

DS KRP - GROOVE-ROUND-PROFILE



DS KRP is a front seal for pipe systems which are counter tensed. It is used especially with concrete or reinforced concrete pipes with non-rotational symmetric cross sections as for example rectangular culverts, ovoid pipes or arch pipes and with constructions out of slabs.

- DS KRP is in accordance with the requirements of EN 681-1 / DIN 4060 [88] (seals made from cellular elastomers).
- DS KRP is a compression seal with dense structure which is fixed on one side of the pipe into a groove and which is pressed against the flat face.
- DS KRP is glued into the groove in the factory.
- DS KRP is the solution for sealing problems with complicated geometry.

SPECIAL ADVANTAGES

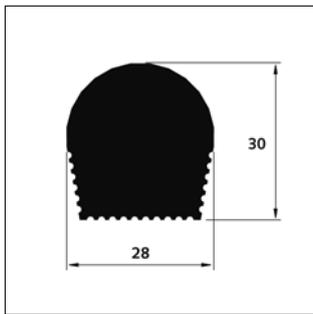
- Simple construction of top and bottom formwork.
- Sealing gap is defined and easily controllable due to spacers.

MATERIAL

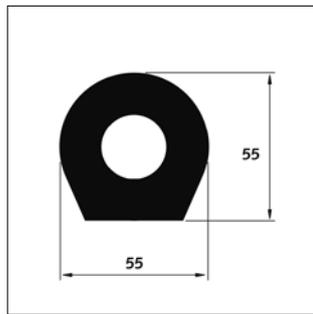
DS KRP is produced from styrene-butadiene rubber (SBR), hardness 40 ± 5 IRHD and 50 ± 5 IRHD. The material resists the usual stresses caused by sewage and sea water.



DIMENSIONS OF PROFILES (All Dimensions in mm)



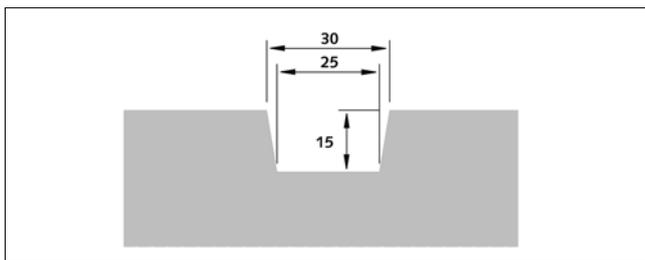
DS KRP 30



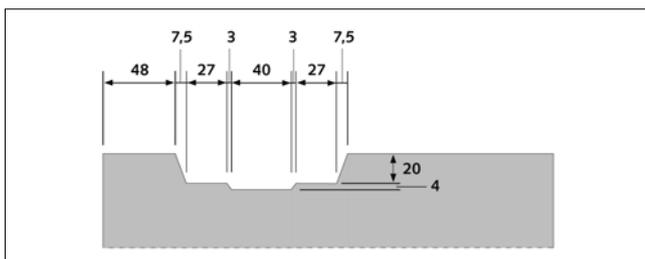
DS KRP 55

PIPE REQUIREMENTS

(All Dimensions in mm)

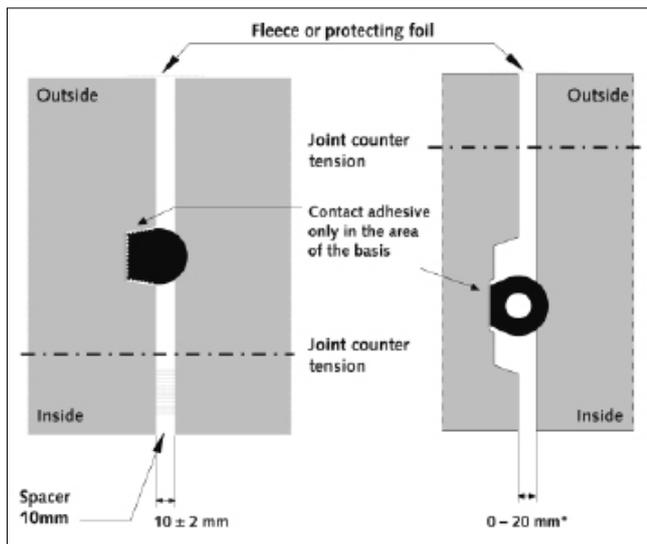


Groove design KRP 30



Groove design KRP 55

In the sealing areas pipes have to be free of air bubbles or surface pockets.



DS KRP 30 (left) and DS KRP 55 (right) mounted.

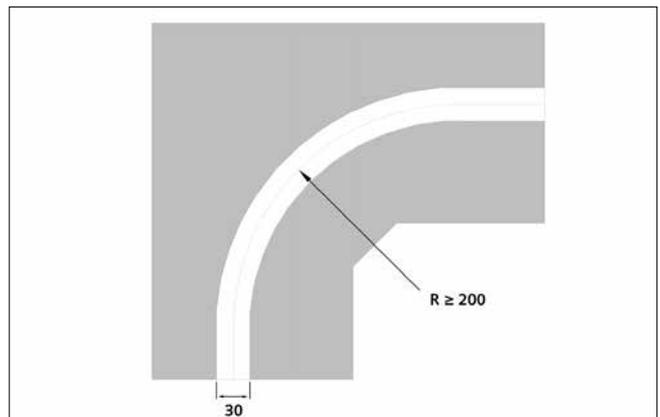
* no gap movement, rather unevenness between fronts, maximum waterpressure: 0.2 bar

A good parallelism of the fronts can be ensured by filling the form with concrete fine leveled and carefully compacted. Tolerance of parallelism is maximum 4 mm for the use of DS KRP 30 and maximum 10 mm for the use of DS KRP 55.

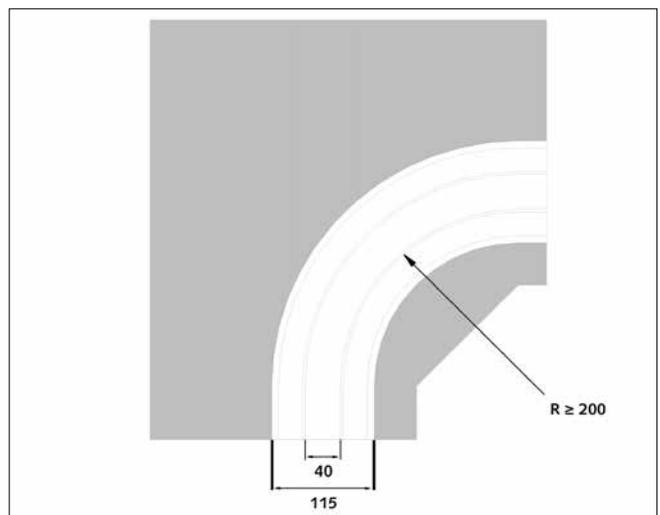
When using DS KRP 30 enough spacers out of soft wood should be placed over the whole circumference.

To ensure the compression of the sealing ring appropriate measures have to be taken (for example enough turnbuckles)

The smallest radius of the groove in corner areas should not be less than 200 mm.



Corner design KRP 30



Corner design KRP 55

INSTALLATION

- For economic and secure laying of pipes with non rotational symmetric cross section it is recommended to use a concrete sole or concrete beams.
- The pipes have to be pulled together with puller hoists or bracing equipment.
- As an outer protection of the joint and of the seal, the joint can be covered from the outside by a fleece or protecting foil.

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DS⁺
DICHTUNGSTECHNIK