

### PCM Moineau<sup>™</sup>



## IVA, LVA, GVA, Visco-feeder<sup>TM</sup>

Progressing cavity pumps and systems for viscous food products

- > Gentle pumping
- > Accurate dosing
- > Versatile



### Pumps and Systems Solutions for viscous and hyper-viscous products

The growing demand for more concentrated and sophisticated products often implies an increase in the viscosity of the products being transferred. If your product is viscous, pasty, sticky, greasy, thick, or concentrated, PCM provides an appropriate solution for each type of rheology.

### Progressing cavity pump for fluids with high viscosity or high solids content

IVA/LVA/GVA pumps are fitted with a feeder hopper and a conveyer screw. The open-throat design allows the fluid to flow in without restriction while the screw feeds the materials into the rotor stator.

#### IVA / LVA benefits

- Transfers high-viscosity, non-homogeneous, and pasty products
- Small investment, low power consumption
- Compact solution for simplified integration

#### GVA benefits

- Transfers very viscous products
- Accommodates non-homogeneous products containing pasty and even sticky pieces
- Improved circulation of the fluid thanks to the hopper's shape

### > VISCO-FEEDER™, feeding

Force-feed system offers accurate transfer and dosing of highly viscous products with optimum steady flow and high accuracy for any number of production lines.

#### Key benefits

- Versatile: Highly viscous/sticky products up to 15.000.000 cP
- Accurate batch or continuous dosing: From 10 ml to several kilos
- Productivity: Continuous production with batch loading of product and temperature controlled operation
- Quality and hygiene: Airtight, minimum shearing and Cleaning In Place





### IVA / LVA



### Visco-feeder™



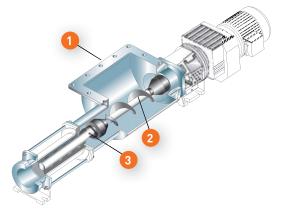
15.000 cP / 20.000 cP

80.000 cP

400.000 cP

UP T0 15.000.000 cP

## **IVA / LVA** FOR VISCOUS AND NON-HOMOGENEOUS PRODUCTS



#### Characteristics

- Maximum flow: 50 m³/h
- Maximum pressure: 52 bar
- Hopper: 72 x 156
- to 590 x 590 mm

#### Accessories

- Built-in or remote frequency variator
- Dry running protection
- Safety pressure switch

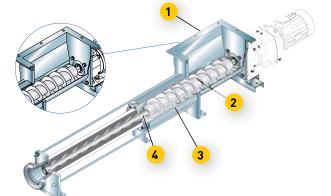
#### Construction

- 1- Small hopper. Compact size.
- 2- Feed screw.Facilitates product flow.3- Simplified barrel.
- Promotes auto-flow of a more or less viscous liquid product.

#### Options

- Drain plug: Enables total drainage
- LVA option: Polished finish,food couplings: SMS, DIN, etc., stainless steel base, hopper: 76 x 161 to 440 x 440 mm

### **GVA** FOR VERY VISCOUS, STICKY, AND NON-HOMOGENEOUS PRODUCTS



#### Characteristics

- Maximum flow: 28 m<sup>3</sup>/h
- Maximum pressure: 24 bar
- Hopper: Length 500, 1000,
- 1500 mm

#### Accessories

- Built-in or remote frequency variator
- Dry running protection
- Safety pressure switch

#### Options

- Drain plug: enables total drainage
- Grease sealing
- Special finish: polished, glass blasted... depending on the product
- Anti-bridging device built into the hopper: provides for better feeding of the feed screw by eliminating the possibility of clogging

#### Construction

1- Large inlet hopper. To eliminate cavitation and the risk of product bridging in the inlet hopper. For higher viscosity products the GVA can be fitted with an optional motorised bridge breaker.

#### 2- Feed screw. Ensures the filling of the barrel.

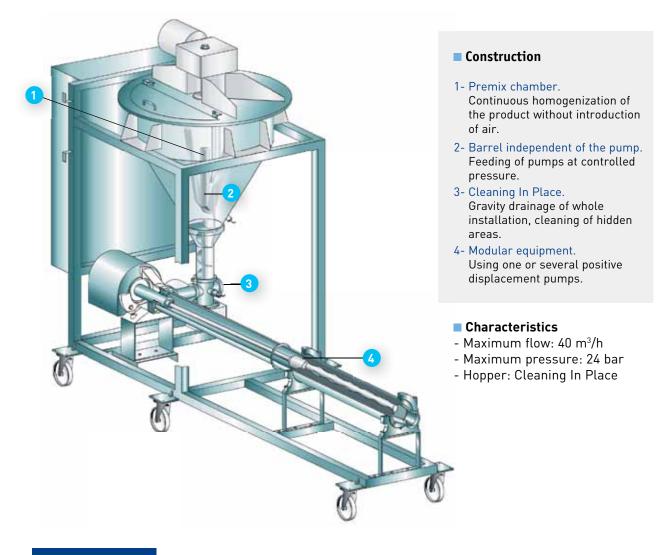
- 3- High hydraulic yield barrel. Provides for better feeding.
- 4- Reduced size of pin joint. Facilitates product flow.
  - Flow management with level
  - control module in the hopper - Double jacket to maintain the
  - product's temperature
  - Built-in Cleaning In Place

# Visco-feeder™

SYSTEM FOR FEEDING AND ACCURATE DOSING OF HYPER-VISCOUS PRODUCTS

### ↘ Applications

- Transfer of cheese mixtures from the kneading trough mixer to the packaging line
- Co-extrusion inner of dry pet-food
- Continuous deposit of dough mix in the desired shape
- Feeding of an extrusion head for biscuit filling
- Dosing and continuous injection of caramel and hyper viscous ingredients



#### Advantages

- Batch or continuous dosing of hyper viscous and/or sticky products
- Great flexibility: High precision (<2%) regardless of the number of production lines, the flow, and the product
- Strict hygiene standards

### ightarrow Industries and applications



Meats, fish, pet food

**Dairy products** Melted cheese, curd, cottage cheese, butter, etc.





Bread, cakes, pastry

Meat emulsions, minced meat, ground meat, sausage meat, stuffing, filling, chicken flesh, fish flesh with or without pieces, offal, slaughterhouse waste, etc.

Bread dough, cookie dough, gluten, fillings, sauces, chocolate, glaze, cookie cream, etc.

Juices, wine must and yeast, destalked harvests,





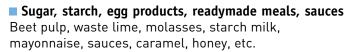


#### Fruits, vegetables, salads

must and spent grains, etc.

Drinks

Mashed potatoes, vegetable pulp, jam and jelly, fruit compounds, whole apples, cooked apples, tomatoes, fruit purées, spent grains, peels, etc.







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