

Case study 664

New Glasgow housing development assisted by Sykes Pumps Hire

The multimillion-pound regeneration of Glasgow's East End has prompted several improvement projects across the city, including in the Shawfield district of Rutherglen. Hundreds of new residential properties are scheduled for construction over the coming months but prior to commencement various changes had to be made to accommodate an increased population.

This development was dependent on the local sewer system being expanded to cater for prospective inhabitants of the new houses and flats and required expert intervention from a company that specialises in this practice.

The contractor overseeing the project contacted Sykes Pumps seeking a bespoke solution to enable sections of the existing sewer to be widened without decommissioning any part of the system. An engineer from our Glasgow depot – situated less than eight miles from site – visited the client to review their requirement before proposing a pump hire arrangement befitting of the scheme.

During the consultation, it was explained that sewage would need to be pumped out of one chamber, bypassing the point in the system in which construction was taking place, before being discharged into another chamber approximately 120 metres away.

The uniqueness of the situation necessitated the deployment of a custom-made configuration comprising of three 12" UV301M pumps horizontally mounted in frames. Each pump was fitted with the proven Sykes vacuum priming system to provide an automatic self-priming capability. The units also benefit from having a unique back flush feature that can help clear potential blockages on the suction side.

By configuring our units in this way, we were able to use surface-mounted submersible pumps to divert a total of 900 litres of sewage for every second of operation. These pumps were deliberately selected because of their economical functionality, while their ability to perform quietly rendered them perfect for a well-populated residential area.

This solution worked brilliantly in carrying out the required task, with the compact 12" units able to fulfil flow targets without taking up too much space on site. Two pumps were working simultaneously, with a third standby unit ultimately not used. Our equipment was scheduled for an eight-week hire and proved successful in executing an intricate assignment in a particularly sensitive environment.

Sykes' presence on site hasn't gone unnoticed by customers and we have since received several enquiries about similar pumping arrangements being used on developments elsewhere!



Motor type: 425 V 3ph 50Hz

Motor rating: 75 kW

Running current: 140 A

Running speed: 980 rpm

Discharge port: 300 mm

Suction inlet port: 300 mm

Maximum solids: 127 x 110 mm

Ex rated: Yes

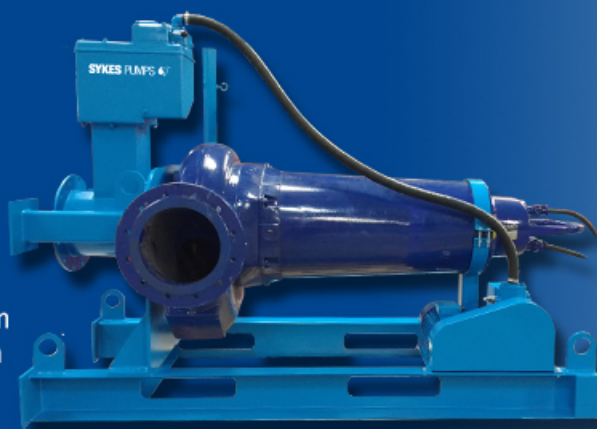
Cooling Jacket: Yes

Dimensions: 2410 x 1100 x 1800 mm

C/W fittings: 2920 x 1620 x 1800 mm

Weight: 1842 kg

Weight with C/W fittings: 1920 kg



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