



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.**



www.zp-arrow.com



**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**.

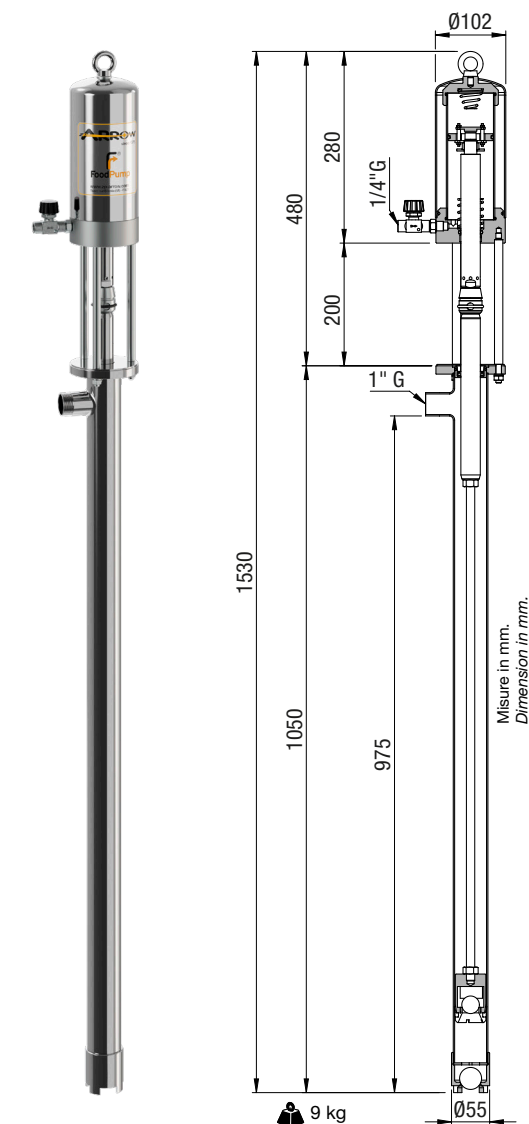
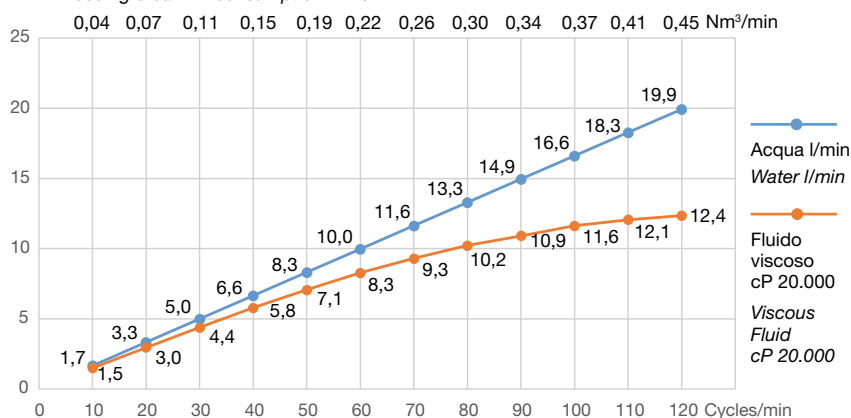
FEATURES OF THE MZ/FZ Food SERIES PUMPS

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 Nm ³ / 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

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



Z.P. ARROW s.r.l. via Giolitti 15 - 36056
Tezze sul Brenta (VI) Italia
www.zp-arrow.com - arrow@zp-arrow.com



