



ANY VISCOUS  
PRODUCT

# IndustrialPump

PUMPS FOR VISCOUS LIQUID  
INDUSTRIAL AND CHEMICAL SECTOR

AISI 304 STAINLESS STEEL



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

**Effective and innovative  
mechanical seals.**



[www.zp-arrow.com](http://www.zp-arrow.com)



**OPERABILITY  
RELIABILITY  
ROBUSTNESS**

# MZ70/PZ50 Stainless steel pump



IndustrialPump

## 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 jugs with holes 2". It is suitable for **low to medium viscosity fluids (up to 40.000 cP)** and for **any viscous chemical product** compatible with **AISI 304 Stainless steel**.

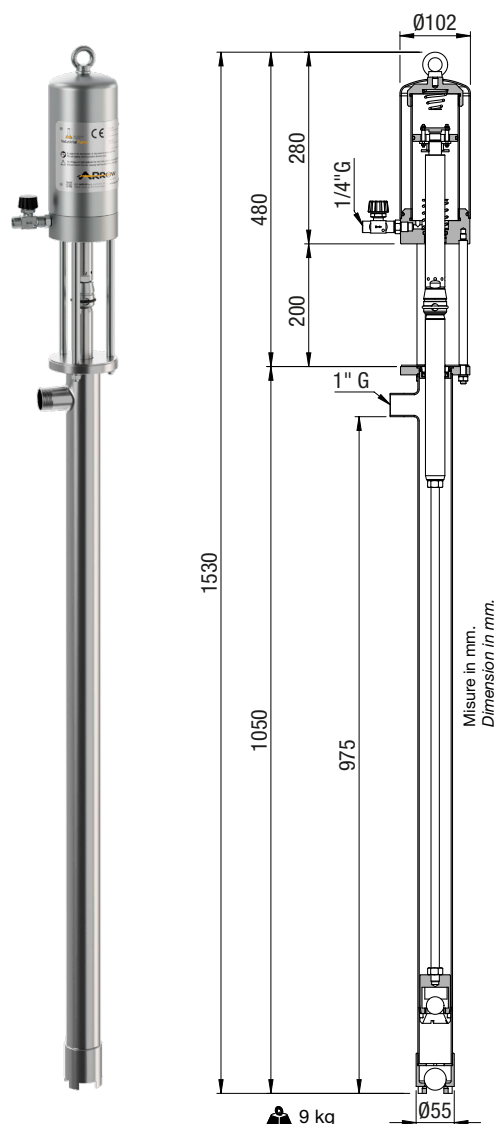
## FEATURES OF THE MZ/PZ SERIES PUMPS

These are **multi-use industrial pumps** with a brand new design. They have **adjustable flow and head**, are piston-based with alternative movement, and ball check valves designed for **viscous fluids**.

The part in contact with the product is entirely in **Stainless steel**, the seal gaskets are in **PTFE, FKM** and **UHMWPE** therefore **compatible with most chemical and polymeric products in emulsion and in water or solvent solutions**. 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**.

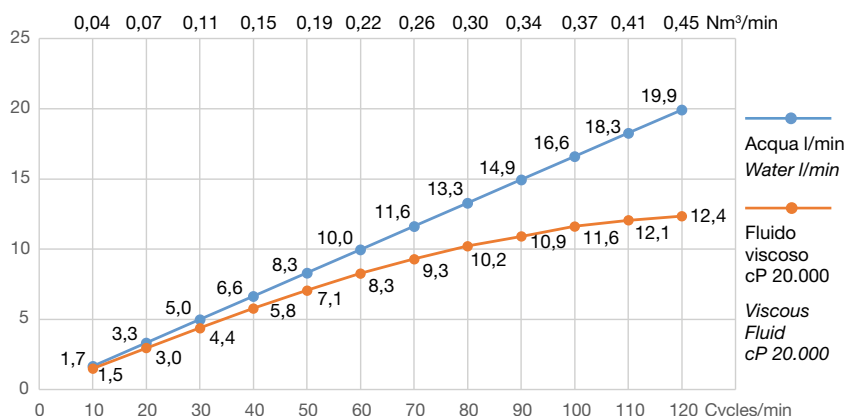
For efficient and safe use, we recommend our **pneumatic elevator on wheels or fixed on the ground**.



## TECHNICAL DATA

Maximum cycles/minute	120 cycles/min
Air consumption at 120 cycles/min	0,45 Nm <sup>3</sup> /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	304 Stainless steel with parts in PTFE, UHMWPE, FKM

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



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# MZ100/PZ50 Stainless steel pump



IndustrialPump

## FIELD OF APPLICATION

It is a very **powerful piston pump (5:1)** it has **variable flow rate**, up to **21 l/min** (water). It is suitable for fluids of **medium and high viscosity (from 30.000 to 60.000 cP)** and for **any viscous chemical product** compatible with **AISI 304 Stainless steel**. It also functions well with disposable filter bags at the pump outlet. **For these filter bags please contact ZP Arrow**.

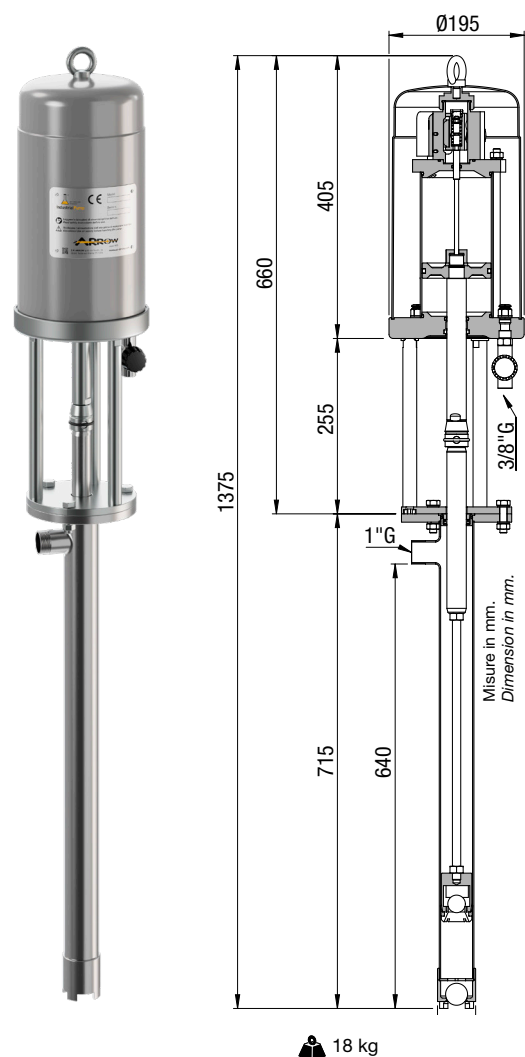
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The part in contact with the product is entirely in **Stainless steel**, the seal gaskets are in **PTFE, FKM** and **UHMWPE** therefore **compatible with most chemical and polymeric products in emulsion and in water or solvent solutions**. The **gasket 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 piston pump immersed in liquid. This therefore makes them **suitable for use in potentially explosive atmospheres**.

