



Feeding Animals, Feeding the Future

Flowserve pumps enable production of sustainable, high-protein animal feed

Producing food — for people and animals — depends heavily on energy from fossil fuels. The agri-food chain accounts for 30 percent of the total energy used around the world.

Sustainable agricultural production that also meets ever-growing needs for food requires the optimization of:

- land use
- energy efficiency
- end of the use of fossil energy sources
- minimization of environmental impacts

In search for a sustainable animal feed solution, a new product has been developed that features an innovative approach to creating a protein-rich food. And with end-to-end solutions that support energy transition initiatives, Flowserve is helping agricultural producers protect the planet by increasing operational efficiency, productivity and profitability.

Increasing protein while reducing resource consumption

“Are you getting enough protein?” is a question people are often asked about their personal health. Just like humans, animals need the health benefits that protein offers for proper growth, strength and survival.

The transition to more sustainable production of animal feed does not require agricultural land, does not include plant or animal components, and uses relatively little water. Instead, it is produced through the fermentation of naturally occurring micro-organisms. The resulting food product has been shown to be safe and effectively sustain growth rates for livestock, fish, pets and other animal needs.



Protein-rich feed produced in a fermentation process instead of conventional agricultural methods will be used for fish (aquaculture), livestock feed, pet food and other needs.



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Scalability for the future

The facility for producing the high-protein feed product is located in China; a leading engineering, procurement and construction (EPC) company was selected for its design and construction. Flowserve is supplying Durco® Mark 3™ ANSI pumps and CPXV sump pumps to support phase-one production scheduled in 2022. The pumps will deliver reliable performance and contribute to the food production facility's throughput.

The first of its kind in China, this facility will initially supply the country's aquaculture (fish) industry, and the market is expected to grow rapidly to include livestock feed, pet food and other products.



Flowserve will provide Durco Mark 3 ANSI pumps and CPXV sump pumps for phase-one production.

Feeding the animal world sustainably

The fermentation process is a novel solution to help meet the world's need for animal food without placing additional stress on scarce resources. At Flowserve, we want to support efforts like this that make the world better for everyone.

We can leverage our 225 years of flow control experience and a comprehensive portfolio of product and service solutions so our customers can diversify their energy mix, decarbonize their operations, and digitize their plant processes. As a partner, Flowserve enables companies to increase operational efficiency and achieve energy transition goals. And, in this case, meet critical needs to enhance agricultural sustainability.



Read Flowserve's approach to [energy transition](#).

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