

SIGMA PUMPY

HRANICE

*Největší specializovaná síť
prodejen čerpací techniky v ČR*

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SIGMA PUMPY

SIGMA 1868 spol. s r. o.
SIGMA PUMPY HRANICE spol. s r. o.



SIGMA 1868 spol. s r.o. reside in Lutín-Municipality being situated westward from Olomouc City, in the neighbourhood of 10 km. Olomouc is a corporate regional capital offering excellent communication, transportation and accommodation facilities. Olomouc is connected to European railway and highway networks. When driving a car, please, use a slip road for the Exit Olsany, Hnevotin or Lutín,

List of companies of SIGMA PUMPY HRANICE s.r.o.

Subsidiary firms:

- SIGMA 1868** spol. s r. o.
- Lutín
- PUMPY HRANICE** s. r. o.
- Hranice
- MA PUMPY SK** s. r. o.
- Nové Mesto nad Váhom

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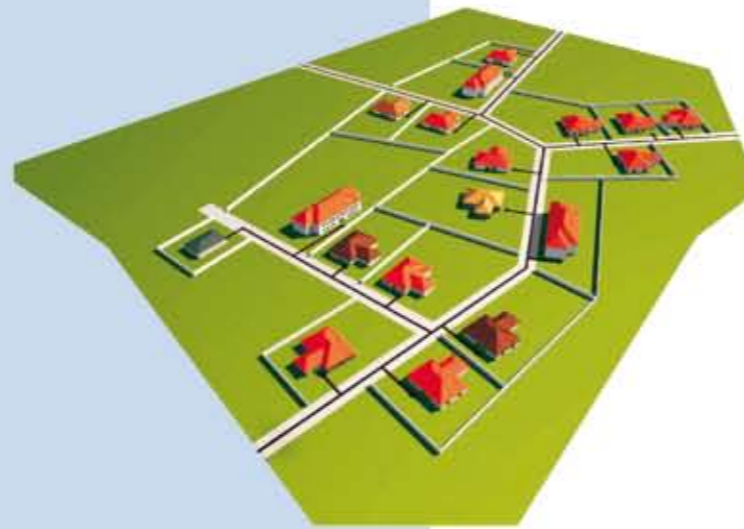
Pressure Sewer System
Pump Unit for Waste Water
SIGMA-PRESS

Principle of Pressure Sewer System

Sewage sludge is drained into a pump sump from one or more realties, and then pumped into existing sewer systems or directly to a waste water treatment plant by a special pump with a disintegrator. Pipe network of pressure sewerage has been designed so that every pump would be able to convey a pumped liquid to the place of the force main termination without any need of further re-pumping. Delivery piping in diameter of 40 mm and more shall be dimensioned in such a way to reach water flowing velocity ca. 0.7 m/s at specified parallel running of pumps. At this speed self-cleaning effect of delivery piping can be utilized with advantage.

Advantages of Using Pressure Sewerage

- Sewering of residential sectors
- Sewering of newly built industrial zones
- Sewering of industrial estates and enterprises



Scheme of a sewered residential sector



Pump Unit SIGMA-PRESS consists of:

- Pumping pit**
- Waterproof plastic or concrete tank (it is even possible to use existing cesspits) where sewage sludge is drained.
- Technological part**
- Positive displacement pumps with a disintegrator
 - SIGMA 1 1/4" EFRU-16-8, with parameters Q = 0.65 l/s, H = 80 m, P = 1.1 KW, Voltage 400V,
 - SIGMA 1 1/4" EFDU-16-8, with parameters Q = 0.65 l/s, H = 80 m, P = 1.5 KW, Voltage 250V
 - SIGMA 1 1/4" EFPU-25-8 with parameters Q = 1,3 l/s, H = 80 m, P = 2.2 KW, Voltage 400 V
 - Set of valve fittings consisting of a plastic ball flap valve, a non-return ball valve and a plastic relief valve, plastic shaped pieces and pipe lines inside the shaft
 - Control automatics working on principle of electrode reading of the level of liquid with the aid of a float. As an integral part there is light signalling of failure and the maximum level.
- Delivery piping**
- Plastic piping of PE or PVC with diameter of 40mm and more (according to number of pumping pits and piping length. When preparing the project documentation, the close calculation of diameters (sizes) of delivery piping is executed.



Scheme of sewered industrial estates and enterprises or newly built industrial zones

Offered activities:

- Expert appraisal of advantages of pressure sewer system for the given construction site in the form of a study
- Cooperation in dealing with application for the state aid
- Processing project documents – for the purpose of land management, planning permission, for effective implementation and as-built the realization
- Pipe line sizing
- Performance of the complete delivery of entire work, including building works
- Supply and installation of technology
- Transfer of the technology operation conditions, so-called light, sound or wireless alarms
- Guarantee of the whole pressure sewer system functioning
- Professional customer services



1 1/4" EFRU-16-8



1 1/4" EFDU-16-8



1 1/4" EFPU-25-8



Advantages of deliveries by SIGMA 1868 spol. s r.o.:

- Warranty of keeping engagements resulting from realization based on:
 - Expert knowledge and experience
 - Personal constitution
 - Hardware
 - Financial resources
- Company certification according to the Standard EN ISO 9001
- Long term tradition in deliveries of complete plant equipment and manufacture of pumps destined for pumping waste water
- Cooperation among departments being engaged in research, development and manufacture of pumps
- Trouble-free operation of technological part of the pumping pit (ca 0.1 %) thanks to duplex protection of switching levels
- Protection from overloading network of delivery piping
- Verified self-cleaning effect of delivery piping
- Pump protection from failure or destruction due to no-load running

