

# FoodPump

PUMPS FOR VISCOUS LIQUID FOR FOOD  
AND COSMETIC INDUSTRY

AISI 316L POLISHED  
STAINLESS STEEL



**Pumps based on  
a new design.  
Fast disassembly,  
easy to clean.**

**Effective and innovative  
mechanical seals.**



**OPERABILITY  
RELIABILITY  
ROBUSTNESS**

# MZ70/FZ50 316 Stainless steel pump

## FIELD OF APPLICATION

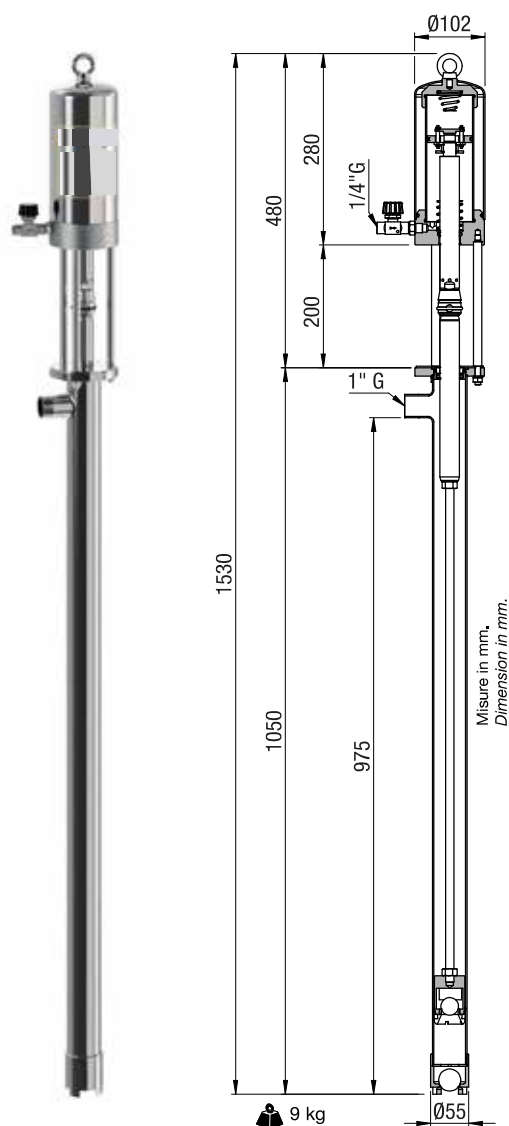
It is a **2:1** versatile and easy to handle pump, with **variable flow rate up to 20 l/min** (water). It is also suitable for insertion into closed barrels with holes measuring 2". It is used for **low and medium viscosity fluids (up to 40,000 cP)**. It is constructed in **316 Stainless steel** so is suitable for pumping **food and cosmetic products** and for **any viscous chemical product or fluid compound** that is compatible with **AISI 316 Stainless steel**.

## FEATURES OF THE MZ/FZ Food SERIES PUMPS

They are **pumps based on a new design**, created to be quickly disassembled. The functional concept is based on an alternating piston with ball check valves, the **flow and head are adjustable**, they are designed for **viscous food products and cosmetic fluids** or **other viscous fluids** compatible with the steel used to construct the pumps.

