



### **BASIC CLAMP:**

The Basic (BAS.) repair clamp is a stripped down version of the Standard (STA) repair clamp. This means that only the necessary parts are on this clamp. All other parts and cost increasing actions are removed. There for this has a very competitive price level.

### **HEA. CLAMP:**

If you come across a space problem while installing the clamp. the HEA. Clamp is the solution. Because of its removable closing mechanism you only need 10 mm of free space to install the clamp.

### **TC CLAMP:**

This repair clamp is only partially covered with a NBR or EPDM gasket, suitable for repairing small holes in water pipelines. It is available in one section type and with a length of 100 or 150 mm.

## **SPECIFICATIONS:**

<b>Bolts</b>	- Stainless steel AISI 304 (A2); Dimensions depend on diameter. M12, M14 or M16 (metric thread according DIN267).
<b>Lifterbar</b>	- Stainless steel AISI 304 (A2). L shaped. Lips hold bolts in position while tightening.
<b>Nuts</b>	- Stainless steel AISI 304 (A2). Size M12, M14 or M16 according DIN934. Extra yellow passivated to optimize free running.
<b>Body Shell</b>	- Stainless steel AISI 304 (A2)
<b>Armour plate</b>	- Vulcanised into the gasket for all standard clamps Stainless steel AISI 304. not available on TC
<b>Gasket</b>	- NBR gasket, proper for both gas and water purposes. It has a waffle structure and tapered ends. EPDM gasket is optional.
<b>Sidebar</b>	- Stainless steel AISI 304
<b>Guide finger</b>	- Stainless steel AISI 304, Guide fingers keep the bolts in position.
<b>Additional</b>	- Further to the above mentioned technical specifications; products are also available in AISI 316/316L quality. Not available on BASIC - After welding all stainless steel parts are passivated to obtain a high corrosion resistance. - Basis clamps are without labelling and not packed in a cardboard box.

All mentioned working pressures on all our documents are only valid in optimum circumstances and based on document 2009.04.24.PRES-N002. please contact us for a copy of this document.

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This mini clamp is as plain repair clamp. Suitable for repairing holes in small pipelines. The inside of the clamp is partially covered with a NBR or EPDM gasket. This design requires no welding and therefore no chemical treatment to passivate the clamps. Only available in predefined quantities of 100 units per position.

**SPECIFICATIONS:**

- Bolts** - Stainless steel AISI 304 (A2); M8, full thread.
- Lifterbar** - Stainless steel AISI 304 (A2). U shaped. Lips hold bolts in position while tightening.
- Nuts** - Stainless steel AISI 304 (A4). Size M8, zinc coated
- Body Shell** - Stainless steel AISI 304 (A2)
- Gasket** - NBR or EPDM gasket, The gasket has a waffle structure.
- Dimensions**
  - Available in length of 60 (1 bolt) and 100 mm(2 bolts).
  - Working range starting at 16- 20 mm. up to 323- 329 mm.
  - Quantities: a of 100 units per working range
  - Pressure levels: water PN10.
  - For installation a free space of 7 mm is sufficient.
  - For availability in your country, please contact us.

**AVAILABLE SIZES:**

Range		Length
16 - 20	*	60 100
21 - 25	*	60 100
26 - 30	*	60 100
33 - 37	*	60 100
38 - 42	*	60 100
42 - 45	*	60 100
48 - 51	*	60 100
50 - 54	*	60 100
55 - 58	*	60 100
60 - 64	*	60 100
62 - 66	*	60 100
65 - 69	*	60 100
69 - 73	*	60 100
71 - 76	*	60 100
74 - 80	*	60 100
87 - 93	*	60 100

Range		Length
94 - 100	*	60 100
99 - 104	*	60 100
105 - 111	*	60 100
112 - 117	*	60 100
115 - 121	*	60 100
120 - 126	*	60 100
126 - 131	*	60 100
131 - 136	*	60 100
139 - 145	*	60 100
156 - 162	*	60 100
167 - 173	*	60 100
173 - 179	*	60 100
200 - 206	*	60 100
217 - 223	*	60 100
223 - 229	*	60 100
272 - 278	*	60 100
323 - 329	*	60 100

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Suitable for making service connections, fixing valves and fittings. It is possible to supply an extensive range of outlets, for instance, BSP, BSO and BSD outlets. Available in one, two and three sections.

