

## Vacuum Sewer System Roediger Collection Chamber Type „Z“

### Product Description:

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Usually, there are conventional sewage systems inside the buildings of residential areas.

Wastewater flows through **gravity house lines** into the **collection chamber** located at the end of the gravity line coming out of a building. From this point on, wastewater is admitted into the vacuum system by means of a pneumatic vacuum valve.

The collection chamber **does not need to have any vacuum technology inside the building**, and it requires **no electrical energy supply**.

Wastewater retained in the collection sump generates pressure in a sensor pipe - this activates a compact pneumatic controller, which in turn opens the vacuum valve. The pressure difference causes the sewage to be evacuated from the chamber and to pass into the vacuum network.

**In this Type „Z“ chamber, the valve chamber is located above the collection sump.** The watertight chamber body, made of polyethylene, comprises the **compact controller**, the **vacuum valve** and the **vacuum interruption plug**. The sewage collection sump is separated from this dry, clean and frost-resistant valve chamber. A **highly flexible joining ring** buffers any possible tensional forces within the plastic and facilitates a quick adjustment in height, but always retaining the high degree of tight sealing that is required.

Our chamber system consists of components which are perfectly harmonized: *Chamber + Vacuum Valve + Controller* = the result of over 40 years of experience, and of more than 2,000 reference systems installed all around the world, that are being operated on a daily basis

### Advantages:

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**Cost Saving - due to reduced excavation**

The collection chamber consists of the valve chamber (upper part) and the collection sump (lower part). Both parts are assembled as a single unit, using a joining ring, and are customized on site, for the required installation depth.

**Versatile - the optimum solution for every situation**

Roediger collection chambers are available in pedestrian, flood-proof and traffic-load designs. Every collection chamber contains a vacuum valve in one of two sizes, resulting in the perfect collection chamber for every application.

**Completely water- and sewage-proof, with a separate valve chamber**

The absolute separation between the vacuum valve system and the sump containing the sewage provides for a perfectly clean and dry zone for key components, as well as a safe and hygienic working environment.

**Self-cleaning sump and pressure sensor pipe**

The horizontal positioning of the vacuum pipe, and the incline at the bottom of the sump with respect to the vacuum pipe, guarantees that the sump is completely drained during every sump evacuation operation. Consequently, no residual sewage remains in the sump and there is therefore no resulting sediment and no development of any foul odors within the collection chamber.

**No clogging, thanks to an integrated "bottleneck"**

Should a larger solid substance enter the collection chamber sump, an integrated "bottleneck" will stop it and block its further movement, thereby protecting the rest of the system from any clogging. A simple suction lance can be used to quickly and easily remove such solids from the sump, through an opening in the intermediate floor.

**Better than standard compliance**

Our products deliver maximum functional safety and energy savings! Whilst all meet the minimum requirements of DIN EN1091 and ATV 116-1, many parameters exceed them, due to our own high performance standards.

Characteristics:	Collection Chamber Type G Roediger®	Collection Chamber Type Z Roediger®	Concrete Chambers Standard	Plastic Chambers Single Cylinders
NO third party water infiltration	+	+	-	-
NO sewage ex-filtration into the soil	+	+	-	-
Sewage water free valve zone – "dry and hygienic"	+	+	-	-
Self-cleaning retaining pressure pipe	+	+	-	-
Self-cleaning retaining capacity	++	++	-	-
Installs quickly and easily; no lifting crane required	+	+	-	+
Quickly assembled thanks to pre-mounted parts	+	++	-	-
Bottleneck principle in the retaining capacity	+	+	-	-
Flexible installation/in-feed depth customization	++	+	+	-
Complete drainage	+	+	-	-
Hydrostatic uplift resistant	+	++	++	-
Optimized air in-feed thanks to the Roediger® Controller	++	++	-	-
Available in pedestrian, drivable and floodable versions	+	+	-	-
Double valve chamber with separate in-feeds	+	-	-	-
User friendly; valve device is close to the surface	+	+	-	-
Highly flexible joining ring minimizes internal tensions, lends stability and ensures for long life	-	+	-	