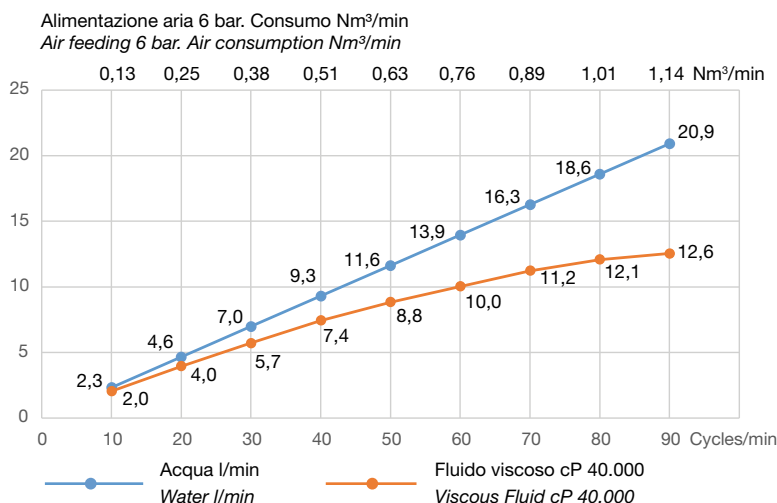
They are used by immersing the pumping piston in the fluid, or also outside of the product container. For the latter use, we can supply **Stainless steel fittings** and **flexible hoses** to connect the suction and the outlet. We can supply a **transport trolley**, or a **cushioned support for wall mounting**.

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



## TECHNICAL DATA

Maximum cycle/minute	90 cycles/min
Air consumption at 90 cycles/min	1,14 Nm <sup>3</sup> /min - Power supply 6 bar (87 psi)
Delivery at 90 cycles/min	21 liters/min (Free flowing water)
Delivery per cycle	0,232 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	5:1
Air inlet	3/8" G
Air pressure	up to 7 bar (100 psi)
Pump components	304 Stainless steel with parts in PTFE, UHMWPE, FKM



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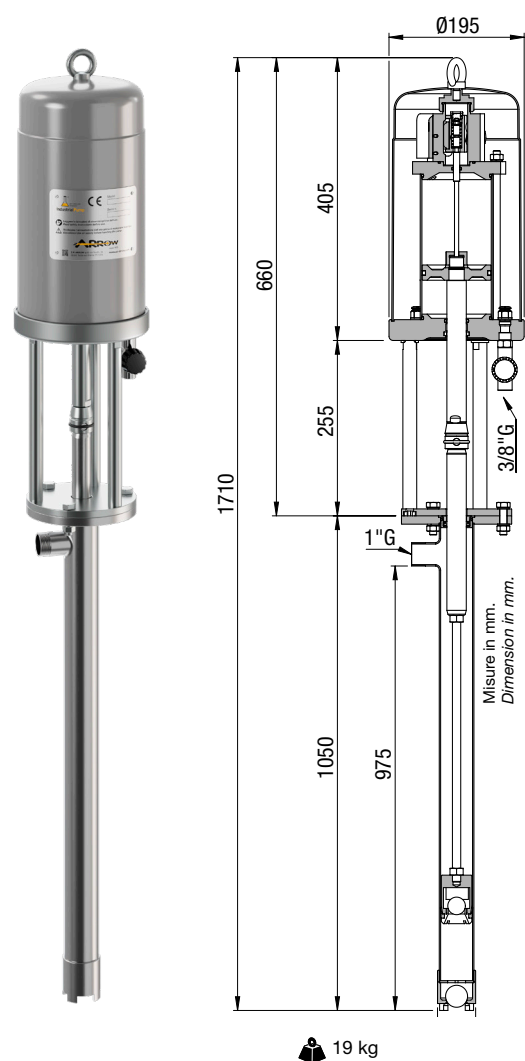
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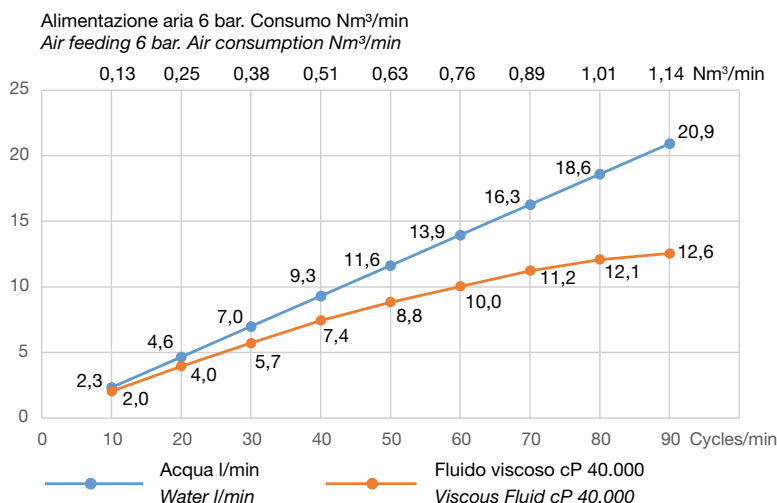
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Air inlet	3/8" G
Air pressure	up to 7 bar (100 psi)
Pump components	304 Stainless steel with parts in PTFE, UHMWPE, FKM



# MZ100/PZ70 Stainless steel pump



IndustrialPump

## 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 **viscous fluids (60/70.000 cP)**. It is suitable for different uses and is one of the most popular. It is suitable for **any viscous chemical product and fluid** compatible with **AISI 304 Stainless steel**.

