ProMinent®

Process Metering Pumps

When Precision, Safety and Reliability are not Optional!

Experienced Solutions for your Application

Process pumps play a vital role across a wide range of industries as they allow precise, reliable and safe handling of a variety of chemicals. Whether you have a high pressure application, a toxic chemical or a hazardous environment, chances are ProMinent has the right pump for your needs.

With installations around the world in most every application, you can rely on the experience and know-how of our experts to guide you through the most effective and efficient solution to achieve your goals. From "off-the-shelf" pumps to custom designed systems for most any environment, see how we can help you. Examples of how our process pumps can be applied include:

Food & Beverage / Agriculture

- **Mixing / Formulation:** Dosing flavorings, enzymes, colorants, or preservatives
- **Pasteurization / CIP:** Injecting cleaning chemicals during system sanitation
- **Packaging:** Adding trace ingredients with high repeatability
- **Bottling:** Injecting additives and small bottle filling

Petrochemical & Chemical

- **Reaction Preparation:** Dosing acids, bases, or catalysts to reactors
- **Process Control:** Maintaining pH or flow of reactants
- **Blending / Formulation:** Precise ingredient addition for product consistency
- **Waste Treatment:** Dosing neutralizers or flocculants before discharge

Industrial Water Treatment

- **Pre-Treatment:** Dosing coagulants/flocculants to clarify water
- **Disinfection:** Chlorine, ozone, or hypochlorite injection
- **pH Adjustment:** Adding lime, soda ash, or acid
- **Sludge Treatment:** Polymer dosing to aid dewatering

Pharmaceuticals & Biotechnology

- **Formulation:** Dosing APIs, solvents, preservatives, or excipients
- **CIP / SIP (cleaning/sterilizing):** Delivering cleaning agents or steam under pressure
- **Filling & Packaging:** High-precision metering into bottles or vials

Oil & Gas - Onshore / Offshore

- **Wellhead Injection:** Dosing methanol, corrosion inhibitors, demulsifiers, drag reducing agents (DRA)
- **Pipeline Integrity:** Continuous injection of anti-scaling and anti-corrosion agents
- **Refining:** Adding catalysts, neutralizers, or surfactants
- **Water Treatment (produced water):** Chemical dosing to meet disposal standards

Mining & Mineral Processing

- **Leaching:** Dosing acid or cyanide to dissolve metal ores
- **Flotation:** Injecting frothers, collectors, or depressants
- **Thickening / Tailings:** Polymer dosing to enhance solids settling
- **Water Treatment:** Treating acid mine drainage or recycled water

Power Generation / Boiler Feed

- **Boiler Feed Water Treatment:** Dosing hydrazine, ammonia, phosphates, oxygen scavengers
- **Cooling System Conditioning:** Adding biocides or anti-scaling agents
- **Condensate Polishing:** pH control and chemical injection

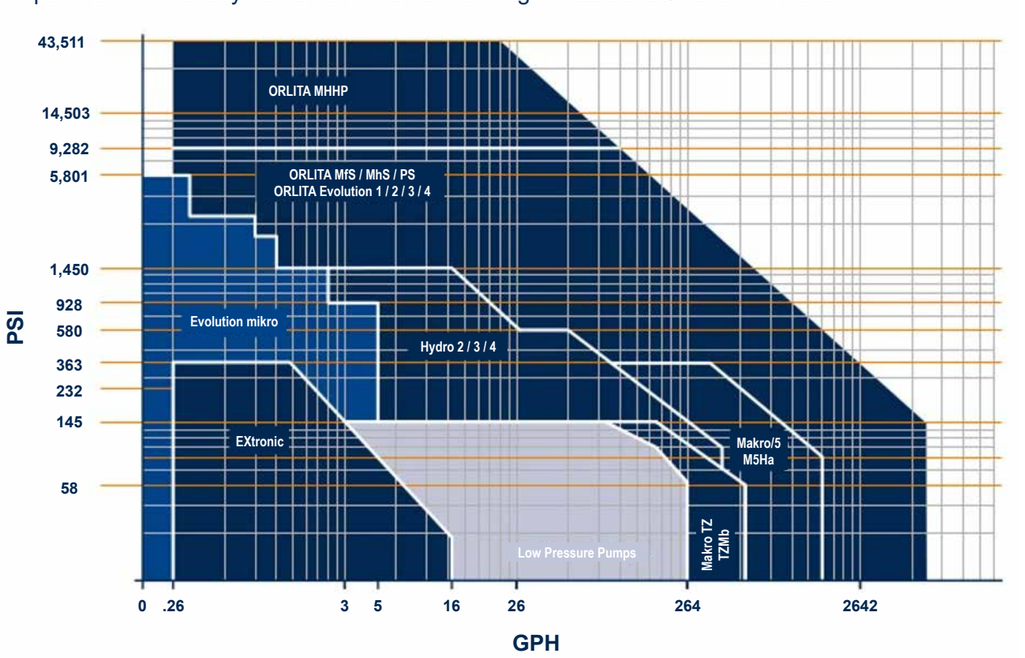
Process Metering Pumps

Overall Key Features and Benefits

ProMinent's broad range of process metering pumps ensures we have a pump to suit most any application. Our designs implement features focused on configurability, safety, precision, compliance and compatibility, which offers many benefits. This includes:

Portfolio Features Overview

- Available in mechanical or hydraulic diaphragm, and plunger style pumps
- Capacity ranges from 0.003 – 4,562 GPH (0.01 – 17,268 l/h)
- Pressures up to 43,511 psi (3,000 bar)
- High turn-down ratio capabilities of up to 1,200:1
- High accuracy metering with reproducibility better than ±1% within the 10 - 100 % stroke length range
- No loss of prime with offgasing liquids
- Modular design with single and double head versions, ability to add pumps on-site as needs change, vertical and horizontal versions available depending on space requirements
- Variable flows and stroke adjustments, even per head when using multiple pumps
- Available with liquid-end material options such as PVDF, Stainless Steel, Alloy 20, and Hastelloy C for compatibility with a wide variety of fluids
- Buit-in safety systems, such as multi-layer diaphragm (PTFE) with rupture warning system, and exclusive Diaphragm Position Control to protect the pump against operating faults (e.g., no damage with blockages).
- Compliance with industry standards for safe metering in hazardous/classified areas



Portfolio Benefits Overview

- High accuracy minimizes waste, prevents off-spec product, and maintains quality despite changing conditions
- High reliability minimizes downtime, prevents revenue loss, and ensures confidence in remote or harsh conditions
- Operational efficiency cuts energy use, lowers chemical consumption, and shortens processing cycles
- Compact, customizable footprints free up floor space and fit seamlessly into the installation area
- Safety features protect personnel, equipment, and production when handling corrosive or toxic fluids
- Easy integration supports retrofits, PLC compatibility, and adapts to changing production demands
- Simple service and maintenance procedures reduces downtime and training of specialized technicians

Process Metering Pumps

Full Portfolio – Quickview

Process metering pumps are available in three different styles to cover a range of applications and industries. ProMinent offers versions in all three, which includes mechanical diaphragm, hydraulic diaphragm and plunger.

