

TACMINA

Products Catalog

www.tacmina.com



We make pumps

For 50 years, **TACMINA** has specialized in manufacturing diaphragm metering pumps, and water treatment, disinfection, and process equipment systems.

The products we make are in active use worldwide in a wide range of leading-edge fields of industry – chemical plants, pharmaceuticals and food production processes, energy and environmental conservation, disinfection and water treatment – for the injection and transfer of hazardous chemicals, high-viscosity liquids, liquids containing slurry, and hot liquids.

Responding to all kinds of liquid control needs through highly-skilled personnel and creative technology. This is our on-going commitment in making pumps – **TACMINA**

Main Fields of TACMINA Product Application

Chemical industry: Transfer/feed of raw materials, injection of additives

Food industry: Drink production processes, transfer of food raw materials, injection of additives

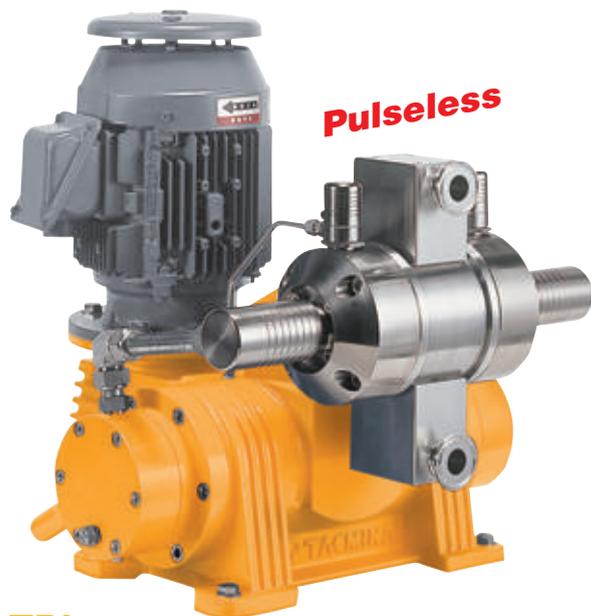
Semiconductor processes: CMP process, feed and circulation of EL chemicals

Precision painting: Films for FPDs and LCDs, production of photographic film and magnetic tape

Water treatment/disinfection: Industrial waste water and sewage treatment, disinfection of city water/swimming pools/spas

Boilers/air-conditioning: Injection of boiler chemicals, deoxidants, air-conditioning chemicals, and algicides

Reproducibility of $\pm 0.1\%$ or less,
pulsation rate of $\pm 1\%$ or less!



TPL

Hydraulic Diaphragm Type

High-spec model designed for maximum precision
[Max. discharge volume] 100 mL/min to 30 L/min



PL

Hydraulic Diaphragm/ Hydraulic Double-diaphragm Type

High-performance model capable of
continuous high-pressure and high-
precision injection
[Max. discharge volume]
230 mL/min to 24.8 L/min



PL

Direct-driven Diaphragm/ Direct-driven Double-diaphragm Type

Standard model with excellent
durability
[Max. discharge volume]
240 mL/min to 13.2 L/min



PL

Plunger Type

Capable of high-precision injection
of even small amounts and high-
pressure injection of liquids
[Max. discharge volume]
11 mL/min to 25.8 L/min



APL

Direct-driven Diaphragm Type

Equipped with a diagonal diaphragm
that contributes to the downsizing
of the pump without losing its high
capacity.

[Max. discharge volume]
5.5 L/min to 47 L/min



APLS

Direct-driven Diaphragm Type

Compatible with hazard analysis critical
point (HACPP) systems. Conforms to
sanitary specifications, and ensures
ease of disassembly and cleaning.

[Max. discharge volume]
1.1 L/min to 47 L/min



Handy Unit Type

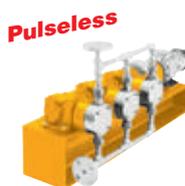
Thanks to the integrated hopper
and control panel, you are free from
troublesome wiring and piping work.
Rearrangement of the line and
maintenance is also made easier
as the unit is very easy to clean.

Trolley Type

The trolley type unit with casters
can be easily moved for installation
at different sites and easily integrated
into other equipment.



※Specifications can be changed as required to suit customer specifications.
For details, contact TACMINA.