MZ70/FZ50 Top.Eco 316 Stainless steel pump

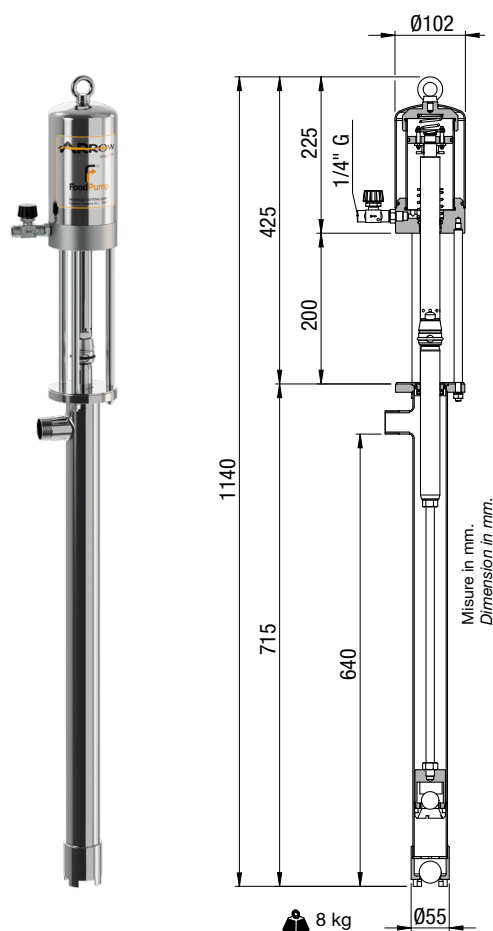


FIELD OF APPLICATION

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.

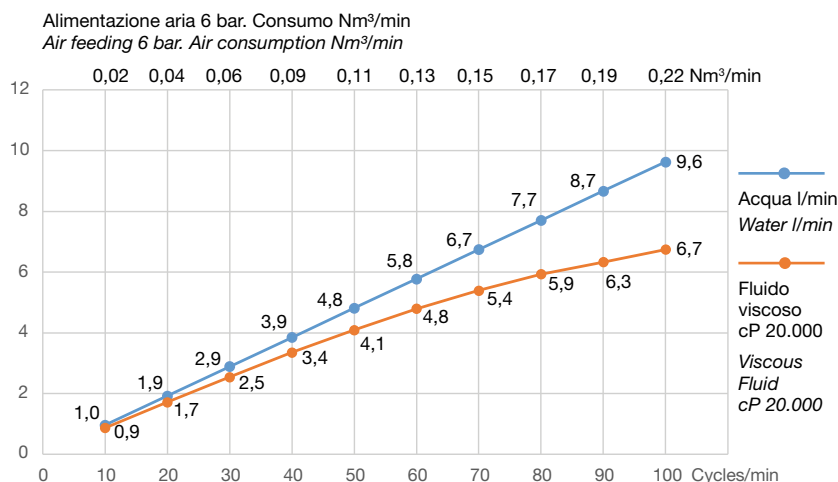
FEATURES OF THE MZ/FZ Food SERIES PUMPS

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**.



TECHNICAL DATA

Maximum cycles/minute	100 cycles/min
Air consumption at 100 cycles/min	0,22 Nm ³ / 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



MZ100/FZ70 316 Stainless steel pump



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.

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 **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**.