Mechanical Diaphragm Pumps are best suited for simple dosing in lower pressure applications when costs are of concern.

Hydraulic Diaphragm Pumps are designed for very high pressure applications in hazardous zones, with toxic fluids, when precision dosing is critical.

Plunger (Piston) Metering Pumps provide accurate metering in high pressure applications when higher flow rates are required.

Mechanical Diaphragm Metering Pumps

EXTRONIC Series

0.05 to 16 GPH (0.23 to 60 l/h)
363 psi (25 bar)

Makro TZ

68 - 554 GPH (260 - 2,100 l/h)
174 psi (12 bar)

Hydraulic Diaphragm Metering Pumps

Evolution Series

0.79 to 1,955 GPH (3 – 7,400 l/h)
5,800 psi (400 bar)

HYDRO

1.85 – 398 GPH (7 – 1,507 l/h)
1,450 psi (100 bar)

ORLITA MF

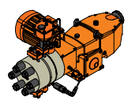
0.54 – 2,640 GPH (2.04 – 9,990 l/h)
11,350 psi (783 bar)

ORLITA MH

0 - 115 GPH (0 - 430 l/h)
43,500 psi (3,000 bar)

ORLITA MHHP

0.79 - 3.79 GPH (3 – 11 l/h)
43,500 psi (3,000 bar)



ORLITA Evolution

0.24 - 35 GPH (0.9 – 134 l/h)
3771 psi (260 bar)

ORLITA Evolution mikro

0.003 – 4.8 GPH (0.01 – 18 l/h)
3,626 psi (250 bar)

ProMus

0.2 to 101.5 GPH (0.87 to 384.2 l/h)
3,500 psi (241 bar)

Makro/ 5

119 - 1,614 GPH (450 – 6,108 l/h)
363 psi (25 bar)

Plunger Metering Pumps

Sigma/ 2

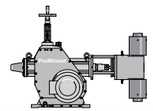
0.53 - 20.1 GPH (2 – 76 l/h)
4,641 psi (320 bar)

Makro TZ

2.1 - 301.4 GPH (8 – 1,141 l/h)
4,641 psi (320 bar)

Makro/ 5

10 - 1,589 GPH (38 – 6,014 l/h)
4,641 psi (320 bar)



ORLITA PS

0.29 – 8,800 GPH (1.1 – 33,300 l/h)
5,800 psi (400 bar)

ORLITA DR

0.64 – 1,090 GPH (2.4 – 4,125 l/h)
5,800 psi (400 bar)

ORLITA MH System

Mechanical Diaphragm Pumps

EXTRONIC
Engineered for Safety - Built for Precision

The EXTRONIC™ metering pump is purpose-built for critical chemical metering in explosive or classified areas. Whether you're working in chemical processing, oil & gas, or industrial water treatment, the EXTRONIC delivers accurate, reliable metering where safety is non-negotiable.
Certified for use in ATEX Zones and Class 1, Division 1 environments, it features advanced solenoid drive technology that ensures performance without sacrificing safety.

Specifications:

- **Available Models** ..... EXBb
- **Capacity Range** ..... 0.05 to 16 GPH (0.23 to 60 l/h)
- **Maximum Operating Pressure** .... 363 psi (25 bar)
- **Temperature Range** ..... -4°F to 113°F (-20°C to 45°C)
- **Stroke Length** ..... 0 – 0.05 in (1.25 mm)
- **Dosing Precision** ..... Better than ± 2%
- **Protection Level** ..... IP 65
- **Certifications/Compliances** ..... Class 1, Division 1, Groups B, C, & D, Factory Mutual, CE and CSA Approved
- **Liquid End Material Options** ..... Polypropylene, Clear Acrylic, PVC, Carbon-Filled PTFE, Stainless Steel 1.4404

Features:

Explosion-Proof Design ..... Fully certified for use in explosive atmospheres under ATEX 2014/34/EU in line with EExd IIC T6 and EExd I/IIC T6.
High Turndown Ratio (1200:1) ..... Exceptional control for dosing applications that demand a wide range of capacities.
Compact & Reliable Solenoid Drive ..... Delivers smooth and pulse-free dosing with minimal moving parts.
Self-Bleeding Head ..... Suitable for use with gaseous media.
Plug ‘n’ Play System Integration ..... Easy installation with standard interfaces for control systems.
Intrinsically Safe Control Options ..... Contact or analog signal control suitable for hazardous zones.

Benefits:

Safe Chemical Handling ..... Designed for flammable, volatile, or off-gassing liquids without loss of prime.
Precision Dosing ..... Ideal for critical applications where accuracy and repeatability are mandatory.
Low Maintenance ..... Minimal wear components reduce downtime and lifecycle costs.
Reliable in Harsh Environments ..... Corrosion-resistant materials and sealed electronics ensure long-term durability.
Operational Flexibility: ..... Easily adaptable for batch or continuous processes with precise flow control.

Primary Applications:

Hazardous chemical dosing
Offshore and onshore oil & gas
Industrial wastewater treatment
Chemical injection skids
Flammable or off-gassing fluid metering

Makro TZMb
Engineered for Industrial Performance

The Makro TZMb series is a heavy-duty, motor-driven diaphragm metering pump designed for industrial applications where high flow rates, chemical resistance, and operational precision are essential.
With a robust cast housing, corrosion-resistant finish, and modular expandability, this pump delivers long-term reliability even in harsh environments like chemical plants, power generation, and water treatment facilities.

Specifications:

- **Available Models** ..... Single or Double Head
- **Capacity Range (per head)** ..... 68 - 554 GPH (260 - 2,100 l/h)
- **Maximum Operating Pressure** ..... 363 psi (25 bar)
- **Ambient Temperature Range** ..... -4°F to 113°F (-20°C to 45°C)
- **Liquid End Temperature Range** ..... 14°F to 194°F (-10 to 90°C) based on liquid end
- **Stroke Length** ..... 0 – 0.4 in (0 – 10 mm)
- **Dosing Precision** ..... ± 1%
- **Reproducibility** ..... Better than ± 2%
- **Protection Level** ..... IP 55
- **Certifications/Compliances** ..... ATEX
- **Liquid End Material Options** ..... Polypropylene, PVC, Carbon-Filled PTFE, Stainless Steel 1.4571

Features:

Precision Stroke Control ..... Adjustable stroke length up to 0.4 in via shift ring mechanism with ±0.5% increments.
Modular Pump Design ..... Supplied as a single or dual-head version with field-upgradable multiplexing options.
Independent Pump Operation ..... Each pump head features its own internal gear reducer for individual stroking frequencies—perfect for blending or multi-fluid dosing.
Durable Gear Housing ..... Seawater-resistant cast enclosure coated with an acrylic resin lacquer for corrosion protection in aggressive environments.
Patented Multi-Layer Safety Diaphragm ..... With optical diaphragm rupture display (optionally with electrical diaphragm rupture signaling system / warning via a contact)

Benefits:

Scalable Dosing ..... Easily retrofit additional pump heads on-site to meet growing or changing process demands.
Flexible Installation ..... Compatible with standard motors or variable speed drives for automated capacity control.
Excellent Reproducibility ..... Better than ±2% metering accuracy in the effective operating range (30–100% stroke length), ensuring consistent product quality.
Low Maintenance ..... Rugged design and protective housing minimize downtime and extend pump lifespan.
Broad Chemical Compatibility ..... Available liquid ends in multiple material combinations to handle a variety of corrosive, viscous, or abrasive fluids.