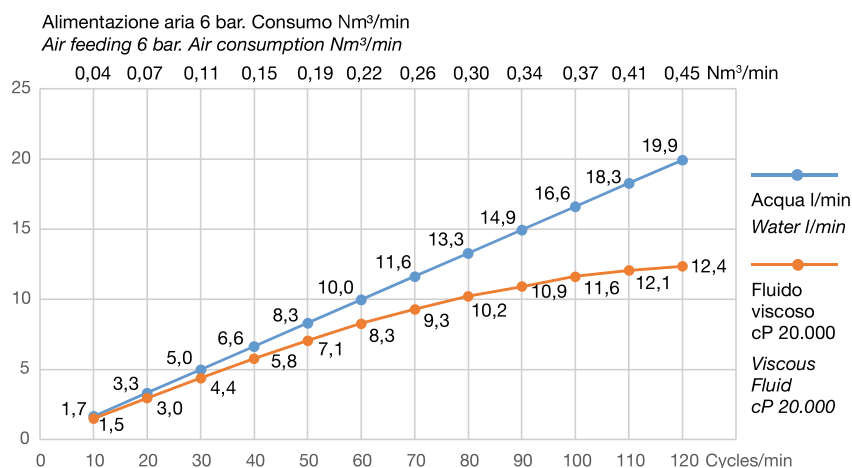
The part in contact with the product is made entirely in **AISI 316 Stainless steel**, the gasket seals are made in **NBR or FKM and UHMWPE and PTFE** suitable for the Food sector. The **gasket seal on the shaft does not require adjustment**, and is efficient with any viscosity and pressure, and also is long-lasting. These pumps do not require any special maintenance, are sturdy, and reliable, **easy to disassemble for periodical cleaning or for sanitizing the single components**. The complete range can be supplied with **ATEX Zone 1 certification** for the motor section and **ATEX Zone 0** for the pump immersed in liquid. This therefore makes them **suitable for use in potentially explosive atmospheres**. They are used by immersing the pumping piston in the fluid, or also outside of the product container. For the latter use, we can supply **Stainless steel fittings and flexible hoses** to connect the suction and the outlet. We can supply a **transport trolley**, or a **cushioned support for wall mounting**.

For efficient and safe use, we recommend our **pneumatic elevator on wheels or fixed on the ground**.



## TECHNICAL DATA

Maximum cycles/minute	120 cycles/min
Air consumption at 120 cycles/min	0,45 Nm³/ min - Power supply 6 bar (87 psi)
Delivery at 120 cycles/min	20 liters/min (Free flowing water)
Delivery per cycle	0,166 liters per Cycle (Free flowing water)
Ambient air temperature	0 °C at + 40 °C
Maximum fluid temperature	+ 85 °C
Fluid outlet	1" G (UNI ISO 228-1)
Compression ratio	2:1
Air inlet	1/4" G
Air pressure	up to 6 bar (87 psi)
Pump components	316 Stainless steel with parts in PTFE, UHMWPE, FKM, NBR FDA



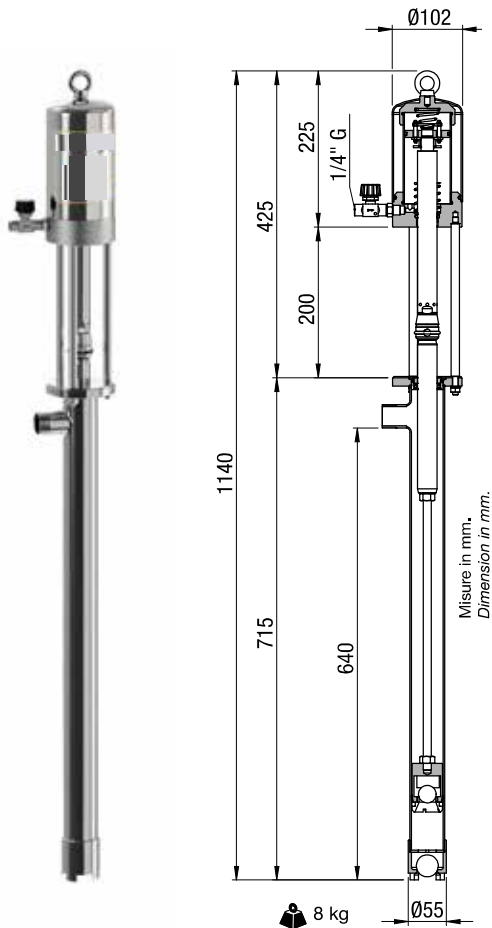
## FIELD OF APPLICATION

This is a pump **2:1** that is often used **for pumping toppings in the ice cream industry**. It has **variable flow rates up to 10 l/min** and a short suction section. It is suitable for small jugs, fluids with **low and medium viscosity (up to 40.000 cP)** and for **any viscous product** that are compatible with **AISI 316 Stainless steel**. To use with toppings, if reduced flow is necessary, there is a **ball valve with partial closure** on the flow tube.