## COMMON FEATURES OF THE MZ/PZ SERIES PUMPS

These are **multi-use industrial pumps** with a brand new design. They have **adjustable flow and head**, are piston-based with alternative movement, and ball check valves designed for **viscous fluids**.

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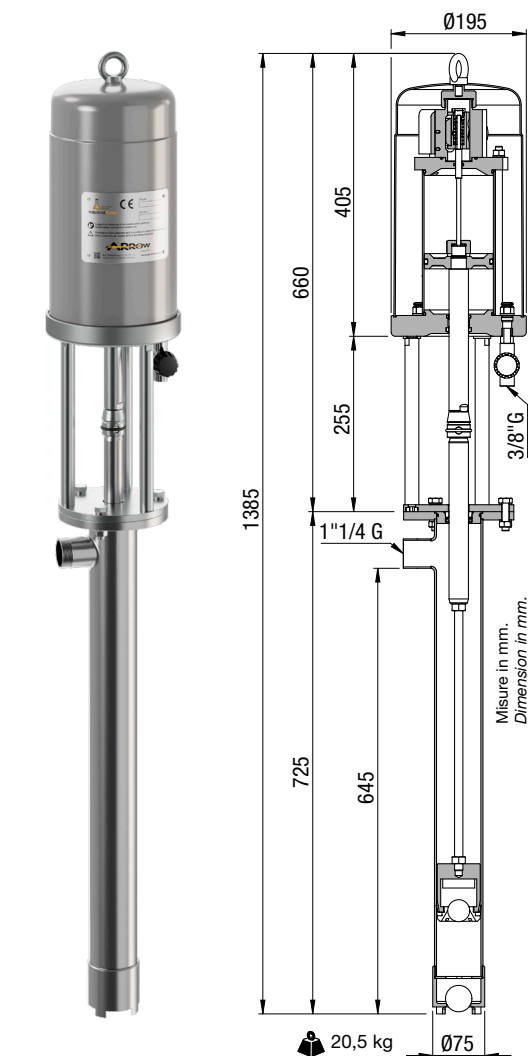
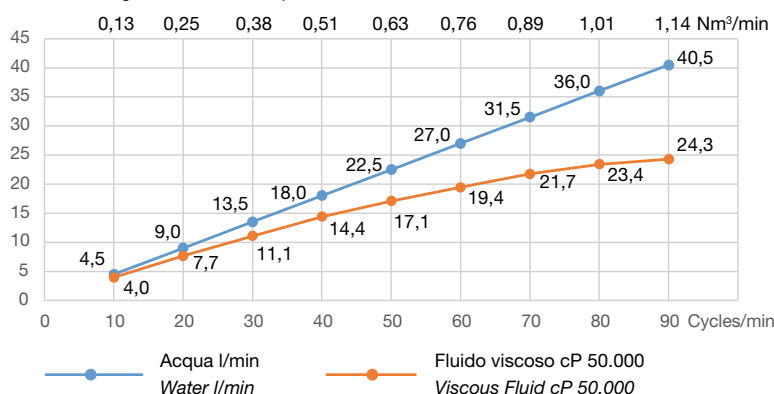
They are used by immersing the pumping piston in the fluid, or also outside of the product container. For the latter use, we can supply **Stainless steel fittings and flexible hoses** to connect the suction and the outlet. We can supply a **transport trolley**, or a **cushioned support for wall mounting**.

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 <sup>3</sup> /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	304 Stainless steel with parts in PTFE, UHMWPE, FKM

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



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# MZ100/PZ70L 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 **viscous fluids (60/70.000 cP)**. It is suitable for different uses and is one of the most popular. It is suitable for **any viscous chemical product and fluid** compatible with **AISI 304 Stainless steel**.

## COMMON FEATURES OF THE MZ/PZ SERIES PUMPS

These are **multi-use industrial pumps** with a brand new design. They have **adjustable flow and head**, are piston-based with alternative movement, and ball check valves designed for **viscous fluids**.

The part in contact with the product is entirely in **Stainless steel**, the seal gaskets are in **PTFE, FKM** and **UHMWPE** therefore **compatible with most chemical and polymeric products in emulsion and in water or solvent solutions**. 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 piston pump immersed in liquid. This therefore makes them **suitable for use in potentially explosive atmospheres**.

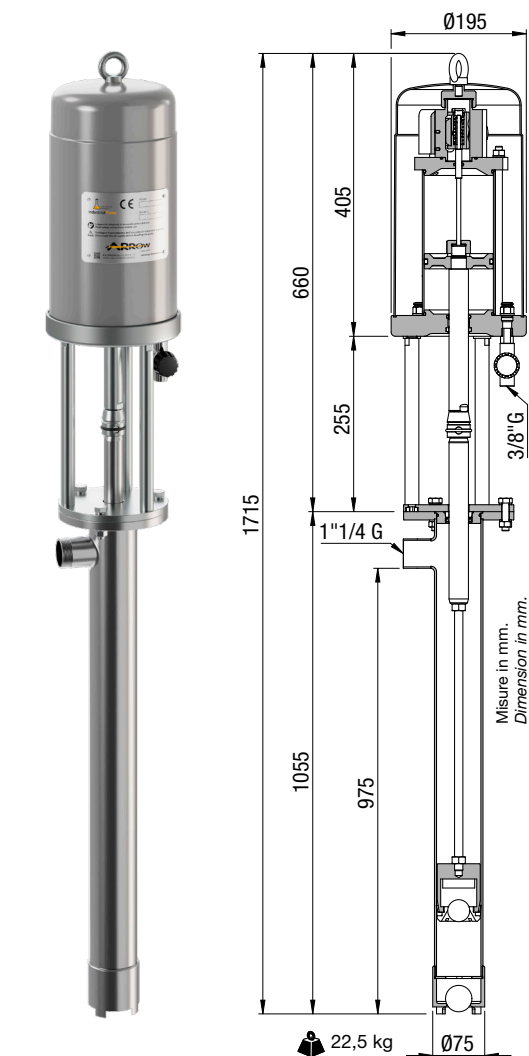
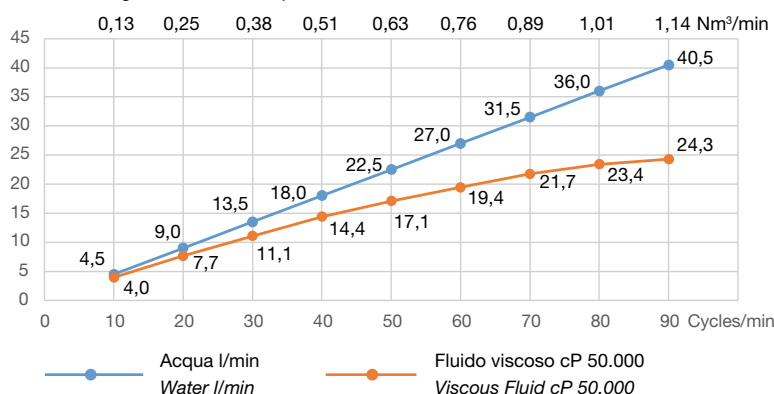
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Compression ratio	3:1
Air inlet	3/8" G
Air pressure	up to 7 bar (100 psi)
Pump components	304 Stainless steel with parts in PTFE, UHMWPE, FKM

