

■ **FRANK Manhole connection socket (SAM)**

SAM



FRANK Manhole connection socket (SAM)

The problem

A modern sewage piping system demands a permanent tight pipe and manhole connection. For the transport of sewage water a homogenous welding connection is the basis for the tightness. But sometimes there appear problems during the connection of a piping system with the different material, especially with the connection of an HDPE piping system with a concrete manhole.

A stuck solution could get untight because of ground water pressure and different ground settlements. Because of this fact it could be possible that external water infiltrates or in the worst case foul water exfiltrates into the ground water and contaminates the ground water. Therefore a weldable connection fitting should be used to provide a permanent tight system.



Manhole connection socket integrated into a concrete manhole

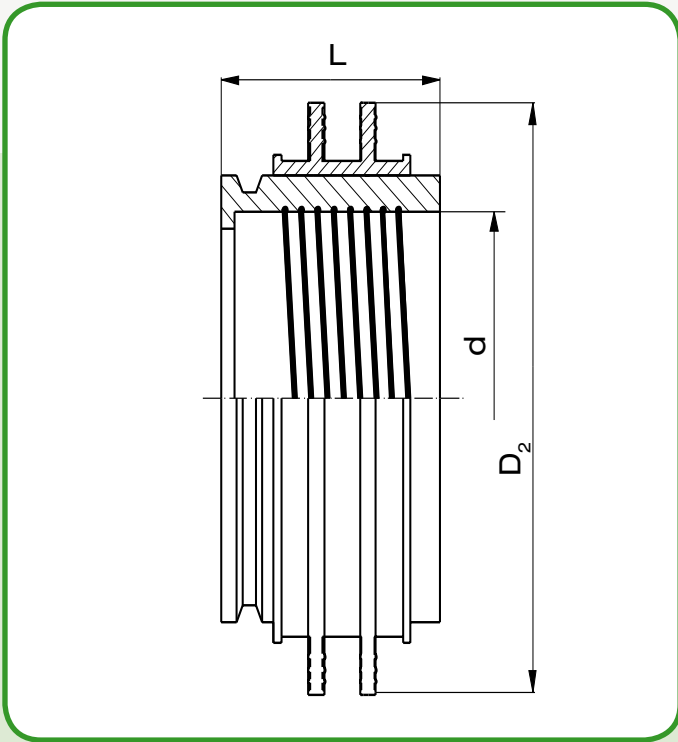


Manhole connection socket ND 250 and ND 500

The solution

The manhole connection socket (SAM) out of the modern PE 100 resin and the embedded resistance wire offers the possibility to fabricate a welded and tensile strength anchorage of the piping system to a manhole. The embedded resistance wire provides a good heat emission. In the combination with our FRANK puddle flange out of EPDM a permanent tight connection is given.

Sketch of FRANK SAM



d [mm]	ND [mm]	D ₂ [mm]	L [mm]	weight [kg]
160	150	297	135	2,0
225	200	372	135	3,5
280	250	445	135	5,0
355	300	515	135	9,0
450	400	573	135	6,5
560	500	699	135	10,5

The flush installation of the FRANK manhole connection socket in the concrete construction takes place by means of the formwork according to DIN 4034. The tightness of the manhole connection socket is achieved by the wound up FRANK puddle flange. A prefabricated groove assures the tight connection in the wall when filling with concrete. The FRANK SAM has an integrated stop, which fix the insertion depth of the installed PE pipe.

Advantages

- made of PE 100 material
- with wound up FRANK puddle flange for permanent tight installation in the concrete (tightness according to DIN 4060 is proved and highly exceeded)
- tensile strength anchorage in the concrete through prefabricated groove
- longitudinally force-locked, tight connection for PE 80/ PE 100 pipes according to DIN 8074/75 through electro fusion welding
- weldable with pipes in SDR 33/ 26/ 17/ 11
- embedded resistance wire for a good heat emission
- connector plugs mounted frontal, welding possible with all universal machines
- no root penetration possible
- integrated stop (insertion depth of the weldable pipes is fixed)



manhole connection socket with stopper



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