

BORTEK[®]
FLEXIBLE COUPLINGS

BORINLINE

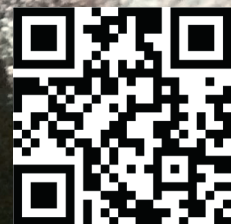


www.bortek.com

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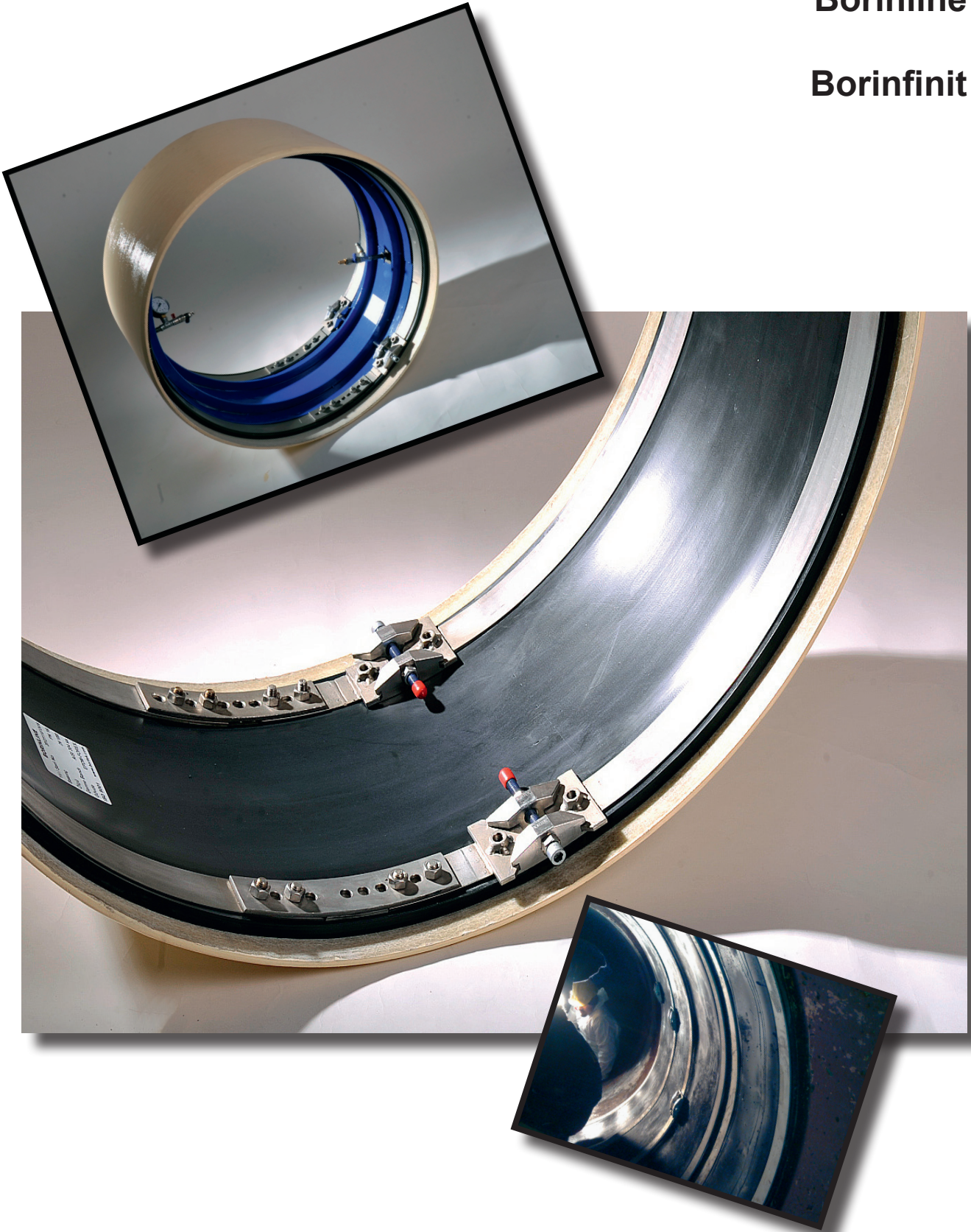
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Borinline

Borinfinit





Applications:

For all kind of pipes
Steel, GRP, HDPE, PVC, ductile font, ACP, concrete etc. . .

