPLICATIONS

- Agriculture and irrigation
- Special vehicles
- Building equipment

AC-PC w2 w4 w5

Bolt and barrel clamps for great pressures and reinforced hoses. The bolt is directly engaged in the threaded barrel and it can thus be fastened with an electric or pneumatic tool.



CODE			BAND WIDTH A mm	BAND THICKNESS B mm	BOLT			
W2	W4	W5			W2	D	W4	W5
AC023-025W2	PC023-025SS	PC023-025W5					6MA	6MA
AC026-028W2	PC026-028SS	PC026-028W5						
AC029-031W2	PC029-031SS	PC029-031W5						
AC032-035W2	PC032-035SS	PC032-035W5						
AC036-039W2	PC036-039SS	PC036-039W5						
AC040-043W2	PC040-043SS	PC040-043W5						
AC044-047W2	PC044-047SS	PC044-047W5						
AC048-051W2	PC048-051SS	PC048-051W5						
AC052-055W2	PC052-055SS	PC052-055W5						
AC056-059W2	PC056-059SS	PC056-059W5						
AC060-063W2	PC060-063SS	PC060-063W5						
AC064-067W2	PC064-067SS	PC064-067W5						
AC068-073W2	PC068-073SS	PC068-073W5						
AC074-079W2	PC074-079SS	PC074-079W5						
AC080-085W2	PC080-085SS	PC080-085W5						
AC086-091W2	PC086-091SS	PC086-091W5						
AC092-097W2	PC092-097SS	PC092-097W5						
AC098-103W2	PC098-103SS	PC098-103W5						
AC104-112W2	PC104-112SS	PC104-112W5						
AC113-121W2	PC113-121SS	PC113-121W5						
PC122-130W2	PC122-130SS	PC122-130W5						
PC131-140W2	PC131-140SS	PC131-140W5						
PC140-148W2	PC140-148SS	PC140-148W5						
PC149-161W2	PC149-161SS	PC149-161W5						
PC162-174W2	PC162-174SS	PC162-174W5						
PC175-187W2	PC175-187SS	PC175-187W5						
PC188-200W2	PC188-200SS	PC188-200W5						
PC201-213W2	PC201-213SS	PC201-213W5						
PC214-227W2	PC214-227SS	PC214-227W5						
PC227-239W2	PC227-239SS	PC227-239W5						
PC240-252W2	PC240-252SS	PC240-252W5						



MATERIALS



430 SS band and bridge, RoHS compliant zinc plated bolt, barrel and washer.



304 SS



316 SS



For further details see pag. 74-75



APPLICATIONS

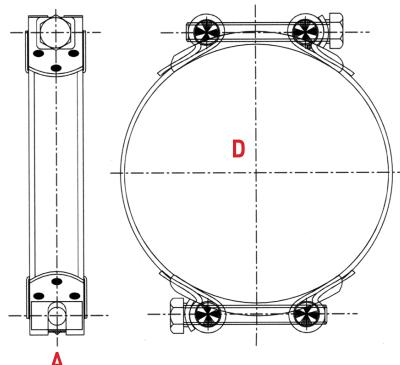
- Agriculture and irrigation
- Special vehicles
- Building equipment
- Shipyards
- Food processing
- Chemical industry



Burrs welding: spot-welding ensures high tear resistance

Bi-Blok

Bolt clamps with double locking system, used for heavy duty applications and large diameters.



CODE	RANGE Ø D mm	BAND WIDTH A mm	BAND THICKNESS mm	BOLT
BC079	74-79			
BC085	80-85			
BC091	86-91			
BC097	92-97			
BC103	98-103			
BC112	104-112			
BC121	113-121			
BC130	122-130			
BC139	131-139			
BC148	140-148			
BC161	149-161			
BC174	162-174			
BC187	175-187			
BC200	188-200	30	1,7	10MA
BC220	200-220			
BC240	220-240			
BC260	240-260			
BC280	260-280			
BC300	280-300			
BC325	300-325			
BC350	325-350			
BC375	350-375			
BC400	375-400			
BC425	400-425			
BC450	425-450			
BC475	450-475			
BC500	475-500			



MATERIALS



- Zinc plated steel
- Bolt and nut: 8.8 steel
- Surface treatment: RoHS compliant zinc coating



For further details see pag. 74-75



APPLICATIONS

- Agriculture and irrigation
- Special vehicles
- Building equipment
- General industry



- Burrs welding: spot-welding ensures high tear resistance



Repair and connection clamps

Couplings available in several types. Easy to assemble, they provide high reliability and long life. Customized sizes and designs available on request.

CRM - C2A



Only repair

CRB - CRC - CRD - GTA



Connection and repair

TABLE DESCRIPTION OF LINES

SERIES	FUNCTION	AVAILABLE DIAMETERS mm	BAND WIDTH mm	BOLT NUMBER	BAND PORTIONS	BOLT TYPE	
CRM	REPAIR	16 > 93 94 > 229	70 90	1	1	10MA	
		21 > 162 167 > 229	90 140	2	1	10MA	
CRB	CONNECTION AND REPAIR	29 > 48	120	3	1	12MA	
CRC		48 > 390	200	3	1	16MA	
CRD	CONNECTION AND REPAIR	108 > 390	300	4	1	16MA	
GTA		60 > 78	120	2+2	2	16MA	
		87 > 135	180	3+3+3	3		
		130 > 187	200	3+3+3	3		
		185 > 258	300	4+4+4	3		
		258 > 288	380	5+5+5	3		
		285 > 1070	500	6+6+6	3		



MATERIALS

- Band: 304 SS
- Bolts: zinc plated 8.8 steel (on request 304 SS or dacromet treatment)
- Sealing gaskets: nitrile rubber, water, gas and hydrocarbon resistant; non-toxic and D.M. 102 compliant (NBR, DIN3335, on request Viton or silicon rubber)
- Operating temperature °C: -50 +110



APPLICATIONS

- Water, gas, oil, hydrocarbon, etc. pipe lines
- Plumbing & sanitary systems
- Connection of different diameter/kind hoses

V-Band clamps

Couplings used especially on:

- agricultural, chemical and food-processing systems
- water treatment systems and filter manufacturing
- turbine manifolds
- pumps
- exhaust systems

Advantages:

- weight and dimension reduction with respect to bolted flanges, easy to assemble and disassemble.



GENERAL PURPOSE V-INSERT CLAMP



CHARACTERISTICS

Welded v-inserts



MATERIALS

Stainless steel



BOLT

1/4", 5/16", 3/8" or equivalent metric size



DIMENSIONS

Diameter from 2" up



APPLICATIONS

Pumps, engines, heavy vehicle exhaust systems, turbochargers and other flanged connections

QUICK CONNECT V-INSERT CLAMP



CHARACTERISTICS

Welded v-inserts, quick release bolt



MATERIALS

Stainless steel



BOLT

1/4", 5/16", or equivalent metric size



DIMENSIONS

Diameter from 2" up



APPLICATIONS

Vehicle exhaust systems, filters, food-processing systems and other flanged connections



QUICK RELEASE V-INSERT CLAMP



CHARACTERISTICS

Welded v-inserts, quick release bolt and facilitated fastening



MATERIALS

Stainless steel



BOLT

1/4", 5/16" or equivalent metric size



DIMENSIONS

Diameter from 2" up



APPLICATIONS

Filters, food-processing systems and other flanged connections

LIGHT DUTY V-INSERT CLAMP



CHARACTERISTICS

Clamp with welded v-inserts



MATERIALS

Stainless steel



BOLT

5/16" (8 mm) hexagon bolt



DIMENSIONS

1,75" to 7" diameter



APPLICATIONS

Engines and generic flanged connections

LIGHT DUTY V-CLAMP



CHARACTERISTICS

V-shaped clamp



MATERIALS

Stainless or zinc plated steel



BOLT

1/4", 5/16" (8 mm) hexagon bolt



DIMENSIONS

0,75" to 7" diameter



APPLICATIONS

Generic flanged connections

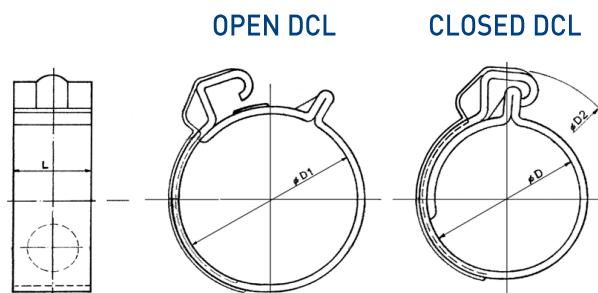




SCREW-LESS CLAMPING PRODUCTS

DCL

DCL clamps are manufactured in one-piece with a clasp hooked on a pawl preventing even accidental release. Clamping force is evenly distributed throughout the clamp and the smooth inside protects the hose from damage. They are particularly suitable for mass industrial productions thanks to their fast and easy fitting.



CODE	RANGE		CLOSED DIAM.	COLOR
	Min.	Max.	mm	
DCL080	8,5	9,5	8,0	blue
DCL085	9,0	10,0	8,5	green
DCL090	9,5	11,0	9,0	purple
DCL095	10,0	11,5	9,5	black
DCL100	10,5	11,5	10,0	green
DCL105	11,0	12,0	10,5	blue
DCL110	11,5	12,5	11,0	green
DCL115	12,0	13,0	11,5	purple
DCL120	12,5	13,5	12,0	black
DCL125	13,0	14,0	12,5	red
DCL130	13,5	14,5	13,0	green
DCL135	14,0	15,0	13,5	purple
DCL140	14,5	15,5	14,0	red
DCL145	15,0	16,0	14,5	purple
DCL150	15,5	16,5	15,0	black
DCL155	16,0	17,0	15,5	blue

THICKNESS: 0,5 mm COD. DCL080 to COD. DCL100
0,6 mm COD. DCL105 to COD. DCL235

WIDTH: 6 mm COD. DCL080 to COD. DCL135
8 mm COD. DCL140 to COD. DCL235

CODE	RANGE		CLOSED DIAM.	COLOR
	Min.	Max.	mm	
DCL160	16,5	17,5	16,0	green
DCL165	17,0	18,0	16,5	black
DCL170	17,5	18,5	17,0	red
DCL175	18,0	19,0	17,5	blue
DCL180	18,5	19,5	18,0	green
DCL185	19,0	20,0	18,5	purple
DCL190	19,5	21,0	19,0	blue
DCL195	20,0	21,5	19,5	black
DCL200	20,5	22,0	20,0	red
DCL205	21,0	22,5	20,5	blue
DCL210	21,5	23,0	21,0	green
DCL215	22,0	23,5	21,5	purple
DCL220	22,5	24,0	22,0	black
DCL225	23,0	24,5	22,5	red
DCL230	23,5	25,0	23,0	blue
DCL235	24,0	25,5	23,5	green

* Other sizes available on request



For further details see pag. 74-75



MATERIALS



- 304 SS



APPLICATIONS

- Automotive and engines
- White goods
- Beverage industry
- General industry



Compact pneumatic pliers



Assembly and disassembly manual pliers

DCL-R

DCLR clamps have similar characteristics of DCL. The difference lies in the 9 mm band width and the presence of 1 or 2 compensating reserves.