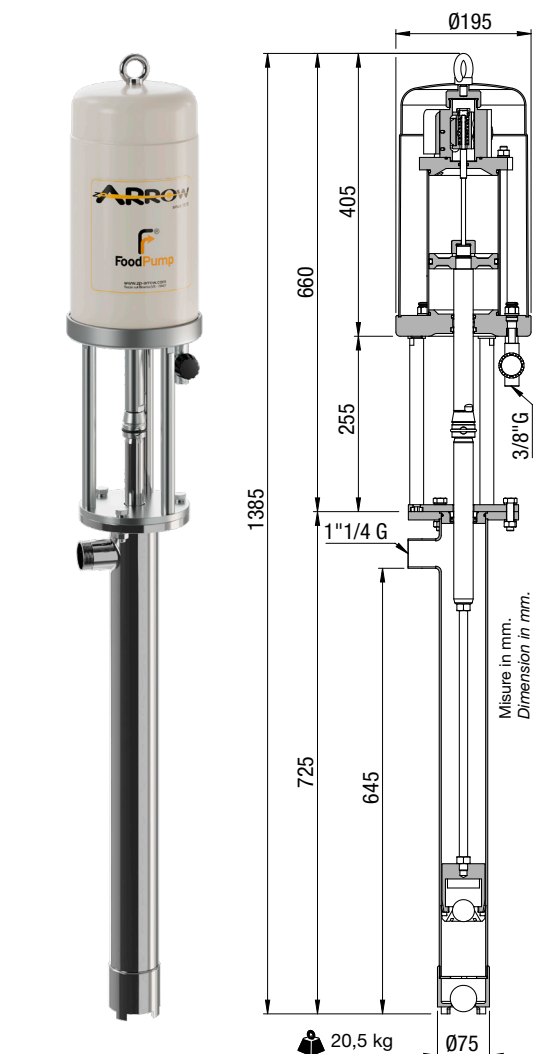
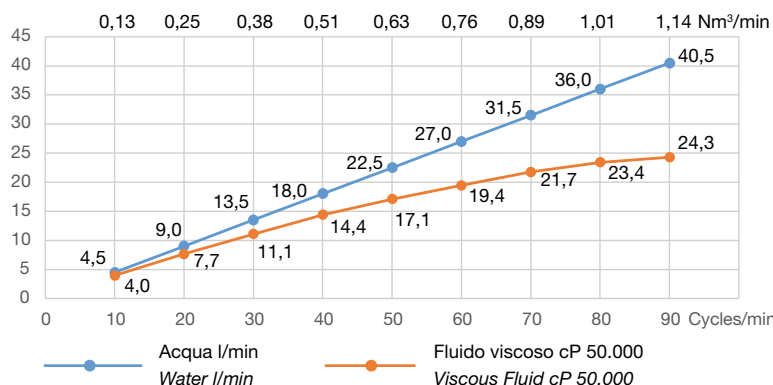
They are used by immersing the pumping piston in the fluid, or also outside of the product container. For the latter use, we can supply **Stainless steel fittings** and **flexible hoses** to connect the suction and the outlet. We can supply a **transport trolley**, or a **cushioned support for wall mounting**.

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 Nm ³ /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

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



Z.P. ARROW s.r.l. via Giolitti 15 - 36056
Tezze sul Brenta (VI) Italia
www.zp-arrow.com - arrow@zp-arrow.com



MZ100/FZ70L 316 Stainless steel pump



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.

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 **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**.

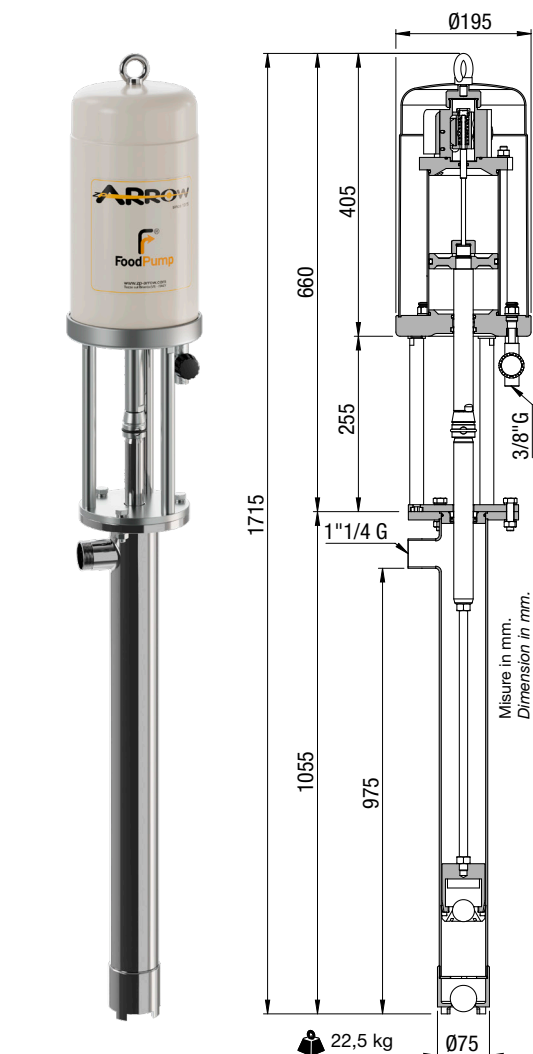
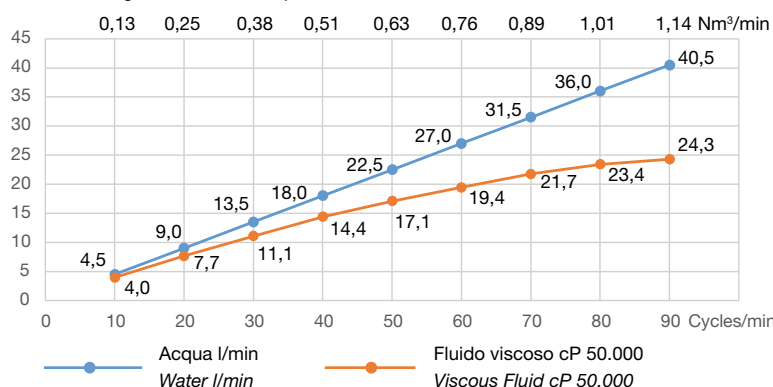
They are used by immersing the pumping piston in the fluid, or also outside of the product container. For the latter use, we can supply **Stainless steel fittings** and **flexible hoses** to connect the suction and the outlet. We can supply a **transport trolley**, or a **cushioned support for wall mounting**.