Technical specification:

Operating pressure up to 20 bar

Sealing system:

- EPDM -20°C up to 120°C
Medium: water, waste, air solids
chemical products
- NBR -20°C up to 80°C
Medium: water, gas, oil, fuel and
other hydrocarbons



Dove tail fastener:

- AISI 304
- AISI 316
- AISI 316Ti
- Other alloys on request

Locking system:

- AISI 304
- AISI 316



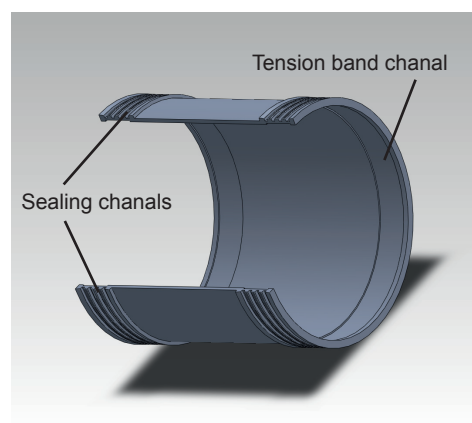
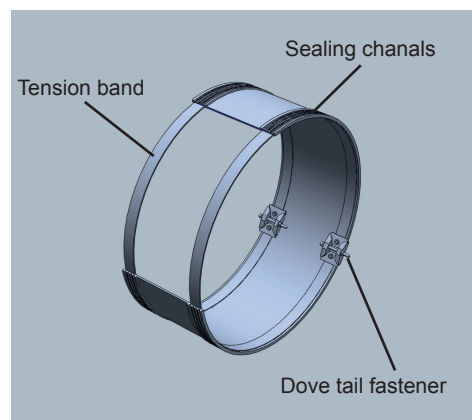
Strip insert (optional to cover big size of holes):

- AISI 304
- AISI 316
- PVC

Remarks:

Any other size available
Follow fitting / disassembly instructions

- Seal lips with four-channels for high reliability of tightness
- Axial movements and angular deflections (axial non restraint)
- Radial deformation and vibration absorber
- On axial movement the rubber seal moves with the pipe without any abrasion or any migration
- In two different width 330 and 420mm
- Safety factor and test pressure according your request
- Most efficient way to repair accessible pipes
- Re-usable



Bolts-Nut Torque Values

Nominal Diameter	Strip Thickness	Thread	Tightening Torque	F (Newton)	Locking Unit	Material
500	5 mm	M14	30 Nm	25100	SMALL	AISI 316
600	5 mm	M14	35 Nm	25850	SMALL	AISI 316
700	5 mm	M14	40 Nm	26600	SMALL	AISI 316
800	5 mm	M14	45 Nm	27800	SMALL	AISI 316
900	5 mm	M14	50 Nm	29300	SMALL	AISI 316
1000	5 mm	M14	60 Nm	33600	SMALL	AISI 316
1200	5 mm	M14	80 Nm	40800	SMALL	AISI 316
1400	5 mm	M16	95 Nm	44800	MEDIUM	AISI 316
1600	5 mm	M16	120 Nm	52750	MEDIUM	AISI 316
1850	5 mm	M16	150 Nm	60500	MEDIUM	AISI 316
2000	5 mm	M16	160 Nm	63250	MEDIUM	AISI 316
3000	6 mm	M20	300 Nm	96830	HEAVY	AISI 316
3500	6 mm	M20	370 Nm	110350	HEAVY	AISI 316
4000	6 mm	M20	450 Nm	125400	HEAVY	AISI 316