MATERIALS



- 304 SS



For further details see pag. 74-75



APPLICATIONS

- Automotive and engines
- White goods
- General industry



Assembly and disassembly
manual pliers



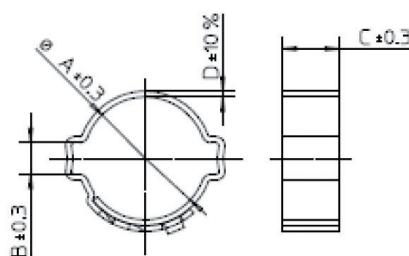
Compact pneumatic pliers

CODE	RANGE Ø mm	CLOSED DIAM. mm	BOX QUANTITY
			Box
DCLR240	24,5-26,5	24	1.500
DCLR245	25-27	24,5	1.500
DCLR250	25,5-27,5	25	1.500
DCLR255	26-28	25,5	1.500
DCLR260	26,5-28,5	26	1.500
DCLR265	27-29	26,5	1.500
DCLR275	28-30	27,5	1.500
DCLR285	29-31	28,5	1.500
DCLR290	29,5-31,5	29	1.500
DCLR300	30,5-32,5	30	1.500
DCLR315	32-34	31,5	1.200
DCLR320	32,5-34,5	32	1.200
DCLR325	33-35	32,5	1.200
DCLR330	33,5-35,5	33	1.000
DCLR335	34-36	33,5	1.000
DCLR345	35-37	34,5	1.000
DCLR350	35,5-37,5	35	1.000
DCLR365	37-39	36,5	1.000
DCLR375	38-40	37,5	900
DCLR385	39-41	38,5	900
DCLR420	42,5-44,5	42	800
DCLR430	43,5-45,5	43	700
DCLR435	44-46	43,5	700
DCLR440	44,5-46,5	44	700
DCLR450	45,5-47,5	45	700
DCLR470	47,5-49,5	47	600
DCLR495	50-52	49,5	600
DCLR500	50,5-52,5	50	1.100
DCLR515	52-54	51,5	1.100
DCLR520	52,5-54,5	52	1.100
DCLR525	53-55	52,5	1.100
DCLR530	53,5-55,5	53	1.100
DCLR545	55-57	54,5	1.000
DCLR560	56,5-58,5	56	1.000
DCLR565	57-59	56,5	1.000
DCLR570	57,5-59,5	57	1.000
DCLR605	61-63	60,5	1.000
DCLR670	67,5-69,5	67	700
DCLR710	71,5-73,5	71	600

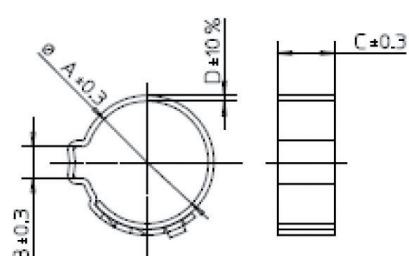
Compensating reserves to self-adjust to diametrical variations

CL (1-2 ears)

One and two-ear clips are the most economical choice for fastening small and medium diameter hoses with a fast and easy application. A pneumatic tool is available for large volume applications.



CODE	RANGE Ø mm	SUPPLIED Ø mm	BAND WIDTH	BAND THICKNESS
			mm	mm
CL1007/C	5-7	7,1	7	0,6
CL1009/C	7-9	9,1	7	0,6
CL1011/C	9-11	11,1	7	0,6
CL1012/C	10-12	12,1	7	0,6
CL1013/C	11-13	13,1	7	0,6
CL1015/C	13-15	15,1	7	0,6
CL1017/C	14-17	17,3	7	0,6
CL1018/C	15-18	18,3	7	0,6
CL1020/C	17-20	20,3	10	1
CL1021/C	18-21	21,3	10	1
CL1023/C	20-23	23,3	10	1
CL1025/C	22-25	25,3	10	1
CL1027/C	23-27	27,3	10	1
CL1028/C	25-28	28,3	10	1
CL1031/C	28-31	31,3	10	1
CL1034/C	31-34	34,3	10	1
CL1037/C	34-37	37,3	10	1
CL1040/C	37-40	40,3	10	1



CODE	RANGE Ø mm	SUPPLIED Ø mm	BAND WIDTH	BAND THICKNESS
			mm	mm
CL070-1/C	5-7	7,1	7	0,6
CL090-1/C	7-9	9,1	7	0,6
CL100-1/C	8-10	10,1	7	0,6
CL110-1/C	9-11	11,1	7	0,6
CL120-1/C	10-12	12,1	7	0,6
CL130-1/C	11-13	13,1	7	0,6
CL140-1/C	12-14	14,1	7	0,6
CL150-1/C	13-15	15,1	7	0,6
CL160-1/C	14-16	16,1	7	0,6
CL170-1/C	15-17	17,3	7	0,6
CL180-1/C	16-18	18,3	7	0,6
CL190-1/C	17-19	19,3	10	1
CL210-1/C	18-21	21,3	10	1
CL230-1/C	20-23	23,3	10	1
CL250-1/C	22-25	25,3	10	1
CL270-1/C	23-27	27,3	10	1
CL280-1/C	25-28	28,3	10	1
CL310-1/C	28-31	31,3	10	1
CL340-1/C	31-34	34,3	10	1
CL370-1/C	34-37	37,3	10	1
CL400-1/C	37-40	40,3	10	1



MATERIALS



- 430 SS



- 304 SS (On request)



For further details see pag. 74-75



APPLICATIONS

- Home appliances
- Electrotechnics industry
- Welding equipment
- Compressed air systems



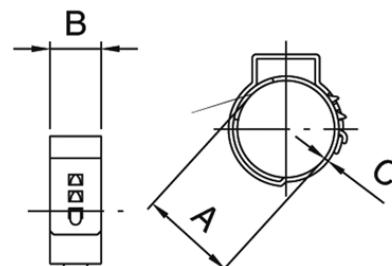
CL TEN 1099



Pneumatic pliers

CAW (smooth inside)

Ear clamp manufactured in one-piece with no steps or gaps on inner circumference. The bevelled edges protect the hose from damage. They are particularly suitable for PVC and rubber hoses and for mass industrial productions thanks to their fast and easy fitting.



CODE	RANGE Ø mm	SUPPLIED Ø A mm	BAND THICKNESS C mm	BAND WIDTH B mm
			C mm	B mm
CAW07,0	5,7-7,0	7,0	0,5	5,0
CAW08,0	6,8-8,0	8,0	0,5	5,0
CAW08,7	7,0-8,7	8,7	0,5	5,0
CAW09,0	7,3-9,0	9,0	0,5	5,0
CAW09,5	7,8-9,5	9,5	0,5	5,0
CAW10,0	8,3-10,0	10,0	0,5	5,0
CAW10,5	8,8-10,5	10,5	0,5	5,0
CAW10,9	9,2-10,9	10,9	0,5	5,0
CAW11,3	9,6-11,3	11,3	0,5	5,0
CAW11,8	10,1-11,8	11,8	0,5	5,0
CAW11,9	9,4-11,9	11,9	0,6	7,0
CAW12,3	9,8-12,3	12,3	0,6	7,0
CAW12,8	10,3-12,8	12,8	0,6	7,0
CAW13,3	10,8-13,3	13,3	0,6	7,0
CAW13,8	11,3-13,8	13,8	0,6	7,0
CAW14,0	11,5-14,0	14,0	0,6	7,0
CAW14,2	11,7-14,2	14,2	0,6	7,0
CAW14,5	12,0-14,5	14,5	0,6	7,0
CAW14,8	12,3-14,8	14,8	0,6	7,0
CAW15,3	12,8-15,3	15,3	0,6	7,0
CAW15,7	13,2-15,7	15,7	0,6	7,0
CAW16,0	13,5-16,0	16,0	0,6	7,0
CAW16,2	13,7-16,2	16,2	0,6	7,0
CAW16,6	14,1-16,6	16,6	0,6	7,0
CAW16,8	14,3-16,8	16,8	0,6	7,0
CAW17,0	14,5-17,0	17,0	0,6	7,0
CAW17,5	15,0-17,5	17,5	0,6	7,0
CAW17,8	14,6-17,8	17,8	0,6	7,0
CAW18,0	14,8-18,0	18,0	0,6	7,0
CAW18,5	15,3-18,5	18,5	0,6	7,0

Other sizes available on request



MATERIALS

- 304 SS



For further details see pag. 74-75



APPLICATIONS

- Medical industry
- Electronics industry
- Welding equipment
- Beverage industry



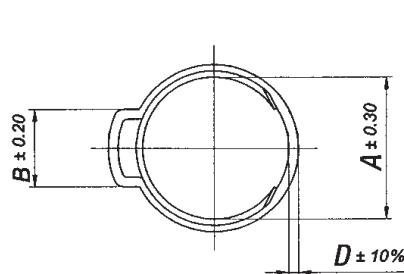
CL TEN 1099



Pneumatic pliers

SG-SGX (smooth inside)

Ear clamps with internal protective ring are ideal for PVC and rubber hoses. The bevelled edges and the internal ring protect the hose from damage.



CODE		RANGE Ø	SUPPLIED Ø	BAND THICKNESS	EAR WIDTH	BAND WIDTH
W1*	W4	mm	A mm	D mm	B mm	C mm
SG09,0	SGX09,0	7,5-8,5	8,5	0,8	5,5	6,0
SG10,0	SGX10,0	8,0-9,5	9,5	0,8	6,0	
SG11,0	SGX11,0	9,0-10,5	10,5	0,8	6,5	6,5
SG12,0	SGX12,0	10,0-11,5	11,5	0,8	7,0	
SG12,8	SGX12,8	10,5-12,5	12,5	0,9	7,5	7,0
SG14,0	SGX14,0	11,5-13,5	13,5	1,0	8,0	
ND	SGX15,0	12,4-14,5	14,5	1,0	8,0	7,5
SG16,0	SGX16,0	13,0-15,3	15,3	1,1 (1,0 W4)	8,5	
ND	SGX17,0	14,5-16,3	16,3	1,0	9,0	7,5
SG18,0	SGX18,0	15,0-17,3	17,3	1,2 (1,0 W4)	9,5	
ND	SGX19,0	16,0-18,3	18,3	1,0	9,5	7,5
ND	SGX20,0	17,0-19,3	19,3	1,0	10,0	



MATERIALS



- RoHS compliant zinc plated steel (*304 SS internal ring)



- 304 SS



For further details see pag. 75-76



APPLICATIONS

- Medical industry
- Electronics industry
- Welding equipment
- Beverage industry



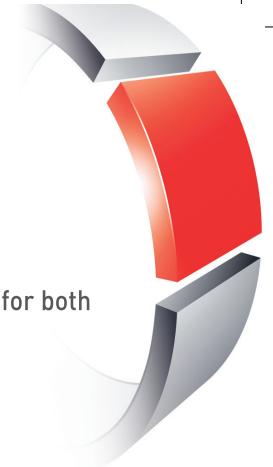
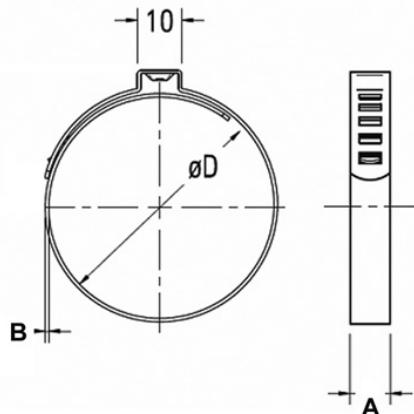
CL TEN 1099



Pneumatic pliers

CP

Ear clamps used to fasten bellows, rubber hoses and cv boots. Their smooth inside makes them suitable for both soft rubber and high shore-hardness hoses.



CODE	RANGE Ø mm	BAND WIDTH A mm	BAND THICKNESS B mm
CP72430	24-30		
CP73137	31-37		
CP73844	38-44		
CP74551	45-51		
CP75258	52-58		
CP75965	59-65		
CP76672	66-72		
CP77379	73-79		
CP78086	80-86		
CP78793	87-93		
CP994100	94-100		
CP97379	73-79	7	0,8
CP98086	80-86		
CP98793	87-93		
CP994100	94-100		
CP9101107	101-107		
CP9108114	108-114		
CP9115121	115-121		
		9	1,0



MATERIALS



- RoHS compliant zinc plated steel



- 304 SS *on request



For further details see pag. 74-75



APPLICATIONS

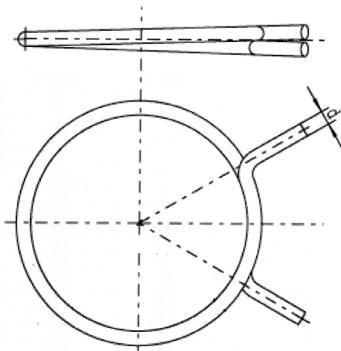
- Automotive, OEM and after-market
- Motorcycle OEM



CL TEN 1099
(pneumatic pliers available on request)

Single-wire

Single-wire spring clamps compensate little diameter variations. They are suitable for very thin hoses and light applications. It is recommended to use appropriate fittings apt to contrast the spring effect and avoid the hose from slipping off.



