

## Laying instructions

for ductile cast iron  
pressure pipes and fittings,  
equipped with

Tyton SIT®  
TYTON SIT PLUS®  
thrust resisting joints

# Laying instructions Tyton SIT® / TYTON SIT PLUS®

## General instructions

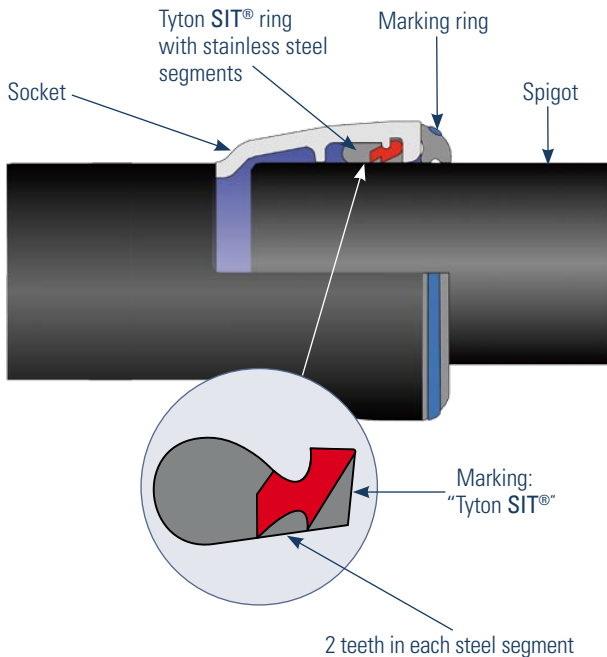
For laying pressure pipes and fittings with thrust resisting joint Tyton SIT® and/or TYTON SIT PLUS® (TSP®) the „laying instructions for ductile cast iron pressure pipes and fittings with TYTON®-joint“ as well as special installation instructions of the pressure pipe manufacturer are to be observed.

Düker offers sealing and locking rings of the type Tyton SIT® for dimensions DN 80 up to DN 400.

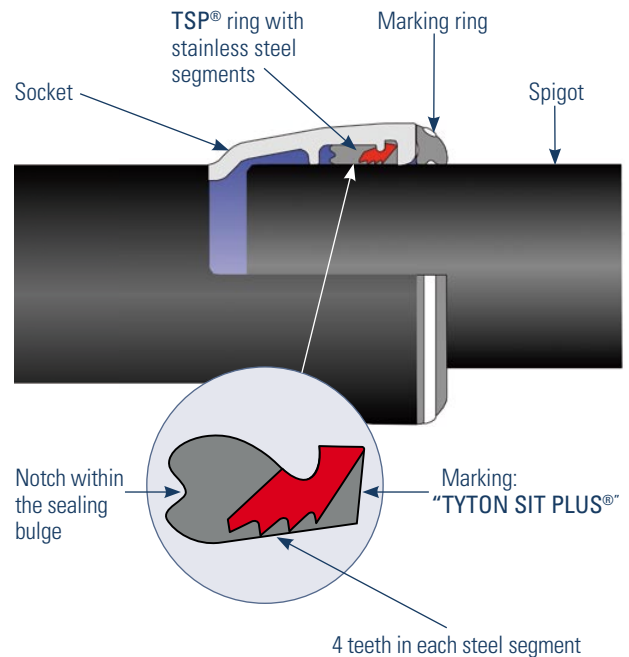
For the type TYTON SIT PLUS® (TSP®) these rings are available for dimensions DN 80 up to DN 600.

## Joint construction

### Tyton SIT®



### TYTON SIT PLUS®



## Application field

### Tyton SIT®

Pipe wall thickness class	DN	PN
from K10	80 - 200	16
from K10	250 - 400	10

### TYTON SIT PLUS®

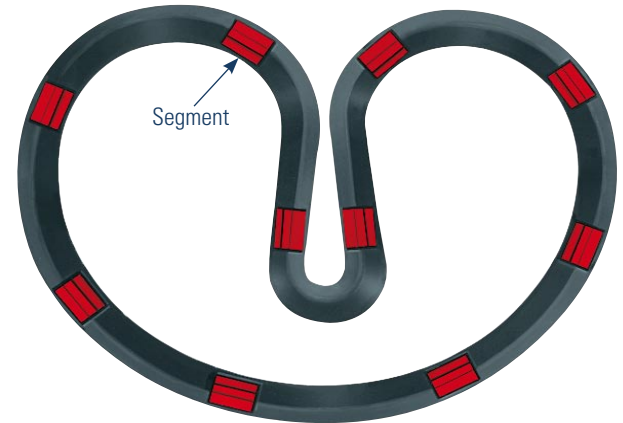
Pipe wall thickness class	DN	PN
from K9	80 - 100	32
from K9	125 - 350	25
from K9	400 - 500	16
from K9	600	10

This thrust resisting socket joint substitutes concrete anchoring blocks.

