

PRODUCT DATA SHEET

DS BE SOCKET



The DS BE socket is a pipe connection for concrete and reinforced concrete pipes, where the seal – a DS GS sealing ring made from elastomers with dense structure – is compressed and glued into a chamber in the socket after producing the pipe.

- DS BE socket pipe connections are in accordance with the requirements of DIN EN 681-1 / DIN 4060 [88] (seals made from elastomers) and the FBS quality guideline.
- DS BE socket pipe connections fulfill the criteria of DIN 1916, method 1-4.
- DS BE socket pipe connections allow a quick and secure laying of the pipes. The wedge shape of the seal body and the special geometry of the spigot allow the centering of the pipes.
- DS BE socket pipe connections resist high shearing forces.
- Applicable for pipes DN 300 to DN 1000.

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

SPECIAL ADVANTAGES

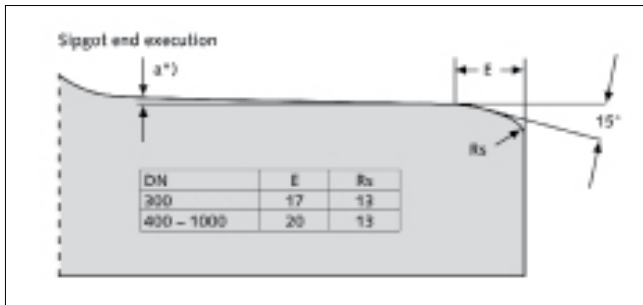
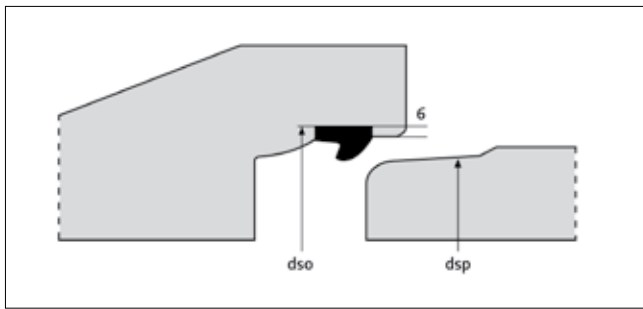
DS BE sockets don't need special base rings. As the seal is sitting in a chamber and the required sealing profile, there is a high water tightness security available.

MATERIAL

DS GS is usually produced from styrene-butadiene rubber (SBR), hardness 40+5 IRHD. The 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 GS out of acryl-nitrile-butadiene-rubber (NBR), which has a higher resistance against light liquids.



PIPE REQUIREMENTS (all dimensions in mm)

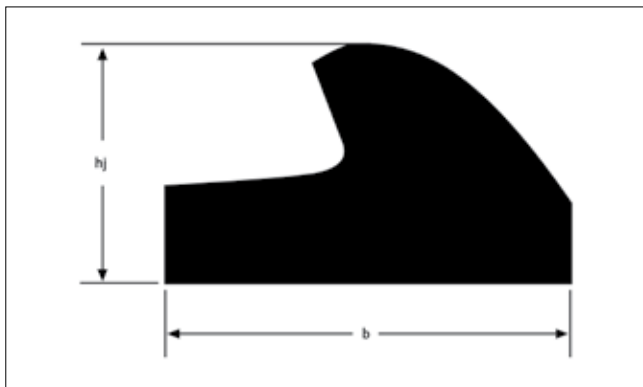


*) Inclination of the spigot ends according to socket inclination

- DS BE requires finely dimensioned smooth pipe spigot ends. When producing pipes, inner and outer supporting rings must be used to ensure compliance with spigot end diameters dsp shown in the table.

DIMENSIONING OF THE SEALING RING

(all dimensions in mm)



The cut length of the sealing ring:

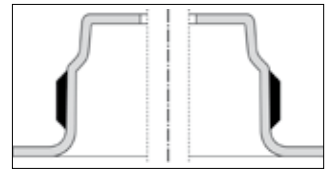
$$L = 3,27 \times (d_{so} - h_j)$$

(deformation 30% to 45%, vertical compression 4%)

dr +0,8 / -0,2	b ±1,5	max w	min w	w
20	29,5	15,1	11,7	13,4 ± 1,7
22	32,5	16,6	12,8	14,7 ± 1,9
24	35,0	18,2	14,0	16,1 ± 2,1
26	38,0	19,7	15,1	17,4 ± 2,3
28	40,5	21,2	16,2	18,7 ± 2,5
30	43,0	22,7	17,3	20,0 ± 2,7

PRODUCING OF DS BE PLUG-IN SOCKET PIPE CONNECTIONS

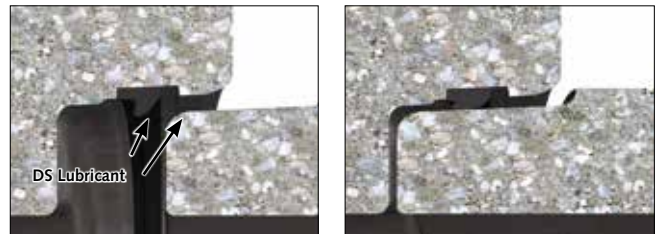
- Pull on elastomer formwork ring for seal chamber in the socket on the cleaned socket end. Pay attention to the proper seating of formwork ring. Apply release agent to the protruding parts of the socket end.
- Produce concrete pipe in the usual manner.
- After encasing the pipe, mount outer and inner support ring and leave there until the setting of the concrete (usually until the next day).
- Pull socket end centrally, remove formwork ring and remove support rings.
- Then insert DS GS into the sealing chamber of the socket and glue with DS adhesive.
- After curing of concrete the DS BE plug-in socket pipe is ready for installation.



h _j	Schalteil Breite / Dicke
20 - 22	38,5 / 6,5
24 - 26	44,0 / 6,5
28 - 30	50,0 / 6,5

PIPE INSTALLATION TIPS

The DS BE pipe connections can be installed without any problems using normal construction site equipment. When laying the pipes observe DIN EN 1610 and the DWA-A 139 work sheet.



- Clean socket and spigot end.
- Cover the spigot end thoroughly with DS lubricant. The additional use of lubricant on the seal is recommended as this reduces the mounting forces.
- Move spigot end centrally into socket and pull pipes together.

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DS⁺
DICHTUNGSTECHNIK