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



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# MZ100/PZ89 Stainless steel pump



IndustrialPump

## FIELD OF APPLICATION

It is a versatile pump with **high flow, up to 68 l/min** (water), moderate air consumption and **discrete power (1,5:1)**. It is suitable for fluids of **medium/high viscosity (from 30.000 to 50.000 cP)** and for **any viscous chemical product** compatible with **AISI 304 Stainless steel**.

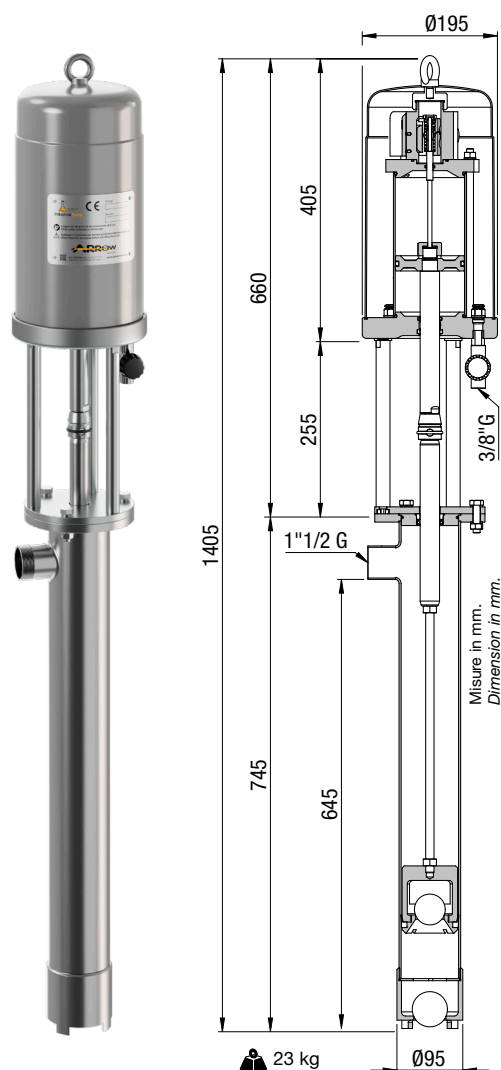
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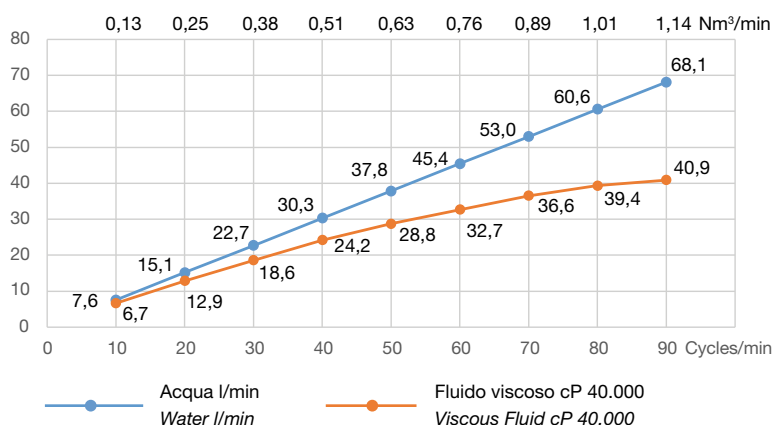
For efficient and safe use, we recommend our **pneumatic elevator on wheels or fixed on the ground**.



## TECHNICAL DATA

Maximum cycles/minute	90 cycles/min
Air consumption at 90 cycles/min	1,14 Nm <sup>3</sup> / min - Power supply 6 bar (87 psi)
Delivery at 90 cycles/min	68 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	1,5:1
Air inlet	3/8" G
Air pressure	up to 7 bar (100 psi)
Pump components	304 Stainless steel with parts in PTFE, UHMWPE, FKM