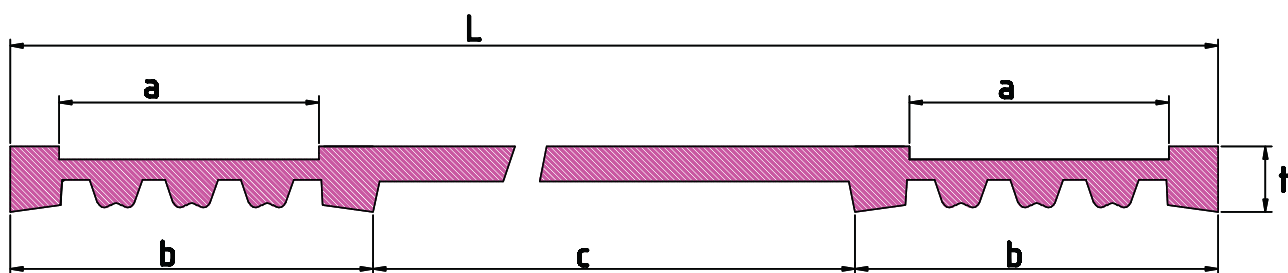
Dove tail fastener and dimension adjustment plate



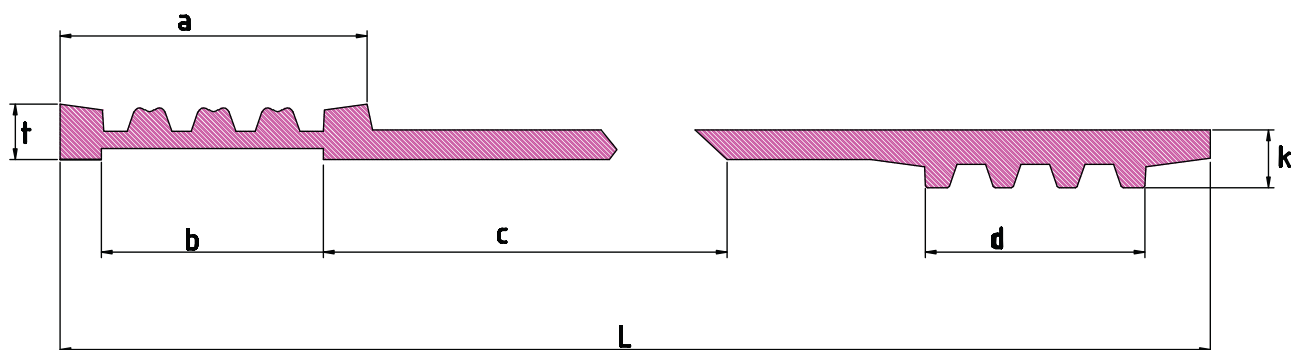
Dove tail fastener

- Very simple and reliable installation
- Dimension adjustment plate offers high flexibility (optional)

Borinline Gasket Cut View



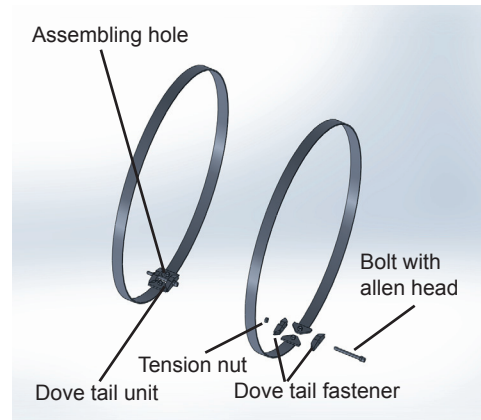
a mm	b mm	c mm	t mm	L mm
51.5	72	268	13	412



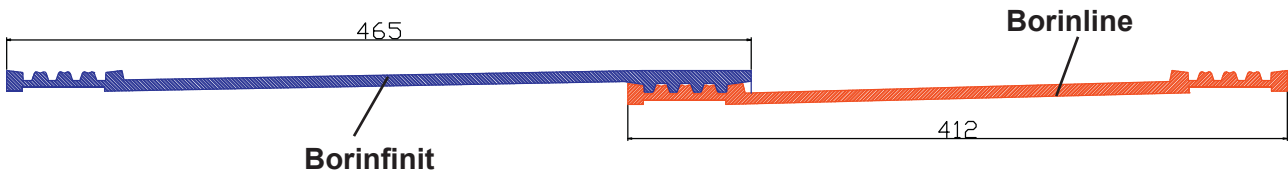
a mm	b mm	c mm	d mm	t mm	k mm	L mm
72	51.5	336	51.5	13	13.5	465