- Available outlets: BSP: 1/2" · 3/4" · 1" · 1 1/4" · 1 1/2" · 2" · 2 1/2" · 3" · 4"  
 BSO: 2 1/2" · 3"  
 BSD: 2"int. / 2 1/2" ext.  
 Polsafe: 1 1/2" · 2"

**SPECIFICATIONS:**

- Thread protection caps** - Plastic caps to protect the thread.
- Bolts** - Stainless steel AISI 304 (A2); Dimensions depend on diameter. M12, M14 or M16 (metric thread according DIN267). Thread is PTFE (Teflon™) coated to prevent galling.
- Lifterbar** - Stainless steel AISI 304 (A2). L shaped. Lips hold bolts in position while tightening.
- Nuts** - Stainless steel AISI 304 (A2). Size M12, M14 or M16 according DIN934. Extra yellow passivated to optimize free running.
- Body Shell** - Stainless steel AISI 304 (A2).
- Armour plate** - Vulcanised into the gasket for all standard clamps. Stainless steel AISI 304.
- Gasket** - NBR gasket, proper for both gas and water purposes. It has a waffle structure and tapered ends. EPDM gasket is optional.
- Sidebar** - Stainless steel AISI 304.
- Guide finger** - Stainless steel AISI 304, Guide fingers keep the bolts in position.
- Outlets** - BSP, BPD, BSO and Polsafe.
- Additional** - After welding all stainless steel parts are passivated to obtain a high corrosion resistance. Further to the above mentioned technical specifications; products are also available in AISI 316/316L quality.

**Minimal dimensions with outlets:**

Outlet	Single band	Length	Double Band	Length
1/2"	40 - 44	150	88-110	200
3/4"	48 - 52	150	88-110	200
1"	57 - 64	150	88-110	200
1 1/4"	67 - 74	150	88-110	200
1 1/2"	70 - 77	200	88-110	200
2"	87 - 95	200	88-110	200
2 1/2"	-	-	108-128	200
3"	-	-	130-150	300
4"	-	-	159-170	400

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Suitable for making service connections on different pipe types. The tapping saddles are available with following threaded outlets: 1/2" · 3/4" · 1" · 1 1/4" · 1 1/2" · 2" · 3". all other outlets upon request.

## SPECIFICATIONS:

### Thread protection

#### Bolts

#### Lifterbar

#### Nuts

#### Body Shell

#### Gasket

#### Sidebar

#### Guide finger

#### Outlets

#### Additional

- Plastic caps to protect the thread.
- Stainless steel AISI 304 (A2); Dimensions depend on diameter. M16 (metric thread according DIN267). Thread is PTFE (Telfon™) coated to prevent galling.
- Stainless steel AISI 304 (A2). L shaped. Lips hold bolts in position while tightening.
- Stainless steel AISI 304 (A2). Size M16 according DIN934. Extra yellow passivated to optimize free running.
- Stainless steel AISI 304 (A2).
- NBR or EPDM gasket, proper for both gas and water purposes. It has a waffle structure and tapered ends. The strap is equipped with a smooth rubber layer in order to avoid direct contact with the pipe material.
- Stainless steel AISI 304.
- Stainless steel AISI 304, Guide fingers keep the bolts in position.
- BSP, BPD, BSO and Polsafe.
- After welding, all stainless steel parts are passivated to obtain a high corrosion resistance.

## Standard Sizes:

DN 80	88 - 110	DN 200	190 - 218
DN 100	108 - 134	DN 225	216 - 238
DN 125	114 - 139	DN 250	230 - 260
DN 150	138 - 160	DN 275	265 - 285
DN 175	159 - 180		

other sizes available upon request

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## SPECIFICATIONS:

Because of its light-weight and easy installation the tapping sleeve is extremely useful to make flange connections on pipelines, even under pressure. The Tapping sleeves have a standard working range of 20 mm and are available from range 88 - 110 mm. up to 768 - 798 mm. Standard length available are 300, 400, 500, 600, 800 and 1000 mm. The used flanges are all according DIN2576.