## FEATURES OF THE MZ/FZ Food SERIES PUMPS

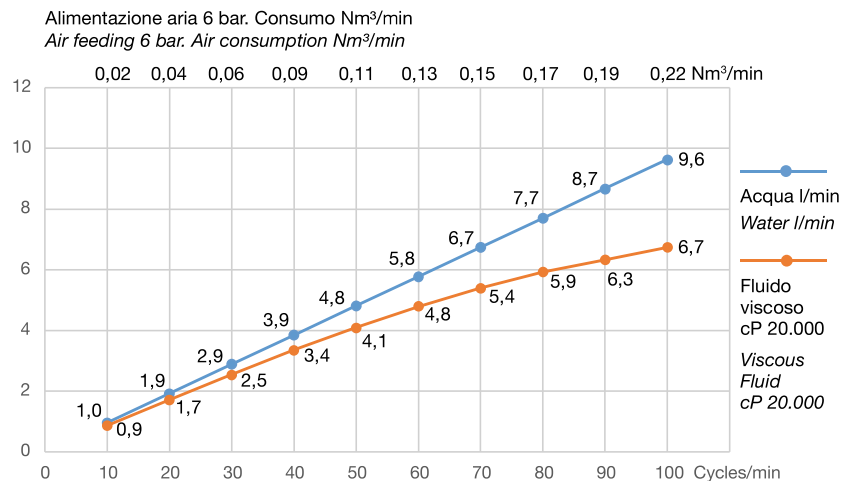
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## TECHNICAL DATA

Maximum cycles/minute	100 cycles/min
Air consumption at 100 cycles/min	0,22 Nm <sup>3</sup> /min - Power supply 6 bar (87 psi)
Delivery at 100 cycles/min	10 liters/min (Free flowing water)
Delivery per cycle	0,096 liters per Cycle (Free flowing water)
Ambient air temperature	0 °C at + 40 °C
Maximum fluid temperature	+ 85 °C
Fluid outlet	1" G (UNI ISO 228-1)
Compression ratio	2:1
Air inlet	1/4" G
Air pressure	up to 6 bar (87 psi)
Pump components	316 Stainless steel with parts in PTFE, UHMWPE, FKM, NBR FDA



## FIELD OF APPLICATION

It is a very versatile pump with **good power (3:1) and flow rate up to 41 l/min** (water). It is suitable for **viscose fluids (60/70.000 cP)**. It is suitable for different uses and is one of the most popular. It is constructed in **AISI 316 Stainless steel**, and is therefore suitable for pumping **food and cosmetic products**. It is also often used in the chemical industry for moderately acidic or alkaline aggressive viscous products or for glues and adhesives, because it is easy to disassembly and clean.

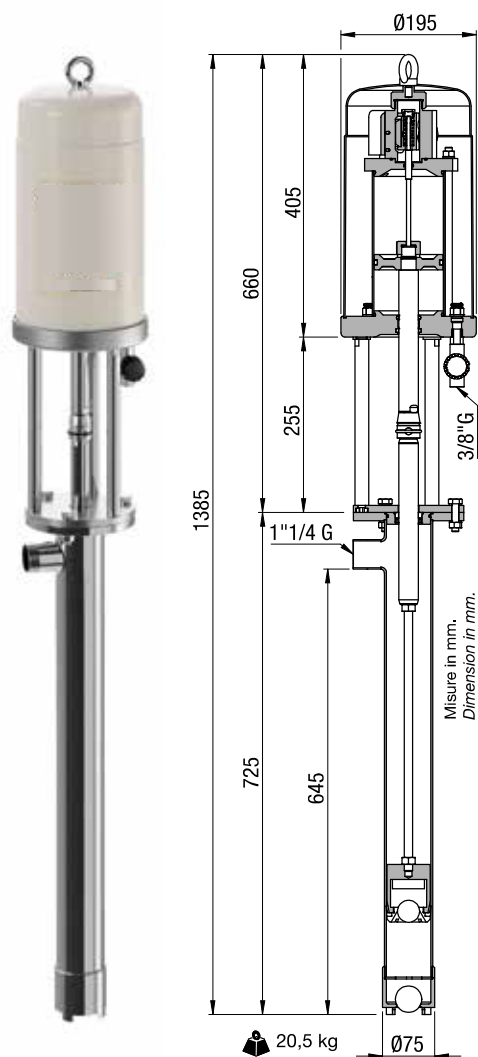
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The part in contact with the product is made entirely in **AISI 316 Stainless steel**, the **FDA** gasket seals are made in **NBR** or **FKM**, **UHMWPE**, or **PTFE**. The **gasket seal on the shaft does not require adjustment**, and is efficient with any viscosity and pressure, and also is long-lasting. These pumps do not require any special maintenance, are sturdy, and reliable, **easy to disassemble for periodical cleaning or for sanitizing the single components**. The complete range can be supplied with **ATEX Zone 1 certification** for the motor section and **ATEX Zone 0** for the pump immersed in liquid. This therefore makes them **suitable for use in potentially explosive atmospheres**.

