# **TACMINA**

**Products Catalog** 



# **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

# Smooth flow Pumps

# Reproducability of $\pm 0.1\%$ or less, pulsation rate of ±1% or less!



# Hydraulic Diaphragm Type

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



# Hydraulic Diaphragm/ Hydraulic Double-diaphragm Type

High-performance model capable of continuous high-pressure and highprecision injection

[Max. discharge volume] 230 mL/min to 24.8 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.



# Pulseless

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

Standard model with excellent durability

[Max. discharge volume] 240 mL/min to 13.2 L/min



# **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.



# **Plunger Type**

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



# **Triplex Type**

Pulseless on both discharge and suction sides



# **CMPL**

## **Direct-driven Diaphragm Type**

Long-life diaphragm (6 months or longer) for 24hour 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.



## **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 highviscosity 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\*



**Direct-driven Diaphragm Type** 

An easy-to-use, tough and safe pumpinastylishdesignwith 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 liquidend 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** 

Nocontactbetweenslurryand diaphragm, which securely protects the pump.

Transferred liquid also is not affected.



**Multiplex Type** 

**Optional Products** 

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



**Combination Type** 

For proportional synchronous injection of many liquids

# Related Products



**Electric Servo and Digital Servo Controller** 



Inverter



**Leak Monitor** 



Pulse Sensor



**Head with Relief Valve** 

# **Solenoid-driven Metering Pumps**



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



# **P7**

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



# 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

# **TACMINA GLOBAL NETWORK**



# TACMINA CORPORATION

2-4-8 Minami-Semba, Chuo-ku, Osaka 542-0081 Japan Tel. +81 (0) 6-6271-3974 Fax. +81 (0) 6-6271-4677 URL http://www.tacmina.com E-mail trade@tacmina.com

# TACMINA (THAILAND) CO., LTD

**Manufacturing Facility** 

20/1 Soi Ramkhamheang 16, 2nd. Branch Ramkhamheang Rd., Huamak, Bangkapi, Bangkok 10240 Thailand Tel. +66 (0) 2319-9315 or 9316 Fax. +66 (0) 2319-7390

# **EUROPE REPRESENTATIVE OFFICE**

Hochstr. 35 56235 Ransbach-Baumbach, Germany Tel. +49 (0)2623-928-345 Fax. +49 (0)2623-928-507 E-mail trade@tacmina.com

# SOUTHEAST ASIA REPRESENTATIVE OFFICE

20/1 Soi Ramkhamheang 16, 2nd. Branch Ramkhamheang Rd., Huamak, Bangkapi, Bangkok 10240 Thailand Tel. +66 (0) 2319-9315 or 9316 Fax. +66 (0) 2319-7390 E-mail tacmina\_sea@pacific.net.sg







