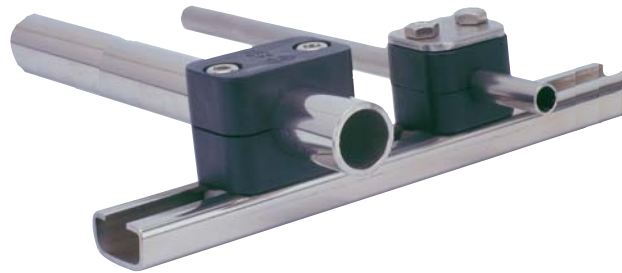


CLAMPS



The **MILANO** Clamps are designed for carbon steel, copper, stainless steel and other materials pipes fixation in low, medium or high pressures circuits such as hydraulic, compressed air, water, gas or electric, etc.

Easily installed, the clamps **MILANO** absorb vibration, stress, reduce noise and preserve the circuit components installed.

The clamps are made in accordance with standard DIN 3015-1 1997-07

- Line standard. Pipes 6-42 mm. (Mm and inch)
- Fitted with stainless or carbon steel components
- Threaded units with Metric threads (Default)
- Other threads under request

Clamps' Body:

- Clamp's body in Polyamide PA Color: Black (or other materials)
- Internal design with tension clearance
- Working temperature: - 40°C to + 140°C

Metal Components:

- Stainless Steel 304 = add to the clamp's and/or components' code: A2
- Stainless Steel 316 = add to the clamp's and/or components' code: A4
- Carbon Steel = add to the clamp's and/or components' code: C

On request

We can provide the clamps **MILANO** according to your needs dimensional applications (pipes, screws and special assemblies) and raw materials suitable for their applications.



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CLAMPS

HOW TO ORDER CLAMPS AND COMPONENTS

1 - FOR CLAMPS:

1.1 - NEXT TO THE **CODE ABT** ADD THE COMPONENTS' RAW MATERIAL.

EX: ABT2 (STAINLESS STEEL 304), **ABTA4** (STAINLESS STEEL 316) OR **ABTC** (CARBON STEEL).

1.2 - NEXT TO **-L**, INSERT THE PIPE'S EXTERNAL DIAMETER (MM) (3 DIGITS).

EX: PIPE 8MM = -L080, PIPE 1" = **-L254**, SCH OF PIPE 3/8 = **-L171**, ETC

2 - CLAMPS' COMPONENTS:

2.1 - CLAMP'S BODY: ADD THE PIPE'S EXTERNAL DIAMETER (MM)

EX: IPA100 PIPE FOR 10 MM, **IPA267** SCH OF PIPE 3/4, ETC

2.2 - RAIL, ADD THE RAW MATERIAL AND LENGTH:

EX: RAIL STEEL 316 X 2 = TRA4X2000 MTS.

2.3 - TO ORDER BOLTS FOLLOW **PAGE 240** + RAW MATERIAL.

EX: PFA = M6X25A4 BOLTS FOR GROUP 2 PIPE IN STAINLESS STEEL 316.

2.4 - FOR OTHER ITEMS ADD THE RAW MATERIAL + GROUP BELONGS TO THE PIPE.

EX: = PLCA2G3 = GROUP 3 PIPES WITH CLAMPS' COVER PLATE IN STAINLESS STEEL 304.

TECHNICAL INFORMATION AND CODEERENCES:

STANDARDS APPLY, MATERIALS AND COMPONENTS - TECHNICAL INFORMATION

Page 234

CLAMP PIPE WITH SINGLE WELD PLATE AND COVER PLATE

ABT....-L....PCS - Page 237

CLAMP PIPE WITH SINGLE WELD PLATE

ABT....-L....S - Page 237

CLAMP PIPE WITH ENLONGATED WELD PLATE AND COVER PLATE

ABT....-L....PCSP - Page 237

PIPE CLAMP WITH ENLONGATED WELD PLATE

ABT....-L....SP - Page 237

PIPE CLAMP WITH RAIL NUT AND COVER PLATE

ABT....-L....PC - Page 238

PIPE CLAMP WITH RAIL NUT

ABT....-L.... - Page 238

PIPE CLAMP WITH SAFETY LOCKING PLATE

ABT....-L....PE - Page 238

COMPONENTS OF THE CLAMPS - Page 239, 240.

