

Verderpro progressing cavity pump, model VPR



The Verderpro VPR model wide throat progressing cavity pumps are excellent pumps for pumping difficult flowing, non-flowing or high viscous media. The feed hopper and the feed screw ensure a perfect flow. We will be happy to test your product in our testing facility.

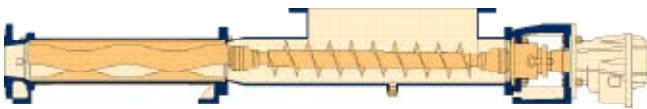
Flow rates: 100 l/hr - 250 m³/hr, pressure up to 48 bar

Advantages and features

- With bare shaft end or "close coupled"
- Fast pin shaft insert between rotor and drive
- Integrated feeder with hopper
- Feed screw adapted to the product to be pumped
- This pump series offers a good solution for almost all viscosities and specific product properties

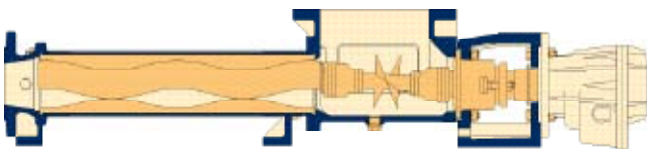
Pump types

VPR type



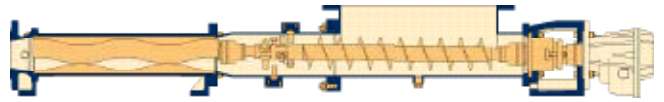
- Rectangular feed hopper where the length can be adapted to the application
- Cylindrical/conical compression zone giving optimal filling conditions
- With bare shaft end or "close coupled"
- Flow rates: 100 l/hr - 300 m³/hr, pressure up to 36 bar

VPRSQ type



- For medium to high viscous media that are non-flowable
- Square hopper with inspection holes on both sides
- Close coupled, compact construction
- Option available as a bare shaft end
- Flow rates: 50 l/hr - 100 m³/hr, pressure up to 24 bar

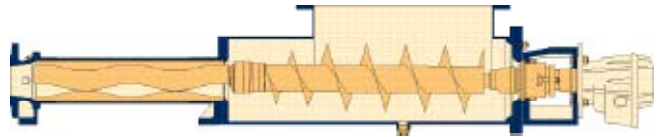
VPRK type



- Specially designed for pumping fruits and vegetables
- Rectangular feed hopper where the length can be adapted to the application
- Extended feed hopper. Macerators have been fitted around the cylindrical compression zone.
- The feeder has an extended compression zone with integrated macerators that is easy to disassemble
- Flow rates: 0,25m³/hr - 130 m³/hr, pressure up to 24 bar

VPRE type

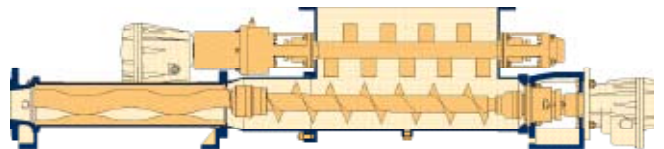
- For pumping viscous to airtight media that does not have a tendency to form bridges



- Rectangular feed hopper where the length can be adapted to the application
- With bare shaft end or "close coupled"
- The cylindrical compression zone with enlarged feeder facilitates optimum feeding of the medium
- Flow rates: 0,5m³/hr - 100 m³/hr, pressure up to 36 bar

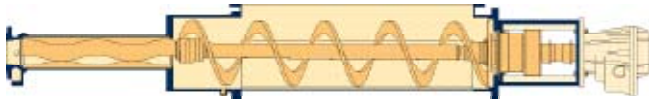
VPRP type

- For pumping viscous to very compact media with a tendency to form bridges



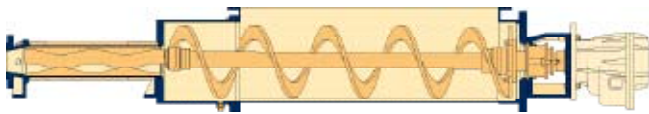
- Bridge breaker with two rotating paddle shafts and separate drive
- Rectangular feed hopper where the length can be adapted to the application
- The cylindrical compression zone with enlarged feeder opening facilitates optimum feeding of the medium
- Compression zone can be disassembled for maintenance
- With free shaft end or "close coupled"
- Flow rates: 100 l/hr - 130 m³/hr, pressure up to 36 bar