Primary Applications:

Industrial chemical dosing
Cooling water treatment
Boiler feedwater conditioning
Polymer injection
Desalination and seawater processes

Hydraulic Diaphragm Pumps

HYDRO Classic / API
Heavy-Duty Pumping for Demanding Industrial Applications

The HYDRO API 675 is the next-generation hydraulic diaphragm metering pump built to meet the highest standards in process safety, precision, and durability. Designed in full accordance with API 675, this pump delivers robust performance in medium-pressure environments where accuracy and operational reliability are essential.

Ideal for oil & gas, chemical processing, power plants, and industrial water treatment, the HYDRO API 675 combines a modular architecture with best-in-class engineering.

Specifications:

- **Available Models (Classic)**..... HP2a, HP3a, HP4a, Single, Double, Triple
- **Available Models (API)**..... HA1a, HA2a, HA3a, HA4a, Single, Double, Triple
- **Capacity Range (per Head)**..... 1.85 – 398 GPH (7 – 1,507 l/h)
- **Maximum Operating Pressure** .... 1,450 psi (100 bar)
- **Ambient Temperature Range** ..... -4°F to 104°F (-20°C to 40°C)
- **Liquid End Temperature Range** .. -4°F to 194°F (-20 to 90°C) based on liquid end
- **Stroke Length**..... 0.6 in (15 mm) and 0.79 in (20 mm)
- **Reproducibility**..... Better than ± 1%
- **Protection Level**..... IP 55
- **Certifications/Compliances** ..... ATEX, API 675 (on API version)
- **Liquid End Material Options** ..... PVDF, Carbon-Filled PTFE, Stainless Steel 1.4571/1.4404, Stainless Steel 316L, Hastelloy C

Features:

Monitored PTFE Diaphragm..... Built-in rupture warning system provides an early alert to potential diaphragm failure, ensuring operator safety and process continuity.
Built-in Hydraulic Vent Valve..... Provides pressure protection and system stability under varying load conditions.
Flexible Modular Construction..... Available in single- or dual-head (boxer principle) configurations, and expandable to up to 5 metering units, even with mixed capacities.
Customizable Gear Ratios..... Offers 5 distinct gear ratios for application-specific performance optimization.

Benefits:

Unmatched Process Safety..... Hydraulic actuation with diaphragm monitoring ensures leak-free and fail-safe operation, even with aggressive or hazardous fluids.
Reliable, Continuous Operation..... Full-motion drive mechanism minimizes wear and extends service life, reducing maintenance and downtime.
Compact, Scalable Solution ..... Modular configuration allows space-efficient installations and easy expansion (up to 5 units) as system demands grow.
Engineered for Extremes..... Suitable for offshore, chemical, and refinery operations with strict compliance and operational reliability needs.
Consistent and Predictable Dosing ..... Essential for maintaining process chemistry, reducing chemical waste, and achieving high product quality.

Primary Applications:

Oil & gas chemical injection systems
Refining and petrochemical metering
Boiler feed and cooling water treatment
Hazardous fluid metering in explosive environments
Polymer and additive dosing in power generation

ORLITA Evolution Series
Built to Meet Your Toughest Challenges

The ORLITA Evolution Series is a next-generation hydraulic diaphragm metering pump designed for industries that demand unmatched process reliability, operational safety, and flexible configuration. With flows up to 1,955 GPH per head and pressures exceeding 5,800 psi, this pump excels in chemical injection, oil & gas, power generation, and other high-stakes environments.

Its compact, modular construction, advanced diaphragm position control, and integrated safety systems set a new benchmark in metering technology.

Specifications:

- **Available Models** EF1a, EF2a, EF3a, EF4a
- **Available Arrangements** ..... Horizontal, Vertical, Single, Double, Triple
- **Capacity Range (per Head)**..... 0.79 to 1,955 GPH (3 – 7,400 l/h)
- **Maximum Operating Pressure** .... 5,800 psi (400 bar)
- **Ambient Temperature Range** ..... High and low temperature options
- **Stroke Length** ..... 0.6 – 1.57 in (15 – 40 mm) depending on model
- **Dosing Precision**..... Better than ± 1%
- **Protection Level** ..... IP 55
- **Certifications/Compliances**..... ATEX, API 675
- **Liquid End Material Options** ..... PVDF, PVC, Stainless Steel 1.4571/1.4404, Custom Options (Hastelloy, Monel, Zirconium, etc.)

Features:

API 675 Compliance..... Built to the 3rd Edition API 675 standard, ensuring reliability and accuracy.
PTFE Multi-Layer Diaphragm..... Built-in rupture warning system, standard on all models for enhanced safety.
Exclusive Diaphragm Position Control ... Ensures Safe Operation During Blockages.
Variable Eccentric Drive ..... Offers precise control, smaller footprint, and energy-efficient performance.
Electronic Stroke Control..... Flow adjustments can be made remotely via 4-20mA, BUS interfaces, etc.
Continuous Air Bleed & Oil Cooling..... Preserves oil integrity during upsets.
Modular Design with 4 Frame Sizes..... Flexible design, simplified inventory.
Flexible Mounting ..... Adjustable drive for space-saving installs.

Benefits:

Unmatched Safety & Process Control .... Every model includes integrated pressure relief, diaphragm monitoring, and fault protection for total peace of mind.
Precise, Repeatable Dosing..... Better than ±1% accuracy ensures reliability.
Space & System Efficiency..... Fits tight spaces, supports up to 5 pump heads.
Easily Customized to Your Application ... Modular construction allows tailor-made solutions with custom pump combinations, liquid ends, and motor positioning.

Primary Applications:

High-pressure chemical injection (oil & gas)
Power plant water and boiler treatment
Polymer and additive dosing
Hazardous fluid metering in explosive environments
Petrochemical and refinery processes

Hydraulic Diaphragm Pumps

ORLITA Mf
Engineered for Extreme Performance

The ORLITA Mf is a high-capacity, high-pressure hydraulic diaphragm metering pump designed to excel in the most demanding industrial environments. With flows up to 2,200 GPH per head and operating pressures up to 11,350 psi, it delivers precise and safe chemical metering for applications where failure is not an option.