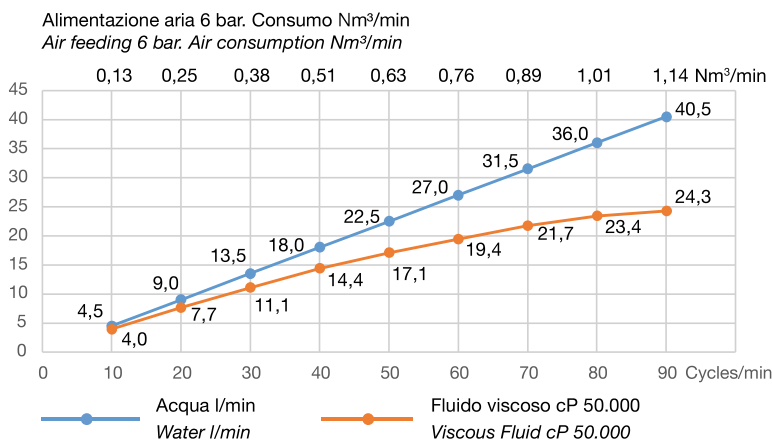
They are used by immersing the pumping piston in the fluid, or also outside of the product container. For the latter use, we can supply **Stainless steel fittings** and **flexible hoses** to connect the suction and the outlet. We can supply a **transport trolley**, or a **cushioned support for wall mounting**.

For efficient and safe use, we recommend our **pneumatic elevator on wheels or fixed on the ground.**



## TECHNICAL DATA

Maximum cycles/minute	90 cycles/min
Air consumption at 90 cycles/min	1,14 Nm³/ min - Power supply 6 bar (87 psi)
Delivery at 90 cycles/min	41 liters/min (Free flowing water)
Delivery per cycle	0,45 liters per Cycle (Free flowing water)
Ambient air temperature	0 °C at + 40 °C
Maximum fluid temperature	+ 85 °C
Fluid outlet	1"1/4 G (UNI ISO 228-1)
Compression ratio	3:1
Air inlet	3/8" G
Air pressure	up to 7 bar (100 psi)
Pump components	316 Stainless steel with parts in PTFE, UHMWPE, FKM, NBR FDA