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



# MZ100/PZ89L Stainless steel pump



IndustrialPump

## FIELD OF APPLICATION

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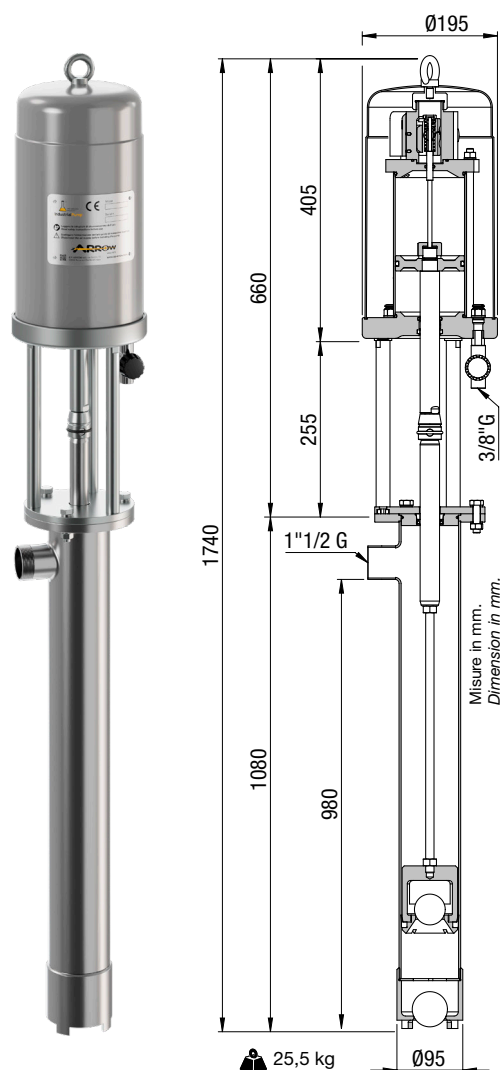
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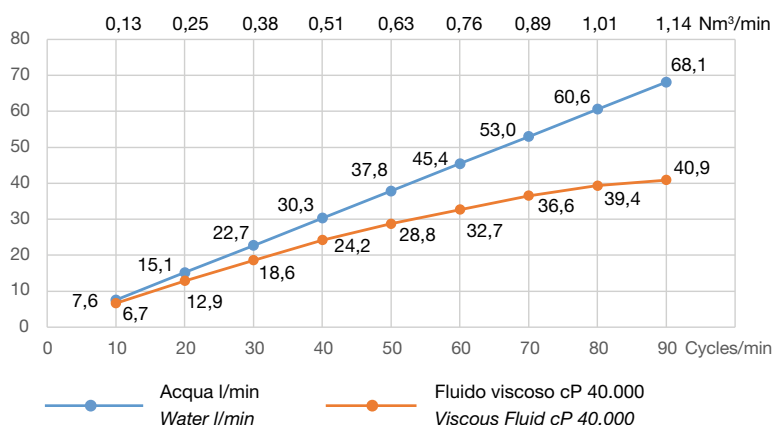
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Alimentazione aria 6 bar. Consumo Nm<sup>3</sup>/min  
Air feeding 6 bar. Air consumption Nm<sup>3</sup>/min





# MZ125/PZ70 Stainless steel pump



IndustrialPump

## FIELD OF APPLICATION

It is a versatile and **powerful pump (4:1)** with **flow 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, because it covers a wide range of viscosity. It is suitable for **any viscous chemical product and fluid** compatible with **AISI 304 Stainless steel**.

## FEATURES OF THE MZ/PZ SERIES PUMPS

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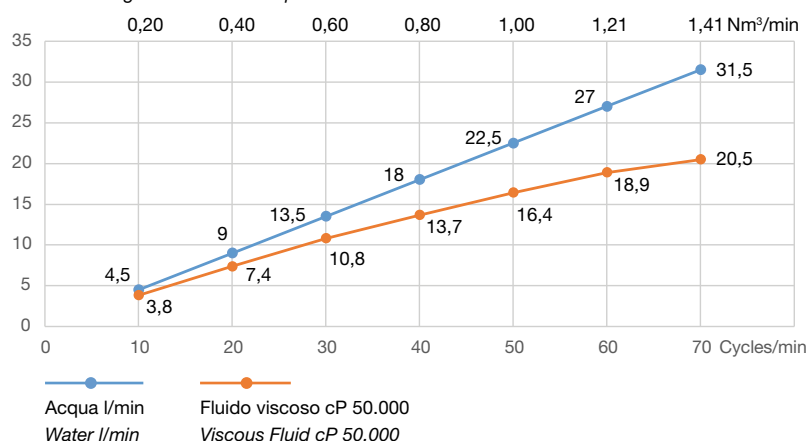
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For efficient and safe use, we recommend our **pneumatic elevator on wheels or fixed on the ground**.

## TECHNICAL DATA

Maximum cycles/minute	70 cycles/min
Air consumption at 70 cycles/min	1,41 Nm <sup>3</sup> /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	304 Stainless steel with parts in PTFE, UHMWPE, FKM

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



Acqua l/min  
Water l/min

Fluido viscoso cP 50.000  
Viscous Fluid cP 50.000



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# MZ125/PZ70L Stainless steel pump



IndustrialPump

## FIELD OF APPLICATION

It is a versatile and **powerful pump (4:1)** with **flow 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, because it covers a wide range of viscosity. It is suitable for **any viscous chemical product and fluid** compatible with **AISI 304 Stainless steel**.