Borinline Tensioning Bands

- AISI 304 standard material
- AISI 316 / 316 Ti optional
- Thickness of material changes according to dimension



Connecting of BORINLINE with BORINFINIT



Applying BORINFINIT

The first modul is a BORINLINE, followed by unlimited connections of BORINFINIT modules.

Each connection will be sealed by a tension band.

www.borinline.com

Remarks:

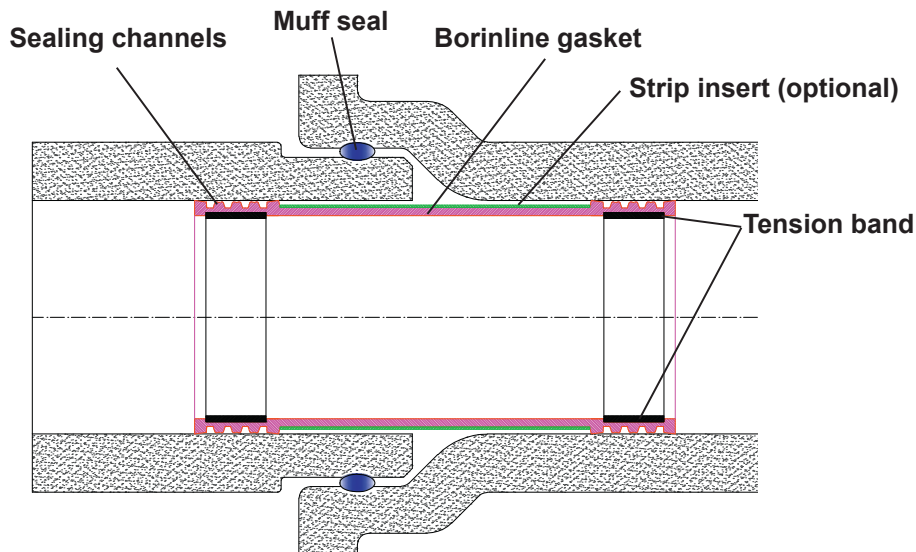
Any other size available

Follow fitting / disassembly instructions

Borinline Application

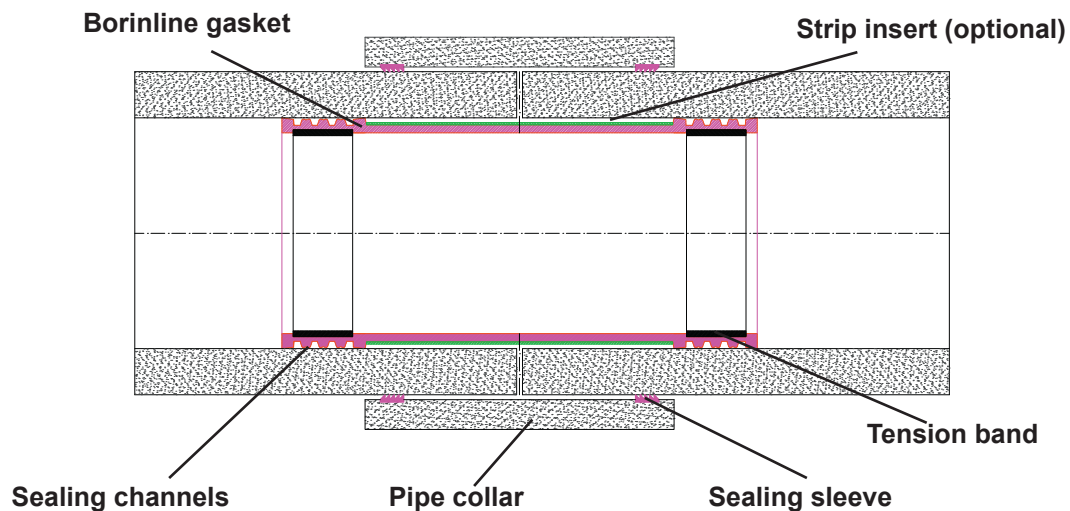
Repair of muff section

- Covering wide gap
- Angular deflections easy to handle
- Reinforcement part to cover big holes (optional)