CODE	MIN. Ø	IDEAL Ø	MAX Ø	WIRE Ø
	mm	mm	mm	d mm
MFM068	6.6	6.8	7	
MFM073	7	7.3	7.5	
MFM076	7.3	7.6	7.8	
MFM081	7.8	8.1	8.3	
MFM086	8.3	8.6	8.8	
MFM091	8.8	9.1	9.3	
MFM096	9.3	9.6	9.8	
MFM101	9.8	10.1	10.4	
MFM107	10.4	10.7	11	
MFM113	11	11.3	11.6	
MFM119	11.6	11.9	12.2	
MFM126	12.2	12.6	12.9	
MFM128	12.4	12.8	13.1	1.2
MFM133	12.9	13.3	13.6	
MFM137	13.3	13.7	14.1	1.5
MFM140	13.6	14	14.4	
MFM148	14.4	14.8	15.1	1.8
MFM155	14.8	15.5	15.9	1.6
MFM158	15.5	15.8	16.3	
MFM164	15.9	16.4	16.8	
MFM173	16.8	17.3	17.7	
MFM182	17.7	18.2	18.7	1.9
MFM192	18.7	19.2	19.5	
MFM202	19.6	20.2	20.5	
MFM212	20.6	21.2	21.6	2
MFM221	21.5	22.1	22.6	
MFM226	21.7	22.6	23.1	
MFM231	22.4	23.1	23.6	
MFM242	23.5	24.2	24.7	2.2

Other sizes available on request



MATERIALS



- RoHS compliant "Aluzink" pre-zinc plated steel

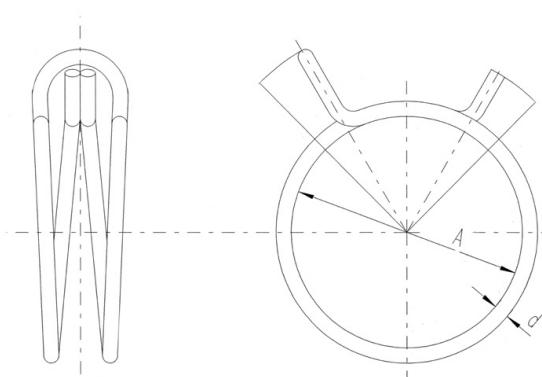


APPLICATIONS

- Light rubber or plastic hoses with or without spirals

Double wire spring

Clamps suggested to fasten hoses with embossed spirals. Their zinc plated double wire is suitable for very soft and thin hoses too.



CODE	MIN. Ø mm	MAX. Ø mm	IDEAL Ø A mm	WIRE Ø d mm	BOX QUANTITY
BIFM055	5,6	6	5,8	0,8	25.000
BIFM068	6,6	7	6,8		25.000
BIFM073	7	7,5	7,3		20.000
BIFM076	7,3	7,8	7,6		20.000
BIFM081	7,8	8,3	8,1		20.000
BIFM086	8,3	8,8	8,6		15.000
BIFM091	8,8	9,3	9,1		15.000
BIFM096	9,3	9,8	9,6		15.000
BIFM101	9,8	10,4	10,1		10.000
BIFM107	10,4	11	10,7		10.000
BIFM113	11	11,6	11,3		10.000
BIFM119	11,6	12,2	11,9		12.000
BIFM126	12,2	12,9	12,6		10.000
BIFM128	12,4	13,1	12,8	1,2	7.000
BIFM133	12,9	13,6	13,3		10.000
BIFM137	13,3	14,1	13,7		10.000
BIFM140	13,6	14,4	14		10.000
BIFM148	14,4	15,1	14,8	1,8	8.000
BIFM155	14,8	15,9	15,5		7.000
BIFM156	15,1	15,9	15,6		7.000
BIFM158	15,5	16,3	15,8		6.000
BIFM164	15,9	16,8	16,4		6.000
BIFM173	16,8	17,7	17,3		6.000
BIFM182	17,7	18,7	18,2		5.000
BIFM192	18,7	19,5	19,2		4.000
BIFM202	19,6	20,5	20,2		4.000
BIFM212	20,6	21,6	21,2		3.500
BIFM221	21,5	22,6	22,1	2,2	3.000

CODE	MIN. Ø mm	MAX. Ø mm	IDEAL Ø A mm	WIRE Ø d mm	BOX QUANTITY
BIFM226	22	23,1	22,6	2,2	2.500
BIFM231	22,4	23,6	23,1		2.500
BIFM242	23,5	24,7	24,2		2.500
BIFM252	24,5	25,8	25,2		2.000
BIFM258	25,1	26,4	25,8	2,5	2.000
BIFM263	25,6	26,9	26,3		2.000
BIFM275	26,7	28,1	27,5		1.800
BIFM287	27,9	29,4	28,7		1.500
BIFM300	29,3	30,9	30	2,8	1.300
BIFM313	30,4	32	31,3		1.000
BIFM327	31,8	33,4	32,7		1.000
BIFM341	33,2	34,8	34,1		1.000
BIFM350	33,9	35,7	35	3	1.000
BIFM356	34,6	36,4	35,6		1.000
BIFM372	36,2	38	37,5		900
BIFM388	37,7	39,7	38,8		800
BIFM396	38,5	40,5	39,6	3,2	800
BIFM405	39,4	41,4	40,5		700
BIFM415	40,7	42,3	41,5		700
BIFM422	41	43,2	42,2		700
BIFM440	42,8	45	44	3,5	600
BIFM458	44,6	46,8	45,8		600
BIFM478	46,5	48,9	47,8		600
BIFM498	48,8	50,9	49,8		400
BIFM520	50,6	53,2	52	400	400
BIFM542	52,7	55,4	54,2		400
BIFM574	56	58,8	57,4		400
BIFM596	58,2	61	59,6		400



MATERIALS

- RoHS compliant "Aluzink" pre-zinc plated steel



APPLICATIONS

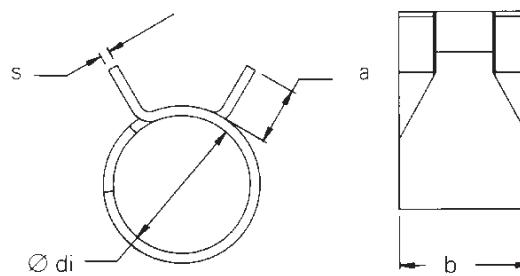
- Light rubber or plastic hoses with or without spirals



BIFM 5204
MANUAL TOOL

CTS (Springband)

OEM applications; the “spring effect” compensates least diametrical variations, the perfect roundness guarantees a uniform radial pressure on 360°.



CODE	Ø d	Ø di	BAND WIDTH	a ± 0,5	THICKNESS	APPLICATION SIZE	
			b mm			min.	max.
CTS006	6	5,5	7	3	0,5	5,9	6,1
CTS007	7	6,4	7	3	0,5	6,9	7,1
CTS008	8	7,4	8	3	0,6	7,9	8,2
CTS009	9	8,4	8	3,5	0,6	8,9	9,3
CTS010	10	9,3	8	3,5	0,7	9,9	10,4
CTS011	11	10,3	8	4	0,7	10,9	11,5
CTS012	12	11,1	8	4	0,7	11,9	12,6
CTS014	14	12,9	8	4	0,8	13,8	14,6
CTS015	15	13,5	8	4,5	0,8	14,8	15,8
CTS017	17	15,6	8	4,5	0,8	16,8	18
CTS020	20	18,4	8	3,2	0,8	20	21,3

Packaging: 500 pieces carton box



MATERIALS



- Spring carbon steel, RoHS compliant coating

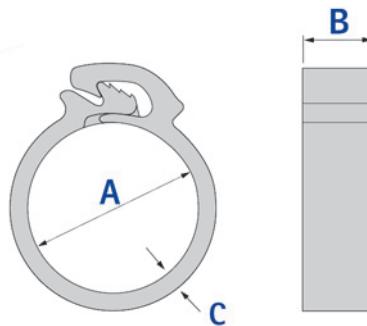


UPON REQUEST

12 and 15 mm band width

Ezyclik

Specially designed for hose clamping applications where space is restricted; the unique design of the Ezyclik (patent pending) ensures strong and reliable clamping with the added security of a special interlocking head to ensure that the Ezyclik maintains clamping integrity in the most arduous applications.



CODE	CLOSED CLIP	BAND WIDTH	BAND THICKNESS	PACKAGING	CODE	CLOSED CLIP	BAND WIDTH	BAND THICKNESS	PACKAGING
	A mm	B mm	C mm	pcs/box		A mm	B mm	C mm	pcs/box
EZ085	8,5	8,0	1,7	2000	EZ180	18,0	8,0	2,0	1500
EZ087	8,7			2000	EZ185	18,5			1500
EZ089	8,9			2000	EZ191	19,1			1500
EZ092	9,2			2000	EZ196	19,6			1500
EZ095	9,5			2000	EZ201	20,1			1500
EZ100	10,0			2000	EZ208	20,8			1500
EZ114	11,4			1500	EZ211	21,1			1500
EZ120	12,0			1500	EZ220	22,0			1500
EZ125	12,5			1500	EZ221	22,1			1500
EZ127	12,7			1500	EZ226	22,6			1500
EZ132	13,2			1500	EZ231	23,1			1500
EZ137	13,7			1500	EZ236	23,6			1000
EZ145	14,5		2,0	1000	EZ247	24,7			1000
EZ146	14,6			1000	EZ258	25,8			1000
EZ150	15,0			1000	EZ268	26,8			1000
EZ157	15,7			1000	EZ280	28,0			1000
EZ159	15,9			1000	EZ306	30,6	9,0	2,5	500
EZ165	16,5			1000	EZ314	31,4			500
EZ168	16,8			1000	EZ365	36,5			500
EZ171	17,1			1000	EZ424	42,4			400
EZ175	17,5			1000	EZ433	43,3			400
EZ176	17,6			1000	EZ455	45,5			400



MATERIALS



- Heat stabilized Nylon 6.6



UPON REQUEST

- Polypropylene
- Customized colours



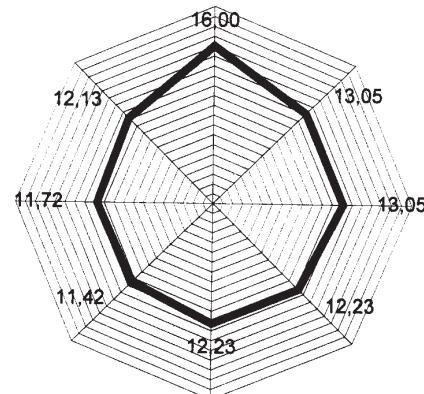
APPLICATIONS

- Hydro massage
- Automotive and engines
- Agriculture and sprayers
- White goods
- Medical and Laboratory equipment



Herbie

The Herbie Clip is a unique strong and durable nylon hose clamp, which is quick and simple to install; the exceptional strength of the clip arises from its unique interlocking double toothed jaws. The advantages of the Herbie Clip: speed of application, easy to adjust, reusable, resistant to many chemicals, improved safety- no sharp edges to cut operator, non conductive and non magnetic



MATERIALS



- Heat stabilized Nylon 6,6



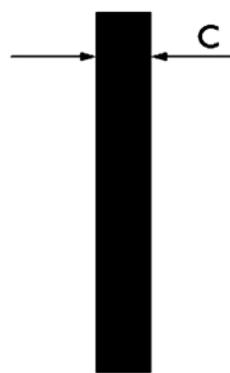
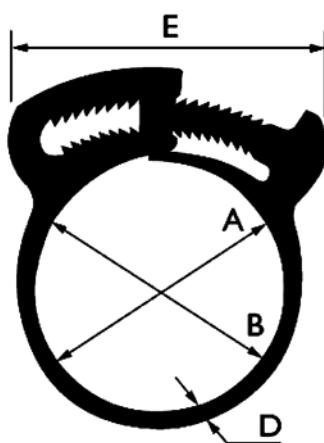
UPON REQUEST

Polypropylene. Customized colours upon request.