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 Nm ³ /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

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



Z.P. ARROW s.r.l. via Giolitti 15 - 36056
Tezze sul Brenta (VI) Italia
www.zp-arrow.com - arrow@zp-arrow.com



MZ125/FZ70 316 Stainless steel pump



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.

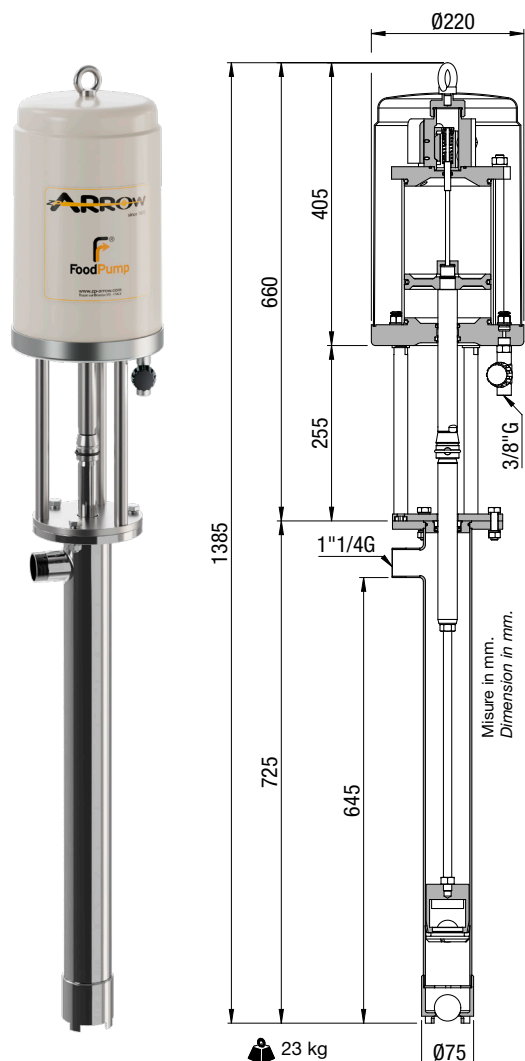
FEATURES OF THE MZ/FZ Food SERIES PUMPS

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 **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**.

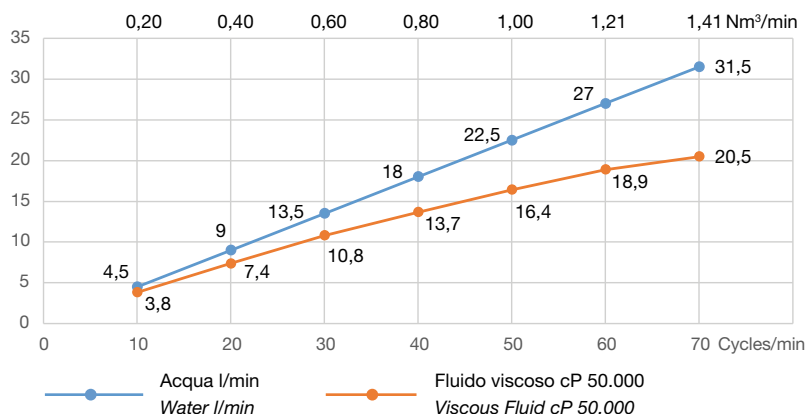
For efficient and safe use, we recommend our **pneumatic elevator on wheels or fixed on the ground**.