Repair of sleeve systems

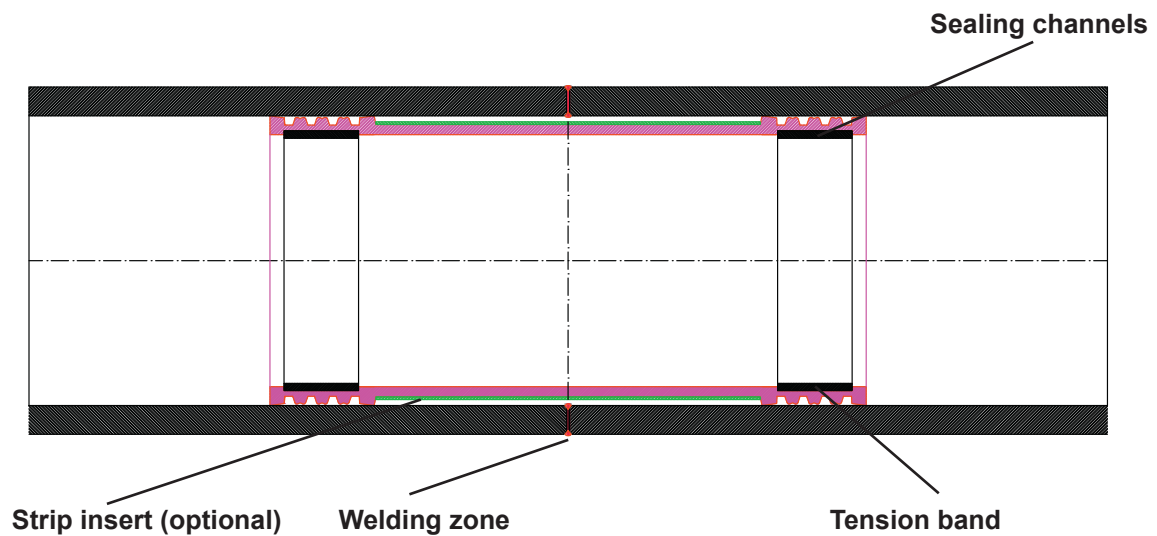
- Mostly seen on GRP or asbestos pipes
- Very simple and reliable installation
- Also used as test unit of those pipes