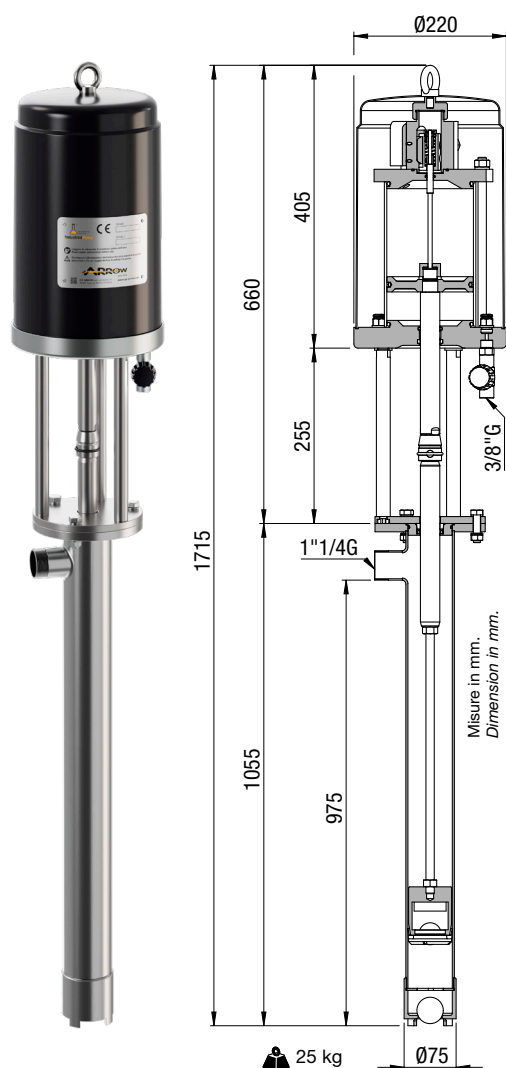
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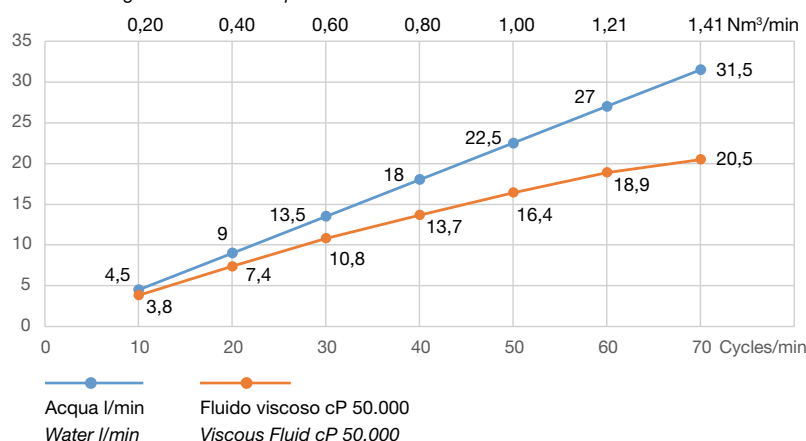
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Ambient air temperature	0 °C at + 40 °C
Maximum fluid temperature	+ 85 °C
Fluid outlet	1" 1/4 G (UNI ISO 228-1)
Compression ratio	4:1
Air inlet	3/8" G
Air pressure	up to 7 bar (100 psi)
Pump components	304 Stainless steel with parts in PTFE, UHMWPE, FKM

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



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# MZ125/PZ89 Stainless steel pump



IndustrialPump

## FIELD OF APPLICATION

It is a very versatile pump with **good power (3:1)** and **flow rate up to 51 l/min** (water). It is suitable for fluids of **medium/high viscosity (from 40.000 to 90.000 cP)** and for **any viscous chemical product** compatible with **AISI 304 Stainless steel**. It covers a wide range of uses where power, flow, and management of medium/high viscosity are required.

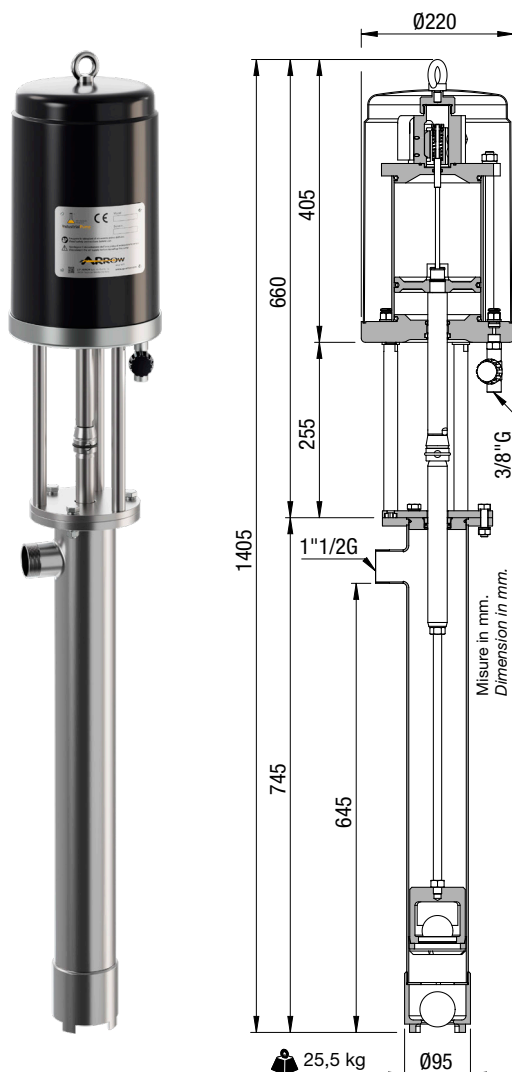
## FEATURES OF THE MZ/PZ SERIES PUMPS

These are **multi-use industrial pumps** with a brand new design. They have **adjustable flow and head**, are piston-based with alternative movement, and ball check valves designed for **viscous fluids**.

The part in contact with the product is entirely in **Stainless steel**, the seal gaskets are in **PTFE, FKM** and **UHMWPE** therefore **compatible with most chemical and polymeric products in emulsion and in water or solvent solutions**. 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**.

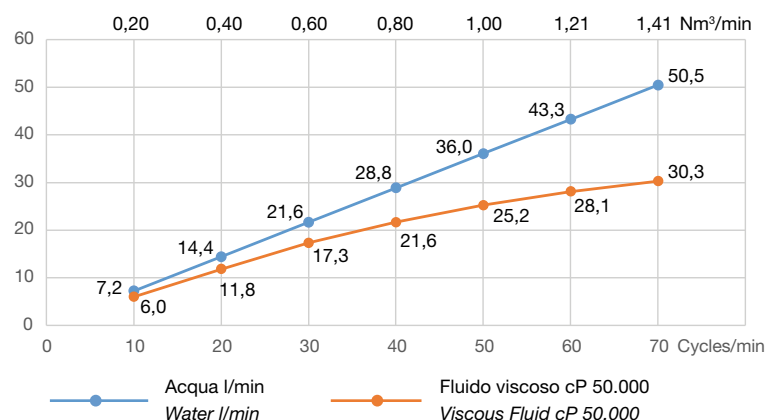
For efficient and safe use, we recommend our **pneumatic elevator on wheels or fixed on the ground**.