TECHNICAL DATA

Maximum cycles/minute	70 cycles/min
Air consumption at 70 cycles/min	1,41 Nm ³ /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



Z.P. ARROW s.r.l. via Giolitti 15 - 36056
Tezze sul Brenta (VI) Italia
www.zp-arrow.com - arrow@zp-arrow.com



MZ125/FZ70L 316 Stainless steel pump



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.

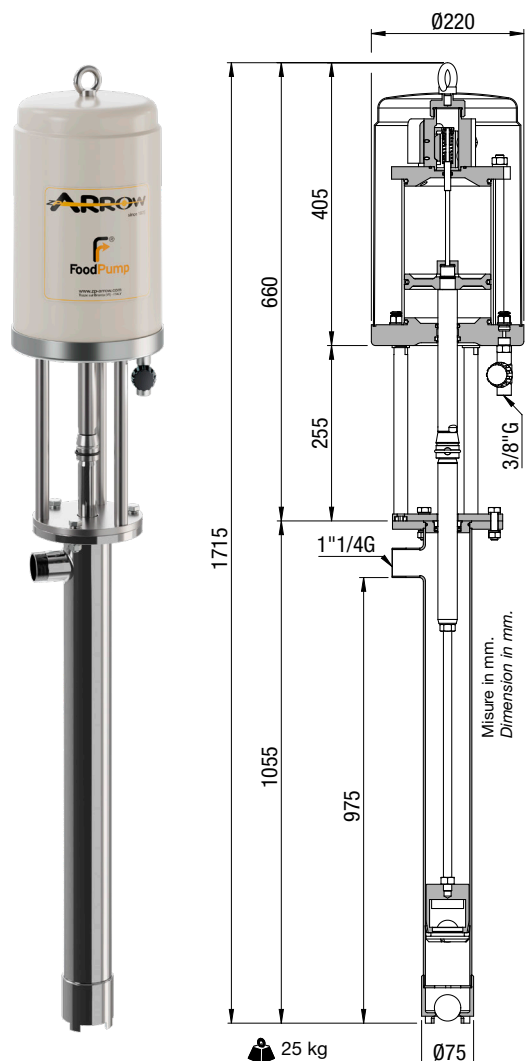
FEATURES OF THE MZ/FZ Food SERIES PUMPS

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 **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**.

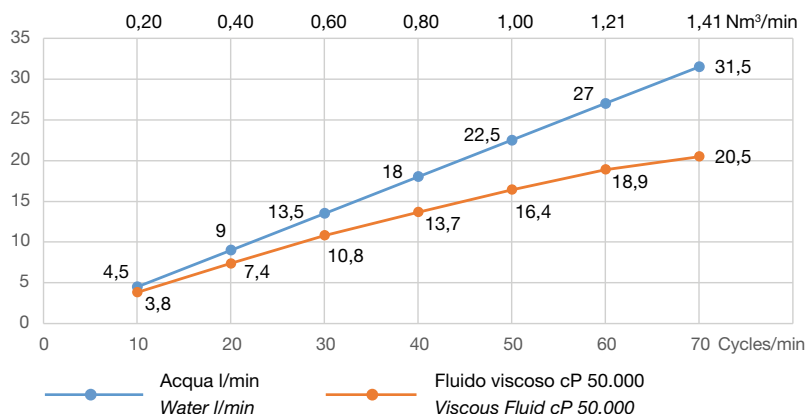
For efficient and safe use, we recommend our **pneumatic elevator on wheels or fixed on the ground**.



TECHNICAL DATA

Maximum cycles/minute	70 cycles/min
Air consumption at 70 cycles/min	1,41 Nm ³ /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



Z.P. ARROW s.r.l. via Giolitti 15 - 36056
Tezze sul Brenta (VI) Italia
www.zp-arrow.com - arrow@zp-arrow.com



MZ125/FZ8 316 Stainless steel pump



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.

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 **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**.