Borinline Application

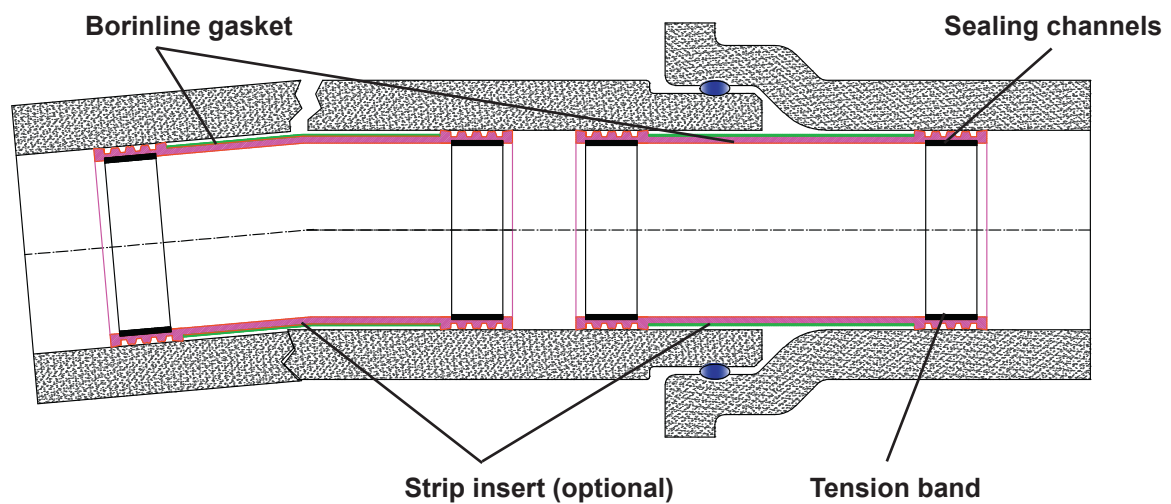
Leakage across the welding seams

- No drying of repair zone necessary
- Alternative use instead of outside coupling

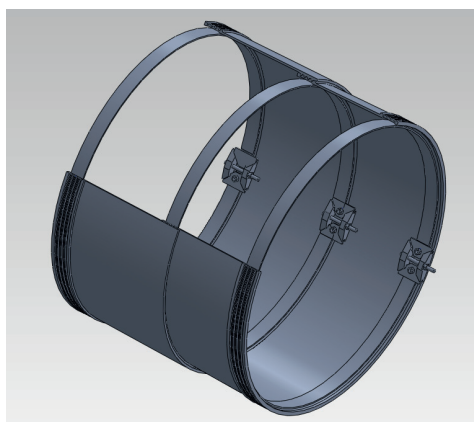


Damage on several areas

- Simultaneous repairing of one or more fractures
- Modular extensible Borinline and Borinfinit



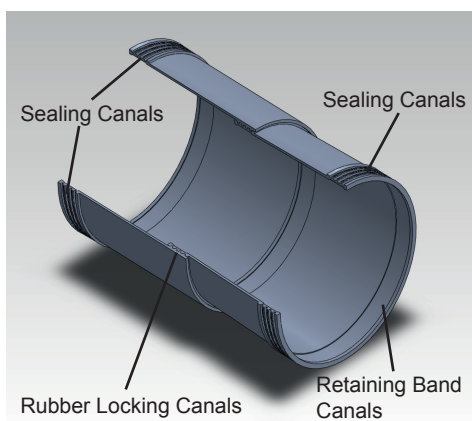
Modular system Borinline and Borinfinit



Material specification see page 4

Lengths calculation:

1x Borinline	=	412 mm
1x Borinline plus 1 x Borinfinit	=	800 mm
1x Borinline plus 2 x Borinfinit	=	1200 mm
1x Borinline plus 3 x Borinfinit	=	1600 mm



Each supplementary Borinfinit modul offers you an extension of 400mm.

Applying Borinfinit, the first modul is a Borinline, followed by unlimited connections of Borinfinit modules

Remarks:

