

Dosing units for highly viscous, solids-laden, abrasive or shear-sensitive media



Task

A solution for dosing highly viscous media had to be found, which could be applied with high precision and without filament formation. The media which was supposed to be dosed can change its aggregation state if certain parameters are not met, which makes dosing impossible. Additionally, the system has to be suitable for CIP cleaning and sterilisation. The products are processed in a run-through process. Different forms and amounts must be dosed.

Solution

The dosing of highly viscous, solids-laden, abrasive or shear-sensitive media requires appropriate equipment. For precise and variable dosing, we rely on the competence of the ViscoTec company. With their dispensers and dosing pumps, they enable highly precise dosing of small and large amounts (0.5-150,000 ml/min). The products are supplied on a conveyor belt and processed with the dosing unit on the robot head of a Stäubli TX60 he IP67. The cell is delivered in INOX, IP67 and with the newest safety technology.

Result

Thanks to the dosing technology of ViscoTec, the requirements can be met. The dosing unit is powered by a servomotor and therefore enables highly accurate dosing. Even different dosing quantities can be realised during contouring. A precise separation of the medium is carried out using the retraction function. Furthermore, the dosing system can be equipped with CIP cleaning or SIP sterilisation.

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