## TECHNICAL DATA

Maximum cycles/minute	70 cycles/min
Air consumption at 70 cycles/min	1,41 Nm <sup>3</sup> /min - Power supply 6 bar (87 psi)
Delivery at 70 cycles/min	51 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" 1/2 G (UNI ISO 228-1)
Compression ratio	3:1
Air inlet	3/8" G
Air pressure	up to 7 bar (100 psi)
Pump components	304 Stainless steel with parts in PTFE, UHMWPE, FKM

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



Z.P. ARROW s.r.l. via Giolitti 15 - 36056  
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# MZ125/PZ89L Stainless steel pump



IndustrialPump

## FIELD OF APPLICATION

It is a very versatile pump with **good power (3:1)** and **flow rate up to 51 l/min** (water). It is suitable for fluids of **medium/high viscosity (from 40.000 to 90.000 cP)** and for **any viscous chemical product** compatible with **AISI 304 Stainless steel**. It covers a wide range of uses where power, flow, and management of medium/high viscosity are required.

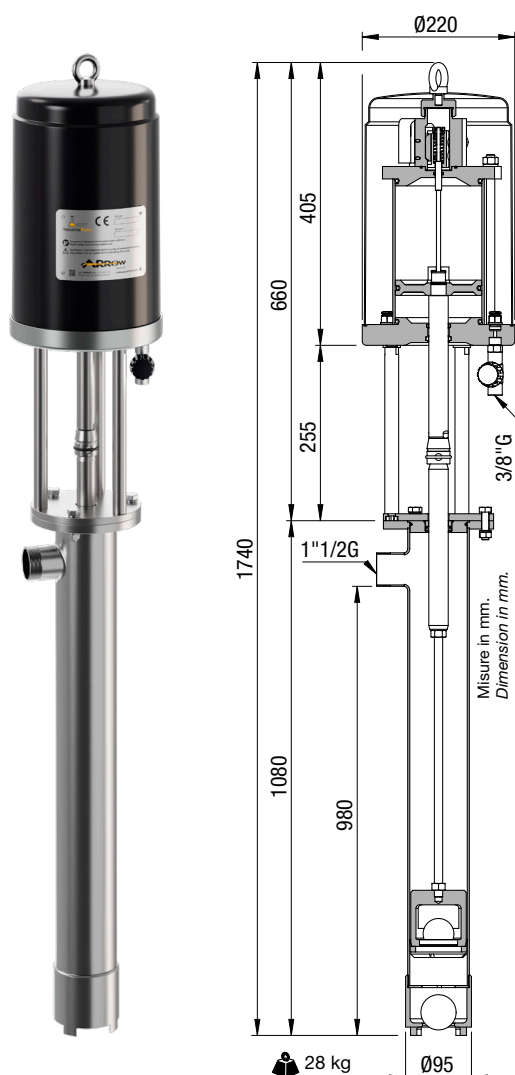
## FEATURES OF THE MZ/PZ SERIES PUMPS

These are **multi-use industrial pumps** with a brand new design. They have **adjustable flow and head**, are piston-based with alternative movement, and ball check valves designed for **viscous fluids**.

The part in contact with the product is entirely in **Stainless steel**, the seal gaskets are in **PTFE, FKM** and **UHMWPE** therefore **compatible with most chemical and polymeric products in emulsion and in water or solvent solutions**. 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**.

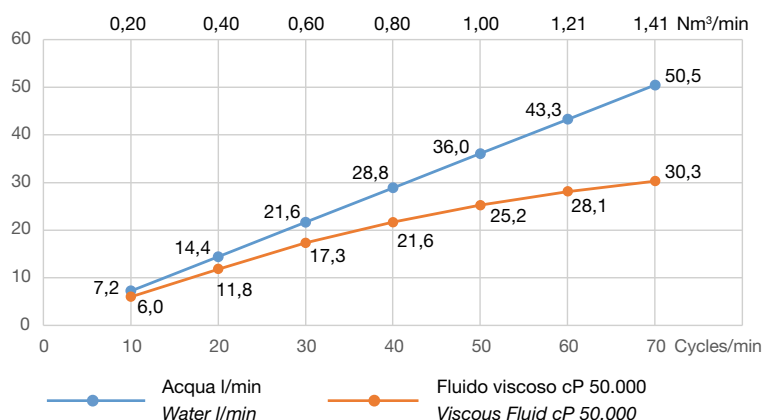
For efficient and safe use, we recommend our **pneumatic elevator on wheels or fixed on the ground**.



## TECHNICAL DATA

Maximum cycles/minute	70 cycles/min
Air consumption at 70 cycles/min	1,41 Nm <sup>3</sup> /min - Power supply 6 bar (87 psi)
Delivery at 70 cycles/min	51 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" 1/2 G (UNI ISO 228-1)
Compression ratio	3:1
Air inlet	3/8" G
Air pressure	up to 7 bar (100 psi)
Pump components	304 Stainless steel with parts in PTFE, UHMWPE, FKM

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



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# MZ160/PZ89 Stainless steel pump



IndustrialPump

## FIELD OF APPLICATION

It is a **very powerful pump (4:1)**, it can pump **high viscosity fluids (from 50.000 to 100.000 cP)**. It is the best choice for high viscosity and moderate flows, **dispensing up to 38 l/min (water)**. It is suitable for **any viscous chemical product and fluid** compatible with **AISI 304 Stainless steel**.