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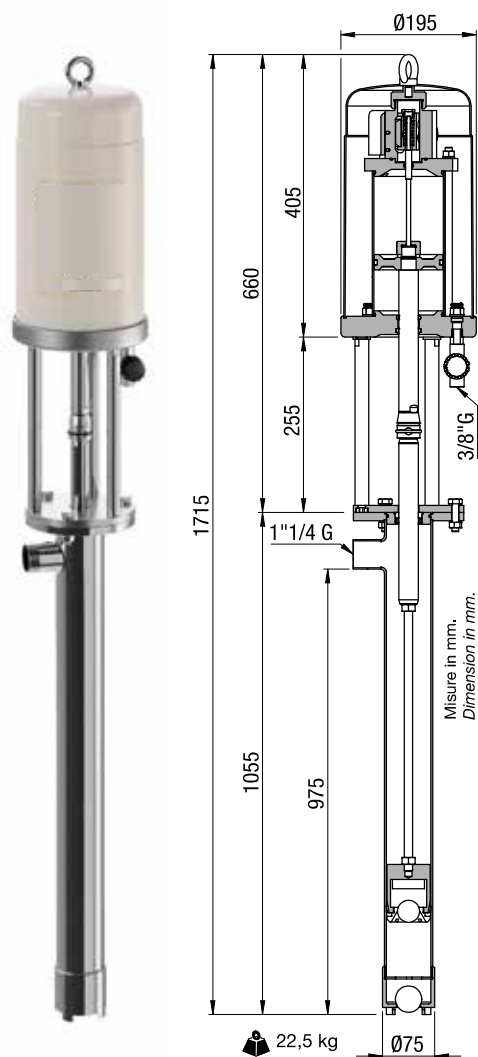
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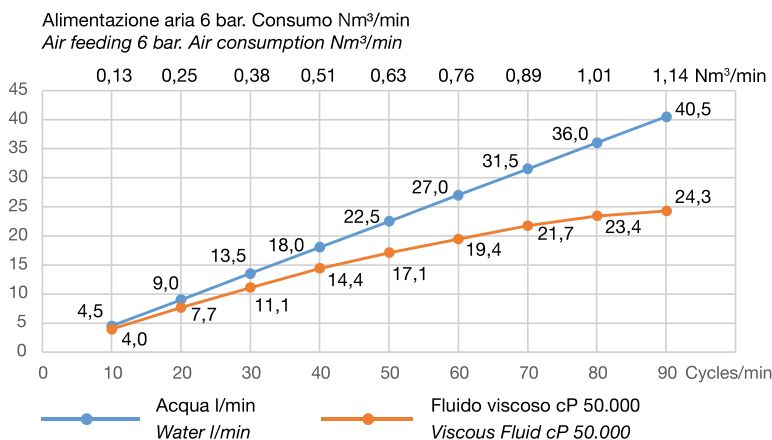
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## FIELD OF APPLICATION

It is a versatile and **powerful pump (4:1)** with **flow rate up to 32 l/min** (water) **good head** suitable for **high viscosity (from 50.000 to 100.000 cP)** making it one of the most popular. It is constructed in **AISI 316 Stainless steel**, and is therefore suitable for pumping **food and cosmetic products**. It is also often used in the chemical industry for moderately acidic or alkaline aggressive viscous products or for glues and adhesives, because it is easy to disassembly and clean.

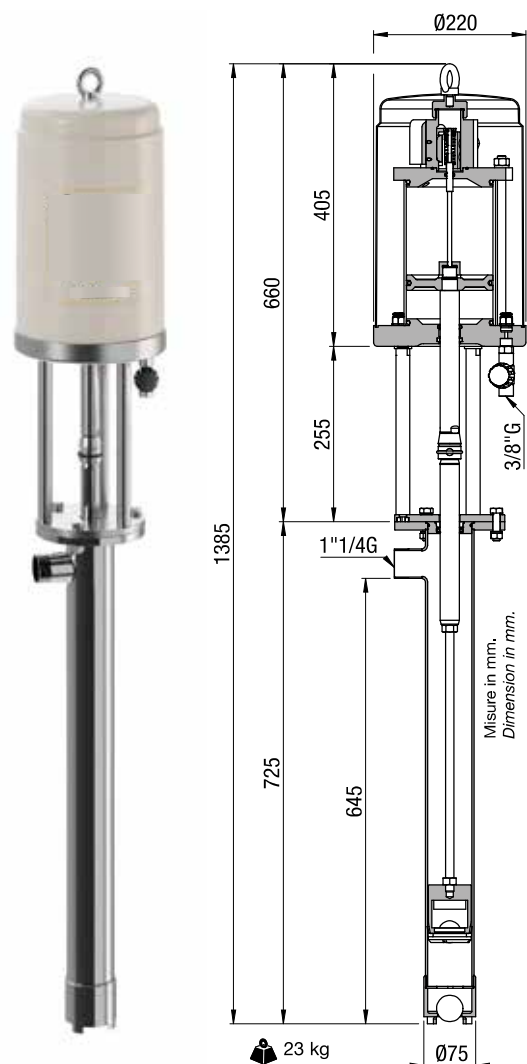
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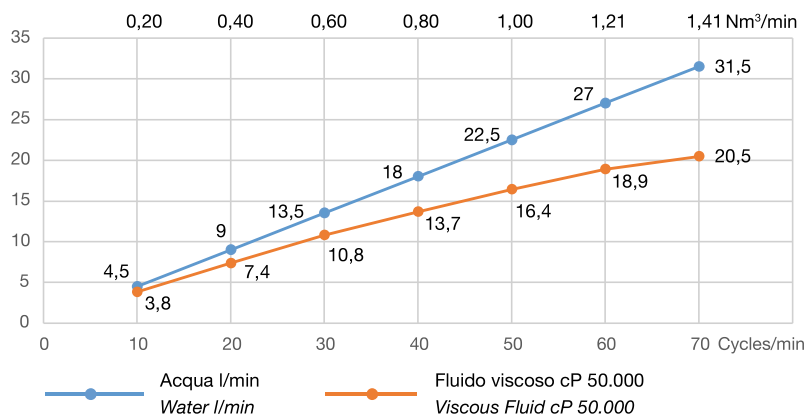
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## TECHNICAL DATA