APPLICATIONS

- Hydro massage
- Automotive and engines
- Agriculture and sprayers
- White goods
- Medical and Laboratory equipment





CODE	Ø MIN.	Ø MAX.	BAND WIDTH	BAND THICKNESS	PACKAGING
	A mm	B mm	C mm	D mm	Pcs/box
HCL-A	5,6	6,5	4,2	1,4	3.000
HCL-AA	6,5	7,9	4,5	1,6	2.500
HCL-B	7,9	9,2	4,4	1,6	2.000
HCL-BB	9,2	10,3	4,5	1,7	2.000
HCL-C	10,2	11,8	5,8	1,7	1.000
HCL-CC	11,1	12,9	6,1	1,7	1.000
HCL-D	12,0	13,8	6,1	1,7	1.000
HCL-E	13,1	15,1	7,2	2,0	1.000
HCL-F	15,0	17,1	7,1	2,0	1.000
HCL-G	16,9	19,1	6,9	2,1	1.000
HCL-H	18,1	20,6	7,1	2,1	1.000
HCL-J	20,3	23,0	6,4	2,1	1.500
HCL-K	22,2	24,9	7,0	2,0	1.500
HCL-L	24,5	27,6	7,1	2,1	1.500
HCL-M	26,5	29,5	7,4	2,2	1.000
HCL-N	28,8	32,2	9,0	2,0	1.000
HCL-P	32,0	34,8	9,1	2,2	750
HCL-Q	34,3	37,9	8,9	2,1	750
HCL-R	38,0	41,0	9,2	2,1	750
HCL-S	40,1	44,2	9,0	2,2	500
HCL-T	43,2	46,2	8,9	2,1	500
HCL-U	46,0	50,5	9,0	2,1	1.000
HCL-V	48,5	53,8	9,0	2,1	1.000
HCL-W	53,0	56,5	9,0	2,1	1.000
HCL-X	55,0	60,5	9,4	2,3	1.000
HCL-59	59,0	64,7	9,3	2,7	750
HCL-64	63,0	67,4	9,4	2,6	750
HCL-66	65,8	71,7	9,2	2,6	750
HCL-70	70,0	75,4	9,1	2,6	750
HCL-75	74,7	80,5	9,1	2,6	750
HCL-80	79,8	85,0	9,0	2,9	500
HCL-85	85,1	90,6	8,9	2,6	500
HCL-91	91,0	96,0	9,5	2,6	500
HCL-96	97,7	102,1	8,5	2,6	500
HCL-105	105,3	111,8	8,9	2,6	500
HCL-109	108,0	114,3	9,0	2,6	500
HCL-115	115,0	121,0	9,5	2,6	100
HCL-163	163,0	169,0	9,5	2,5	100

- HCL-2 Manual tool
- HCL-3 Removal tool
- HCL-4 Straight pneumatic tool
- HCL-4/CAL Calliper pneumatic tool



Manual tool
HCL-2



Removal tool
HCL-3



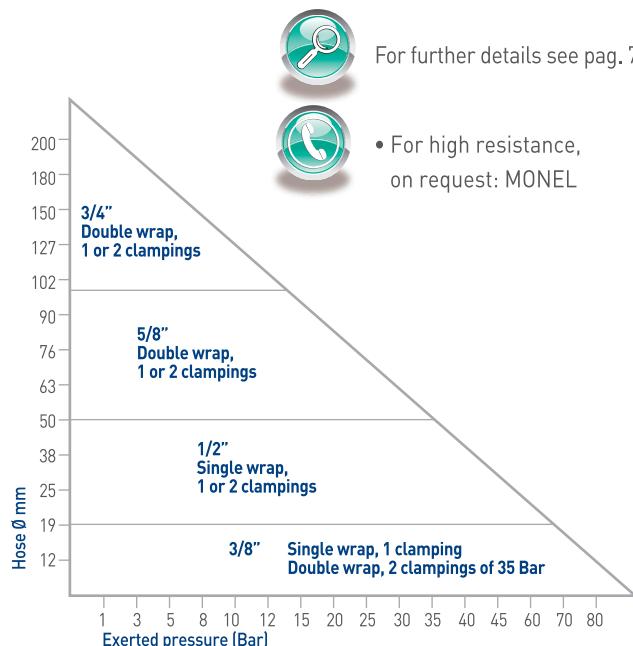
Straight pneumatic tool
HCL-4



Calliper pneumatic tool
HCL-4/CAL

Band-It Standard

The system is composed of band and buckles that can be used for fastening virtually any shape and diameter. Recommended where superior strength is required.



For further details see pag. 74-75



- For high resistance, on request: MONEL



MATERIALS



- 201 SS



- 304 SS



- 316 SS



APPLICATIONS

- Agricultural machines
- Sewer cleaner equipments
- Railways
- Welding equipments

SERIES	APPLICATIONS	TOOLS
BAND-IT STANDARD AISI 201 BAND-IT STANDARD AISI 304	Hard rubber hoses, road signs, electrical, utilities, telecommunications	C001 for bands from 3/8" to 3/4"
BAND IT AISI 316 High corrosion resistance. Resistant to acids.	Food, chemical industry, shipyards, oil industry	Max applicable tension on band 1.500 kg.
BAND IT VALUSTRAP Light duty applications	Small signs, pipe isolation, packaging	weigh 2,0 kg.
BAND IT GIANT Heavy duty applications	Big diameter hoses, binding of metal cables	G402 Max applicable tension on band 3.750 kg. weigh 5,3 kg.

Band-It Standard



30,5 meter band rolls in carton boxes

SPECIAL PACKAGING



Bands in dispenser

- Water resistant
- Consumption control

SERIES	CODE	BAND WIDTH		THICKNESS	BREAKING LOAD	ROLLS PACKAGING	ROLL WEIGHT	BUCKLE CODE
		mm	inches					
STANDARD AISI 201	C201	4,7	3/16"	0,38	-	12	0,5	C251
	C202	6,35	1/4"	0,51	225	10	0,8	C252
	C203	9,53	3/8"	0,63	400	8	1,6	C253
	C204	12,7	1/2"	0,76	680	7	2,4	C254
	C205	15,88	5/8"	0,76	890	6	3,0	C255
	C206	19,05	3/4"	0,76	1090	6	3,6	C256
AISI 304	C923	9,53	3/8"	0,6	340	8	1,6	C953
	C924	12,7	1/2"	0,7	580	7	2,4	C954
	C925	15,88	5/8"	0,7	760	6	3,0	C955
	C926	19,05	3/4"	0,7	930	6	3,6	C956
AISI 316	C403	9,53	3/8"	0,63	340	8	1,6	C453
	C404	12,7	1/2"	0,76	544	7	2,4	C454
	C405	15,88	5/8"	0,76	680	6	3,0	C455
	C406	19,05	3/4"	0,76	816	6	3,6	C456
VALUSTRAP AISI 304	C133	9,53	3/8"	0,4	204	8	1,0	C153
	C134	12,7	1/2"	0,4	272	7	1,3	C154
	C135	15,88	5/8"	0,4	340	6	1,7	C155
	C136	19,05	3/4"	0,4	408	6	2,0	C156
GIANT AISI 201	G430	19,05	3/4"	1,12	1500	-	5,4	G440
	G431	25,40	1"	1,12	1995	-	6,4	G441
	G432	31,75	11/4"	1,12	2495	-	8,0	G442

Buckles boxes of 100 pcs

SERIES	CODE	BAND WIDTH		mm	inches	SERIES	CODE	BAND WIDTH		
		mm	inches					mm	inches	
	BAND-IT STANDARD	C251 •	4,7	3/16"			BAND-IT VALUSTRAP AISI 304	C153	9,53	3/8"
		C252 •	6,35	1/4"				C154	12,7	1/2"
		C253	9,53	3/8"				C155	15,88	5/8"
		C254	12,7	1/2"				C156	19,05	3/4"
		C255	15,88	5/8"				G440	19,05	3/4"
		C256	19,05	3/4"				G441	25,40	1"
	BAND-IT AISI 304	C953	9,53	3/8"			BAND-IT GIANT AISI 201	G442	31,75	1,1/4"
		C954	12,7	1/2"				C720	6,35	1/4"
		C955	15,88	5/8"				C722	9,53	3/8"
		C956	19,05	3/4"				C724	12,7	1/2"
	BAND-IT AISI 316	C453	9,53	3/8"			SCRU-LOKT	C726	19,05	3/4"
		C454	12,7	1/2"						
		C455	15,88	5/8"						
		C456	19,05	3/4"						

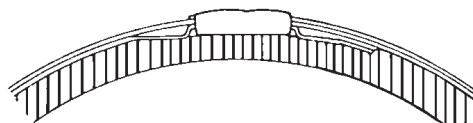
Scru-lokt: codes C720 & C722 in 50 pcs. - codes C724 & C726 in 25 pcs.

Giant buckles: 25 pcs.

• Only for codes C251 and C252: Valustrap type buckles

Band-It junior

Preformed smooth internal diameter clamps are manufactured in a wide variety of sizes and materials; vibration resistant and automatically locked with one simple lever movement. Junior clamps are ideal where superior strength is required.



LOW PROFILE

SMOOTH INSIDE

Customized sizes available on request



MATERIALS



- 201 Stainless steel



More details on pages 74-75



APPLICATIONS

- Agricultural machines
- Sewer cleaner equipment
- Railways
- Welding equipment



5750
Pneumatic tool

S-750: PNEUMATIC TOOL

- Ideal for large volume applications
- Lubrification, speed and tension control

MANUAL TOOLS C001 + J001 o C002



C001

Manual tool



J001

Adapter



C002

Compact tool

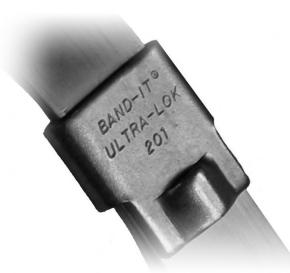
Band-It Junior

CODE	DIAMETER mm	BAND WIDTH mm	BAND THICKNESS mm	PACKAGING Pcs/box
JS240 (J240)	20,6			
JS242 (J242)	25,4			
JS241 (J241)	34,9			
JS252	38,1			
JS253	50,8			
JS220	63,5			
JS256	69,9			
JS244	76,2			
JS257	88,9			
JS258	101,6			
JS259	114,3			
JS201 (J201)	20,6			
JS243 (J243)	25,4			
JS202 (J202)	34,9			
JS217	38,1			
JS245 (J245)	50,8			
JS221	63,5			
JS246 (J246)	76,2			
JS255	88,9			
JS248	101,6			
JS203 (J203)	25,4			
JS204 (J204)	31,8			
JS231	38,1			
JS236 (J236)	44,5			
JS237	50,8			
JS233	63,5			
JS230 (J230)	69,9			
JS234	76,2			
JS247	88,9			
JS249 (J249)	101,6			
JS205	38,1			
JS206	44,5			
JS207	50,8			
JS208	57,2			
JS209	63,5			
JS227	50,8			
JS210	69,9			
JS211	76,2			
JS212	88,9			
JS213	101,6			
JS214	114,3			
JS215	127,0			
JS270	133,4			
JS216	152,4			
JS217US	165,1			
JS218	177,8			
JS219	203,2			

• In brackets codes available with bended tail under the buckles.