CLAMPS' BODY (2 HALVES) **IPA....**

SINGLE WELD PLATE **PLW....G....**

ELONGATED WELD PLATE **PLWP....G....**

MOUNTING RAIL **TR...14X....**

RAIL NUT **PTR....**

COVER PLATE **PLC....G....**

HEXAGON HEAD BOLT **PFC....**

SOCKET CAP BOLT **PFA....**

STACKING BOLT **PFE....G....**

SAFETY LOCKING PLATE **PLE....G....**

CLAMPS' COMPONENTS DIMENSIONS - **Page 241 / 242**

CLAMPS MOUNTING INFORMATION - **Page 236**



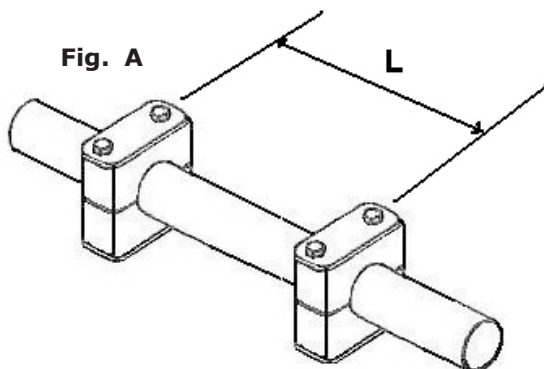
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TECHNICAL INFORMATION

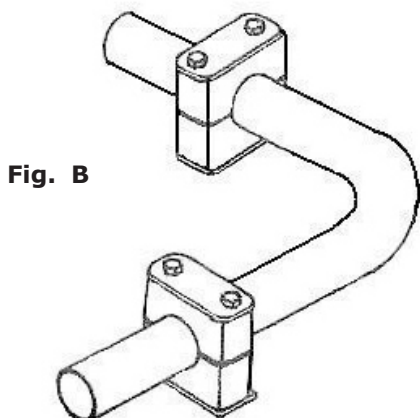
ASSEMBLING TECHNICAL INFORMATION



DINTANCE BETWEEN CLAMPS

The spacing between the clamps is recommended as a valid standard and static loads. FIG. A

D.E. TUBE MM	SPACING L METERS
6,00 a 12,7	1,00
12,7 a 22,0	1,20
22,0 a 32,0	1,50
32,0 a 38,0	2,00
38,0 a 57,0	2,80



CURVED (BENT) PIPES ASSEMBLING

The bent pipes must have its folds supported by clamps located closest to the radius of curvature. FIG. B

ADDITIONAL INFORMATION:

1 - CLAMPS WITH SINGLE OR ELONGATED WELD PLATE:

Mark the spot and weld the base (elongated ones can be bolted) execute the weld properly and then mount the clamp's components by placing the pipe after the clamp's first half installed.

2 - CLAMPS WITH RAIL NUT:

Install the mounting rail (welded or bolted) to the supporting structure. Mount the mounting rail nuts then turn to lock, mount the clamp's first half, place the pipe and complete the mounting.

3 - VERTICAL MOUNTING:

The **MILANO** clamps allow the same group pipe vertical mounting. Install the weld plate or the rail nut as already seen in items 1 and 2, now mount the clamp's first half and place the pipe, then place the clamp's second half and the stacking bolts applying the enough torque, place the safety locking plate so that it fits in the two socket cap bolt and place the second clamp's first half and so on. The last clamp to be installed in vertical (finishing) may be with the cover plate or socket s cap bolts.



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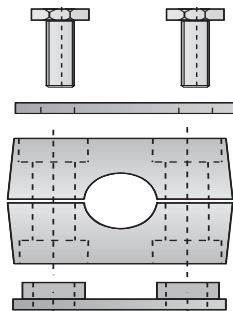


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CLAMPS

SINGLE WELD PLATE

Clamps with weld and cover plate.