Its modular architecture, advanced cone valve system, and double PTFE diaphragm make it ideal for critical processes in the chemical, oil & gas, petrochemical, and power generation sectors.

Specifications:

- **Available Models (Classic)**..... MfS 35 (MF2a), MfS 600 (MF5b), MfS 1400 (MF6a)
- **Available Arrangements**..... Horizontal, Vertical, Multiple Heads
- **Capacity Range (per Head)**..... 0.54 – 2,640 GPH (2.04 – 9,990 l/h)
- **Maximum Operating Pressure** .... 11,350 psi (783 bar)
- **Ambient Temperature Range** ..... -40 to 302 °F (-40 to +150 °C)
- **Liquid End Temperature Range** .. -4°F to 194°F (-20 to 90°C) based on liquid end
- **Stroke Length**..... 0 – 2.36 in (0 – 60 mm) depending on model
- **Dosing Reproducibility**..... Better than ± 1%
- **Protection Level**..... IP 55
- **Certifications/Compliances** ..... ATEX, API 675 (on API version)
- **Liquid End Material Options** ..... PVDF, PVC, Stainless Steel 1.4571/1.4404, Custom Options (Hastelloy, Monel, Zirconium, etc.)

Features:

Monitored PTFE Diaphragm..... Built-in rupture warning system provides an early alert to potential diaphragm failure, ensuring operator safety and process continuity.
Built-in Hydraulic Vent Valve..... Provides pressure protection and system stability under varying load conditions.
Flexible Modular Construction..... Available in single- or dual-head (boxer principle) configurations, and expandable to up to 5 metering units, even with mixed capacities.
Customizable Gear Ratios..... Offers 5 distinct gear ratios for application-specific performance optimization.

Benefits:

Unmatched Process Safety..... Hydraulic actuation with diaphragm monitoring ensures leak-free and fail-safe operation, even with aggressive or hazardous fluids.
Reliable, Continuous Operation..... Full-motion drive mechanism minimizes wear and extends service life, reducing maintenance and downtime.
Compact, Scalable Solution ..... Modular configuration allows space-efficient installations and easy expansion (up to 5 units) as system demands grow.
Engineered for Extremes..... Suitable for offshore, chemical, and refinery operations with strict compliance and operational reliability needs.
Consistent and Predictable Dosing ..... Essential for maintaining process chemistry, reducing chemical waste, and achieving high product quality.

Primary Applications:

Oil & gas chemical injection systems
Refining and petrochemical metering
Boiler feed and cooling water treatment
Hazardous fluid metering in explosive environments
Polymer and additive dosing in power generation

ORLITA Mh
Designed for the Most Demanding Applications

The ORLITA Mh Series is the ultimate solution for ultra-high-pressure dosing, delivering flows up to 211 GPH and pressures as high as 43,500 psi (3,000 bar). Engineered for extreme environments, this hydraulic diaphragm metering pump is ideal for energy, defense, industrial gas, and petrochemical operations where traditional pumps fall short.

Its stainless steel diaphragm, advanced cone valve system, and automatic venting and pressure relief ensure superior performance and uncompromising safety.

Specifications:

- **Available Models** ..... MHS 18, MHS 35, MHS 600
- **Available Arrangements** ..... Horizontal, Vertical, Multiple Heads
- **Capacity Range (per Head)**..... 0 - 115 GPH (0 - 430 l/h)
- **Maximum Operating Pressure** .... 43,500 psi (3000 bar)
- **Ambient Temperature Range** ..... -40 to 392 °F (-40 to +200 °C)
- **Stroke Length** ..... 0 – 1.57 in (0 – 40 mm) depending on model
- **Dosing Precision**..... Better than ± 1%
- **Protection Level** ..... IP 55
- **Certifications/Compliances**..... ATEX, API 675
- **Liquid End Material Options** ..... Stainless Steel 1.4571/1.4404

Features:

Unmatched Pressure Capability..... Reliable operation up to 43,500 psi—sets the benchmark in industrial metering.
Stainless-Steel Diaphragm..... Highly durable and resistant to chemical attack, ideal for aggressive or abrasive media.
API 675 Compliant..... Conforms to international industrial metering standards for safety, consistency, and quality.
Unique Cone Valve System..... Ensures optimum accuracy and control in both suction and discharge cycles.
Internal Pressure Relief & Auto Venting . Built-in safeguards protect the pump during high-pressure surges and during startup.
Multiplexing Capable ..... Combine multiple heads for custom capacity or multi-stream dosing.
Heating or Cooling Jackets Available ..... For applications involving extreme fluid temperatures.
Custom Connection Options..... Configurable interfaces to fit unique process or installation requirements.

Benefits:

Extreme Pressure Tolerance ..... Perfect for supercritical CO_2, water jet cutting systems, or high-pressure chemical injection.
High-Temperature Performance ..... Reliable in environments up to 390°F (200°C), supporting thermally reactive processes.
Modular Flexibility..... Design allows for custom configurations, scalable systems, and multiplexed dosing units (up to 6 heads).
Fail-Safe Operation ..... Integrated rupture detection and pressure control systems enhance reliability and safety.

Primary Applications:

Ultra-high pressure chemical injection
CO_2 and industrial gas dosing
Oil & gas production (onshore/offshore)
Water jet cutting system fluid management
Research, energy, and defense sectors
Thermal or pressure-intensive environments in petrochemicals
Packaging industry (bottling pumps)

Hydraulic Diaphragm Pumps

ORLITA MHHP
Engineered for Precision in Extreme Pressure Environments

The ORLITA MHHP is a high-precision, hydraulically actuated metal diaphragm metering pump specifically engineered to deliver reliable dosing at ultra-high pressures up to 43,512 psi (3,000 bar). With flow rates from 0.79 to 3.79 GPH, this pump is optimized for low-flow, high-pressure dosing, where standard metering pumps simply cannot operate.

The ORLITA MHHP is ideal for supercritical processes, chemical injection, and high-pressure research or defense applications, where consistent metering, minimal wear, and high safety are essential.