Ultralok

Clamps supplied preformed and double wrapped or in straight bands to be assembled with the special reinforced buckles, both provide the tightest clamping force.



PREFORMED VERSION

CODE	DIAMETER mm	BAND WIDTH mm	BAND THICKNESS mm	PACKAGING Pcs/box
UL279	38	12,7	0,76	100
UL283	508			
UL286	69			
UL291	101			
UL227	50			
UL210	69			
UL211	76			
UL212	88			
UL213	101			
UL214	114			
UL215	127	19,1	25	50
UL270	139			
UL216	152			
UL217	165			
UL218	177			
UL219	203			
UL228	228			



MATERIALS



- 201 Stainless steel



APPLICATIONS

- Agricultural machines
- Sewer cleaner equipment
- Petrochemical industry



More details on pages 74-75



UL-4000
Battery tool



UL-9010
Electric tool

FREE END+ BUCKLES VERSION

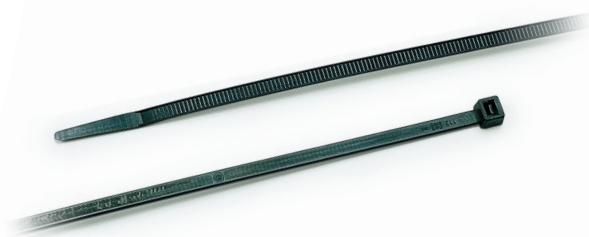
CODE	LENGTH mm	MAX DIAMETER mm	BAND WIDTH mm
UL1018	457	76	12,7
UL1028	711	152	
UL1036	914	203	
UL1056	1422	356	
UL2020	508	102	19,1
UL2028	711	152	
UL2036	914	252	
UL2048	1219	305	
UL2060	1524	381	
UL2084	2134	559	



CABLING PRODUCTS

Nylon standard

The simplest cabling solution, nylon ties with smooth rounded edges, head and pawl. Designed for added strength and durability, bent tip on all Cable Ties allows easier pick-up, insertion and pull-up.

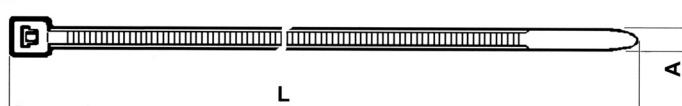


Different colours available on request



CERTIFICATIONS

- CE marking, flammability grade: UL 94 V2



CODE		LENGTH	BAND WIDTH	PACKAGING	MIN. STRENGTH	MAX Ø	
WHITE	BLACK	L mm	A mm	pcs/bag	Kg	mm	
NYL5201C	NYL5301C	75	2,2	100	6,12	15	
NYL5202C	NYL5302C	80	2,4			15	
NYL5203C*	NYL5303C*	98	2,5			21	
NYL5205C*	NYL5305C*	135				32	
NYL5206C*	NYL5306C*	160				38	
NYL5207C*	NYL5307C*	200				52	
NYL5209C*	NYL5309C*	140				32	
NYL5214C*	NYL5314C*	200	3,6			76	
NYL5210C*	NYL5310C	290				50	
NYL5208C	NYL5308C	360				102	
NYL5212C	NYL5312C	120	4,5	22,44		24	
NYL5211C*	NYL5311C*	160				38	
NYL5213C	NYL5313C	178				45	
NYL5215C*	NYL5315C*	200				50	
NYL5216C	NYL5316C	250				65	
NYL5217	NYL5317	290	4,8			76	
NYL5219	NYL5319	360				100	
NYL5218	NYL5318	390				106	
NYL5220	NYL5320	430				110	
NYL5222	NYL5322	530				140	
NYL5221	NYL5321	120	7,6	54,4		25	
NYL5223	NYL5323	180				45	
NYL5225	NYL5325	240				63	
NYL5226	NYL5326	290				76	
NYL5227	NYL5327	365				100	
NYL5229	NYL5329	450	9			130	
NYL5231	NYL5331	540				140	
NYL5233	NYL5333	750				220	
NYL5236	NYL5336	530	12,5	71,4	140		
NYL5234	NYL5334	780			228		
NYL5238	NYL5338	1500			79,8		
NYL5235	NYL5335	225			460		
NYL5237	NYL5337	500	110	110		57	
NYL5239	NYL5339	720				143	
NYL5241	NYL5341	850				213	
NYL5243	NYL5343	1000				255	
						295	

* available 1000 pieces bag



MATERIALS



- Nylon 6.6

TOOLS



for band width up to 4,8 mm



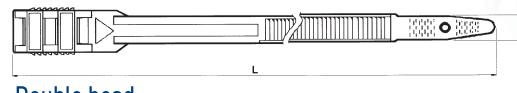
all sizes

Nylon cinturing

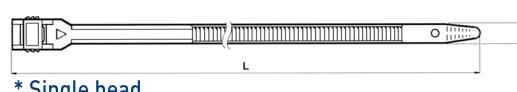
Nylon ties with flat head. For applications where high resistance is required. The flat head and wide contact surface, together with the external rack closing system, is indicated for hanging lines since avoids damages to isolated cables.



Coloured ties available on request



Double head



* Single head

CODE	LENGTH L mm	BAND WIDTH A mm	BAG QUANTITY	MIN. STRENGTH Kg	MAX Ø mm
NYL5451*	200	9	100	36,72	40
NYL5453	290			70	70
NYL5455	380			100	100
NYL5456°	510			55,08	140
NYL5457°	760				220

° Nylon 12

* Single head



MATERIALS



- Nylon 6.6 (Nylon 12 cod. 5456, 5457)



APPLICATIONS

Cable binding in:

- Electrical installations
- Industrial cabling
- Automotive cabling
- Electrical panels
- Special high resistance applications



CERTIFICATIONS

- Complies with CE European Norm and flammability UL 94 V2



ADVANTAGES

- High resistance against release
- Inclined tooth
- Smooth rounded edges
- Lengthened tail to facilitate insertion

TOOL



5401

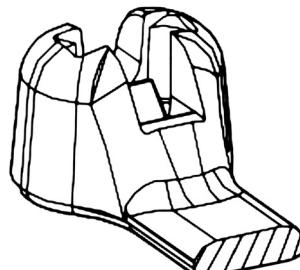
for all band widths

Nylon pawl

Nylon ties with metallic pawl, for heavy duty applications.



Pawl in 316 SS for corrosion resistance



CODE		PACKAGING	MAX Ø	LENGTH	BAND WIDTH
WHITE	BLACK	pcs/bags	mm	mm	mm
BT1M-M	BT1M-M0	1000	23	102	2,4
BT1M-C	BT1M-C0	100			
BT1.51-M	BT1.51-M0	1000	38	155	
BT1.51-C	BT1.51-C0	100			
BT21-M	BT21-M0	1000	51	203	3,3
BT21-C	BT21-C0	100			
BT31-M	BT31-M0	1000	76	282	
BT31-C	BT31-C0	100			
BT41-M	BT41-M0	1000	102	363	3,6
BT41-C	BT41-C0	100			
BT2S-M	BT2S-M0	1000	51	203	
BT2S-C	BT2S-C0	100			
BT3S-M	BT3S-M0	1000	76	284	
BT3S-C	BT3S-C0	100			
BT4S-M	BT4S-M0	1000	102	366	4,7
BT4S-C	BT4S-C0	100			
BT2LH-TL	BT2LH-TL0	250	51	221	
BT2LH-L	BT2LH-LO	50			
BT3H-TL	BT3H-TL0	250	76	300	
BT3LH-L	BT3LH-LO	50			
BT4LH-TL	BT4LH-TL0	250	102	378	
BT4LH-L	BT4LH-LO	50			
BT5LH-C	BT5LH-C0	100	127	460	
BT5LH-L	BT5LH-LO	50			
BT6LH-C	BT6LH-C0	100	152	538	
BT6LH-L	BT6LH-LO	50			
BT7LH-C	BT7LH-C0	100	178	620	
BT7LH-L	BT7LH-LO	50			
BT8LH-C	BT8LH-C0	100	203	699	
BT8LH-L	BT8LH-LO	50			
BT9LH-C	BT9LH-C0	100	229	780	
BT9LH-L	BT9LH-LO	50			



MATERIALS



- Nylon 6.6



APPLICATIONS

- Electrical installations
- Industrial cabling
- Automotive cabling
- Electrical panels
- Special high resistance applications

Free - end

304 Stainless steel reusable clamps. Ideal for closing different types of bellows and cv boots. The clamps are supplied open, but on request we can preform them in various diameters.



DIMENSIONS

Band width : **6,5 mm**

Thickness : **0,4 mm**

HOW TO CREATE AND ORDER A CODE:

FE + Length mm of requested clamp = **CODE**

(Ex.: to order a clamp 400 mm long)

FE + **400** = **FE400**



MATERIALS



- 304 SS



For further details see pag. 74-75



APPLICATIONS

- Electrical industry
- Vehicle spare parts
- Aerospace
- Railways
- Shipyards
- Petrochemical industry

Ball-lok

Self locking ties for quick applications. Coated version available for superior corrosion resistance in marine and chemical cable bundling applications. Coating prevents cable damages, further it is flame retardant and non toxic.



Self locking head



MATERIALS



- 304 SS



- 316 SS on request



For further details see pag. 74-75



COATING

- Epoxy
- Halogen free
- Flame retardant



TENSILE - STRENGTH

UNCOATED:

Band 4,6 mm: 90 Kg.
Band 7,9 mm: 136 Kg.

COATED:

Band 4,6 mm: 68 Kg.
Band 7,9 mm: 78 Kg.



APPLICATIONS

- Electrical industry
- Vehicle spare parts
- Aerospace
- Railways
- Shipyards
- Petrochemical industry
- Identification systems fixation



KE922

MANUAL TOOL with tail cut-off lever

UNCOATED TIES - THICKNESS mm 0,28

CODE W4	CODE W5	SIZE mm	MAX BUNDLE Ø mm
KE112	KE012	4,6x201	50
KE113	KE013	4,6x259	69
KE114	KE014	4,6x360	102
KE115	KE015	4,6x520	152
KE116	KE016	4,6x679	203
KE117	KE017	4,6x838	254
KE118	KE018	4,6x1067	305
KE132	KE032	7,9x201	50
KE133	KE033	7,9x259	69
KE134	KE034	7,9x360	102
KE135	KE035	7,9x520	152
KE136	KE036	7,9x679	203
KE137	KE037	7,9x838	254
KE138	KE038	7,9x1067	305

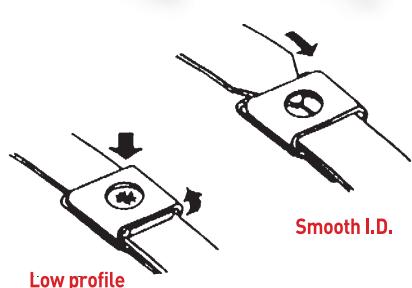
COATED TIES - THICKNESS mm 0,46

CODE W5	SIZE mm	MAX BUNDLE Ø mm
KE022	4,6x201	50
KE024	4,6x360	102
KE025	4,6x520	152
KE026	4,6x679	203
KE027	4,6x838	254
KE042	7,9x201	50
KE044	7,9x360	102
KE045	7,9x520	152
KE046	7,9x679	203
KE047	7,9x838	254

Packaging: 100 pcs bags

Tie-lok

Ties made in SS 304 and, on request, also made in SS 316. These low profile ties are suitable for applications with reduced spaces. The dual lock system blocks the band and guarantees good tensile strength.



Smooth I.D.

Low profile



MATERIALS



- 304 SS



- 316 SS on request



For further details see pag. 74-75



TENSILE - STRENGTH

Band 4,5 mm: 46 Kg.
Band 6,3 mm: 91 Kg.