Part #: **ABT (MP)-L (DE)**

MP = Metal Components' Raw Material

DE = Pipe's diameter (mm)

COMPONENTS:

- Clamp's body: 2 halves
- Weld Plate: 1 unit
- Cover plate: 1 unit
- Hexagon head bolt DIN 931/933: 2 units

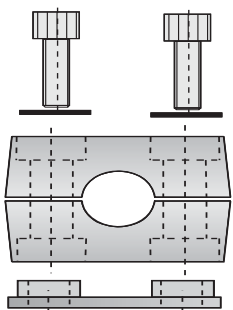
Ex: 25.0 mm stainless steel 316 pipe clamp with weld and cover plate:

ABTA4-L 250pcs



Online quotation

Clamps with weld plate.



Part #: **ABT.....(MP)-L.....(DE)S**

MP = Metal Components' Raw Material

DE = Pipe's diameter (mm)

COMPONENTS:

- Clamp's body: 2 halves
- Weld Plate: 1 unit
- Hexagon head bolt DIN 912: 2 units

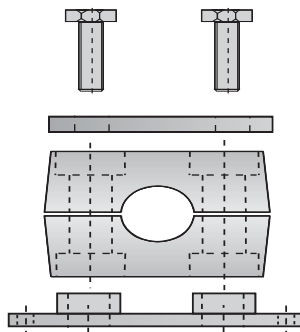
Ex: 10.0 mm carbon steel pipe clamp with weld plate: **ABTC-L 100S**



Online quotation

CLAMPS WITH ELONGATED WELD PLATE

Clamps with elongated weld and cover plates.



Part #: **ABT (MP)-L (DE) PCSP**

MP = Metal Components' Raw Material

DE = Pipe's diameter (mm)

COMPONENTS:

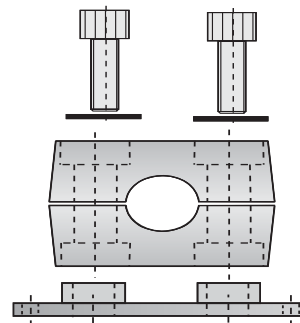
- Clamp's body: 2 halves
- Elongated Weld Plate: 1 unit
- Cover plate: 1 unit
- Hexagon head bolt DIN 931/933: 2 units

Example: 12,7 mm stainless steel 304 pipe clamp with elongated weld and cover plates: **ABTA2-L 127PCSP**



Online quotation

Clamps with elongated weld plate.



Part #: **ABT (MP)-L (DE) SP**

MP = Metal Components' Raw Material

DE = Pipe's diameter (mm)

COMPONENTS:

- Clamp's body: 2 halves
- Weld Plate tabs: 1 unit
- Socket cap bolt DIN 912: 2 units

Ex: 25,4 mm stainless steel 316 pipe clamp with elongated weld plate:

ABTA4 L-254SP



Online quotation



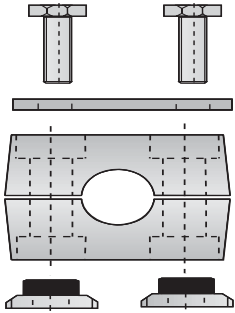
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Print Chapter

CLAMPS

CLAMPS WITH RAIL NUT



Clamps with rail nut and cover plate.

Part #: **ABT (MP)-L (A) PC**

MP = Metal Components' Raw Material

DE = Pipe's diameter (mm)

COMPONENT:

Clamp's body: 2 halves

Rail Nut: 2 units

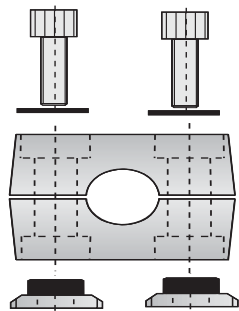
Cover plate: 1 unit

Hexagon head bolt DIN 931/933: 2 units

EX: SCH OF 1 "(33.4 mm) stainless steel 316 pipe clamp with rail nut and cover plate: **ABTA4 L-334PC**



Online quotation



Clamp with rail nut.

Part #: **ABT (MP)-L (DE)**

MP = Metal Components' Raw Material

DE = Pipe's diameter (mm)

COMPONENTS:

Clamp's body: 2 halves.