Specifications:

- **Available Models** .....MHRH 150/7
- **Capacity Range (per Head)** .....0.79 - 3.79 GPH (3 – 11 l/h)
- **Maximum Operating Pressure** .....43,500 psi (3,000 bar)
- **Ambient Temperature Range** .....14°F to 140°F (-10°C to 60°C)
- **Stroke Length**.....0 – 1.26 in (0 – 32 mm)
- **Dosing Reproducibility**.....Better than ± 0.5%
- **Protection Level**.....IP 55
- **Certifications/Compliances** .....ATEX, API 675 (on API version)
- **Liquid End Material Options** .....Stainless Steel 1.4571/1.4404

Features:

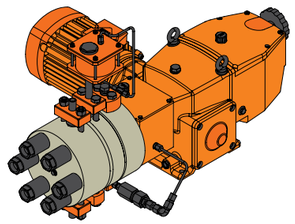
Metal Double Diaphragm Design..... Safe, Compatible SS Diaphragm with Rupture Detection.
Hermetically Sealed Product Chamber ..... The pumped media is completely isolated from the hydraulic system, preventing contamination or leaks.
Hydraulic Relief & Bleed Valves ..... Automatically manages pressure surges and removes trapped air to ensure optimal hydraulic performance.
Valveless Anti-Cavitation System ..... Wear-free hydraulic compensation system minimizes cavitation risks and maintains consistent dosing accuracy.
Ultra-High Accuracy..... Metering reproducibility of ±0.5% in the 10–100% stroke range under defined conditions.
Durable Cone Valve System..... Advanced cone-type suction and discharge valves ensure minimal wear, self-cleaning, and low NPSHR, reducing pressure drop and increasing efficiency

Benefits:

Maximum Process Safety.....The metal diaphragm and hermetic sealing ensure zero-emission operation, making it ideal for hazardous or high-value media.
High-Pressure Dosing in Minimal Footprint...Designed for applications requiring micro-flow at extreme pressure, with compact, efficient design.
Minimal Maintenance, Maximum Uptime.....Internal systems are optimized for low wear and continuous operation, reducing downtime and total cost of ownership.
Optimized for Harsh Environments.....Suitable for offshore, chemical, and refinery operations with strict compliance and operational reliability needs.
Consistent and Predictable Dosing .....Built to perform in chemical, petrochemical, defense, and high-pressure research scenarios.

Primary Applications:

Supercritical CO_2 dosing
High-pressure catalyst injection
Chemical dosing in nuclear or defense sectors
Lab-scale or pilot plant dosing at extreme pressure
Ultra-high-pressure systems in R&D or testing facilities



ORLITA Evolution E1Sa/E2Sa
Safety. Accuracy. Versatility.

The ORLITA Evolution E1Sa/E2Sa is a high-performance hydraulic diaphragm metering pump designed for medium- to high-pressure chemical metering where safety, dosing accuracy, and environmental protection are paramount.

As part of the Evolution Series, the E1Sa/E2Sa features modular flexibility, a robust PTFE multi-layer diaphragm, and a diaphragm position control system that eliminates risks during abnormal operation. Whether installed in hazardous (ATEX) zones or integrated into mission-critical process systems, the E1Sa/E2Sa offers maximum reliability with minimal maintenance.

Specifications:

- **Available Models** E1Sa, E2Sa
- **Capacity Range (per Head)**..... 0.24 - 35 GPH (0.9 – 134 l/h)
- **Maximum Operating Pressure** .... 3771 psi (260 bar)
- **Ambient Temperature Range** ..... -4°F to 104°F (-20°C to 40°C), Special version up to 122°F (50°C) available
- **Stroke Length** ..... 0 – 0.63 in (0 – 16 mm)
- **Reproducibility** ..... Better than ± 1%
- **Protection Level** ..... IP 55
- **Certifications/Compliances**..... ATEX, API 675
- **Liquid End Material Options** ..... Stainless Steel 1.4404

Features:

PTFE Multi-Layer Diaphragm.....Includes an integrated diaphragm rupture warning and signaling system for early leak detection and enhanced process safety.
Unique Diaphragm Position Control .....Prevents damage from line imbalances
Integral Hydraulic Relief Valve.....Conforms to international industrial metering standards for safety, consistency, and quality.
Unique Cone Valve System.....Ensures optimum accuracy and control in both suction and discharge cycles.
Internal Pressure Relief & Auto Venting .Automatically compensates for overpressure conditions to maintain internal system integrity.
Continuous Oil Chamber Bleeding .....Prevents air locks, ensures precision.
API 675 Compliant.....Meets strict standards for industrial process reliability and dosing accuracy.
Explosion-Proof Compatibility.....Available with drive options for Zone 1 and Zone 2 (ATEX) environments, ideal for oil & gas or chemical applications.

Benefits:

Reliable Under Pressure .....Engineered for continuous operation at pressures up to 3,771 psi, with exact control over fluid delivery.
Safe in Hazardous Areas.....Compliant with explosion protection standards, enabling worry-free use in flammable or volatile processing environments.
Compact and Scalable .....Modular design supports integration with other ORLITA Evolution models for system-wide performance consistency.
Long Service Life, Low Maintenance.....Internal safeguards and rugged components ensure low wear, minimal downtime, and reduced operating costs.

Primary Applications:

Precision chemical injection in oil & gas
High-pressure dosing in power and energy sectors
Metering of corrosive fluids in chemical manufacturing
Water treatment processes in hazardous environments
Industrial process control with strict dosing tolerances

Hydraulic Diaphragm Pumps

ORLITA Evolution mikro
Advanced Micro-Metering for Critical Processes

The ORLITA Evolution mikro EMFa is the first micro-metering pump of its kind to feature an electronically controlled linear direct power end, combining unprecedented precision, compact design, and extreme pressure handling. Capable of dosing as little as 0.003 GPH (0.01 l/h), it's the perfect solution for high-accuracy additive injection in oil & gas, petrochemical, research, and pilot plant applications.

Its contact-free, low-maintenance drive, extended control range, and hermetic diaphragm sealing ensure the highest levels of process safety and repeatability, even under extreme conditions.

Specifications:

- **Available Models** .....mikro EMFa
- **Capacity Range (per Head)** .....0.003 – 4.8 GPH (0.01 – 18 l/h)
- **Maximum Operating Pressure** .....3,626 psi (250 bar (400 bar design))
- **Ambient Temperature Range** .....-4°F to 104°F (-20°C to 40°C)
- **Liquid End Temperature Range** ....-4°F to 176°F (-20 to 80°C) based on liquid end
- **Stroke Length**.....0 – 2.36 in (0 – 60 mm)
- **Reproducibility**.....Better than ± 0.5%
- **Protection Level**.....IP 55
- **Certifications/Compliances** .....ATEX, API 675 compliant, FDA 21CFR177
- **Liquid End Material Options** .....Stainless Steel 1.4571/1.4404, special materials upon request (PVDF, Carbon-Filled PTFE, Hastelloy C)

Features:

Electronically Controlled Direct Drive ..... A **first of its kind** linear power end eliminates complex mechanical linkages, resulting in low wear and near-zero maintenance.
Precise Micro-Metering..... Accurate dosing of very small quantities even at high pressures up to 250–400 bar, depending on the model.
Extended Control Range ..... Ideal 1:200 Turndown for labs & fluctuating processes.
Hermetically Sealed Diaphragm..... Choice of PTFE multi-layer diaphragm or metal diaphragm, with built-in rupture protection for complete containment and operator safety.
3-Parameter Control..... Advanced metering for any condition.
Positioning Accuracy & Repeatability ..... Repeatable dosing within ±1%

Benefits:

Ultra-Precise Fluid Control .....Perfect for research, laboratory, or additive dosing where even minor fluctuations can affect results or system performance.
Minimal Maintenance, Maximum Uptime.....Fewer moving parts mean long service life with minimal mechanical wear and simple service routines.
Safe for Hazardous Media.....Hermetic sealing and integrated overload protection ensure safe operation with toxic, corrosive, or odorous substances.
Compact and Versatile .....Fits into tight spaces and adapts easily to both continuous processes and batch or fill operations.
ATEX and High-Pressure Compatibility.....Suited for oil & gas, petrochemical, and specialty chemical installations under strict safety requirements.