APPLICATIONS

- Electrical industry
- Vehicle spare parts
- Aerospace
- Railways
- Shipyards
- Identification systems fixation



Dual lock system



N. E-4464

THICKNESS mm 0,38

CODE	SIZE mm	MAX BUNDLE Ø mm
AS211	6,3x254	51
AS212	6,3x419	101
AS213	6,3x572	152
AS214	6,3x737	203
AS215	6,3x889	254
AS221	4,5x165	25
AS222	4,5x254	51
AS223	4,5x406	100
AS224	4,5x572	152
AS225	4,5x737	203

Packaging bags of 100 pcs.

IT 1000 PNEUMATIC TOOL

For big volume applications this tool guarantees time savings. The central unit regulates pressure and tensile values.

A920 HAND TOOL

The tool has a tensile regulator and a cutting device to remove any band excess.



A920 band 6,3 mm.
A910 band 4,5 mm.



IT 1000

Multi-lok

Self locking ties for quick applications. Coated version available for superior corrosion resistance in marine and chemical cable bundling applications. Coating prevents cable damages, further it is flame retardant and non toxic.



Self locking head



Lloyd's
Register

N. E-4464



CE



MATERIALS



- 316 SS



For further details see pag. 74-75



COATING



- Nylon 11. Flame retardant and alogen free



TENSILE - STRENGTH

Band 7 mm: 91 Kg.
Band 12 mm: 113 Kg.



APPLICATIONS

- Electrical industry
- Vehicle spare parts
- Aerospace
- Railways
- Shipyards
- Petrochemical industry
- Identification systems fixation

UNCOATED TIES - THICKNESS mm 0,28

CODE	DIMENSION	MAX BUNDLE Ø	CODE	DIMENSION
	mm	mm		mm
AE601	7x150	48	AE701	12x150
AE602	7x225	71	AE702	12x225
AE603	7x300	96	AE703	12x300
AE604	7x450	144	AE704	12x450
AE605	7x610	193	AE705	12x610

COATED TIES - THICKNESS mm 0,46

CODE	DIMENSION	MAX BUNDLE Ø	CODE	DIMENSION
	mm	mm		mm
AE611	7x150	48	AE711	12x150
AE612	7x225	71	AE712	12x225
AE613	7x300	96	AE713	12x300
AE614	7x450	144	AE714	12x450
AE615	7x610	193	AE715	12x610

Packaging bags of 100 pcs.



AE201

TENSIONING HOOK



AE200



MANUAL TOOL with tail cut-off lever

Cable-Ties

Easy re-usable ties. The coated version protects cable/hands from damage or interference and guarantees superior corrosion resistance in marine and chemical cable bundling applications. Further, coating is flame retardant and non toxic.



Re-usable



N. E-4464



MATERIALS



- 316 SS



For further details see pag. 74-75



COATING



- PPA. Flame retardant and alogen free



APPLICATIONS

- Electrical industry
- Shipyards
- Petrochemical industry
- Identification systems fixation



COMPACT AND LIGHT MANUAL TOOL.
Includes tail cut off lever.

COATED TIES - THICKNESS mm 1,04

CODE	DIMENSION	MAX BUNDLE Ø	CODE	DIMENSION
	mm	mm		mm
AE111	6,3x152	38	AE311	9,5x152
AE112	6,3x229	63	AE312	9,5x229
AE113	6,3x305	86	AE313	9,5x305
AE114	6,3x457	137	AE314	9,5x457
AE115	6,3x610	185	AE315	9,5x610
		231	AE316	9,5x762
		280	AE317	9,5x915

Packaging bags of 100 pcs.

UNCOATED TIES - THICKNESS mm 0,38

CODE	DIMENSION	MAX BUNDLE Ø	CODE	DIMENSION
	mm	mm		mm
AE101	6,3x152	38	AE301	9,5x152
AE102	6,3x229	63	AE302	9,5x229
AE103	6,3x305	86	AE303	9,5x305
AE104	6,3x457	137	AE304	9,5x457
AE105	6,3x610	185	AE305	9,5x610
		231	AE306	9,5x762
		280	AE307	9,5x915

Packaging bags of 100 pcs.



MANUAL TOOL, tensioner.



TENSIONING HOOK

All purpose bands

Rolls and clips to make clamps of any diameter. The coated version protects cable/hands from damage or interference and guarantees superior corrosion resistance in marine and chemical cable bundling applications. Other important advantages: low smoke, halogen free and vibration proof.



MATERIALS



- 316 SS



For further details see pag. 74-75



COATING



- PPA 571 Flame retardant and alogen free
- Buckless coated on request



APPLICATIONS

- Electrical industry
- Shipyards
- Petrochemical industry
- Identification systems fixation

ROLLS OF 25 meters

UNCOATED CODE	WIDTH inches	WIDTH mm	COATED CODE
thickness 0,40 mm			thickness 1,20 mm
AE442	1/4"	6,3	AE432
AE443	3/8"	9,5	AE433
AE444	1/2"	12,7	AE434
AE445	5/8"	15,8	AE435
AE446	3/4"	19	AE436

BOXES OF 100 buckles

CODE	WIDTH inches	WIDTH mm
	inches	mm
AE452	1/4"	6,3
AE453	3/8"	9,5
AE454	1/2"	12,7
AE455	5/8"	15,8
AE456	3/4"	19

C075 MANUAL TOOL



Compact and light manual tool.
Includes tail cut off lever.

Perforated continuous band

Easy to form around any section. Can be fixed with screws or bolts. Ideal for hanging hoses, groups of cables and other.



ROLLS OF 10 meters

COATED CODE	HOLE Ø mm	BAND WIDTH mm	COATED CODE
W5			W1
AE465	5	12	AE565
AE466	7	17	AE566
AE467	8	26	AE567



VELCRO™ ONE-WRAP™

Velcro ties are available in many sizes and colours. No installation tool needed and no risk of over-tensioning or damaging the cables.



ONE-WRAP SERIES	DIMENSIONS	PACKAGING
OWC CINTURING For handling cables of: <ul style="list-style-type: none"> • Data transmission • Telephon lines • Optical fiber • Panels • Indoor and outdoor cabling 	mm	Pre-cut roll of pcs:
	6,5x200	750
	12,5x150	1.000
	12,5x200	750
	12,5x230	650
	12,5x330	450
	16x300	500
OW ROLL <ul style="list-style-type: none"> • TV studios setup • Multimedia events • Cabling of any type 	mm	Rolls
	10	25 meters

To obtain an optimal traction resistance we suggest to make a 50mm overlapping of the minimum closing.
We remain at disposal to evaluate any enquiry for product customization.



ON REQUEST

- Other colours available



TECHNICAL CHARACTERISTICS

- Material: polypropylene and PA velour
- Thickness: 1,35 mm
- Weight: 550gr/m²
- Hooks (for cm²) 265



APPLICATION CHARACTERISTICS

- Temperature of use: -20 +105°C
- Life cycle: loss of 50% after 100 closings
- Rip resistance: 120 N/cm²
- Melting point: 150 °C
- Electrical conduction: NO
- Washing resistance: GOOD
- U.V.A. resistance: MEDIUM
- Humidity resistance: MEDIUM
- Resistance to acids: MEDIUM

Identification

Stainless steel alphanumeric characters. These movable characters and carriers are ideal for identification without the use of special tools or complex marking systems. The Easy-Read system is fast and simple to use.



For fixing the carriers and strips you can use Band It clamps present in this catalogue's section.

CHARACTERS

- 316 SS
- Dimension mm 9,5 x 9,5
- Packaging bags of 100 pcs.



COD. AE060, EASY-READ KIT case with 50 characters, numbers, symbols and carrier.

EMBOSSING TOOL

Portable tool for alphanumeric stainless steel band marking. Useful to identify components or parts of an installation.



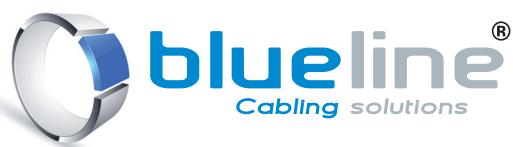
CODE	CHARACTER TYPE	CODE	CHARACTER TYPE
mm			
AE010	A	AE031	V
AE011	B	AE022	W
AE012	C	AE032	X
AE013	D	AE033	Y
AE014	E	AE034	Z
AE015	F	AE018	1
AE016	G	AE037	2
AE017	H	AE038	3
AE018	I	AE039	4
AE019	J	AE040	5
AE020	K	AE041	6
AE021	L	AE021	7
AE022	M	AE042	8
AE023	N	AE041	9
AE024	O	AE024	0
AE025	P	AE035	—
AE026	Q	AE036	neutral
AE027	R	AE046	+
AE028	S	AE047	≡
AE029	T	AE048	~
AE030	U	AE049	/

CARRIER

- 316 SS
- Hole and bridges for clamp passage
- Packaging bags of 100 pcs.

CODE	DIMENSION
AE043	6 characters - 92,5 mm
AE044	10 characters - 130,6 mm
AE045	16 characters - 187,7 mm

CODE	DESCRIPTION
ID400	Complete embossing tool with 2 rolls of 12 mm x 6 meters
ID405	12 mm x 6 meters 304 SS tape roll for embossing tool

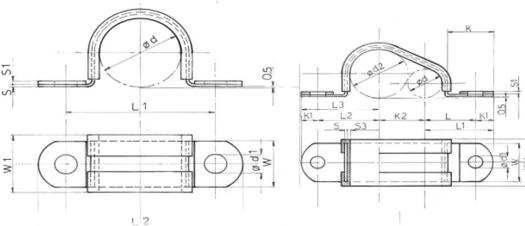
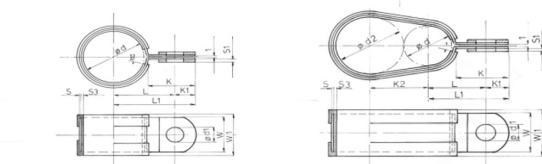
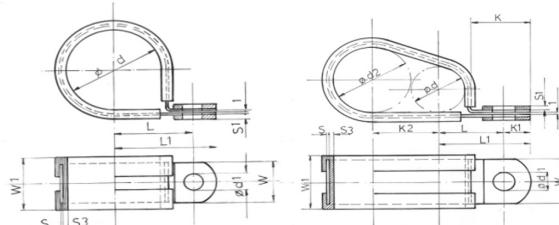


PRODUCT FOR FIXING

Series PK-DIN3016

DIN 3016 specifications clip. The metal band lined with sheathing prevents damages on cables and hoses. This profile is an excellent insulator and absorbs jolts and vibrations.

The band around fastening hole is reinforced.



BAND WIDTH mm	BAND THICKNESS
12	5,3
15	6,4
20	8,4
25	10,4



MATERIALS



Zinc plated steel, RoHS compliant coating



Full 430 SS



Full 304 SS



Full 316 SS



SHEATHING

Standard profile:

- PVC

Upon request:

- All band coated
- EPDM, EPDM UNI CEI 11170, silicon.



