



Hygienic Flexible Impeller Pumpset Ticks All The Boxes

“ I’ve never used a flexible impeller pump before, but All Pumps knew their stuff - performance is great and it’s very compact with the pump coupled directly onto the motor.”

THE CHALLENGE

The customer needed to unload small (5,000L) road tankers of surfactant / raw material into solution tanks at their manufacturing facility. The flow rate required was approx. 100 l/min with a discharge head of 4 metres. The client is an avid user of Wilden diaphragm pumps, one of which would generally have been ideal for the application. However, this application required batch measurement control and the client maintained that the pump had to be electrically controlled. To further complicate the issue, the pump needed to be hygienic and easily cleaned between batches. Their budget did not allow for a hygienic rotary lobe pump, which would have ticked all the boxes except the budget.

THE SOLUTION

To meet all these requirements, All Pumps came up with the solution of a hygienic flexible impeller pump. A Johnson FIP40SH was specified as it is driven by an electric motor, is positive displacement and self-priming. It has a flat pump casing cover, that is held in place by two quick-release wing-nuts, which can be removed to clean the impeller and pump cavity. A flexible impeller pump has a limited ability for discharge pressure, however, the 4 metres required for this application was no problem. What’s more, the pumpset is compact and met the budget limitation with flying colours!