Primary Applications:

Oil & gas additive metering (e.g., odorization or corrosion inhibitors)
High-pressure lab research and pilot plants
Ultra-low flow chemical injection
Gas odorization with metal diaphragm variant
High-pressure filling or precision blending in chemical production

ProMus
Made in the USA, Engineered for Critical Chemical Metering

The ProMus is a hydraulic diaphragm metering pump designed for high-pressure chemical dosing where precision, reliability, and safety are critical. Featuring a hydraulically coupled Teflon diaphragm and a mechanically actuated replenishment system, the ProMus ensures accurate fluid delivery even under fluctuating system demands.

Ideal for corrosive, toxic, or high-value chemicals, the ProMus is trusted in chemical refining, water treatment, and other demanding industrial applications.

Specifications:

- **Available Models** 17, 30, 40
- **Capacity Range** .....0.2 to 101.5 GPH (0.87 to 384.2 l/h)
- **Maximum Operating Pressure** .....3,500 psi (241 bar)
- **Ambient Temperature Range** .....14°F to 105°F (-10°C to 40°C)
- **Liquid End Temperature Range** .....14°F to 194°F (-10 to 90°C) based on liquid end
- **Stroke Length** .....0 – 0.79 in (0 – 20 mm)
- **Reproducibility** .....Better than ± 1%
- **Certifications/Compliances** .....API 675
- **Liquid End Material Options** ..... PVDF, Stainless Steel 316, Hastelloy C, Alloy 20

Features:

Hydraulically Actuated PTFE Diaphragm ... Provides superior leak protection and ensures safe handling of toxic or corrosive chemicals.
Precise Hydraulic Control System..... A mechanically actuated replenishment valve senses diaphragm position and introduces coupling fluid as needed — ensuring consistent dosing accuracy
Continuous Degassing of Hydraulic Fluid... Conforms to international industrial metering standards for safety, consistency, and quality.
Built-In Relief Valve ..... Protects the drive system from overload and extends operational life.
Internal Pressure Relief & Auto Venting ..... Automatically compensates for overpressure conditions to maintain internal system integrity.
API 675 Compliant..... meet the highest standards for industrial metering performance, including repeatability and pulse-free flow.
Field-Serviceable Design..... Built for fast maintenance with minimal downtime, reducing operating costs and improving uptime.

Benefits:

High Chemical Resistance .....Compatible with a wide variety of aggressive or hazardous fluids.
Leak-Free Reliability.....Hermetically sealed diaphragm system protects both the process and the operator.
Precision Under Pressure.....Maintains accurate flow control even at pressures up to 3,500 psi, essential for high-stakes applications.
Flexible for Complex Systems.....Suitable for both single-unit and system-integrated applications in refining, water treatment, and specialty chemicals.

Primary Applications:

Precision chemical injection in oil & gas
High-pressure dosing in power and energy sectors
Metering of corrosive fluids in chemical manufacturing
Water treatment processes in hazardous environments
Industrial process control with strict dosing tolerances

Hydraulic Diaphragm Pumps

Makro/ 5 M5Ha
Heavy-Duty Metering with Built-In Process Protection

The Makro/5 M5Ha is a high-performance hydraulic diaphragm metering pump engineered for large-capacity, low-to-medium pressure applications. With a proven reputation for durability, precision, and safety, it's ideal for demanding chemical dosing operations in water treatment, oil & gas, mining, and industrial manufacturing.

Its modular construction and wide range of drive options — including explosion-proof (ATEX) variants — make it highly adaptable to evolving plant requirements.

Specifications:

- **Available Models** .....Single or Double Head
- **Capacity Range (per Head)** .....119 - 1,614 GPH (450 – 6,108 l/h)
- **Maximum Operating Pressure** .....363 psi (25 bar)
- **Ambient Temperature Range** .....-4°F to 113°F (-20°C to 45°C)
- **Liquid End Temperature Range** ....14°F to 194°F (-10 to 90°C) based on liquid end
- **Stroke Length**.....0 – 1.97 in (0 – 50 mm)
- **Dosing Precision**.....± 1%
- **Reproducibility**.....Better than ± 0.5%
- **Protection Level**.....IP 55
- **Certifications/Compliances** .....ATEX, designed to comply with API 675
- **Liquid End Material Options** .....Polypropylene, PVC, Carbon-Filled PTFE, Stainless Steel 1.4571/1.4404

Features:

PTFE Multi-Layer Diaphragm..... Built-in diaphragm rupture warning system ensures early fault detection and operator safety.
Integrated Hydraulic Relief Valve ..... Prevents over-pressurization and extends system lifespan.
Modular System Design ..... Available in single or double-head versions (with push-pull operation) and expandable to up to 4 metering units, even with mixed capacities.
Customizable Gear Ratios..... Choose from 5 gear ratios to match application-specific requirements.
Compliant with API 675 ..... Meets stringent industrial standards for continuous, precise, and safe metering.

Benefits:

Outstanding Process Safety.....Leak-free, reliable dosing of hazardous or aggressive chemicals with built-in fail-safes.
Maximum Installation Flexibility.....Easily integrated into complex dosing skids or standalone systems, including in explosive atmospheres with optional ATEX drives.
Scalable for Future Growth.....Expand system capacity by adding new pump heads or adapting gear ratios — no need for system overhaul.
Cost-Efficient Over Time.....Long lifecycle, low maintenance, and proven engineering reduce total cost of ownership.

Primary Applications:

Industrial water & wastewater treatment
Pulp and paper chemical dosing
Chemical injection in oil & gas
Fertilizer and nutrient dosing in agriculture
Bulk additive dosing in manufacturing

Plunger Metering Pumps

Sigma/ 2 SBKa (Basic Type)
High-Performance Plunger Pumping with Industrial Durability

The Sigma/ 2 SBKa is a compact, high-precision plunger metering pump built for reliable, repeatable dosing in demanding industrial environments. Whether you're dosing additives, chemicals, or solvents, this pump is designed to deliver mechanical robustness, control flexibility, and certified safety — especially in hazardous zones.

With modular design, adjustable capacity in fine 0.2% steps, and motor options for ATEX-rated areas, the Sigma/ 2 SBKa is a smart choice for facilities that require accuracy, adaptability, and durability.