PL

Triplex Type

Pulseless on both
discharge and suction
sides



CMPL

Direct-driven Diaphragm Type

Long-life diaphragm (6 months or longer) for 24-
hour continuous operation. Oil-free and sealed
structure prevents unexpected intrusion of oil.

[Max. discharge volume]
50 mL/min to 440 mL/min

Metering Pumps for Processes and General Applications

* The indicated maximum discharge volume shows the value per pump head.

Simple & Durable



S·Z·R

Direct-driven Diaphragm Type

The simple mechanisms on this pump make maintenance easier. It is also highly resistant to corrosion, which allows it to be used in a wide range of applications. [Max. discharge volume] 30 mL/min to 43 L/min*

Direct-driven Double-diaphragm Type

The durability and safety of this pump have been enhanced for the transfer of highly corrosive liquids. [Max. discharge volume] 30 mL/min to 43 L/min*

Hydraulic Diaphragm Type

With its relief function for protecting the pump, this pump can transfer even hazardous liquids without allowing them to contact air. [Max. discharge volume] 97 mL/min to 10.3 L/min*

Hydraulic Double-diaphragm Type

This enhanced hydraulic diaphragm pump can discharge slurry and high-viscosity chemicals at high pressure. [Max. discharge volume] 97 mL/min to 10.3 L/min*

Plunger Type

This pump is capable of high-precision and high-pressure metered injection, and is not affected by pressure fluctuations. [Max. discharge volume] 4 mL/min to 10.7 L/min*

Compact



CSII

Direct-driven Diaphragm Type

An easy-to-use, tough and safe pump in a stylish design with minimal dead space. [Max. discharge volume] 10 mL/min to 1 L/min

With a built-in flow meter

MDiA

Direct-driven Diaphragm Type

Constantly monitors actual discharge volume and automatically corrects the discharge volume to the target value. [Max. discharge volume] 240 mL/min to 7 L/min



Metering Pumps for Special Applications



Sanitary Type

Made in a seal-free and hygienic liquid-end structure



Remote Head Type

Conduction of heat between pump and chemical is minimized. Also, radiator fan or insulation jacket can be installed.



T-branch Remote Head Type

No contact between slurry and diaphragm, which securely protects the pump. Transferred liquid also is not affected.



Multiplex Type

For the proportional injection of many liquids and synchronous injection to many lines



Combination Type

For proportional synchronous injection of many liquids

Related Products

Optional Products



Electric Servo and Digital Servo Controller



Inverter



Leak Monitor



Pulse Sensor



Head with Relief Valve

Solenoid-driven Metering Pumps



PZiG

Large capacity and high-pressure injection are achieved. It also provides complete and various control configurations, simplifying your system and drastically reducing overall costs.
[Max. discharge volume]
 340 mL/min to 1300 mL/min



PZi

This intelligent pump has a multi-function to support ex-tensive automatic control.
[Max. discharge volume]
 30 mL/min to 540 mL/min



PZ

Universal Standard Model that supports a wide power supply specification also available on the PVDF lineup.
[Max. discharge volume]
 30 mL/min to 100 mL/min



PZD

Discharge volume can be set in three ways: flow rate, stroke speed and percentage.
[Max. discharge volume]
 30 mL/min to 540 mL/min



With a built-in flow meter

PZiA

Constantly monitors actual discharge volume and automatically corrects the discharge volume to the target value.
[Max. discharge volume]
 30 mL/min to 100 mL/min



PTU

Metering pump and chemical tank are integrated. Just connect power supply and piping, and the unit is ready for operation.
[Tank capacity]
 25 to 100 L

※ Photo shows 25L capacity unit.

Metering Pumps for Disinfection

Anti-Gas Locking



GLX

Gas-lockless Type

This pump thoroughly eliminates the factors causing gas locking. It also can be easily installed on existing tanks, and accepts a wide voltage range as well.
[Max. discharge volume]
 0.012 mL/min to 390 mL/min



AR Type

Auto Air-release Type

CL type with automatic air-release mechanism
[Max. discharge volume]
 30 mL/min to 93 mL/min

※ Photo shows ARPZ.



CL Type

Chlorine Sterilization Type

Solenoid-driven metering pump with further improved pump efficiency for countering gas lock.

※ Photo shows PZD-CL.

Related and Optional Products



Parts Kit



Discharge Volume Checker



Flow Indicator



Hose Flange



Relief Valve



Back Pressure Valve

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