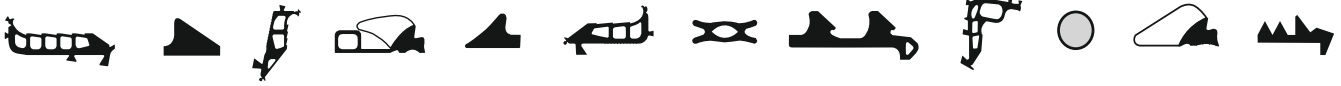
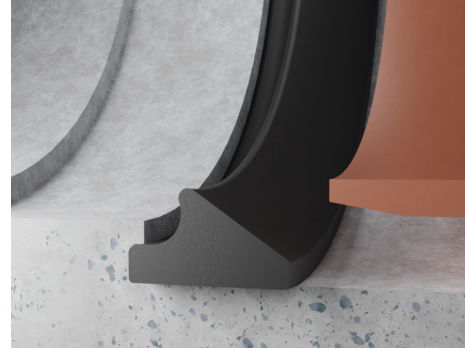


PRODUCT DATA SHEET DS GSP



Sockets DN 150 to DN 1000 with seal stopper in manhole bases for sewers and pipes for connecting various types of pipes with press-fitted DS GSP seal.

- Plastic piping systems (PP) according to DIN EN 1852-1 :2018-03.
- Plastic piping systems (PVC-U) according to DIN EN 1401-1 :2019-09.
- Ductile cast iron pipes according to DIN EN 598:2009-10.
- Pipes made of glass-fiber reinforced polyester resin (UP-GF) according to DIN 16869-1:2014-12.
- DIN 16842:2013-05 Polyethylene (PE) pipes - PE-HD for non-pressure applications - General quality requirements, dimensions and fittings.
- DIN 8074:2022-03 - Draft
Polyethylene (PE) pipes - PE 80, PE 100 – Dimensions

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

SPECIAL ADVANTAGES

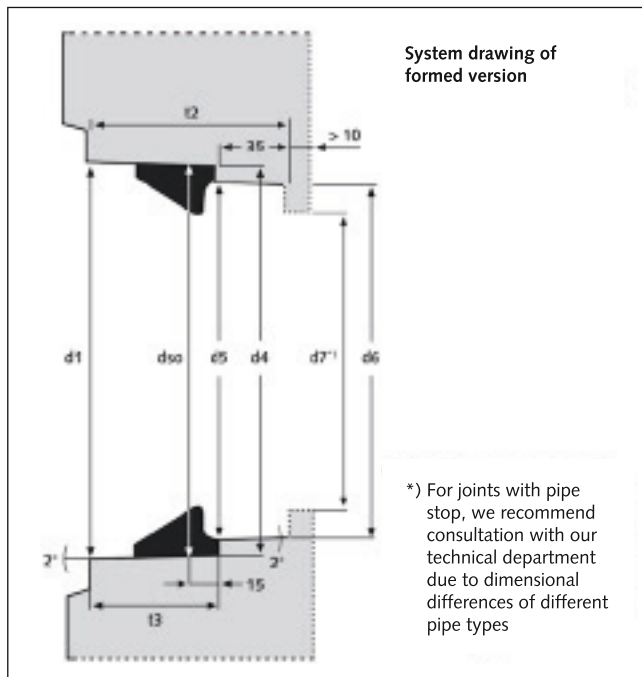
- Enables the connection of various types of pipes of different nominal sizes with manhole bases for sewers and pipes. Sealing of the various socket gaps is achieved by adjusting the sealing height.
- The great variety in sealing heights allows a wide range of combinations of pipe types and manhole bases.

MATERIAL

DS GRS is produced from styrene-butadiene rubber (SBR) or ethylene-propylene-diene rubber (EPDM), 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 GRS out of acryl-nitrile-butadiene-rubber (NBR), hardness 45±5 IRHD, which has a higher resistance against light liquids.



REQUIREMENTS FOR THE PIPES (all dimensions in mm)



- The pipe joints are only suited for open channels.
- All-concrete socket; in case of vibration defects or dry mixture (etc.) the problem is visible and repair measures can be taken.
- When using formwork sockets the inserts must remain in the concrete section until the concrete has cured.
- When using sockets with drilled sockets, stepped annular core drilling bits must be used (boring tolerance + 1 mm).

GSP - DIMENSIONING TABLE

Dimensions in mm

hj	hj+	hj-	b ± 1,5
16	0,8	0,2	30,0
18	0,8	0,2	31,5
19	0,8	0,2	33,0
20	0,8	0,2	35,0
21	0,8	0,2	36,5
22	0,8	0,2	38,5
24	0,8	0,2	40,0

- Adapters or connecting pieces cut to size at the construction site must be trimmed along the cutting edges to a quality at least equaling the quality of the original pipe spigot, i.e. the cut edges must be adequately beveled to avoid assembly problems and impairment of the seal. This applies to both: the original and the combination socket system.
- Depending on the type of pipe, DS GRS 17 to GRS 36 are pressed into the sockets of the manholes base units to provide sealing.
- Prior to assembly the sealing ring in the socket and the spigot of the pipe to be connected have to be lubricated with DS lubricant.

DIMENSIONING OF THE COMBINATION SOCKET

(all dimensions in mm)

Tolerances of diameter $\pm 0,5\text{mm}$

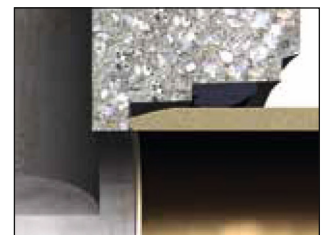
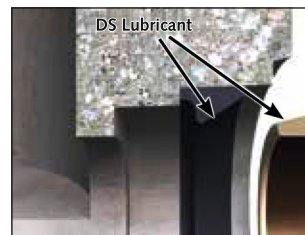
$t3 \text{ min} \geq 60$

$t2 = t3 \text{ min} + 45$

$b =$ foot width of the largest GSP sealing to be used (see table of GSP data sheet)

PIPE INSTALLATION TIPS

The DS GSP 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.



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