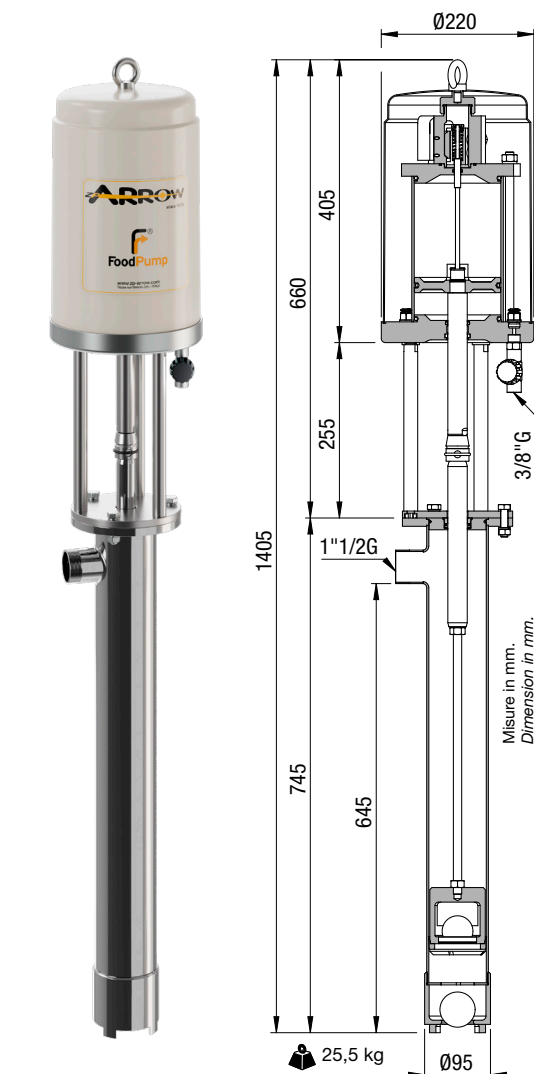
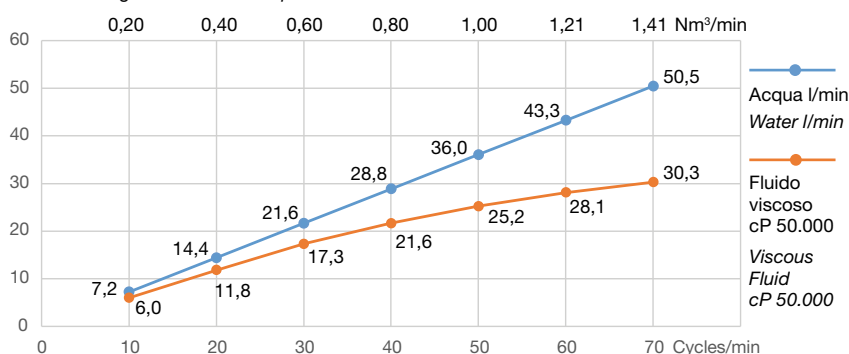
They are used by immersing the pumping piston in the fluid, or also outside of the product container. For the latter use, we can supply **Stainless steel fittings** and **flexible hoses** to connect the suction and the outlet. We can supply a **transport trolley**, or a **cushioned support for wall mounting**.

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

TECHNICAL DATA

Maximum cycles/minute	70 cycles/min
Air consumption at 70 cycles/min	1,41 Nm ³ /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

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



Z.P. ARROW s.r.l. via Giolitti 15 - 36056
Tezze sul Brenta (VI) Italia
www.zp-arrow.com - arrow@zp-arrow.com



MZ160/FZ89 316 Stainless steel pump



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.