For further details see pag. 74-75



CODE ROOT	BAND WIDTH	WITH COVER	AVAILABLE DIAMETERS	FASTENING HOLE	BAND THICKNESS	REINFORCED PART THICKNESS
mm	mm	mm	mm	mm	mm	mm

Standard shape

PK xxx/12	12	15	5-130	5,3	0,5	1,5
PK xxx	15	18	5-40	6,4	0,6 up to diameter 14 0,8 from diameter 15	1,6 up to diameter 14 1,8 from diameter 15
PK xxx/20	20	24	11-130	8,4	0,8 up to diameter 25 1,0 from diameter 26	2,5 up to diameter 25 2,5 from diameter 26
PK xxx/25	25	28	11-130	10,4	0,8 up to diameter 25 1,0 from diameter 26	2,5 up to diameter 25 2,5 from diameter 26

Round shape

PK0 xxx	15	18	5-130	6,4	0,6 up to diameter 14 0,8 from diameter 15	1,6 up to diameter 14 1,8 from diameter 15
PK0 xxx/20	20	24	5-40	8,4	0,8 up to diameter 25 1,0 from diameter 26	2,5 up to diameter 25 2,5 from diameter 26
PK0 xxx/25	25	28	11-130	10,4	0,8 up to diameter 25 1,0 from diameter 26	2,5 up to diameter 25 2,5 from diameter 26

Omega shape

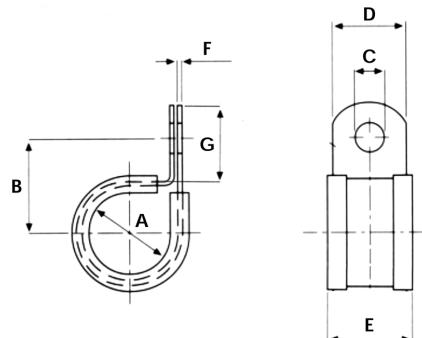
PK2 xxx	15	18	5-130	6,4	0,6 up to diameter 14 0,8 from diameter 15	1,6 up to diameter 14 1,8 from diameter 15
PK2 xxx/20	20	24	5-40	8,4	0,8 up to diameter 25 1,0 from diameter 26	2,5 up to diameter 25 2,5 from diameter 26
PK2 xxx/25	25	28	11-130	10,4	0,8 up to diameter 25 1,0 from diameter 26	2,5 up to diameter 25 2,5 from diameter 26

Multiple diameter (two, three and more pipes)

Wide range of custom sizes available.

Serie PAS clips

Stainless steel clips. The metal band has a sheathing that prevents damage to cables or hoses. PAS clips are a versatile fastening system. The profile is an excellent insulator that absorbs jolts and vibrations.



The stainless steel offers high rip resistance (the critical point in the reduced band area around the hole).

CODE	BAND WIDTH D mm	WITH COVER E mm	THICKNESS F mm	DISTANCE G mm
PAS006 · PAS014	16	19	0,6	20
PAS016 · PAS040	16	19	0,8	20
PAS020/20 · PAS120/20	20	24	1	25
PAS025/25 · PAS120/25	25	28		



MATERIALS



- 430 SS



- 304 SS



- 316 SS



For further details see pag. 74-75



APPLICATIONS

- Railways
- Automotive
- Shipyards
- Engines



PROTECTION

Standard profile:

- PVC

On request:

- Continuous sheath along the whole band
- EPDM, EPDM norms UNI CEI 11170, Silicon

On request without cover or with complete sheath.

CLIPS WITHOUT COVER

Clips are made in 430 SS, with band widths 16, 20 and 25 mm. Diameters available from 5 to 60 mm. Other shapes, dimensions and materials also available on request.

CODE		DIAMETER		DISTANCE (tolerance +/- 1,5)		FASTENING HOLE		PACKAGING	
W3	16 mm band	W4	16 mm band	A mm	B mm	C mm		box	
PAS006	PAS006SS			6	15				
PAS008	PAS008SS			8	16				
PAS010	PAS010SS			10	17				
PAS012	PAS012SS			12	18				
PAS014	PAS014SS			14	19				
PAS016	PAS016SS			16	20				
PAS018	PAS018SS			18	21				
PAS020	PAS020SS			20	22				
PAS022	PAS022SS			22	23				
PAS025	PAS025SS			25	24,5				
PAS028	PAS028SS			28	26				
PAS030	PAS030SS			30	27				
PAS032	PAS032SS			32	28				
PAS035	PAS035SS			35	29,5				
PAS040	PAS040SS			40	32				

Standard:
8,5
on request
6,5 e 5,5

100 PCS.

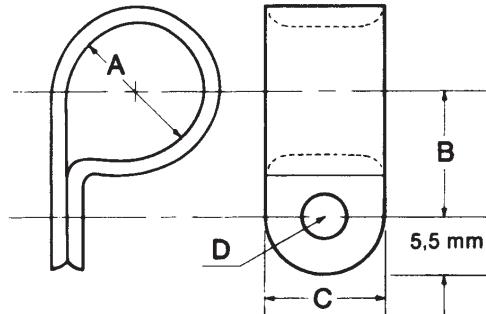
CODE		DIAMETER		DISTANCE (tolerance +/- 1,5)		FASTENING HOLE		PACKAGING	
W3	20 mm band	W3	25 mm band	A mm	B mm	C mm		box	
PAS020/20	-			20	26				
PAS022/20	-			22	27				
PAS025/20	PAS025/25			25	28,5				
PAS028/20	PAS028/25			28	30				
PAS030/20	PAS030/25			30	31				
PAS032/20	PAS032/25			32	32				
PAS035/20	PAS035/25			35	33,5				
PAS040/20	PAS040/25			40	36				
PAS045/20	PAS045/25			45	38,5				
PAS050/20	PAS050/25			50	41				
PAS055/20	PAS055/25			55	43,5				
PAS060/20	PAS060/25			60	46				
PAS065/20	PAS065/25			65	48,5				
PAS070/20	PAS070/25			70	51				
PAS075/20	PAS075/25			75	53,5				
PAS080/20	PAS080/25			80	56				
PAS085/20	PAS085/25			85	58,5				
PAS090/20	PAS090/25			90	61				
PAS095/20	PAS095/25			95	63,5				
PAS100/20	PAS100/25			100	66				
PAS110/20	PAS110/25			110	71				
PAS120/20	PAS120/25			120	76				

Standard:
10,5
on request
8,5 e 6,5

50 PCS.

Nylon snap clips

Nylon clips to easily fix light cables or hoses. Fast and simple application.



CODE	DIAMETER	BAND WIDTH	DISTANCE	FASTENING HOLE	BAND THICKNESS	PACKAGING
	A mm	C mm	B mm	D mm	mm	pcs/bag
NYLPAS003	3,2	9,5	8,3	5,1	1,3	500
NYLPAS004	4,7		9,6			
NYLPAS006	6,4		10,4			
NYLPAS008	7,9		11,2			
NYLPAS009	9,5		12,0			
NYLPAS011	11,1		13,2			
NYLPAS012	12,7		14,0			
<hr/>						
NYLPAS014R	14,3	12,7	15,8	5,1	1,5	300
NYLPAS016R	15,9		16,6			
NYLPAS017R	17,4		19,1			
NYLPAS019R	19,1		19,9			
NYLPAS020R	20,6		20,7			
NYLPAS022R	22,2		21,5			
NYLPAS025R	25,4		23,1			
NYLPAS028R	28,6		24,6			
NYLPAS030R	30,1		25,4		1,0	100
NYLPAS032R	31,8		27,0			
NYLPAS035R	34,9		28,6			
NYLPAS038R	38,1		30,1			



MATERIALS



- Nylon 6.6

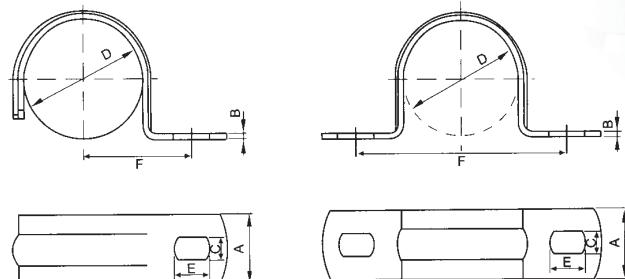


APPLICATIONS

- Automotive
- Electronic and electrical industries

One or two hole metal clips

Light zinc coated metal clips for fixing cables or hoses over panels, frames or walls.



CODE	DIAMETER	BAND WIDTH	LENGTH	DISTANCE	BAND THICKNESS	FASTENING HOLE
Type 1	D mm	A mm	mm	F mm	B mm	C x E mm
SL107	7-8	10	25	14	0,9	4,5x6,5
SL110	10-11		34	17		
SL112	12-13		36	18		
SL116	15-17		40	20		
SL120	19-20		44	22		
SL122	21-22		46	24		
SL126	25-26		50	26		
SL128	28-30		54	28		
SL132	31-32		60	33		
SL138	38-40		67	36		
SL150	50	15	80	43	1,8	6,5x12,5

Packaging boxes of 100 pcs.

CODE	DIAMETER	BAND WIDTH	LENGTH	DISTANCE	BAND THICKNESS	FASTENING HOLE
Type 2	D mm	A mm	mm	F mm	B mm	F mm
SL210	10	10	42	31	0,9	5
SL213	13		46	32		5
SL216	16		48	34		5x6,5
SL219	19		52	38		5x6,5
SL222	22		61	41		6,5x8,5
SL226	26		63	47		6,5x8,5
SL228	28		66	50		6,5x8,5
SL232	32		71	54		6,5x10
SL238	38		78	61		6,5x10
SL250	50		98	80		6,5x10

Packaging boxes of 100 pcs.



MATERIALS



- Zinc coated steel. Surface treatment is chrome VI free (European RoHS norm compliant)
- 304 SS on request



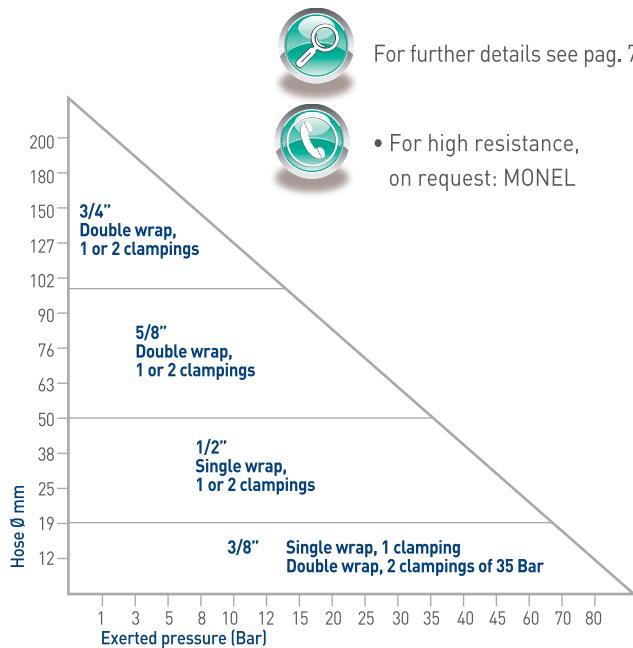
APPLICATIONS



For further details see pag. 74-75

Band-It Standard

The system is composed of band and buckles that can be used for fastening virtually any shape and diameter.
Recommended where superior strength is required.



For further details see pag. 74-75



• For high resistance,
on request: MONEL



MATERIALS



• 201 SS



• 304 SS



• 316 SS



APPLICATIONS

- Sign posts
- Industry

SERIES	APPLICATIONS	TOOLS
BAND-IT STANDARD AISI 201 BAND-IT STANDARD AISI 304	Hard rubber hoses, road signs, electrical, utilities, telecommunications	C001 for bands from 3/8" to 3/4"
BAND IT AISI 316 High resistance to corrosion. Resistant to acids.	Food, chemical industry, shipyards, oil industry	Max applicable tension on band 1.500 kg.
BAND IT VALUSTRAP Light duty applications	Small signs, pipe isolation, packaging	weigh 2,0 kg.
BAND IT GIANT Heavy duty applications	Big diameter hoses, binding of metal cables	G402 Max applicable tension on band 3.750 kg. weigh 5,3 kg.

