PIPE® SEALTEC

Technical datasheet - RedEx®

1 General information

The RedEx[®] internal pipe sealing system is suitable for accessible pipes with a nominal pipe range of DN 800 - 6000 and as a liner end sleeves from DN 190. The system comprises

- An EPDM seal sleeve
- Two supporting straps incl. coupling pieces
- Two bearing plates
- Four adjusting pieces
- Plastic backing tape (optional)

(per seal sleeve), stainless steel Qualities 1.4307/1.4404/1.4571

The procedure is carried out by hand: the rubber sleeve is positioned at the point undergoing repair. Using a hydraulic expander, the seal sleeve is pressed continuously onto the pipe wall with the stainless steel rings.



Application media:	Potable water, process water, waste water Salt water, gas, lyes, acids, oil on request
Pressure/vacuum:	Internal pipe pressure max. 25 bar, external pipe pressure max. 8 bar (infiltra- tion), suitable and adapted for negative pressure/vacuum
Temperature ranges:	-20°C to 140°C (EPDM), deviating temperature ranges on request
Pipe materials:	Concrete, reinforced concrete, stoneware, fibre cement, GFK, PVC-U, PE-HD, cast iron
Pipe profiles:	Circular profile, different profiles on request

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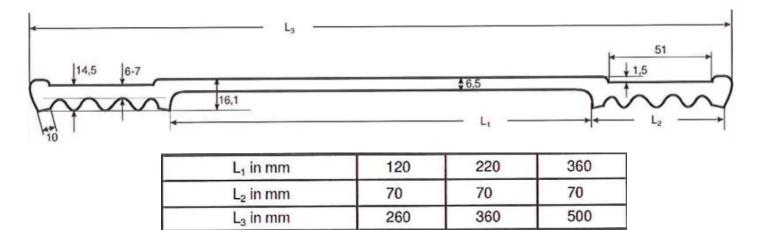


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2 Properties of RedEx® components

a) EPDM (ethylene propylene diene monomer (M-class) rubber) seal sleeve

Sleeve profile: 260, 360, 500 mm, RedEx® Connect (special width/series offset)



EPDM parameters in accordance with DIN EN 681-1

Density:	min. 1.17 kg/dm ³	
Hardness:	70 ± 5 Shore A	
Tensile strength:	>9 Mpa	
Elongation at break:	>200%	

- Special mixtures on request
- b) Stainless steel components: steel belts incl. coupling pieces, bearing plates, adjusting pieces
- Stainless steel 1.4307 (potable water only)/1.4404/1.4571

Steel cross-sections:

DN 190 - 450 50 x 3 mm DN 500 - 2500 50 x 5 mm From DN 2500 50 x 8 mm

Steel parameters in accordance with DIN 10088-1

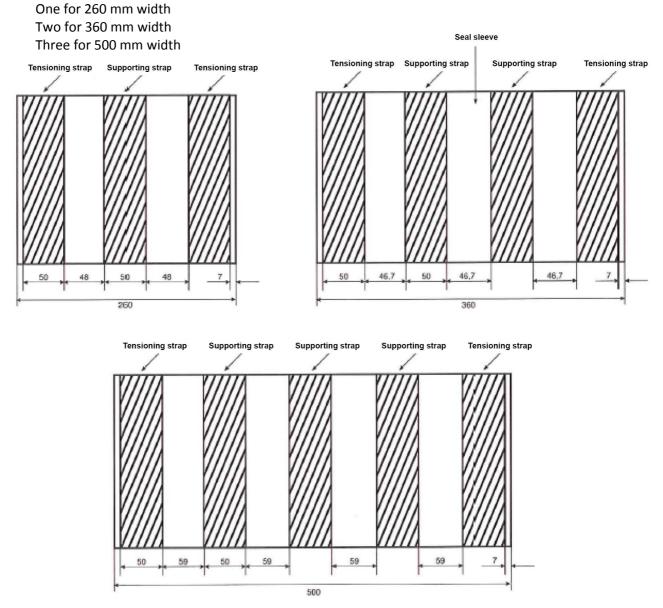
0.2% elongation limit:	200 - 240 N/mm²
Tensile strength:	500/700 N/mm²
Elongation at break, lengthways:	40%

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The scope of delivery includes two tensioning straps, bearing plates and adjusting pieces per sleeve. Additional <u>supporting straps</u> are required in accordance with DIBt:



With deviating sleeve widths, the distance between two straps must allow for a maximum clearance of 59 mm.

- c) Plastic backing tape/PE tape
- Use with pressing ground water
- Width dependent on sleeve width: 10 cm for 260 mm, 20 cm for 360 mm and 30 cm for 500 mm width
- With very high pressures or significant damage, a plate may also be placed underneath.

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