



**FINSTERWALDER  
UMWELTECHNIK**

**EXTREMELY RELIABLE**

Pumping of high solids & abrasive slurries

## KV20 BALL VALVE PUMP





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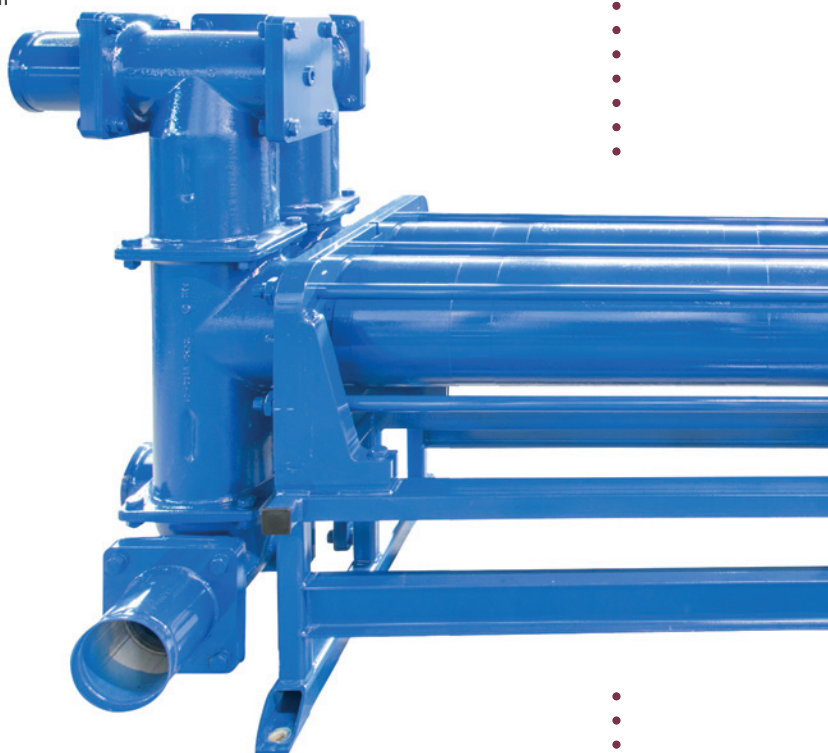
### THE BALL VALVE PUMP KV20

The FINSTERWALDER KV20 pump can handle all kinds of high solid content slurries and sludges and the pump can be customized to your specific requirements.

The KV20 pump is characterized by a very simple construction and is therefore very durable and robust. This applies especially to highly abrasive organic waste since the KV20 pump contains no rotating parts. The KV20 pump is hydraulically operated and, depending on the required flow rate, available with one or two cylinders.

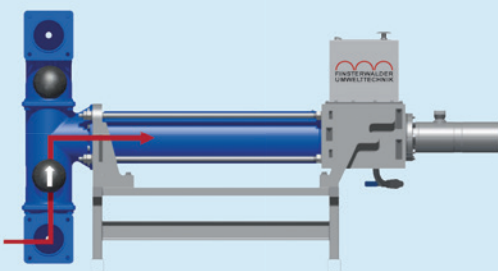
#### KEY FEATURES OF THE KV20

- » No rotating parts which means an extremely robust and low wearing pump which is resistant to hard particles like metal, bones and glass.
- » Max. particle size up to 20 mm
- » Flow rate up to 35 m<sup>3</sup>/h
- » Pressures up to 40 bar