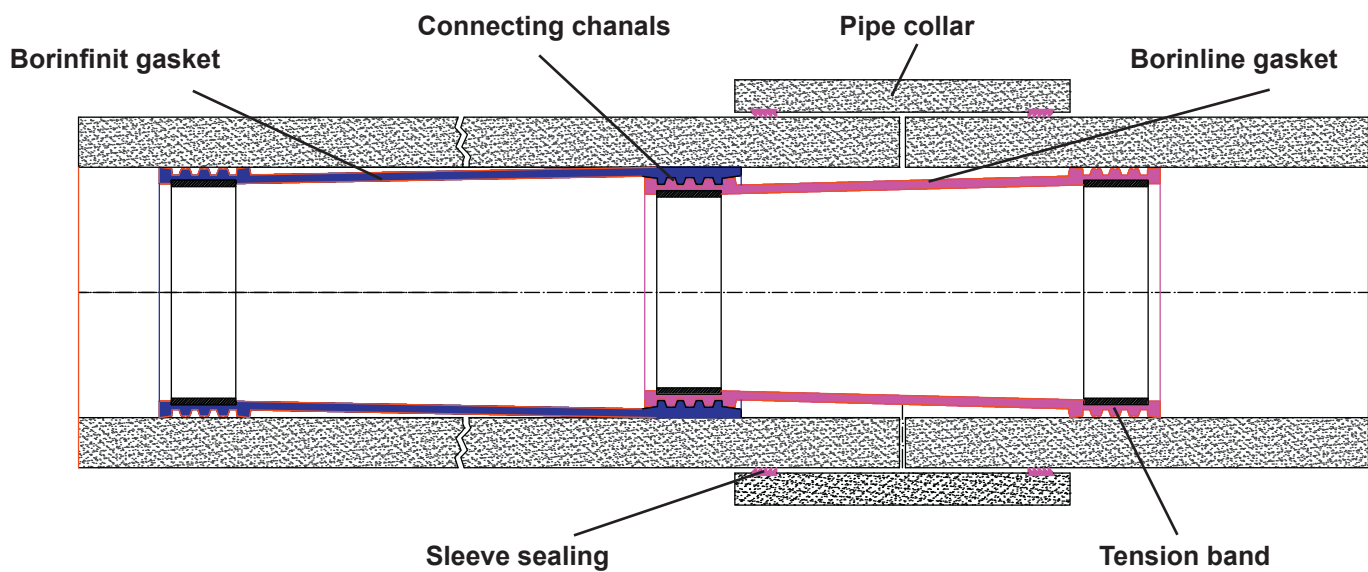
Any other size available
Follow fitting / disassembly instructions

www.borinfinit.com

Concrete pipe DN1600 damaged length 800mm
Solved by using 1x Borinline and 2x Borinfinit
Repaired in two hours



Steel pipe DN1800 damaged length 380mm
Solved by using 1x Borinline and 1 Borinfinit



Pipe joint test apparatus



Technical specifications see page 4

The system has to be designed according your requested test pressure

Test system has been created to test the muff or sleeve connections from inside

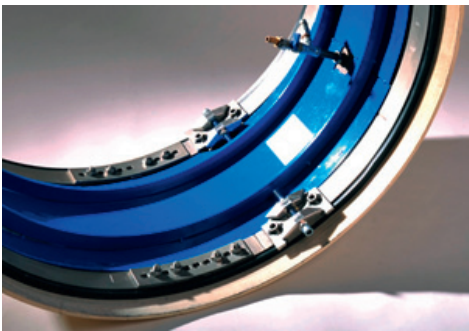
Manometer (optional)

The unit is re-usable

The sealed location can be tested with air or with water at 3 bar

Immediate visual tightness control of the tube connection

Adjustment plate (optional)

