SIS/BS

FERNWÄRME-TECHNIK GmbH

Connecting Pieces without Chambers FW STEEL-CASED PIPE-IN-PIPES (SIS) to Bonded System

Diameters

SIS 25/30/150 to Bonded System 25/90 up to

SIS 500/80/750 to Bonded System 500/630

FW STEEL-CASED PIPE-IN-PIPES (**SIS**) to **B**onded **S**ystem

Connecting pieces without chambers SIS - Bonded System

Chamber construction is expensive!

Especially when their only purpose is to hold system crossovers like for example SIS/ Bonded System, often also solely as limit of guarantee.

Over 20 years ago,
FW-FERNWÄRME-TECHNIK GmbH
has constructed in Amsterdam
14 connecting pieces
SIS 900 (914 x 10) / 70 / 1300 (1320 x 20)
to Bonded System
900 (914 x 10) / 1100 (1120 x 20)
in steel, and further crossover to
1120 x 14 PE encasing pipe
which lay directly inside the polder area.

Three waterways were crossed with FW-SIS:
Amsterdam Rijnkanaal
Muidertrekvaart
Gaasp.

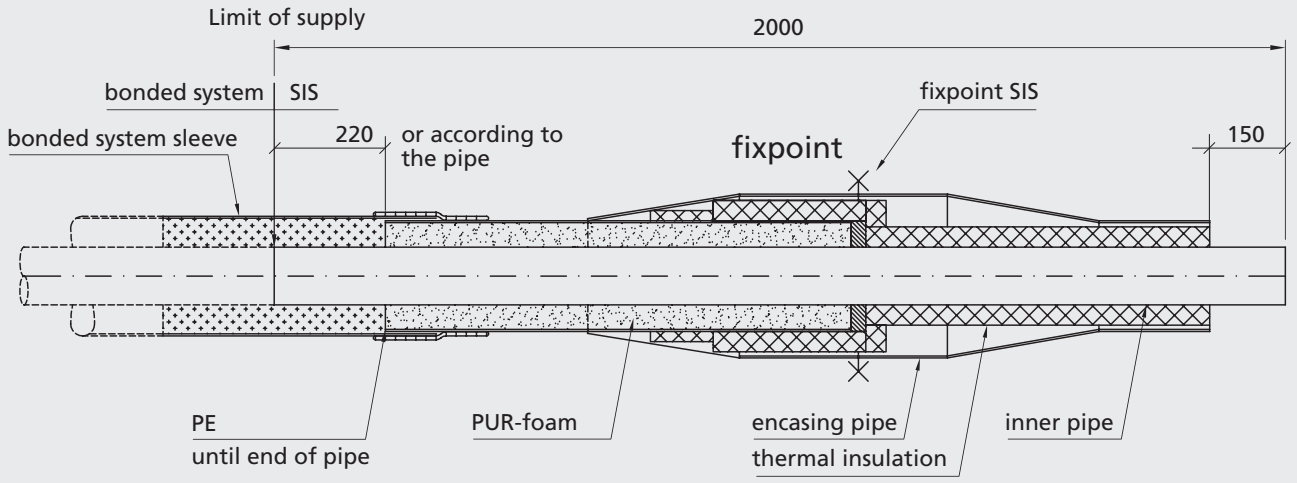
Whereas the FW-SIS were laid 10 to 12 m deep on firm natural gravel, the continuing bonded system, type ABB, was laid in unstable polder zone.
This had a depth of 6 m, and settlings of 700 mm were expected after the backfilling of the district heating pipelines.

To this effect, level poles, similar to broom sticks, were fixed to the crest of the encasing pipe; these allow the measuring of the bonded system‘s sinking.
The expected 700 mm partly became 1400 mm, i.e. the connecting pieces SIS/Bonded System had to respond to particular requirements. The Bonded System area was equipped with huge oversized U-bends, which compensate the movement differences.

This happened 22 – 24 years ago; yet to date, all connections are functioning trouble-free.
This kind of components are increasingly in demand today and we have defined connecting pieces for the inner pipe diameters DN25 – DN500, which will shortly be on stock to allow deliveries at short notice.

Please be aware of the fact that each connecting piece simultaneously represents a fix point. The SIS-side is vacuum-tightly sealed, which is possible only by means of a welded-in steel disc; on the Bonded-System-side, this disc is foamed up to the crossover which corresponds to the dimensions of the Bonded System.

The components



The components are 2 m long, independently of the diameter.

If you send us a dimension sketch of the ingoing and outgoing pipelines, we verify the pipe statics.

	Connecting pieces SIS to Bonded System		
Diameter (DN)	SIS	Bonded System	Length (mm)
25	25/30/150	25/90	2000
32	32/30/150	32/110	2000
40	40/30/150	40/110	2000
50	50/40/200	50/125	2000
65	65/40/200	65/140	2000
80	80/50/250	80/160	2000
100	100/50/250	100/200	2000
125	125/50/300	125/225	2000
150	150/50/350	150/250	2000
200	200/60/400	200/315	2000
250	250/60/450	250/400	2000
300	300/60/500	300/450	2000
350	350/70/550	350/500	2000
400	400/70/600	400/560	2000
450	450/70/700	450/560	2000
500	500/80/750	500/630	2000

FW STEEL-CASED PIPE-IN-PIPE 500/70/700 for a construction project in the Netherlands.
2 x 700 m shortly before pipe-laying by horizontal directional drilling.

Quality
made by FW since 1980

FW-FERNWÄRME-TECHNIK GmbH

FW STEEL-CASED PIPE-IN-PIPE
FW SAFETY PIPING
FW CHAMBER-PIPE LNG
FW CHAMBER-PIPE OIL

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