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RedEx® Internal
sealing collars –
Partial Repair
and Liner End
Sealing for
sewage and
drinking water
pipes

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RedEx® Internal sealing collars – Partial Repair and Liner End Sealing for sewage and drinking water pipes

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ABSTRACT:

The RedEx® can be used for pipelines DN 800 – DN 6000 and used as liner end collar DN 190 – DN 1200 in almost all tube materials: Steel, Vitreous ceramic, Cast iron, Concrete pipes, Cement mortar, PVC, Asbestos cement, PE, PP, GRP. The cuff is installed by hand, it can only be used for liner end sealing in non-accessible widths DN 190 – DN 800. A confectioned EPDM cuff is set up with stainless steel bands. At a squeezing pressure of 250 bar-350 bar, the sleeve is pressed at a pressure of about 3.5-5.5 bar in the radial direction to the old pipe. Different rubber qualities allow use in media like potable water, service water, waste water, salt water, fuel, gas, acids or oil on request. The RedEx® System is currently the first and only inner sealing system worldwide certificated of 10 Mio. dynamic load changes between 10 bar and -0,9 bar Vacuum in a frequency of 2 Hz. The RedEx system has almost all national and international approvals for the pressure tube and drinking water. The Standard-EPDM and Stainless-Steel rings are usable in temperature from -20°C till 140°C and for compensation of standard-tolerances in the pipe-diameter, pipes with sleeve misalignment and axial offsets. With the special solution RedEx® Connect, dimensional changes (as example DN 800 to DN 1000), larger damaged areas or even drawn bows can be remediated. Egg profiles can be rehabilitated outside the approval up from DN 600/900.