Maximum cycles/minute	70 cycles/min
Air consumption at 70 cycles/min	1,41 Nm³/min - Power supply 6 bar (87 psi)
Delivery at 70 cycles/min	32 liters/min (Free flowing water)
Delivery per cycle	0,45 liters per Cycle (Free flowing water)
Ambient air temperature	0 °C at + 40 °C
Maximum fluid temperature	+ 85 °C
Fluid outlet	1"1/4 G (UNI ISO 228-1)
Compression ratio	4:1
Air inlet	3/8" G
Air pressure	up to 7 bar (100 psi)
Pump components	316 Stainless steel with parts in PTFE, UHMWPE, FKM, NBR FDA

Alimentazione aria 6 bar. Consumo Nm³/min  
Air feeding 6 bar. Air consumption Nm³/min



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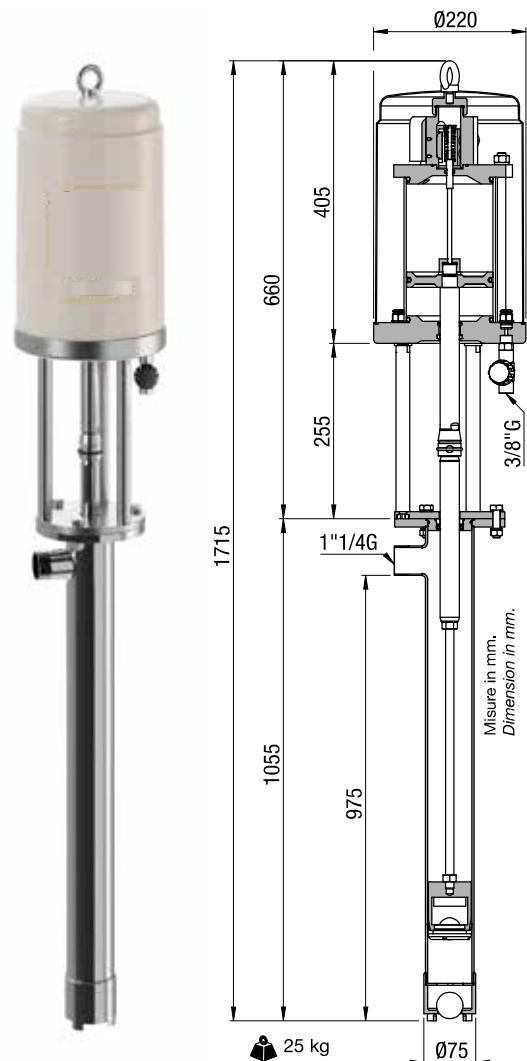
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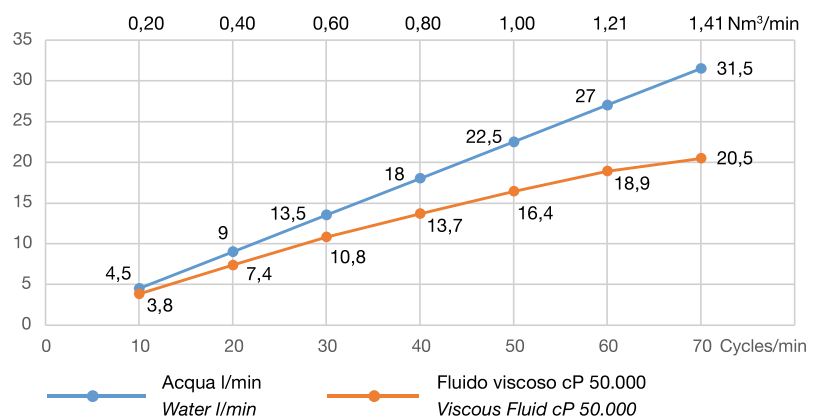
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Air inlet	3/8" G
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Alimentazione aria 6 bar. Consumo Nm³/min  
Air feeding 6 bar. Air consumption Nm³/min



