PROGRESSIVE CAVITY PUMPS FOR THE WINE INDUSTRY

PRESSING - TRANSFER OF PRESSED GRAPES, MASH, MUSTS AND WINE —



MC - MCR series



FILLING AND EMPTYING OF BARRELS



BOTTLING - FILTRATION - REFRIGERATION





MAE series equipped with electric panel and motor integrated inverter. Thanks to the HMI control panel and the measurement sensors integrated into the machine (optional), operation can be automated.

Available sensors:

- Flow switch to prevent the pump from dry running
- Pressure sensor with settable parameters, to detect discharge over-pressures or to stabilize the pump operating pressure. Pump speed is modulated by the PLC in the inverter.
- Flow meter in discharge to keep the flow rate delivered by the pump constant as the system conditions change. The pump speed is modulated by the PLC in the inverter.

All sensors are available with IO-LINK® communication protocol.



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PROGRESSIVE CAVITY PUMPS





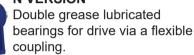
The progressive cavity pump is a positive displacement pump with one single rotating shaft.

A stainless steel rotor and a rubber stator are the main pumping components. The rotor is a circular section single screw. The rubber stator is vulcanized inside a steel pipe. Renowned for their versatility, different models are available in a choice of AISI 304, 316 stainless steel. Motorisation: direct motor, geared motor, variable speed motor, motor and pulley, gear

The progressive cavity pumps can handle almost any kind of fluid up to 800.000 cps., including abrasive liquids and suspensions with solids. The pumping action is delicate, without sudden pulsation and the flow rate is proportional to the rotational speed.

MOUNTING ARRANGEMENT







Close coupled with shaft directly coupled to the drive.

EXECUTIONS

MA series - Foodstuffs execution

Pumps for foodstuffs with a large suction chamber. Wetted parts are polished stainless steel with DIN threaded hygienic connections.



MIN series



MI series - Industrial execution

Sturdy industrial pumps suitable for heavy duty requirements. Cast suction chamber and flanged connections.

MC series - Features a hopper and a pre-feeding screw

Version with a hopper equipped with pre-feeding auger screw suitable for viscous products that do not flow easily through pipes. The top part is equipped with a rectangular flange to which any type of conveyance system can be connected.

MCN series





approximate. C.S.F. INOX reserves the right at any moment and without notice to modify the data, drawings and information indicated in this document.

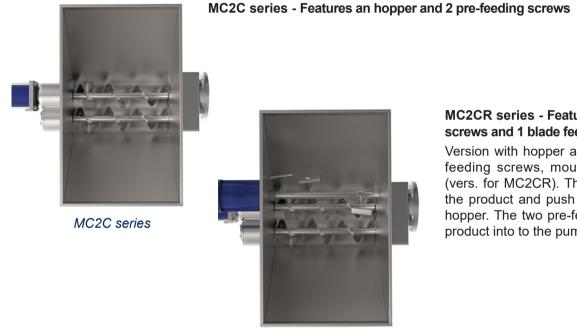




MCRN series

MCR series -Features a hopper, a pre-feeding screw and a vane crusher

Version with hopper, pre-feeding screw and vane crusher, suitable for dense products in lumps, pieces or that tend to form a bridge around a normal screw feeder. The vane crusher is driven by an independent geared motor, to crush the product to be pumped, breaking down any large lumps and pushing them into the pre-feeding screw.



MC2CR series - Features an hopper, 2 pre-feeding screws and 1 blade feeder

Version with hopper and double synchronised prefeeding screws, mounted below a vane crusher (vers. for MC2CR). The vane crusher blades chop the product and push it towards the bottom of the hopper. The two pre-feeding screws then push the product into to the pump stator.

MC2CR series

Blade feeders with 2 pre-feeding screws

Version with hopper and double synchronised pre-feeding screw operated by a reduction unit. It can be manufactured as a simple feeder or in combination with a volumetric pump.

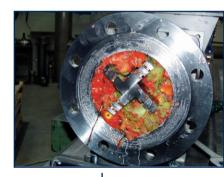






MAV series - Vertical execution

MAV Series pumps are intended for product transfer and drum or container emptying applications, in which the suction port is plunged directly into the product. As standard, MAV pumps have a suction to discharge port dimension of 1100 - 1400 mm according to the pump size. It can be mounted on a vertical trolley, with a choice of either a manual sliding or an alternative pneumatic lift and lower system (up to size MAV 70-L).







MCN series with CRUSHING BLADES

Progressive cavity pump with crushing blades. The right solution designed for crushing products containing soft or fibrous components (fruit and vegetables). The great advantage of this device is to avoid the need for macerating equipment after the pump.

TECHNICAL DATA

Flow rates up to 200 m3/h
Maximum operating pressure 24 bar up to 100°C *

Mechanical seals:

Single internal mechanical seal Single external mechanical seal Double flushed mechanical seal Cooled packed gland seal

* To be checked according to the elastomer type.

Stator materials

GA - NBR black

GB - EPDM GD - FKM rubber Fluoroelastomer

GE - HYPALON rubber

GF - NBR white

GG - NATURAL rubber

GJ - HYDRO-TREATED NITR. rubber

GL - SBR SCA972

GM - EPDM (white rubber)

DIAGRAMS

The diagrams shows the theoretical flow rates at 0 pressure.

