Polyethylene pressure pipe end sump
PKSD 1000 - DLE 100 for waste water pipelines

Application

Pressure pipe end sump PKSD 1000-DLE 100

The buoyancy-proof, accessible and practicable sump, consits of single modular segments and is used as a transfer chamber between pressure pipes and gravity sewers as specified by ATV-DVWK-A 157. The pressure pipe enters the chamber below the water level. This plastic chamber fulfils the corrosion resistance required by ATV-DVWK-A 157. Taking the (up to 80 DN) pressure pipe into the transfer chamber below the water level discourages the formation, agitation and emission of H_2S from the pressure pipe and thus reduces odour. It is suitable for use in areas with motor vehicle traffic (EN 124 group 4).
The PKSD 1000 - DLE 100 can be placed on natural floor without concrete works. The modular construction enables simple transport and relocation.

PKSD 1000-DLE 100

Description

Buoyancy-proof plastic sump (Z 42.1-331) opproved by DiBt (German Institute for Construction Engineering) made of high-grade polyethylene (PE-HD) with a connection piece for inlet and a connection piece for discharge. The installation depth without cover is 2,21m. The installation depth can be extended to a maximum of 4,71m by use of additional chamber extensions (see accessories).

Scope of Supply

Plastic chamber in modular segments consisting of chamber floor with DLE 100 flume and 1 connection piece DN 100 for inlet and 1 connection piece DN 150 for discharge, sump extension with ladder, cone with ladder and one access gate Ø 610 mm and one concrete supporting ring (120 kg) for seating of the chamber cover (accessory). The sealing of the segments is performed by DN 1000 sealing element.

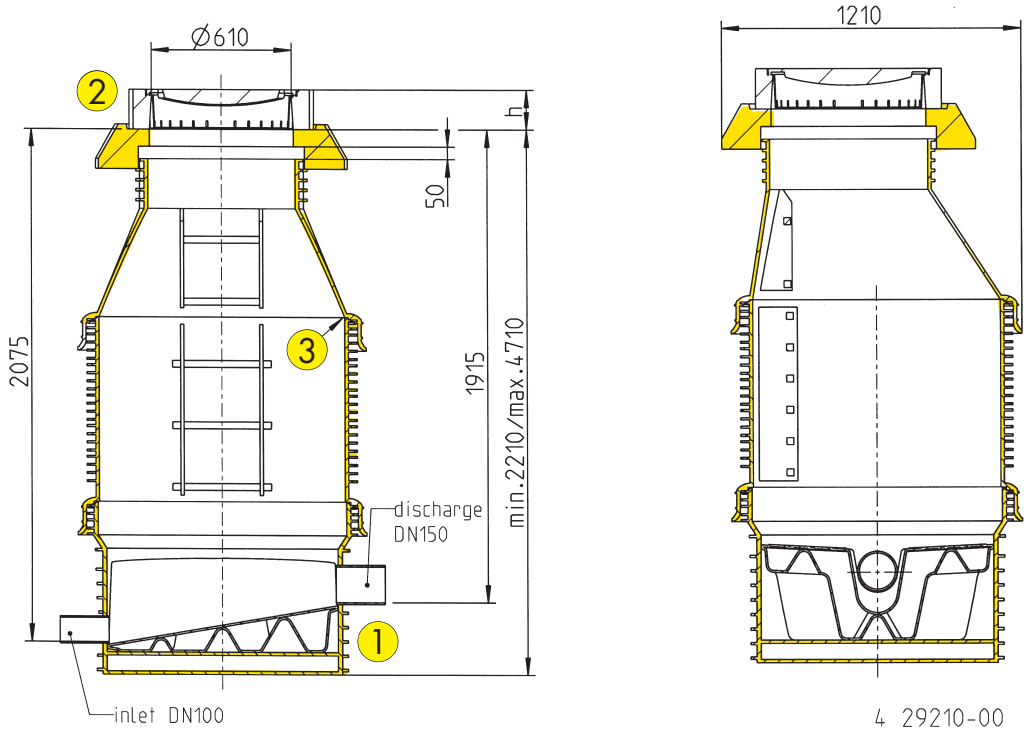
Installation note

The plastic chamber PKSD 1000 - DLE 100 is manufactured from the environmentally compatible material polyethylene (PE-HD). This material features several benefits, for one it is characterised by a high chemical stability, e. g. against hydrosulphide. Another benefit is the self-cleaning effect due to the smooth surface of the material PE-HD. All these benefits ensure long-term quality and reduce the cost for maintenance or even redevelopment. Due to the modular system the chamber is completed through the single segments and can be very easily installed on site. The relatively low weight of the single segments, PE-HD weighs 90% less than concrete, makes heavy machinery unnecessary.

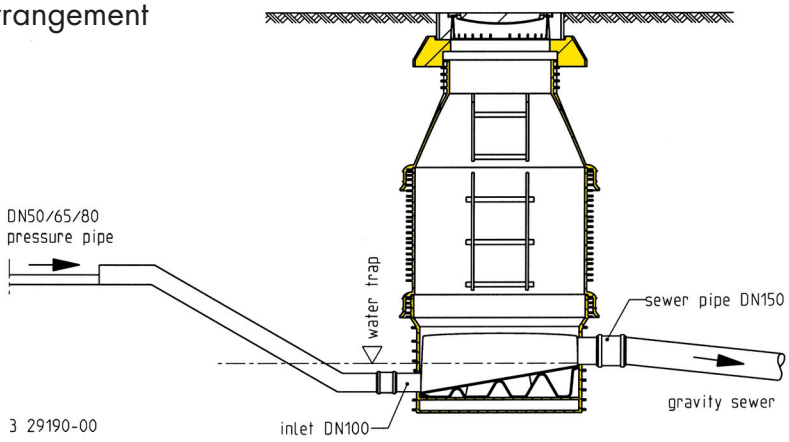
- **Practicable cl. D 400**
- **Corrosion-proof**
- **Flume according to ATV-DVWK-A 157**
- **Buoyancy-proof and ground water proof**
- **Reduces formation of odour**
- **Level compensation upon setting of the floor**

The PKSD 1000 - DLE 100 complies in all constructional characteristics with the ATV-DVWK-A 157 (buildings of sewer systems) as well as the ATV-DVWK-M 154 (odour emission of drainage systems). These recommend a turbulence free inlet of waste water into the pressure pipe end sump which delivers the waste water into the sewerage. The particular formation of the chamber floor (top of pressure pipe = floor level of continuative channel) counteracts often occurring odour problems and corrosion defects in transfer chambers. The PKSD 1000 - DLE 100 is buoyancy-proof and tight against ground water and therewith also suitable for water protection areas.

PKSD 1000 - DLE 100



Mounting arrangement



Description

			Code No.	Weight
1	PKSD 1000 - DLE 100		**9340**	290
2	Manhole cover BEGU with ventilation and dirt bucket	ø 610 Kl. B 125 h=125	**29034**	112
		ø 610 Kl. B 400 h=160	**29035**	197
3	Sump extention PSVD	1000 x 250 with ladder	**28489**	21
		1000 x 500 with ladder	**28488**	38
		1000 x 750 with ladder	**28487**	54
		1000 x 1000 with ladder	**28486**	71
4	Seal lubricant	1 kg tube (sufficient for two seals)	**29205**	1
		3 kg bucket	**29206**	3