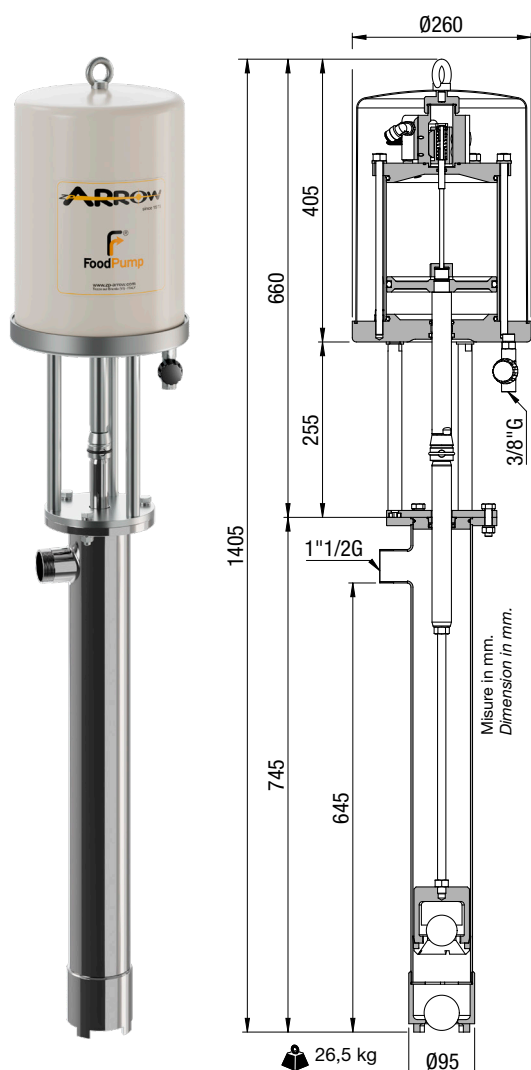
FEATURES OF THE MZ/FZ Food SERIES PUMPS

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 **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**.

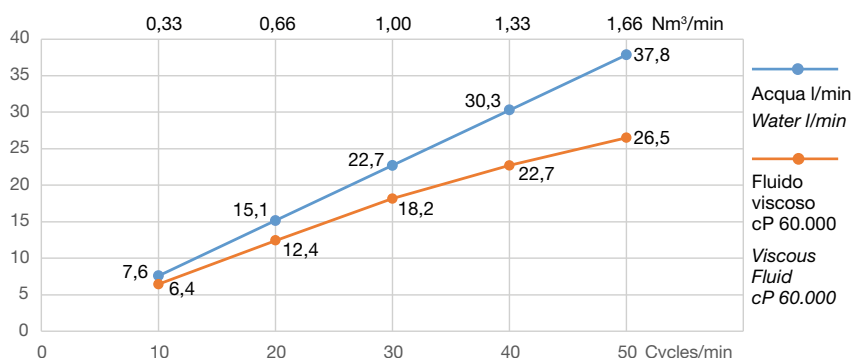
For efficient and safe use, we recommend our **pneumatic elevator on wheels or fixed on the ground**.



TECHNICAL DATA

Maximum cycles/minute	50 cycles/min
Air consumption at 50 cycles/min	1,66 Nm ³ /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 Nm³/min
Air feeding 6 bar. Air consumption Nm³/min



Z.P. ARROW s.r.l. via Giolitti 15 - 36056
Tezze sul Brenta (VI) Italia
www.zp-arrow.com - arrow@zp-arrow.com



360° SERVICE

THE CUSTOMER THE STARTING AND ENDING POINT

The perception of our Customers' operational needs has contributed to the success of our products. Constant interaction with our Italian and non-domestic customers is the foundation of our continuous growth. Communications are handled with zeal and passion by people who, by virtue of training and tradition, appreciate the importance of the Customer and seek true corporate progress.

QUICK DELIVERY

Standard pump models as well as replacement parts are always ready for delivery and shipped within 24 hours after acceptance of the order. We offer flexibility and the utmost receptiveness to customisation.

CUSTOMER SUPPORT AND REVISION

Customers are supported by an immediate-response telephone and computerised service and by a department specially equipped to recondition any of our pumps without delay at very competitive prices. All operations are subject to Customer approval.

TRACEABILITY

We guarantee the traceability of each pump and manufacturing process to provide greater user safety.



We will be happy to answer any questions you may have

arrow@zp-arrow.com



AZIENDA CON
SISTEMA DI GESTIONE QUALITA'
CERTIFICATO DA DNV
ISO 9001



since 1975

Z.P. ARROW s.r.l.

Via Giolitti, 15 - 36056 Tezze sul Brenta (VI) Italy

+39.0424.878080 - arrow@zp-arrow.com

www.zp-arrow.com