The appropriate number of thrust resisting connections was laid down in DVGW standard GW 368 and is to be observed.

Before installation in pipelines for bridges, ducts or river crossings, please contact our service team.

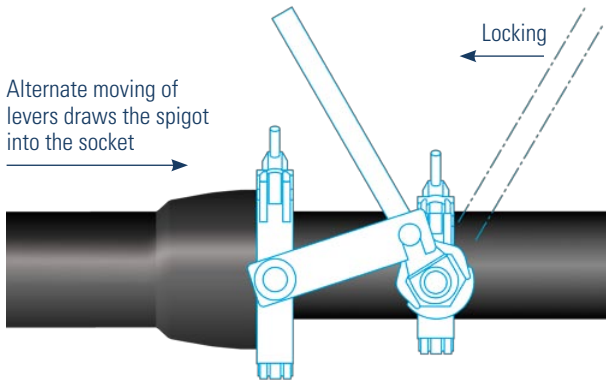
## Assembling steps



1. Clean the socket and the pipe spigot.
2. Clean the Tyton SIT® / TYTON SIT PLUS® ring, fold according to the illustration and insert into the socket. Ensure that the inner loop is located between two steel segments. Slightly lubricate the inner part of the inserted Tyton SIT® / TYTON SIT PLUS® ring.
3. Push the blue-striped (Tyton SIT®) / white-striped (TYTON SIT PLUS®) profiled marking ring onto the cast iron pipe.
4. Clean the spigot end, slightly lubricate and insert concentrically into the socket until it touches the Tyton SIT® / TYTON SIT PLUS® ring.
5. Mount the laying tool onto the socket and spigot end and draw the spigot into the socket. **Avoid deflection of the spigot.**

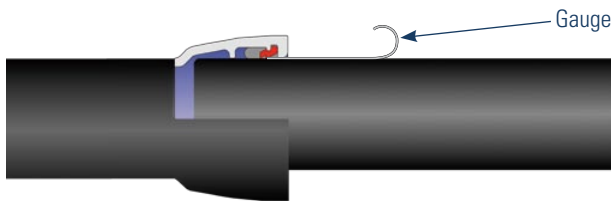
**Important:** Changes in a circumferential direction (e.g. aligning a lateral outlet) should be avoided and have to be carried out before the locking takes places.

## Laying device V 300 D



**Attention:** After connecting both parts, the locking of the segments is to be accomplished by moving the levers in the opposite direction.

The exact positioning of the Tyton SIT® / TYTON SIT PLUS® ring has to be checked by means of a suitable gauge on the whole circumference.



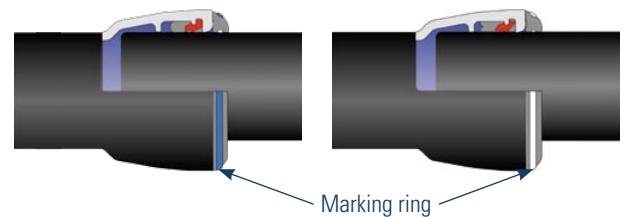
**Note:** Deviation of the installed thrust resisting joint is possible up to 3°.

A pipe with 6 m length and 1° deflection deviates by approximately 10 cm off the neutral axis.

## Marking of the installed thrust resisting joint

Tyton SIT®

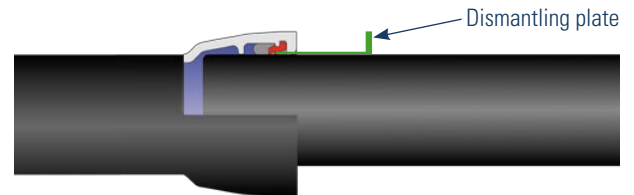
TYTON SIT PLUS®



For permanent marking, we supply profiled rubber with blue (Tyton SIT®) and accordingly white (TYTON SIT PLUS®) stripes.

Fixing of these marking rings should be in accordance with the illustration.

## Dismantling of thrust resisting joints



- Push the spigot completely into the socket (relieving the steel segments) by using the laying device.
- Lubricate dismantling blades on both sides and drive them into the socket gap around the whole circumference with a hammering device.
- Dismount the joint with a dismantling clamp or the laying device.
- Should it be impossible to insert the blades properly on whole circumference, the pipeline has to be cut.

# Düker

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