Specifications:

- **Available Models** .....SBKa (Basic Type)
- **Capacity Range** .....0.53 - 20.1 GPH (2 – 76 l/h)
- **Maximum Operating Pressure** .....4,641 psi (320 bar)
- **Ambient Temperature Range** .....14 to 113 °F (-10 to +45 °C)
- **Liquid End Temperature Range** .....Maximum 194 °F (90 °C)
- **Stroke Length** .....0 – 0.6 in (0 – 15 mm)
- **Dosing Reproducibility** .....Better than ± 1%
- **Protection Level** .....IP 55
- **Certifications/Compliances**.....ATEX
- **Liquid End Material Options** ..... Stainless Steel 1.4571/1.4404

Features:

High-Precision Capacity Adjustment ..... Pump flow can be set manually or electronically in 0.2% increments for finely tuned performance.
High Metering Accuracy..... Reproducibility better than ±1% in the 10–100% stroke length range under defined conditions.
Robust Plunger Design..... Built for high-pressure delivery and long-term operation with minimal wear.
Modular Motor Options..... Available in single- or three-phase, with custom flange options and motors for Exe and Exde (ATEX) areas.
Custom Configurations on Request..... Flexible architecture supports tailor-made designs for unique process or installation requirements.

Benefits:

Reliable in Harsh Conditions .....Built to endure continuous duty cycles and withstand corrosive, high-pressure environments.
Safety in Explosive Atmospheres .....Certified ATEX power end options allow safe operation in flammable or hazardous zones.
Highly Configurable .....Power ends, drive types, and flange designs can be matched to plant requirements with ease.
Low Maintenance and Downtime .....Simple mechanical design reduces wear and enables fast servicing in the field.

Primary Applications:

Industrial process chemical dosing
High-pressure additive injection
Chemical handling in explosive environments
Water and wastewater treatment
General manufacturing requiring rugged, compact metering

Plunger Metering Pumps

Makro TZ
Robust Engineering for Industrial Demands

The Makro TZKa is a high-capacity, high-reliability plunger metering pump designed for demanding industrial dosing applications. Built with a rugged, adjustable eccentric drive, and precision stroke mechanism, it delivers repeatable metering accuracy even under tough operating conditions.

With its modular design, the Makro TZ can be easily customized, scaled, or multiplexed to fit a wide range of process requirements — making it ideal for chemical processing, power generation, and water treatment systems.

Specifications:

- **Available Models** ..... TZKa
- **Configurations** ..... Single or Dual Head, Multiple Pumps
- **Capacity Range (per Head)** ..... 2.1 - 301.4 GPH (8 – 1,141 l/h)
- **Maximum Operating Pressure** .. 4,641 psi (320 bar)
- **Ambient Temperature Range** .... 14°F to 113 °F (-10 to +45 °C)
- **Liquid End Temperature Range** Maximum 194 °F (90 °C)
- **Stroke Length** ..... 0 – 0.79 in (0 – 20 mm)
- **Dosing Precision** ..... Better than ± 0.5%
- **Protection Level** ..... IP 55
- **Certifications/Compliances** ..... ATEX
- **Liquid End Material Options** ..... Stainless Steel 1.4571/1.4404

Features:

Precise Stroke Control ..... Features an adjustable eccentric drive with stroke lengths of 10 or 20 mm for accurate dosing.

Exceptional Metering Accuracy ..... Reproducibility better than ±0.5% in the 10–100% stroke range, under defined conditions and proper installation.

Modular Construction ..... Supports single- or double-head versions (push-pull mode), with up to 4 pump heads of different capacities in one system.

Flexible Gear Options ..... Choose from 4 different gear ratios to optimize output for your specific process needs.

Explosion-Proof Ready ..... Power drive options available for Exe and Exde zones with ATEX certification for safe use in hazardous environments.

Custom Designs on Request ..... Engineered-to-order configurations available for unique installation or process demands.

Benefits:

Exceptional Process Reliability ..... Mechanically simple yet durable, the Makro TZ ensures consistent dosing without drift or deviation.

Adaptable to Evolving Needs ..... Its modular design allows for easy expansion or integration, minimizing future upgrade costs.

Low Maintenance Design ..... The rugged plunger mechanism minimizes wear and enables fast, on-site servicing.

Space and System Efficiency ..... Multiplexing capabilities allow consolidated systems with compact footprints.

High Pressure & High Volume Ready ..... Designed to tackle both bulk dosing and high-pressure applications without compromise

Primary Applications:

Industrial water & wastewater treatment
Pulp and paper chemical dosing
Chemical injection in oil & gas
Fertilizer and nutrient dosing in agriculture
Bulk additive dosing in manufacturing

Makro/ 5
Built for Industrial Performance in the Low Pressure Range

The Makro/ 5 M5Ka is a modular, heavy-duty plunger metering pump optimized for large flow capacities at low to moderate pressures. With a robust mechanical drive, fine stroke control, and configurable construction, it's a dependable solution for continuous-duty operations in industries such as water treatment, chemical manufacturing, and power generation.

Whether used as a standalone dosing unit or part of a multiplex system, the Makro/ 5 delivers durable performance, exceptional repeatability, and adaptability for complex applications.

Specifications:

- **Available Models** M5Ka
- **Configurations** ..... Single or Dual Head, Multiple Pumps
- **Capacity Range (per Head)** ..... 10 - 1,589 GPH (38 – 6,014 l/h)
- **Maximum Operating Pressure** ..... 4,641 psi (320 bar)
- **Ambient Temperature Range** ..... 14 to 113 °F (-10 to +45 °C)
- **Liquid End Temperature Range** ..... Maximum 194 °F (90 °C)
- **Stroke Length** ..... 0 – 1.97 in (0 – 50 mm)
- **Dosing Reproducibility** ..... Better than ± 0.5%
- **Protection Level** ..... IP 55
- **Certifications/Compliances** ..... ATEX, API 675
- **Liquid End Material Options** ..... Stainless Steel 1.4571/1.4404

Features:

Precise and Reliable Metering ..... Reproducibility better than ±0.5% across the 10–100% stroke length range under defined conditions.

Modular Pump Design ..... Available in single- or double-head versions, with push-pull mode operation for smoother flow control.

Scalable System Integration ..... Supports up to 4 metering units (even with different capacities) in one modular system.

Multiple Gear Ratios ..... Select from 5 different gear ratios to fine-tune performance to specific flow and pressure requirements.

Explosion-Proof Options ..... Available drive versions certified for ATEX Zone applications (Exe or Exde), ensuring safety in hazardous areas.

Benefits:

Designed for High-Capacity Dosing ..... Supports large-volume metering for industrial-scale operations without sacrificing accuracy

Flexible to Your Process ..... Certified ATEX power end options allow safe operation in flammable or hazardous zones.

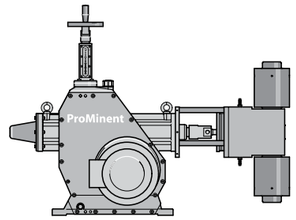
Low Maintenance, Long-Term Durability .... Power ends, drive types, and flange designs can be matched to plant requirements with ease.

Space-Efficient Multiplexing ..... Up to four pumps can be combined to save floor space and centralize control.