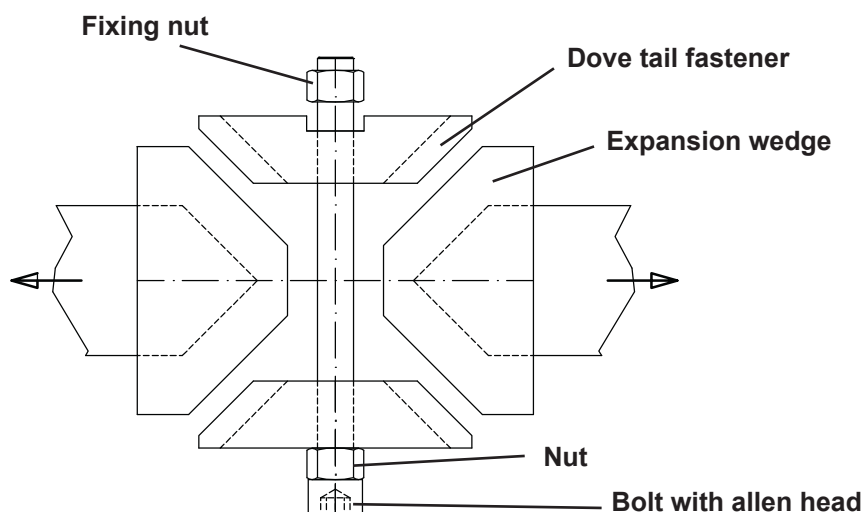


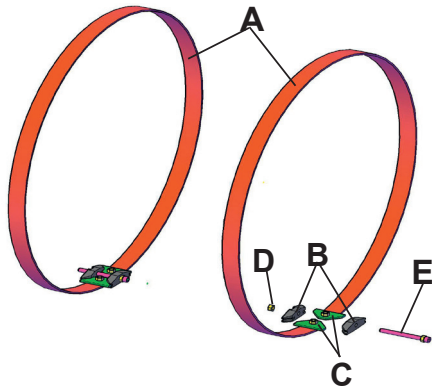
Remarks:

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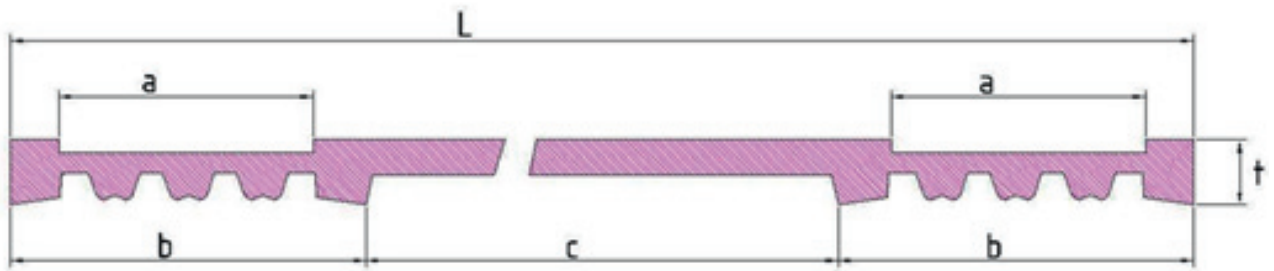
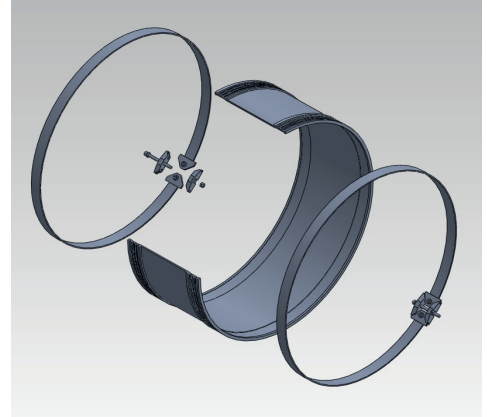
Follow fitting / disassembly instructions

Dove tail fastener



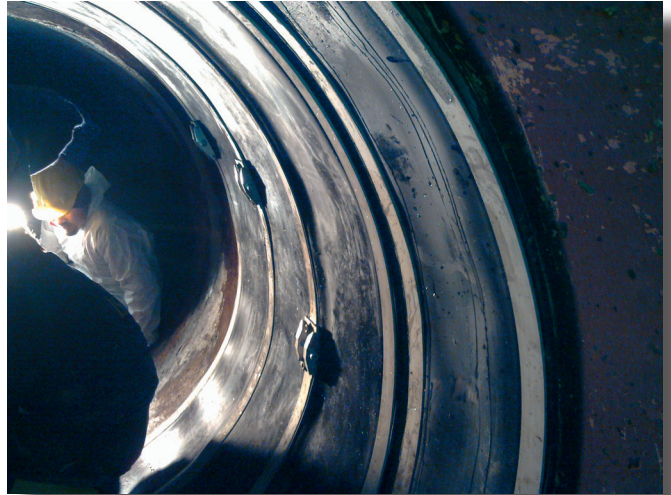


- A - Tension band
- B - Dove tail fastener
- C - Expansion wedge
- D - Fixing nut
- E - Bolt with allen head



a mm	b mm	c mm	t mm	L mm
51.5	72	268	13	420

Nominal Diameter	Strip Thickness	Thread	Tightening Torque	F (Newton)	Locking Unit	Material
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ISO 10002-2004

SA 8000



most efficient way to connect two pipes



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