



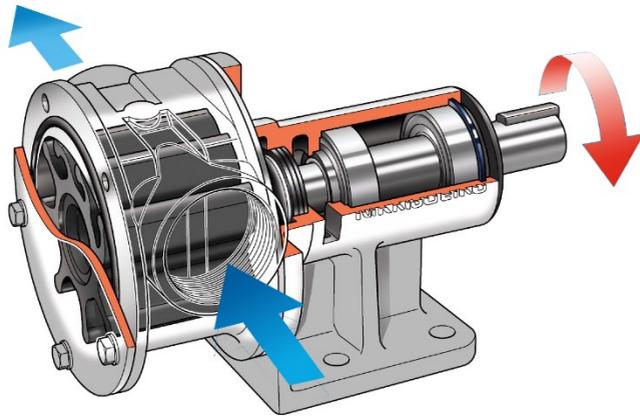
MONOFLEX PUMP

URL: <http://www.nikkiso-eiko.co.jp/en.html>

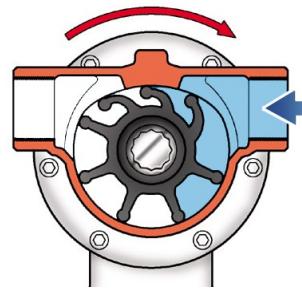
- NIKKISO EIKO CO.,LTD.-

Outstanding self-priming performance , Small size and maintenance are easy , From a slurry to a high-viscosity liquid.

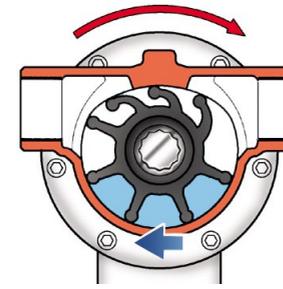
Discharge



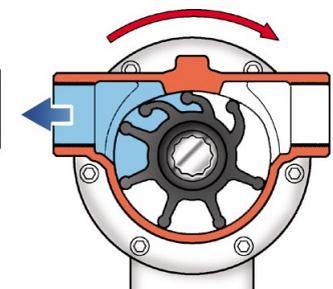
Suction



① Suction process



② Transfer process



③ Discharge process

Features

- Outstanding self-priming performance — Suction starts when the pump starts up, without requiring priming water or a foot valve.
- Easy maintenance — A simple pump structure is adopted. The pump can be easily disassembled/assembled since only the minimum components are mounted. Maintenance can be performed easily even without special knowledge.
- Compact and high performance — A large capacity is ensured in its compact body. This is a displacement pump that enables a supply with stable capacity.
- Perfect for transferring slurries — Our MONOFLEX pump is fully compatible with slurries, including a liquid containing solid matter, high-viscosity liquid, and gas-liquid mixed liquid, which are generally difficult to transfer

Overview (Technical principles, actions, etc.)

An impeller, which is mounted with a blade made of a flexible elastic material such as a synthetic rubber, adheres to the inside of the pump casing. Once the impeller starts rotating, the blade is forcibly warped in the cam section of the pump casing. When it rotates further and passes through the cam section, the blade will return to its original condition due to the elasticity of the rubber. At this point, the inside of the pump casing is vacuumed and self-priming is performed. The MONOFLEX pump is a displacement pump that performs pumping based on a difference in space (volume). Therefore, the space (volume) between the blades when one of the blades is warped in the cam section is compared with the space (volume) between the blades when the warped blade is restored to its original position. It is one of the advantageous features that the MONOFLEX pump can ensure a certain level of quantitative performance

