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SEKISUI

SIVAC® VACUUM SEWER SYSTEM

THE ALTERNATIVE TO GRAVITY FLOW SYSTEMS



SEKISUI SPR
FORMING GLOBAL CONNECTIONS

■ TECHNOLOGY ■ SALES & SUPPORT ■ CONSTRUCTION

KMG
AN  COMPANY

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SIVAC® VACUUM SEWER SYSTEM

The vacuum sewer system consists of a vacuum station, valve chamber package and vacuum pipeline. The specific name of the system differs according to the manufacturer of the vacuum valves adopted in the system.

Unlike gravity flow systems in general, the main sewer pipeline in the vacuum sewer system are maintained in vacuum condition at all times by the vacuum pump installed in the vacuum station. Such sewer pipeline is called "vacuum pipeline". Domestic sewage assemblies in the valve chamber package and is sent to the vacuum pipeline. Through the vacuum pipeline, which is laid underground shallowly in the saw tooth profile, domestic sewage is collected in a collection tank in the vacuum station.

Then, from the collection tank, it is delivered to the main sewer pipeline or to the sewage treatment facilities by the aid of sewage pump.

The SIVAC® patented technology overrides the common knowledge in conventional vacuum sewer systems, and enables innovative pipeline design. With SIVAC® technology, the collectable distance can be made nearly double of the conventional design, which widens the application scope of the vacuum sewer systems extensively.

UNIQUE SYSTEM – EFFECTIVE IN MOST AREAS

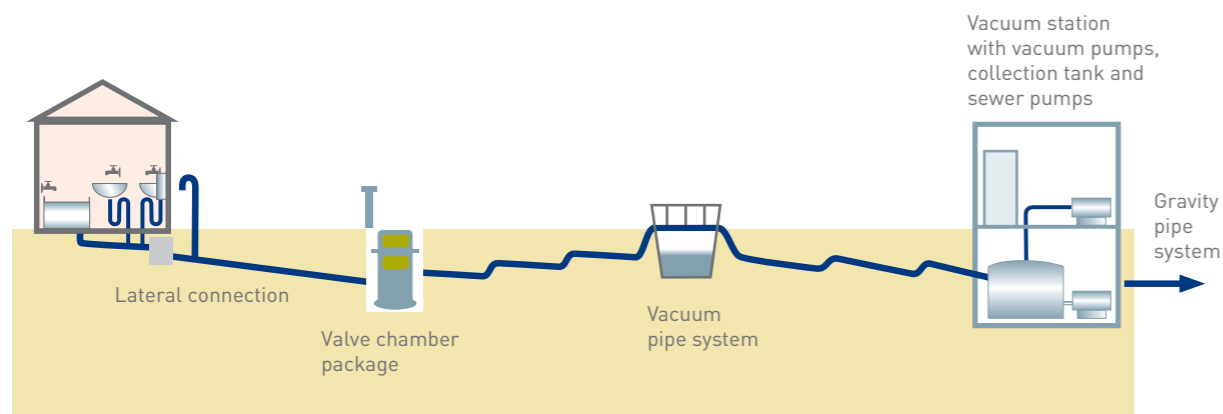
The unique features of our "SIVAC® - Vacuum sewer System" are:

- Widest coverage area
- Stable Vacuum valves with long maintenance period
- Test 500000 "Cycles"
- Lowest operation cost
- Flexible and faster construction

SIVAC® Vacuum Sewer can be applied effectively in most areas, with less initial and life cycle costs and lower global warming gas emissions than a gravity sewer system:

Major advantages in the following circumstances

- Resort and recreational areas
- Agriculture and mountain villages
- Industrial areas
- Sewer systems near to a lake, cost line or marinas
- Lower urban areas
- High groundwater table
- Crossing of pipes, roads, rivers etc.
- Difficult ground conditions



SIVAC® features at a glance

- Economic pipe laying of vacuum pipes in flat and narrow trenches
- Power / cost saving
- Trenchless pipe laying with rinse drill operations
- Small diameters (80-200 mm)
- Load relieving of clarification plant - drain water clarification only
- Water saving
- Without leakage, hygienic due to the closed system
- No infiltration of ground water due to closed system
- No exfiltration of wastewater
- No pipe cleaning due to self-cleaning
- Air ventilation of wastewater
- Flexible and faster construction



Industrial area



Coastal area