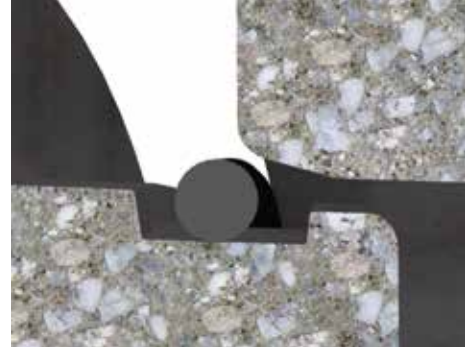


PRODUCT DATA SHEET

DS ROUND RING M



DS round ring M is a sealing ring made of elastomers with dense structure for permanent sealing of connections of socket pipes made of concrete and reinforced concrete.

- DS round ring M is in accordance with the requirements of the European standard EN 681-1 / DIN 4060 [88] (seals made from elastomers) and the FBS quality guideline.
- DS round ring M is a compression seal.
- DS round ring M is used as a sliding ring in a chamber or in front of a shoulder. For the manufacture of the pipe connection, DS lubricant has to be used.
- DS round ring M is supplied by the pipe manufacturer directly to the job site along with the pipes separately or fixed to the spigot end in the factory.

**Tested and quality controlled
by MPA Berlin-Brandenburg.**

MATERIAL

DS round ring M is usually produced from styrene-butadiene rubber (SBR), hardness 45 ± 5 IRHD or ethylene-propylene-diene rubber (EPDM), hardness 40 ± 5 IRHD. The SBR material resists the usual stresses caused by sewage. In case of content of light liquids (oil, petrol, fuels) in the sewage water it is recommended to use DS M made of acryl-nitrile-butadiene-rubber (NBR), which has a higher resistance against light liquids.

QR 4060

BENOR

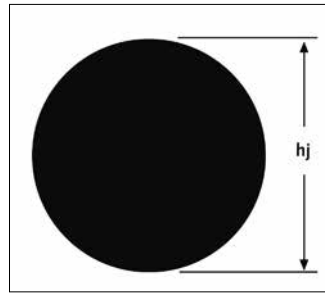
MPA



DS⁺
DICHTUNGSTECHNIK

USE OF DS ROUND RING M

- DS round ring M is used for concrete and reinforced concrete pipes according to DIN EN 1916 and DIN 1201 V and sewage pressure pipes at a range of up to a maximum of 5 bar (hardness: 50±5 IHRD).



DIMENSIONING OF THE SEALING RING

(All dimensions in mm)

For the dimensioning of the necessary seal height h_j the socket gap width w has to be determined. To achieve this, the outer diameter of the spigot end d_{sp} and the inner diameter of the socket end must be measured on at least ten pipes of a production batch or delivery. The pipes and the diameters are to be selected according to information gained on site in such a way that the maximum and minimum values are recorded. Max w and min w of the socket gap width are then calculated from the measured values as follows:

$$\max w = \frac{\max d_{so} - \min d_{sp}}{2}$$

$$\min w = \frac{\min d_{so} - \max d_{sp}}{2}$$

DIMENSION TABLES (all dimensions in mm)

DS round ring M used as slide ring

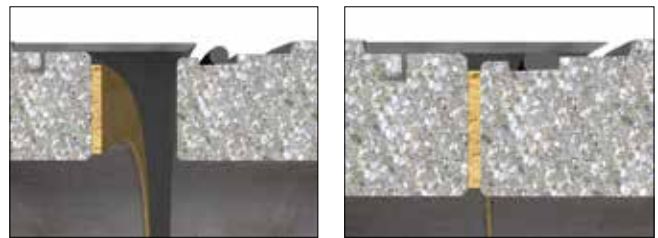
(Range of application: 25% – 50%, pretension 12%)

h_j	t_+	t_-	max w	min w	$w \pm$	
14	0,8	0,4	9,6	8,4	9,0	0,6
16	0,8	0,4	11,1	9,5	10,3	0,8
18	0,8	0,4	12,5	10,7	11,6	0,9
20	1,2	0,4	13,9	12,0	13,0	0,9
22	1,2	0,4	15,3	13,2	14,2	1,1
24	1,2	0,4	16,7	14,3	15,5	1,2
26	1,2	0,4	18,1	15,4	16,8	1,4
28	1,2	0,4	19,6	16,6	18,1	1,5
30	1,2	0,4	21,0	17,7	19,3	1,6
32	1,6	0,4	22,4	19,0	20,7	1,7
34	1,6	0,4	23,8	20,2	22,0	1,8
36	1,6	0,4	25,2	21,3	22,3	2,0

Smaller or larger h_j on request



DS round ring M as pressure pipe seal



DS round ring M as pressure pipe seal with jacking pipe

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