- |                      |  |
|----------------------|--|
| <b>Bolts</b>         | - Stainless steel AISI 304 (A2); M16 (metric thread according DIN267). Thread is PTFE (Telfon™) coated to prevent galling. Standard Bolts point upwards. It is also possible to point them downwards.  |
| <b>Lifterbar</b>     | - Stainless steel AISI 304 (A2). L shaped. Lips hold bolts in position while tightening.   |
| <b>Nuts</b>          | - Stainless steel AISI 304 (A2). M16 according DIN934. Extra yellow passivated to optimize free running.   |
| <b>Body Shell</b>    | - Stainless steel AISI 304 (A2). With a reinforced upper section.  |
| <b>Armour plate</b>  | - Stainless steel AISI 304, vulcanised into the gasket.  |
| <b>Gasket</b>        | - Full circle NBR gasket with special designed sealing ring, proper for both gas and water purposes. It has a waffle structure and tapered ends. EPDM or Viton gaskets are optional.   |
| <b>Sidebar</b>       | - Stainless steel AISI 304.  |
| <b>Guide finger</b>  | - Stainless steel AISI 304, Guide fingers keep the bolts in position.  |
| <b>Welded collar</b> | - Stainless steel AISI 304, TIG welded on the <b>in-</b> and <b>outside</b> to form permanent fusion with the body shell and flange. total height of the collar is app.120mm up to flange DN 150 and for flange DN 200 up to DN 300, depending on pipe diameter. |
| <b>Flange outlet</b> | - Stainless steel AISI 304, flanges according to DIN2576. varying from DN 50 up to DN300.  |
| <b>Additional</b>    | - After welding all stainless steel parts are passivated to obtain a high corrosion resistance.<br>- Further to the above mentioned technical specifications; products are also available in AISI 316/316L quality.  |

## WORKING PRESSURE:

	WATER	GAS
88 - 210	16	4
216 - 410	10	3
420 - 798	6	2

The working pressure a Tapping Sleeve can withhold depends on a number of variables, for instance; diameter in combination with the used material and type of flange, etc. that is why the pressures given here are guidelines.

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## FLANGE SIZE IN COMBINATION WITH STARTING RANGES AND LENGTH:

flange	min. Length	starting range	flange drilling
DN 50	300	88 - 110	PN 10 / 16
DN 65	300	88 - 110	PN 10 / 16
DN 80	400	88 - 110* / 108 - 128	PN 10 / 16
DN 100	400	108 - 128* / 133 - 153	PN 10 / 16
DN 125	400	133 - 155	PN 10 / 16
DN 150	400	159 - 180* / 169 - 189	PN 10 / 16
DN 200	500	210 - 230* / 240 - 260	PN 10 / 16
DN 250	600	315 - 335	PN 10
DN 300	on request		

\*: Including a stainless steel concentric reducer .

## RUBBER GASKETS AVAILABLE

Rubber:	NBR	EPDM	VITON
Application:	Gas, Water, Oil and Several chemicals	Hot Water / Steam and several chemicals	Very Hot water, almost all chemicals.
Temperature:	-40° +130°	-40° +130°	-25° +220°



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## SPECIFICATIONS:

This product is used to provide inside support for PE and PVC pipe material when couplings are used. The construction gives a circumferential inside support to the pipe ends. The inserts are always custom made to give the best support.

### Material

- Stainless steel AISI 304

### Available diameters

- Inserts for following PE pipe diameters are available:  
50 · 63 · 73 · 90 · 110 · 125 · 140 · 160 · 180 · 200 · 225 · 250 · 280 · 315 and 355 mm.

### Available SDR measurements

- The above mentioned diameters can be combined with following SDR measurements according to DIN8074, to get the right insert to fit the pipe:  
SDR 7,5 · 9 · 11 · 13,6 · 16,6 · 17 · 17,6 · 21 · 26 · 33 · 34 · 41 and SDR 50

### Length

- Available in lengths:
 

- Diameter 50 - 63 - 75	100 mm.
- Diameter 90 - 110 - 125	120 mm.
- Diameter 140 - 160 - 180	140 mm.
- Diameter 200 - 225 - 250 - 280 - 315 - 355	160 mm.

### Additional

- Only available in quantities of 25 units per position.

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