

# SANITARY SCREW FEEDER



## VSF and VSFO

PPS Volumetric Screw Feeder (VSF) and Volumetric Screw Feeder with Overflight (VSFO) are used for applications where the controlled rate of product discharge is important to the process. Applications include discharge of smaller hoppers, bulk bag unloading, hand dump stations, and minor powder addition and batching systems.

## Overflight

The VSFO line, (Volumetric Screw Feeder with Overflight) incorporates custom flighting in the screw design to improve the feeding of non-free flowing powders.

Materials that tend to pack or interlock can build up on the shaft or in the screw feeder trough, which can in turn reduce the conveying capacity and consistency of the product flow.

The open space created between the auger and the overflighting in this design allows for the free movement of difficult materials and prevents them from building up. Consistent filling of the metering flights is also achieved for improved accuracy.

## FEATURES

- Auger diameters from 4" - 10", screw lengths to 60"
- Stainless steel construction
- Air purged shaft seals
- Outboard bearings
- Fully demountable design for easy cleaning
- Meets 3-A sanitary standard 81-00
- Volumetric or Loss-in-Weight operation

## Designs & Characteristics

The PPS VSF and VSFO models are available with screw diameters ranging from 4" to 10" and screw lengths up to 60". The screw is available in any flight configuration.

Shaft bearings are fully outboard of the product area, protected by air purged shaft lip seals. The screw and tube are completely demountable for cleaning. Select from several inlet and outlet connections, including bolted flange, sanitary ferrule, BFM® fitting.

AC gear motor drive package direct couples to the screw shaft, and is available with many gear ratios. Optional variable frequency drive.

The VSF and VSFO models provide medium to high capacity screw feeding that meets the increasing demands of the food and dairy industry by providing a sanitary and quickly demountable screw feeder. VSF and VSFO models meet the requirements of 3-A sanitary Standard 81-00.



Outboard bearings with air purged shaft seals