## FIELD OF APPLICATION

It is a very versatile pump with good power (**3:1**) and **flow rate up to 50 l/min** (water). It is suitable for **medium/high viscosity (from 40.000 to 90.000 cP)**. It can withstand solid bodies in the fluid. It is constructed in **AISI 316 Stainless steel**, and is therefore suitable for pumping **food and cosmetic products**. It is also often used in the chemical industry for moderately acidic or alkaline aggressive viscous products or for glues and adhesives, because it is easy to disassembly and clean.

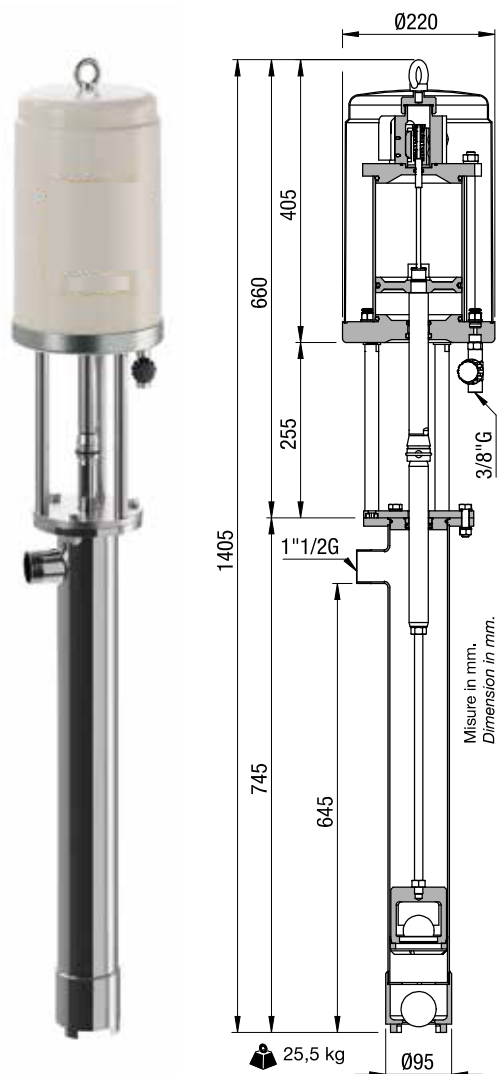
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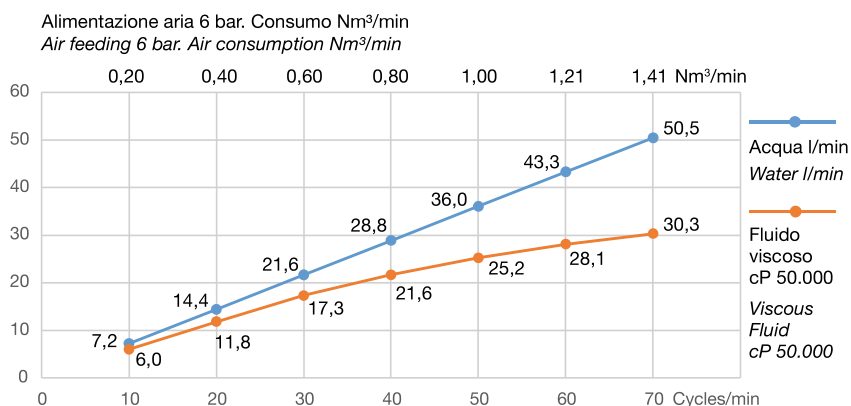
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## TECHNICAL DATA