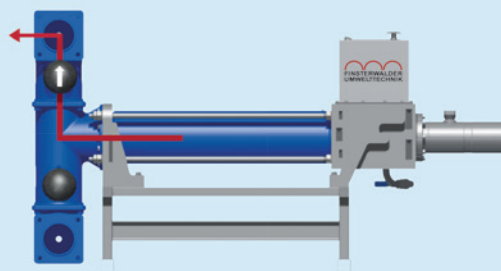
### WORKING PRINCIPLE OF THE KV20

#### DURING SUCTION:



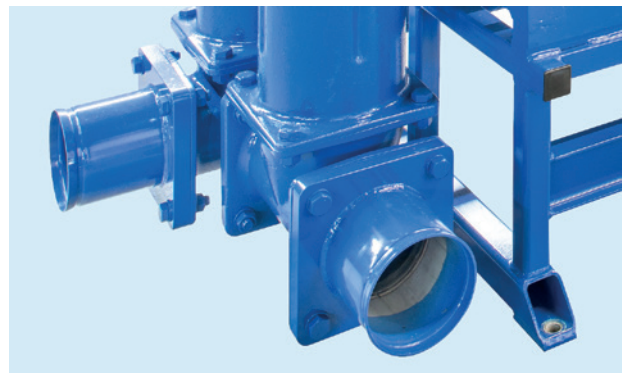
When the piston is retracted, a vacuum is created inside the cylinder due to a differential pressure, which then closes the outlet valve and subsequently forces the inlet valve to open.

#### DURING PUSHING:



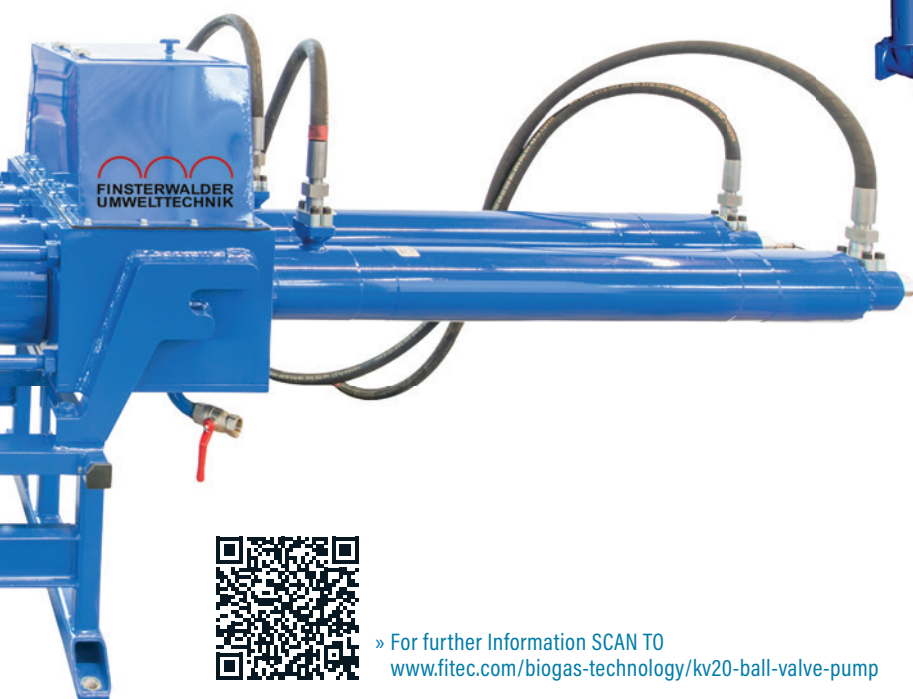
When the piston moves forward towards the valve, it creates an overpressure, which closes the inlet valve and opens the outlet valve.



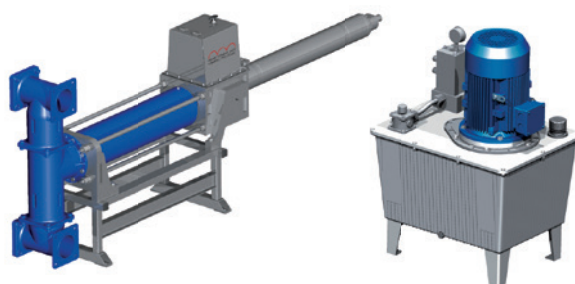


## OPTION #1: SINGLE BALL VALVE PUMP

- » Simple construction & flexible use
- » Very low operating costs



» For further Information SCAN TO  
[www.fitec.com/biogas-technology/kv20-ball-valve-pump](http://www.fitec.com/biogas-technology/kv20-ball-valve-pump)