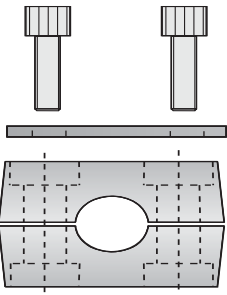
Rail nut: Hexagon head bolt DIN 912: 2 units

Example: 20.0 mm stainless steel 316 pipe clamps with rail nut: **ABTA4 L-200**



Online quotation

STACKING CLAMPS



Clamps with safety locking plate.

Part #: **ABT (MP)-L (DE) EP**

MP = Metal Components' Raw Material

DE = Pipe's diameter (mm)

COMPONENTS:

Clamp's body: 2 halves.

Stacking plate 1 unit

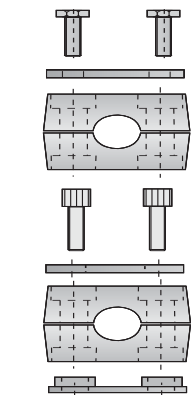
Screw piling: 2 units

Example: 20.0 mm stainless steel 316 pipe clamp with safety locking plate:

ABTA4-L 200PE



Online quotation



Ex: Ordering two 25.4 mm and 20.0 mm stainless steel 316 pipes for stacking (vertical mount).

The 25.4 mm pipe with safety locking plate,

The 20.0 mm pipe with cover plate and weld plate.

Part #: **ABTA4-L 254-200 PCS**

Mounting components:

ABTA4-L 254 PE

ABTA4-L 200 PCS

IMPORTANT: The vertical stacking is possible only with same group clamps.



Online quotation

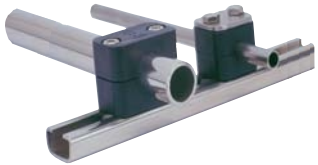

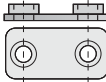
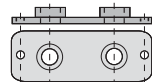




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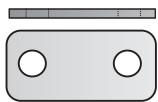

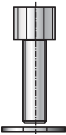


			COMPONENTS OF THE CLAMPS					
								
			IPA....	PLW....G....	PLWP....G....	TR....14X....	PTR....	
GROUP DIN MM	D.E. TUBE	D.E. TUBE Pol./SCH	CLAMPS' BODY (2 HALVES)	SINGLE WELD PLATE	ELONGATED WELD PLATE	MOUNTING RAIL	RAIL NUT	
1	06,0		060			1 METRE LENGTH	PTR....	
	06,4	1/4	064					
	08,0	5/16	080	PLW....G1	PLWP....G1			
	09,5	3/8	095					
	10,0	1/8 SCH	100					
	12,0		120					
2	12,7	1/2	127					
	13,7	1/4 SCH	140					
	14,0		140					
	15,0		150	PLW....G2	PLWP....G2			
	16,0	5/8	160					
	17,1	3/8 SCH	171					
3	18,0		180					2 METRE LENGTH
	19,0	3/4	190					
	20,0		200					
	21,3	1/2 SCH	213					
	22,0	7/8	220	PLW....G3	PLWP....G3			
	23,0		230					
25,0		250						
4	25,4	1	254			TR....14X2000		
	26,7	3/4 SCH	267					
	28,0		280	PLW....G4	PLWP....G4			
30,0		300						
5								
	32,0	1.1/4	320					
	33,4	1 SCH	334					
	35,0		350	PLW....G5	PLWP....G5			
	38,0	1.1/2	380					
	40,0		400					
42,0	1.1/4 SCH	420						


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CLAMPS

COMPONENTS OF CLAMPS

 PLC....G....	 PFC..... ..	 PFA..... ..	 PFE....G....	 PLE....G....
COVER PLATE	HEXAGON HEAD BOLT	SOCKET CAP BOLT	STACKING BOLT	SAFETY LOCKING PLATE
PLC....G1	PFC M6X30....	PFA M6X20....	PFE....G1	PLE....G1
PLC....G2	PFC M6X35....	PFA M6X25....	PFE....G2	PLE....G2
PLC....G3	PFC M6X40....	PFA M6X30....	PFE....G3	PLE....G3
PLC....G4	PFC M6X45....	PFA M6X35....	PFE....G4	PLE....G4
PLC....G5	PFC M6X60....	PFA M6X50....	PFAE....G5	PLE....G5



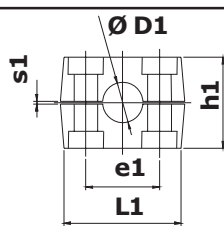
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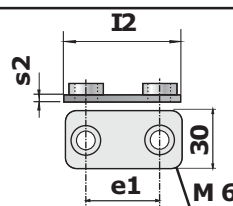
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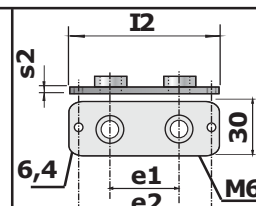
CLAMPS' COMPONENTS DIMENSIONS



IPA....