Maximum cycles/minute	70 cycles/min
Air consumption at 70 cycles/min	1,41 Nm <sup>3</sup> /min - Power supply 6 bar (87 psi)
Delivery at 70 cycles/min	50 liters/min (Free flowing water)
Delivery per cycle	0,72 liters per Cycle (Free flowing water)
Ambient air temperature	0 °C at + 40 °C
Maximum fluid temperature	+ 85 °C
Fluid outlet	1"1/4 G (UNI ISO 228-1)
Compression ratio	3:1
Air inlet	3/8" G
Air pressure	up to 7 bar (100 psi)
Pump components	316 Stainless steel with parts in PTFE, UHMWPE, FKM, NBR FDA





## FIELD OF APPLICATION

It is a **very powerful pump (4:1)** suitable for food fluids of **medium and high viscosity (from 50.000 to 100.000 cP)**. It is the best choice for high viscosity and moderate flow rates, **dispensing up to 38 l/min** (water). It can withstand solid bodies in the fluid up to 7/8 mm. It is constructed in **AISI 316 Stainless steel**, and is therefore suitable for pumping **food and cosmetic** products. It is also often used in the chemical industry for moderately acidic or alkaline aggressive viscous products or for glues and adhesives, because it is easy to disassembly and clean.

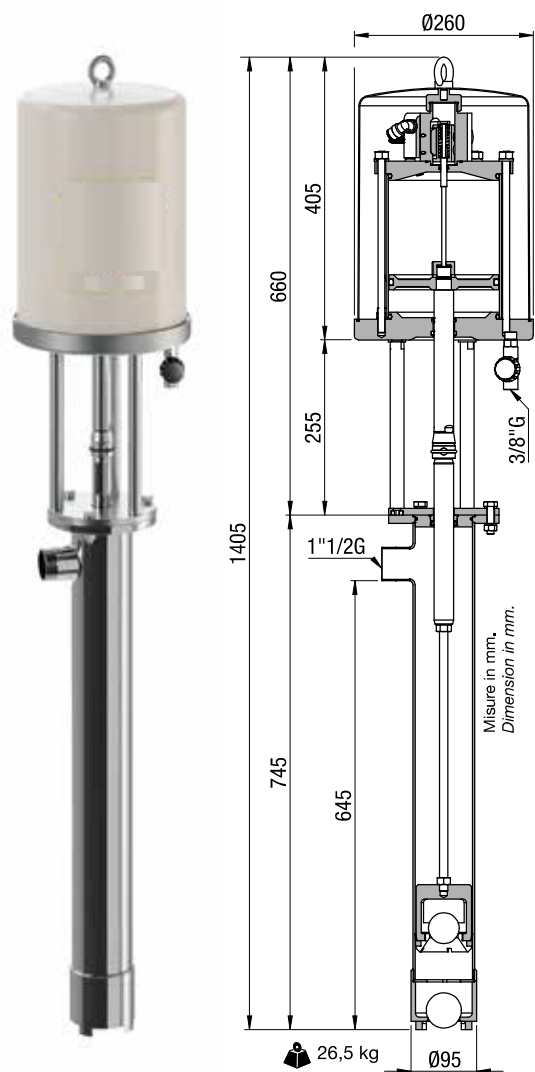
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## TECHNICAL DATA

Maximum cycles/minute	50 cycles/min
Air consumption at 50 cycles/min	1,66 Nm <sup>3</sup> / min - Power supply 6 bar (87 psi)
Delivery at 50 cycles/min	38 liters/min (Free flowing water)
Delivery per cycle	0,76 liters per Cycle (Free flowing water)
Ambient air temperature	0 °C at + 40 °C
Maximum fluid temperature	+ 85 °C
Fluid outlet	1"1/2 G (UNI ISO 228-1)
Compression ratio	4:1
Air inlet	3/8" G
Air pressure	up to 7 bar (100 psi)
Pump components	316 Stainless steel with parts in PTFE, UHMWPE, FKM, NBR FDA

Alimentazione aria 6 bar. Consumo Nm<sup>3</sup>/min  
Air feeding 6 bar. Air consumption Nm<sup>3</sup>/min