VPRR type



- For pumping viscous to airtight and shear-sensitive media with a tendency to form bridges
- Separate driven jacketed feed screw that rotates concentrically on the corners
- The screw speed can be adjusted on its own drive
- Rectangular feed hopper with vertical walls where the length can be adapted to the pump application
- Cylindrical/conical compression zone with optimal filling conditions
- Compression zone can be disassembled for maintenance
- Flow rates: 0,5 m³/hr - 130 m³/hr, pressure up to 36 bar

VPRRE type



- For pumping viscous to airtight media with a tendency to form bridges
- Equipped with a ribbon feed screw that rotates concentrically on the corners
- Rectangular feed hopper with vertical walls. The length can be adjusted to the pump application.
- Cylindrical/conical compression zone with enlarged cross section for optimal filling conditions
- Compression zone can be disassembled for maintenance
- Flow rates: 0,5 m³/hr - 130 m³/hr, pressure up to 36 bar

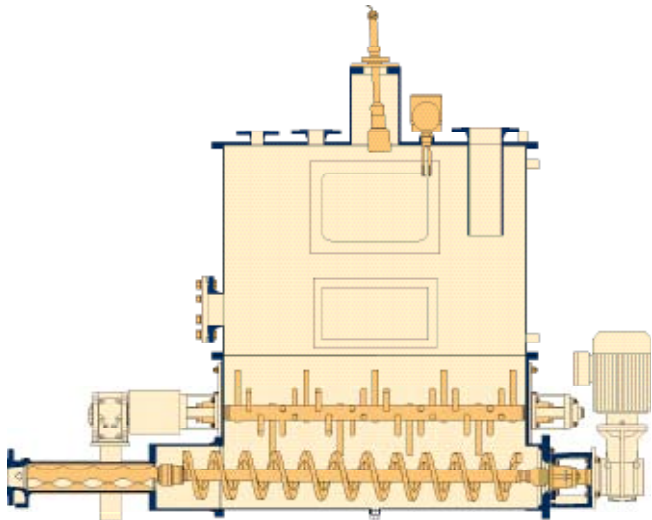
VPRSI type

- For emptying viscous to airtight media from silos
- Rectangular feed hopper optimised for adjustment to silos
- Minimised measurements to prevent bridge forming
- Cylindrical/conical compression zone with enlarged cross section for optimal filling conditions
- Compression zone can be disassembled for maintenance
- Integrated shut-off system; when a silo is full, parts can be exchanged if necessary
- Flange-mounted drive
- Flow rates: 0,5 m³/hr - 130 m³/hr, pressure up to 24 bar

VPREP type

- For pumping viscous to airtight media with a tendency to form bridges
- Bridge breaker/mixing unit with rotating paddle shaft and a separate drive
- Hollow feed screw

- Rectangular feed hopper where the length can be adapted to the application
- Supply tank for liquid buffer



Seal options

- Standard gland packing with 6 packing rings
- Gland packing with internal barrier chamber ring
- Gland packing with internal barrier chamber ring and a labyrinth gasket prefitted with bearings
- Gland packing with external barrier chamber ring
- Gland packing with external barrier chamber ring, 2 connections
- Gland packing with external grease chamber
- Single mechanical seal in various options
- Double acting mechanical seal (also back-to-back)
- Cartridge mechanical seal
- Mechanical seal with quench

Accessories

- Dry running protection
- Pressure protection
- Overpressure protection with bypass
- Universal coupling guard
- Adjustable stator spanner
- Dosing unit
- Lantern ring
- Gasket shield
- Pressure line adapter
- Injection system
- Feed hopper buffer
- Ribbon screw
- Silo shut-off system
- Stone catcher

Material selection

Material selection for the VPR model select*) from:

Housing material

- GG 25
- ST 37-2
- AISI 304
- AISI 316 Ti

Rotor material

- AISI D6 tool steel
- AISI 304
- AISI 316
- AISI 316 Ti
- AISI C45 tool steel

Stator material

- Buna-N

Rotating parts material

- AISI 304
- AISI 316 Ti
- AISI 420
- ST 37-2
- ST 52-3

*) = not all materials can be combined.

