

Reliably sealed through patented innovation

Pipe-Seal Stainless steel sleeves

The **Pipe-Seal products** Pipe-Seal-Fix and Pipe-Seal-End are suitable for the repair of pipelines with dimensions from DN 150 - DN 800 and Pipe-Seal-Flex for dimensions from DN 200 - DN 600.

It is a mounting system made of stainless steel V4A and a compression seal of EPDM, which is mechanically and continuously adjustable in the corresponding dimensions and areas of application. The damage repair takes place by a permanent contact pressure of the respective stainless steel sleeve in connection with an EPDM rubber seal to the existing pipe wall. The installation is carried out by using an inflatable liner end packer or displacement packer, adaptable to almost all inspection or robot systems.



Applications

- dimensions from DN 150 - DN 800
- in pipelines for service water, wastewater, and salt-water (on request)
- for pipe materials vitreous ceramic, steel, reinforced concrete, concrete, asbestos cement, grey cast iron, GRP, PP pipes, and PE

Product characteristics

- rubber types EPDM (NBR and SBR on request)
- stainless steel grades 1.4571 and 1.4404, AISI 316 Ti, according to EN 10020; Duplex
- internal pipe pressure 1 bar (Pipe-Seal-Flex DN 200 - 400 to 0,7 bar; > DN 400 - 600 to 0,5 bar)
- external pipe pressure 1 bar (Pipe-Seal-Flex DN 200 - 400 to 0,7 bar; > DN 400 - 600 to 0,5 bar)

- compensation of standard tolerances in the pipe diameter
- pipes with sleeve misalignments, axial offsets, and conical expansions (Pipe-Seal-Flex)
- temperature ranges -20° C to 140° C (EPDM)

Optional

- non-standard temperature ranges possible

Advantages

- patented locking mechanism, through which oblique locking can be done by pipe misalignments, axial offsets, and conical expansions
- safe locking of the sealing collar
- conical mounting of the sealing collar possible

Pipe-Seal-Fix

- suitable and reliable for a single installation or even for stringing together individual seals to so-called serial displacement in case of extended damage
- DN 150 - DN 800 in 420 mm and 500 mm widths
- internal sealing sleeve with an improved and patented locking mechanism

Pipe-Seal-Flex

- can be used for sleeve misalignments (up to 25 mm), conical expansions (up to 30 mm DN variance), and axial offsets (up to 8°)
- the sleeve forms a positive connection with the pipe wall due to the alignment of lamellar openings in the stainless steel sleeve and the use of EPDM seal and can thus retrieve the tightness and functionality of the old pipe
- DN 200 - DN 600 in 420 mm widths
- one-piece internal sealing sleeve with deformable inner section according to German utility pattern No. 20 2013 103 336.7

Pipe-Seal-End

- liner end sleeve creates a long-lasting seal between the liner surface and the old pipe even when subjected to groundwater pressure and protects at the same time liner cut edges from damages
- DN 150 - DN 800 in 250 mm and 300 mm widths
- internal sealing sleeve with asymmetrical EPDM sealing element