Optimized for Low-Pressure Applications ... Ideal where high volume and dependable output matter more than high pressure.

Primary Applications:

Industrial process chemical dosing
High-pressure additive injection
Chemical handling in explosive environments
Water and wastewater treatment
General manufacturing requiring rugged, compact metering



Plunger Metering Pumps

ORLITA PS
Engineered for Demanding Dosing Applications

The ORLITA PS Series from ProMinent is a heavy-duty packed plunger metering pump designed for ultra-reliable performance in high-pressure and high-flow industrial applications. With a robust stainless steel liquid end, adjustable packing, and precision cone valves, the ORLITA PS delivers repeatable, high-accuracy metering with flows up to 8,800 GPH and pressures up to 5,800 psi.

Perfectly suited for chemical injection, oil & gas operations, power generation, and extreme temperature environments, the PS Series is built to meet the API 675 standard and exceed expectations in process safety and dosing control.

Specifications:

- **Available Models** .....PS 35, PS 80, PS 180, PS 600
- **Configurations** .....Single or Dual Head, Multiple Pumps
- **Capacity Range (per Head)** .....0.29 – 8,800 GPH (1.1 – 33,300 l/h)
- **Maximum Operating Pressure** .....5,800 psi (400 bar)
- **Ambient Temperature Range** .....-40 to 752 °F (-40 to +400 °C)
- **Stroke Length**.....0 – 1.57 in (0 – 40 mm)
- **Dosing Precision**.....Better than ± 0.5%
- **Protection Level**.....IP 55
- **Certifications/Compliances** .....ATEX, API 675
- **Liquid End Material Options** .....Stainless Steel 1.4571/1.4404

Features:

API 675 Compliant	Meets global standards for metering pumps in critical processes.
High Pressure & Flow Capabilities	Delivers flow rates up to 8,800 GPH and withstands operating pressures of up to 5,800 psi.
Extreme Temperature Tolerance	Handles fluid temperatures from -30 to +750°F for extreme thermal conditions
Packed Plunger Design	Utilizes a rugged oscillating piston within adjustable packing for reliable, leak-controlled performance.
Specialized Cone Valves	Ensure optimal sealing and low-pressure loss while maintaining ±0.5% metering accuracy.
Stainless Steel Liquid End	Corrosion-resistant and durable for long service life, even with aggressive media

Benefits:

Maximum Performance in Harsh Conditions	Withstands high pressure, high flow, and high temperature — all in one pump.
Superior Accuracy and Reliability	Delivers consistent and repeatable flow for process-critical applications.
Serviceable and Adjustable	Simple mechanical design with adjustable packing allows for easy maintenance and wear compensation.
Ideal for Continuous-Duty Industrial Systems	Excellent for 24/7 process applications that demand both strength and accuracy.

Primary Applications:

Oil & gas chemical injection
Boiler feed and power plant treatment systems
Petrochemical metering under high pressure
Extreme-temperature process fluid control
High-volume additive dosing in industrial manufacturing

ORLITA DR
Built to Handle the Unpumpable

The ORLITA DR from ProMinent is a valveless, high-pressure rotary plunger metering pump designed for the accurate dosing of highly viscous, abrasive, or solids-containing fluids. Combining oscillating and rotating piston motion, the ORLITA DR provides smooth, pulse-free metering even with materials that would clog or wear out conventional pumps.

Ideal for chemical processing, food manufacturing, polymer handling, and other challenging applications, the DR is engineered to maintain exceptional dosing accuracy and robust performance under the most demanding conditions.

Specifications:

- **Available Models** .....DR 15, DR 150
- **Configurations**.....Single or Dual Head, Multiple Pumps
- **Capacity Range (per Head)**.....0.64 – 1,090 GPH (2.4 – 4,125 l/h)
- **Maximum Operating Pressure** ....5,800 psi (400 bar)
- **Ambient Temperature Range** .....-22 to 392 °F (-30 to +200 °C)
- **Stroke Length** .....0 – 1.26 in (0 – 32 mm)
- **Dosing Reproducibility** .....Better than ± 0.5%
- **Protection Level** .....IP 55
- **Certifications/Compliances**.....ATEX
- **Liquid End Material Options** .....Stainless Steel 1.4571/1.4404

Features:

Valveless Technology	Eliminates check valves, reducing wear and ensuring smooth flow of high-viscosity or solids-laden fluids.
Rotary Piston Mechanics	Combines oscillating and rotating motion for stable, continuous metering at high pressure.
Extreme Viscosity Capability	Pumps fluids with viscosities up to 1,000,000 cPs — ideal for pastes polymers, or sludge.
Solids Handling	Slotted piston design allows for the uninterrupted passage of suspended solids through the pump.
Bidirectional Flow	Flow direction is reversible, enhancing flexibility in system integration and process controls.
High Flow and Pressure Ratings	Delivers up to 1,090 GPH and handles pressures of up to 5,800 psi, suitable for demanding industrial applications

Benefits:

No Clogging or Cavitation:	Valveless and slotted piston design minimizes common failure modes in conventional pumps.
High Accuracy, Pulse-Free Flow:	Maintains ±0.5% dosing accuracy, even with thick, non-Newtonian, or shear-sensitive media.
Versatile & Adaptable:	Ideal for challenging process fluids that include viscous materials, slurries, or entrained solids.
Low Maintenance:	Fewer wear-prone parts mean less downtime and lower total cost of ownership.
Reliable Under Extreme Conditions:	Withstands pressure, viscosity, and particulate challenges without sacrificing performance

Primary Applications:

Polymer dosing and paste injection
Food and beverage thick fluid transfer
Adhesives, sealants, or coating compounds
Wastewater sludge and biosolids dosing
Specialty chemical and paint manufacturing

OUR ADVANTAGE

ProMinent integrates a full suite of capabilities to ensure your system operates at peak performance specific to your application. From in-house design and manufacturing that delivers high quality control to in-field support and training that keeps your system producing reliable results. You can count on ProMinent as your partner throughout your system's entire life cycle.

IN-HOUSE CAPABILITIES

- Standard & Custom System Design and Engineering
- Custom Sensor Panel Fabrication and Testing
- Component and System Manufacturing
- Factory Testing and Certification of all Systems

AFTERMARKET SUPPORT

- Large Inventory of Parts and Components
- Service Support: Phone, On-site and/or Start-Up
- Maintenance, Repair and Troubleshooting of Equipment
- Training: Certified Service Partner, Operational, Maintenance, General Product

PROVEN SOLUTIONS THAT MEET YOUR NEEDS

ProMinent Fluid Controls, offers the highest quality metering pumps, disinfection systems, polymer preparation systems, metering systems for solids, instrumentation, and custom designed systems. The Group is headquartered in Heidelberg, Germany with more than 3,000 employees throughout 50 sales and service locations and 12 production sites. With over 60 years of experience, our expertise and wide range of products positions us as your reliable solution partner for the treatment of water.

To learn how we can help solve your water treatment challenges, contact us at:

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