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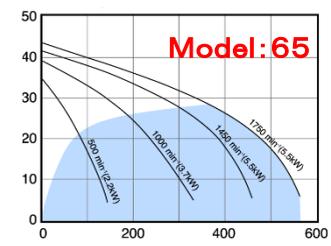
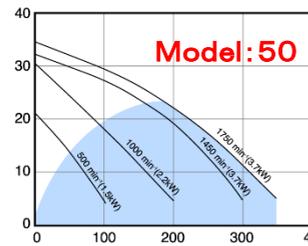
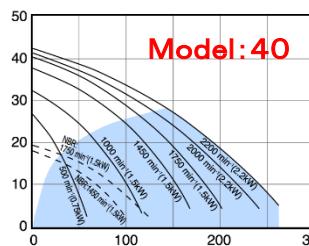
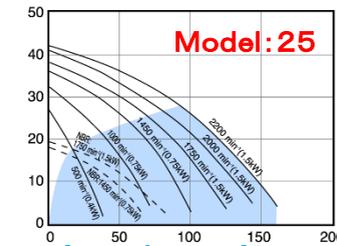
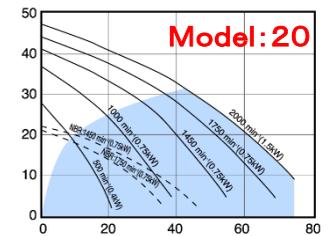
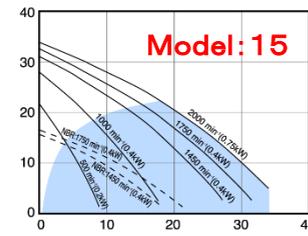
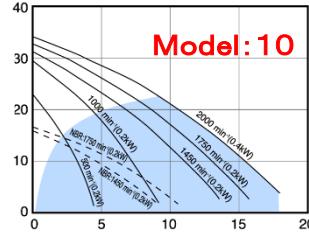
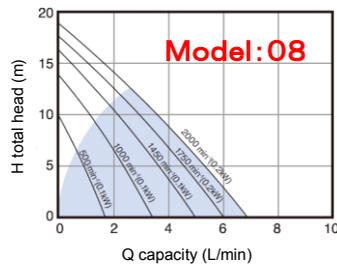
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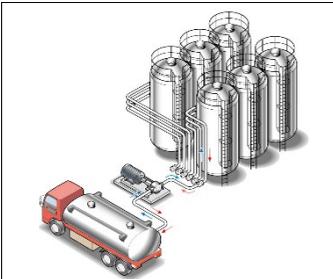
Team E-Kansai

Performance /specifications of technology / product

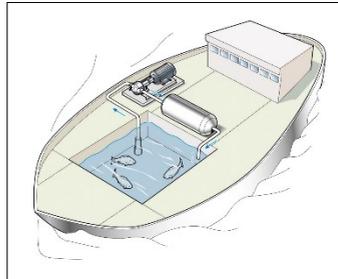


Usage examples / result

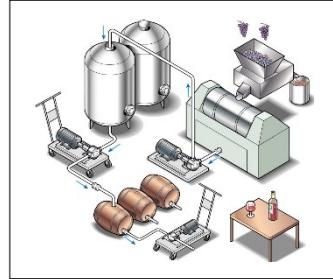
Chemical transfer(Self-priming, slurry)



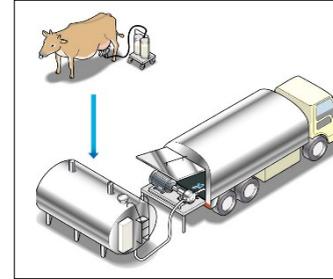
Fish boat (Self-priming, compact, maintenance)



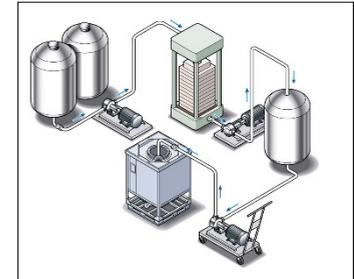
Wine(Self-priming, slurry)



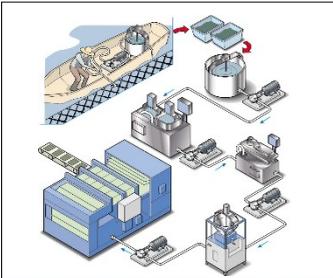
Dairy husbandry(Self-priming, compact, maintenance)



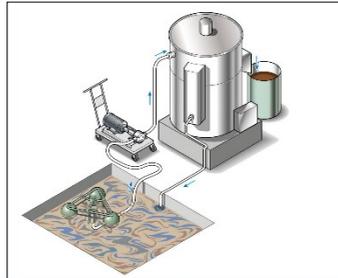
Soy sauce(Self-priming, slurry, maintenance)



Seaweed (Self-priming, slurry, maintenance)



Scum collection(Self-priming, slurry, maintenance)



Dehydrator(Self-priming, slurry, maintenance)