Band-It Standard



30,5 meter band rolls in carton boxes

SPECIAL PACKAGING



Bands in dispenser

- Water resistant
- Consumption control



SERIES	CODE	BAND WIDTH	THICKNESS	BREAKING LOAD	ROLLS PACKAGING	ROLL WEIGHT	BUCKLE CODE
		mm inches	mm	Kg	N.	Kg	
STANDARD AISI 201	C201	4,7	3/16"	0,38	-	12	0,5
	C202	6,35	1/4"	0,51	225	10	0,8
	C203	9,53	3/8"	0,63	400	8	1,6
	C204	12,7	1/2"	0,76	680	7	2,4
	C205	15,88	5/8"	0,76	890	6	3,0
	C206	19,05	3/4"	0,76	1090	6	3,6
AISI 304	C923	9,53	3/8"	0,6	340	8	1,6
	C924	12,7	1/2"	0,7	580	7	2,4
	C925	15,88	5/8"	0,7	760	6	3,0
	C926	19,05	3/4"	0,7	930	6	3,6
AISI 316	C403	9,53	3/8"	0,63	340	8	1,6
	C404	12,7	1/2"	0,76	544	7	2,4
	C405	15,88	5/8"	0,76	680	6	3,0
	C406	19,05	3/4"	0,76	816	6	3,6
VALUSTRAP AISI 304	C133	9,53	3/8"	0,4	204	8	1,0
	C134	12,7	1/2"	0,4	272	7	1,3
	C135	15,88	5/8"	0,4	340	6	1,7
	C136	19,05	3/4"	0,4	408	6	2,0
GIANT AISI 201	G430	19,05	3/4"	1,12	1500	-	5,4
	G431	25,40	1"	1,12	1995	-	6,4
	G432	31,75	11/4"	1,12	2495	-	8,0

Buckles boxes of 100 pcs

SERIES	CODE	BAND WIDTH	mm	inches	SERIES	CODE	BAND WIDTH	mm	inches	
	BAND-IT STANDARD	C251 •	4,7	3/16"		C153	9,53	3/8"		
		C252 •	6,35	1/4"		C154	12,7	1/2"		
		C253	9,53	3/8"		C155	15,88	5/8"		
		C254	12,7	1/2"		C156	19,05	3/4"		
	AISI 304	C255	15,88	5/8"		G440	19,05	3/4"		
		C256	19,05	3/4"		G441	25,40	1"		
		C953	9,53	3/8"		G442	31,75	1,1/4"		
		C954	12,7	1/2"		C720	6,35	1/4"		
	AISI 316	C955	15,88	5/8"		C722	9,53	3/8"		
		C956	19,05	3/4"		C724	12,7	1/2"		
		C453	9,53	3/8"		C726	19,05	3/4"		
		C454	12,7	1/2"						
		C455	15,88	5/8"						
		C456	19,05	3/4"						

Scru-lokt: codes C720 & C722 in 50 pcs. - codes C724 & C726 in 25 pcs.
Giant buckles: 25 pcs.

• Only for codes C251 and C252: Valustrap type buckles

U-Bolts

U-Bolts for various applications, like petrochemical, steel or other industrial plants. For thermo sanitary systems or general use in the marine industry or wherever high resistance is required.



SERIES

W1

CPP **CPM** **CPL**

WIRE DIAMETER

ND **ND**

M6

HOSE DIAMETER

INCHES

1/8"

1/4"

3/8"

1/2"

5/8"

1"

1 1/4"

1 1/2"

2"

2 1/2"

3"

3 1/2"

4"

5"

6"

8"

10"

12"

14"

16"

18"

20"

24"

SERIES

W4

CPT 304 **CPS 304** **CPX 316**

WIRE DIAMETER

M6

ND **ND**

M8

M8

M8

M10 **M10**

M10

M10

M12

M12

M12

ND

ND

ND

DN	D
	mm
8	10,2
10	13,5
12	17,2
15	21,3
20	26,9
25	33,7
32	42,4
40	48,3
50	60,3
65	76,3
80	88,9
90	101,6
100	114,3
125	139,7
150	168
200	219,1
250	273
300	326,9
350	355,6
400	406,4
450	457
500	508
600	609

How to order: line name + diameter in inches (e.g. CPL 3/4")

THE U-BOLTS ARE SUPPLIED WITH TWO NUTS AND TWO WASHERS



For further details see pag. 74-75



APPLICATIONS

- CPL** • For general use, electrical fixing, thermo sanitary, other
- CPM** • Hydraulic, petrochemical and medium load applications
- CPP** • For heavy duty applications, security, energy or steel plants, others
- CPT/CPX** • For general use in marine or highly corrosive environments
- CPS** • For heavy duty applications, energy or steel plants, marine environment



SPECIAL PRODUCTS

Special clamps and collars



- Special diameters
- Special band widths
- With rubber protection
- Holding of hoses under pressure
- With insert
- Closings with various bolts
- Lever closing systems

Welding



- Manuli frigoclic
- Clamps with grounding screw
- Wire inserts
- Couplings of clamps and metal bushes
- Support nuts and brackets

Customized band and buckles

- Logo marking
- Special thickness
- Non standard materials



Brackets and components on request

- Supports for hoses
- Chimney pipes' accessories
- Products in nylon



Steels - Material specifications

AISI 201	AISI 301	AISI 304	AISI 305	AISI 316
		W4		W5

ALLOYING ELEMENTS %	C Mn Si Cr Ni	0,15 max 5,5-7,5 1 max 16-18 3,5-5,5	C Mn Si Cr Ni	0,15 max 1 max 2 max 16-18 6-8	C Mn Si Cr Ni	0,08 1 max 2 max 18-20 8-10,5	C Mn Si Cr Ni	0,12 2 max 1 max 17-19 10,5-13	C Mn Si Cr Ni Mo	0,08 max 2 max 1 max 16-18 10-14 2-3
PHYSICAL PROPERTIES										
Density gr/cm ³	7,75	8,03		8,03		8,03		8,03		8,03
Structure	austenitic	austenitic		austenitic		austenitic		austenitic		austenitic
Melting point °C	1398 - 1454	1398 - 1421		1398 - 1454		1398 - 1454		1398 - 1454		1371 - 1398
Heat resistance Continuous service °C	760	810		835		835		835		835
ELECTRICAL PROPERTIES										
Magnetic permeability	$\mu = 1,02$	$\mu = 1,02$		$\mu = 1,008$		$\mu = 1,008$		$\mu = 1,008$		$\mu = 1,008$
Elec.Resistance microohm 21°C	69,0	72,0		72,0		72,0		72,0		72,0
MECHANICAL PROPERTIES										
Elongation %	40	50	18	50	7	50	7			5
Breaking strength kg/mm ²	70,3	56	105	56	105	56	105			52
Yield strength kg/mm ²	31,65	21,09	77	21,09	77	21,09	77			21,09
Hardness	90-95 R _B O	70-95 R _B		70-95 R _B		70-95 R _B		70-95 R _B		75-85 R _B
CORROSION RESISTANCE										
Atmosphere fresh water	Good		Good		Very good		Very good		Excellent	
Atmosphere industrial	Good		Good		Very good		Very good		Very good	
Atmosphere salt water	Fair		Fair		Good		Good		Very good	
Atmosphere salt	No		No		No		No		Good	
Acid	Fair		Fair		Good		Good		Good	
Bases	No		No		No		No		Good	

AISI 410	AISI 430	CARBON STEEL	MONEL 400
	W3		

ALLOYING ELEMENTS %	C Mn Si Cr	0,15 max 1 max 1 max 11,5-13,5	C Mn Si Cr	0,12 max 1 max 1 max 16-18	C Mn P S	0,4-0,6 0,6-0,9 0,04 max 0,05 max	C Mn Si Ni S Fe Cu	0,3 max 1,25 max 0,5 max 63-70 0,024 max 1,25 max 31,5
PHYSICAL PROPERTIES								
Density gr/cm ³	7,75	7,75		7,83			-	
Structure	martensitic	ferritic		ferritic			-	
Melting point °C	1470 - 1560	1426 - 1510		-			1196 - 1220	
Heat resistance Continuous service °C	635	760		-			485	
ELECTRICAL PROPERTIES								
Magnetic permeability	$\mu = 700 - 1000$	$\mu = 600 - 1100$		$\mu = 1500 - 2000$			-	
Elec.Resistance microohm 21°C	57,0	60,0		17,2			5,1	
MECHANICAL PROPERTIES								
Elongation %	20	20		10			40	
Breaking strength kg/mm ²	45	45		30			52	
Yield strength kg/mm ²	28,12	28,12		38,67			17	
Hardness	75-85 R _B O	75-90 R _B		80-95 R _B			60-80 R _B	
CORROSION RESISTANCE								
Atmosphere fresh water	Good		Good		Good-Fair		Good	
Atmosphere industrial	Fair		Fair		Fair		Good	
Atmosphere salt water	Poor		Poor		Poor		Excellent	
Atmosphere salt	No		No		No		Excellent	
Acid	Fair		Fair		No		Good	
Bases	No		No		No		Good	

Steels - Standard information

STEEL TYPE	REF. DIN3017	GERMANY-EUROPE	USA	ITALY	UK	
		WN-DIN EN	AISI SAE	UNI	B.S.	
STEEL 100%	W5	1.4401 1.4571	X5 CrNiMo 17122 X6 CrNiMoTi 17122	316 316Ti	30316 -	X5 CrNiMo 1712 X6 CrNiMoTi 1712
	W4	1.4301 -	X5 CrNi 1810	304 -	30304 -	X5 CrNi 1810
	W3	1.4301 1.4016	X6 Cr 17	430	51430	X8 Cr 17
COMBINED STEELS	W2 W2B*	Band and housing in W3 (1.4016 - 430 SS), screw zinc-plated Cq15 steel * Housing zinc-plated steel				
MILD STEEL	W1	Housing and screw in mild galvanized steel				

STEEL TYPE	REF. DIN3017	SWEDEN	RUSSIA	SPAIN	FRANCE
		SS	GOST	UNE	AFNOR
STEEL 100%	W5	2347 (2350)	10Ch17N13M2T	F.3534 (F.3535)	Z6 CND 17-18 (Z6 CNDT 17-12)
	W4	2332	8Ch18N10	F.3504	Z7(6) CN 18-09
	W3	2320	12Ch17	F.3113	Z8 C 17
COMBINED STEELS	W2 W2B*	Band and housing in W3 (1.4016 - 430 SS), screw zinc-plated Cq15 steel * Housing zinc-plated steel			
MILD STEEL	W1	Housing and screw in mild galvanized steel			

Other stainless steel classification according to international standard

USA	GERMANY	ITALY	FRANCE	UK
AISI	WN-DIN	UNI	AFNOR	B.S.
305	1.4303	X8 CrNi 1812	Z8 CN 18-12	305 S 01
304L (301)	1.4306	X12 Cr 13	Z1 CN 18-12	304 S 11
303	1.4305	X10 CrNiS 1809	Z10 CNF 18-09	303 S 01
302	1.4300	X10 CrNi 1809	Z10 CN 18-09	302 S 01
410	1.4006	X12 Cr 13	Z10 CT 13	410 S 01
201	1.4372	-	-	201 S 01

STEEL	
Iron + carbon (minus of 2%)	Carbon steel
Carbon steel + few quantity of chromium, nickel etc.	Special steel
Special steel with chromium > 11%	Stainless steel

CLASS A2: equivalent inox/AISI 301-304-304L-305-321
CLASS A4: equivalent inox/AISI 316-316L-316Ti

AUSTENITIC AND NON - MAGNETIC STAINLESS STEEL

Austenitic and non-magnetic stainless steels are: series AISI 300 (chromium-nickel-carbon steel alloy) and series AISI 200 (chromium-nickel-manganese-carbon steel alloy).

RESIDUAL MAGNETISM

A possible phenomenon of residual magnetism is due to processing and automatic assembly; it does not influence the products performance.



Terms of sale

HOW TO ORDER: It is enough to indicate the part number (code) and the quantity. For an efficient order entry we suggest you indicate our code.

Nevertheless we will try to include your codes in most documents to prevent any misunderstanding.

RETURN OF GOODS: Any material return must be agreed beforehand with our commercial department; otherwise the goods will be sent back ex-works.

GUARANTEE: Defective goods will be repaired or substituted free of charge. This guarantee does not cover defects or problems due to misuse. The return of goods should be done as agreed beforehand with our company. We guarantee your personal data record as per art. 10 & 13 Italian privacy law 675/96. Whenever you request you can have access to this data or ask us to modify or cancel the information.

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