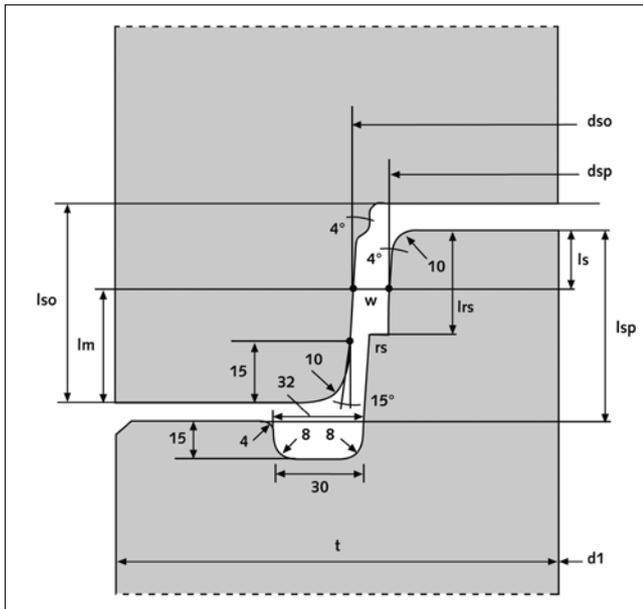




## MANHOLE COMPONENT REQUIREMENTS

(All dimensions in mm)

- The manhole components must – except for the groove – meet the requirements of DIN EN 1917 and DIN V 4034-1.
- The groove is to be constructed exactly according to dimensions and the spigot end height should lie within the positive tolerance, so that the manhole inner gap does not exceed 15mm in width. (DIN requirement).
- By using DS TOPSEAL manhole rings with 500 mm height can be installed up to a maximum of 3 m depth. For higher depths 1000 mm high manhole rings (normal height according to DIN) have to be used.



DN = d1	dso	dsp	lsp	lso	t	lrs	rs
800	913 ± 1	890 ± 2	65 -0/ +2	70	120	37	8
1000	1113 ± 1	1090 ± 2	65 -0/ +2	70	120	37	8
1200	1327 ± 1	1300 ± 3	75 -0/ +3	80	135	45	9
1500	1652 ± 1,5	1620 ± 3,5	85 -0/ +3	90	150	53	11

Smaller and larger DN on request

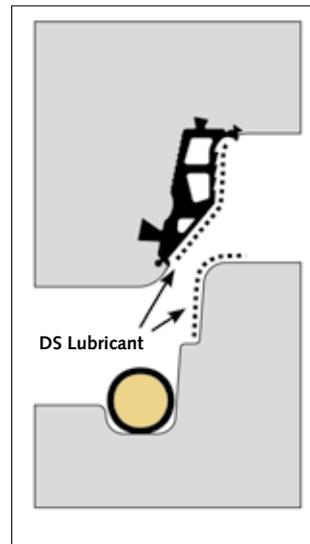
## LOAD TRANSFER BETWEEN MANHOLE RINGS

DS TOPSEAL fulfils the requirements of DIN V 4034-1 with regard to a proven static and connected investigation of load capacity.

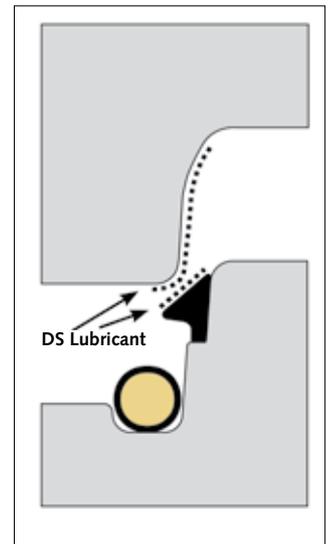
“Manholes have to be constructed under consideration of DIN EN 1610, ATV-DVWK-A 139 and ATV-DVWK-A 157. An even and not springy vertical load transfer between all manhole rings always has to be ensured. The load transfer layer has to be formed in such a way that a distance between manhole rings on the inner side of the manhole is not higher than 15 mm.”

## MANHOLE RING ASSEMBLY

- Lay DS TOPSEAL in the groove of the outer spigot end face
- The supplied separately sealant is applied on the spigot end or is already built into the socket of the next manhole ring. DS Lubricant is applied if the seal is not equipped with its own lubricant.
- The next manhole is placed centrally and vertically hanging.



DS BS 2000 + DS TOPSEAL



DS-Ring SG + DS TOPSEAL

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