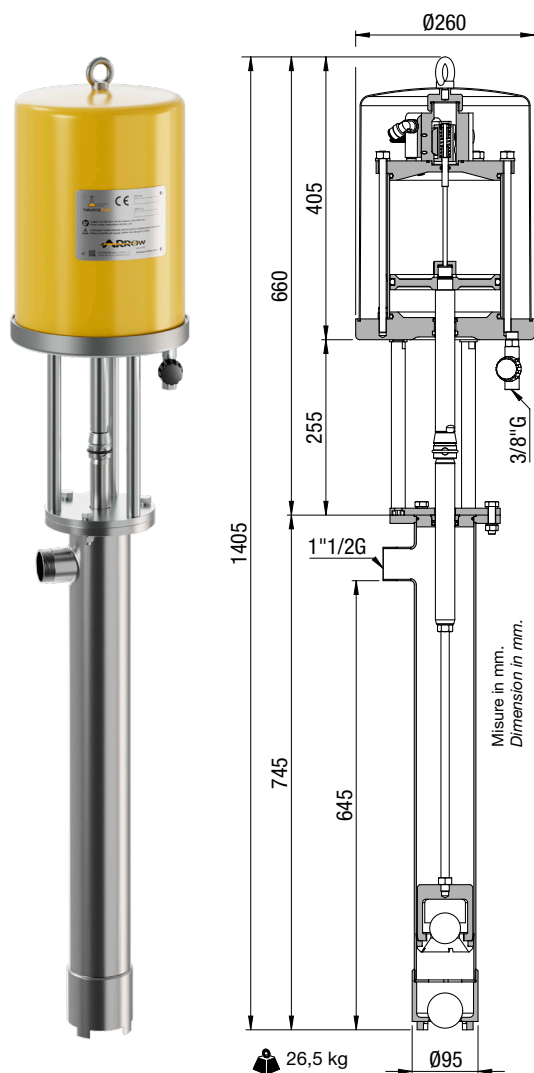
## FEATURES OF THE MZ/PZ SERIES PUMPS

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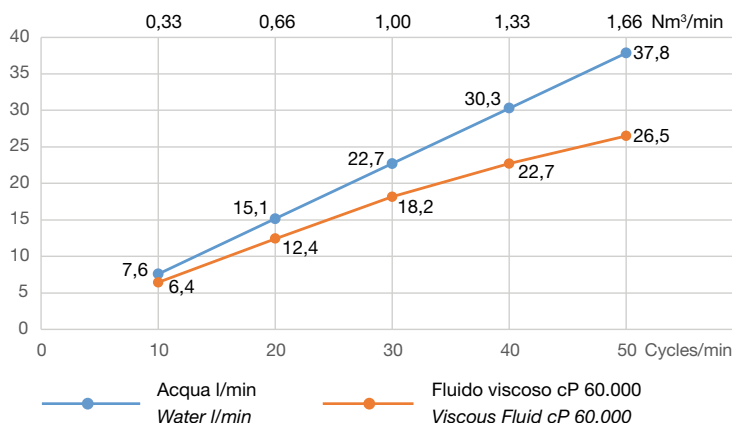
For efficient and safe use, we recommend our **pneumatic elevator on wheels or fixed on the ground**.



## TECHNICAL DATA

Maximum cycles/minute	50 cycles/min
Air consumption at 50 cycles/min	1,66 Nm <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	304 Stainless steel with parts in PTFE, UHMWPE, FKM

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





# MZ160/PZ89L Stainless steel pump



IndustrialPump

## FIELD OF APPLICATION

It is a **very powerful pump (4:1)**, it can pump **high viscosity fluids (from 50.000 to 100.000 cP)**. It is the best choice for high viscosity and moderate flows, **dispensing up to 38 l/min (water)**. It is suitable for **any viscous chemical product and fluid** compatible with **AISI 304 Stainless steel**.

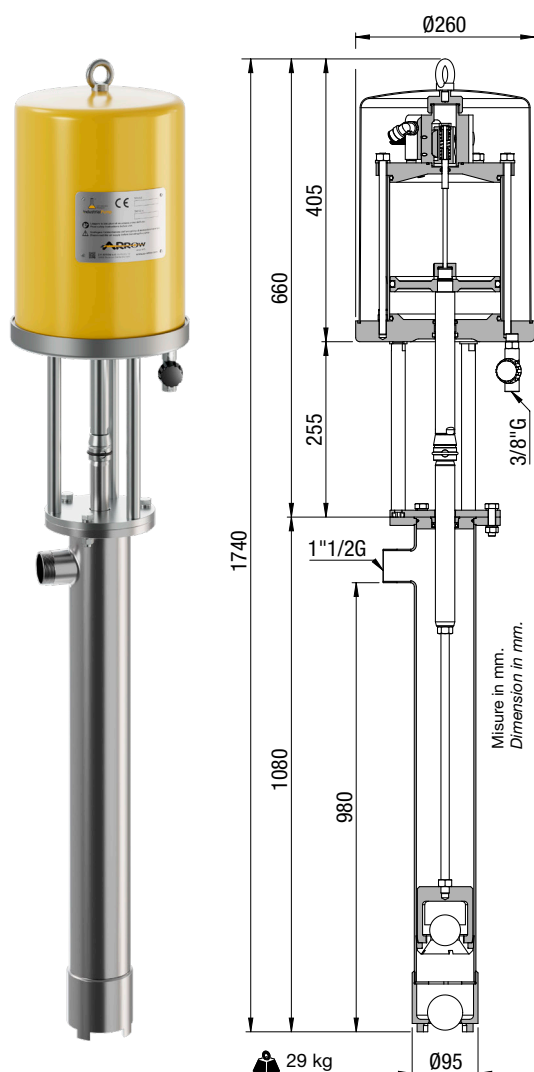
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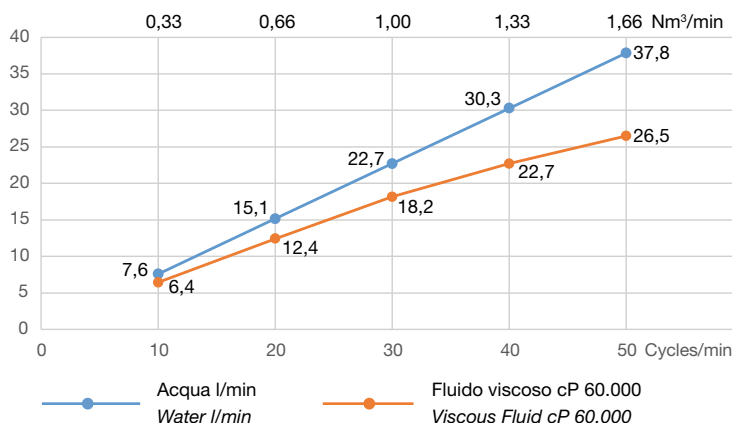
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Pump components	304 Stainless steel with parts in PTFE, UHMWPE, FKM

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



# 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](mailto:arrow@zp-arrow.com)



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SISTEMA DI GESTIONE QUALITA'  
CERTIFICATO DA DNV  
ISO 9001



since 1975

**Z.P. ARROW s.r.l.**

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