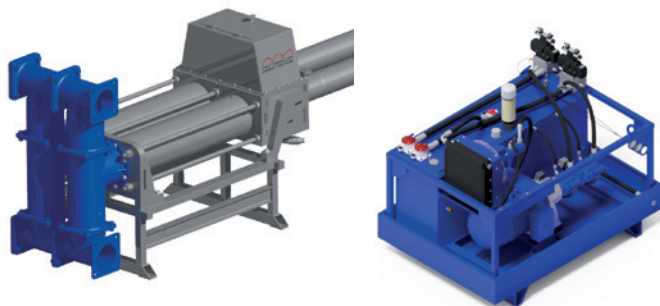
### PUMP CHARACTERISTICS

#1: High pressure option: Used for slower, steady pumping applications such as for feeding the FINSTERWALDER double-tube heat exchanger.

#2: High flow rate at medium pressure: Provides quick, high volume pumping for applications such as digester feeding or loading pretreated food waste slurries into trucks.

## OPTION #2: DOUBLE BALL VALVE PUMP

- » Simple construction & flexible use
- » Hydraulic cylinders are independently controlled - using two oil pumps
- » Very low operating costs

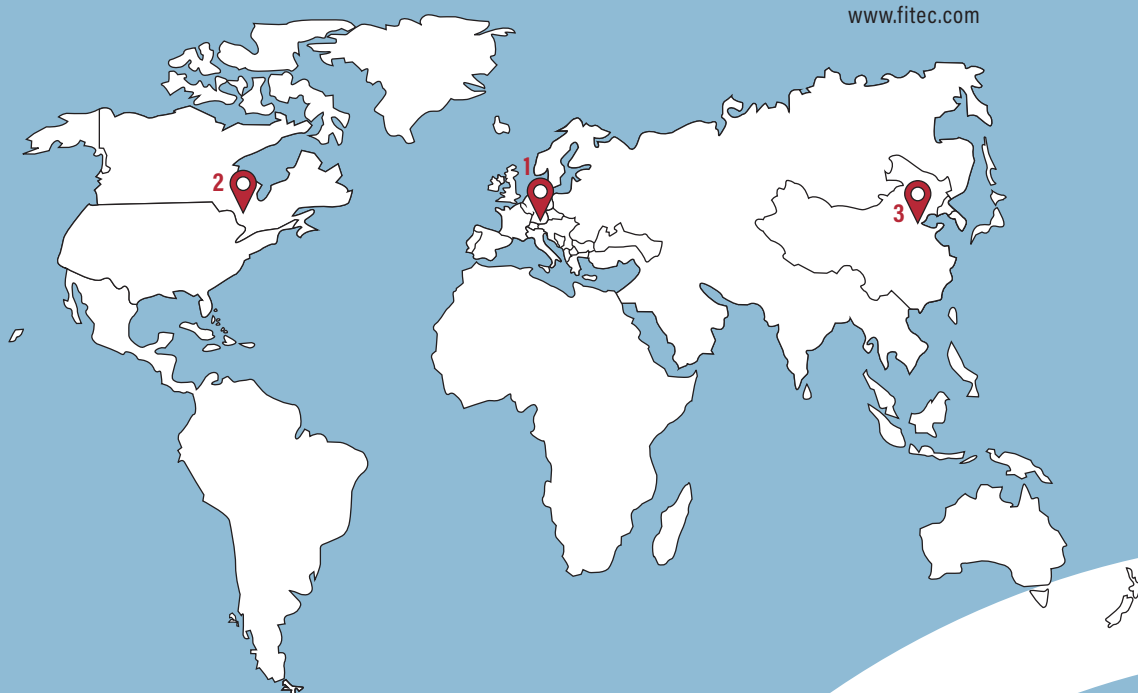


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