PLW....G....



PLWP....G....

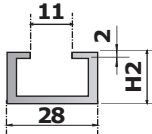
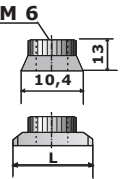
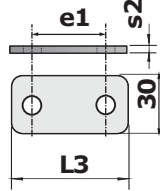
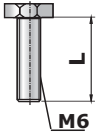
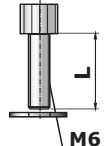
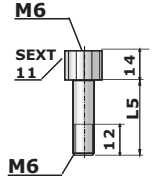
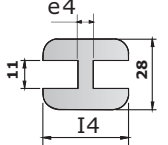
GRUP DIN	D.E. TUBE MM	D.E. TUBE Pol./SCH	CLAMPS' BODY (2 HALVES)					SINGLE WELD PLATE			ELONGATED WELD PLATE							
			Ø D1	e1	LI	h1	s1	e1	l2	s2	e1	e2	l2	s2				
1	06,0		06,0															
	06,4	1/4	06,4															
	08,0	5/16	08,0	20,0	37,0	27,0	0,40 min.	20,0	36,0	3,0	20,0	50,0	64,0	3,0				
	09,5	3/8	09,5															
	10,0	1/8 SCH	10,0															
	12,0		12,0															
2	12,7	1/2	12,7															
	13,7	1/4 SCH	14,0															
	14,0		14,0															
	15,0		15,0	26,0	42,0	33,0	0,60 min.	26,0	42,0	3,0	26,0	56,0	70,0	3,0				
	16,0	5/8	16,0															
	17,1	3/8 SCH	17,1															
18,0		18,0																
3	19,0	3/4	19,0															
	20,0		20,0															
	21,3	1/2 SCH	21,3															
	22,0	7/8	22,0	33,0	50,0	35,0	0,60 min.	33,0	50,0	3,0	33,0	64,0	78,0	3,0				
	23,0		23,0															
	25,0		25,0															
25,4	1	25,0																
4	26,7	3/4 SCH	26,7															
	28,0		28,0	40,0	59,0	42,0	0,60 min.	40,0	60,0	3,0	40,0	73,0	87,0	3,0				
	30,0		30,0															
5	32,0	1.1/4	32,0															
	33,4	1 SCH	33,4															
	35,0		35,0	52,0	71,0	58,0	0,80 min.	52,0	71,0	3,0	52,0	86,0	100,0	3,0				
	38,0	1.1/2	38,0															
	40,0		40,0															
	42,0	1.1/4 SCH	42,0															


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CLAMPS

CLAMPS' COMPONENTS DIMENSIONS

 TR...14X...	 PTR...	 PLC...G...			 PFC...	 PFA...	 PFE...G...			 PLE...G...
MOUNTING RAIL	RAIL NUT	COVER PLATE			HEXAGON HEAD BOLT	SOCKET CAP BOLT	STACKING BOLT			SAFETY LOCKING PLATE
H 2	L	e 1	s 2	L 3	M 6 x L	M 6 x L	L 5	e 4	l 4	
		20,0	3,0	34,0	M 6 X 30	M 6 X 20	20,0	6,5	34,0	
		26,0	3,0	40,5	M 6 X 35	M 6 X 25	25,0	12,5	40,0	
14,0	25,0	33,0	3,0	48,0	M 6 X 40	M 6 X 30	30,0	19,5	48,0	
		40,0	3,0	57,0	M 6 X 45	M 6 X 35	35,0	26,0	57,0	
		52,0	3,0	70,0	M 6 X 60	M 6 X 50	50,0	38,0	70,0	


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