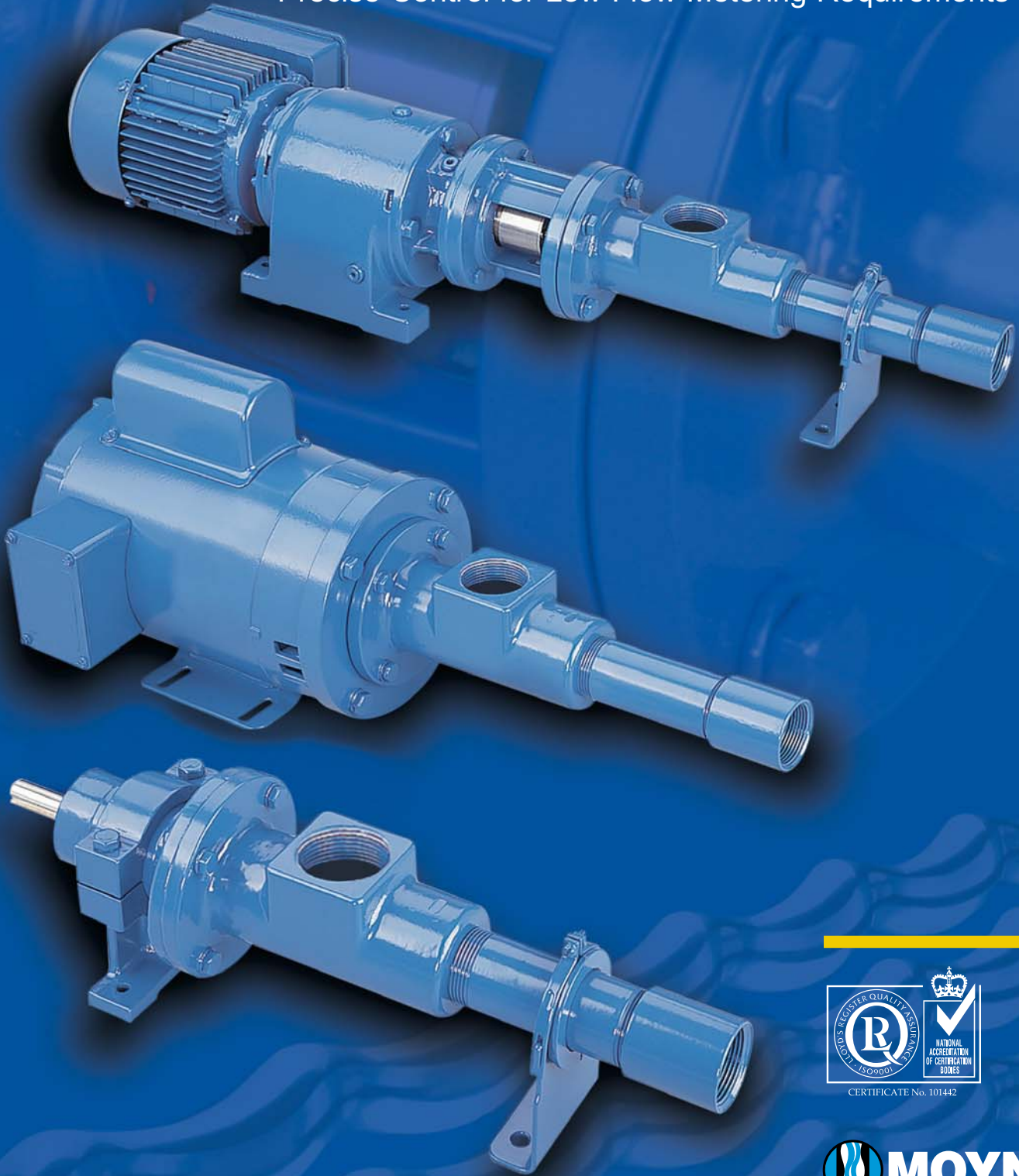


Moyno® Metering Pumps

Precise Control for Low Flow Metering Requirements



CERTIFICATE No. 101442



Always the Right Solution™

Moyno® Metering Pumps

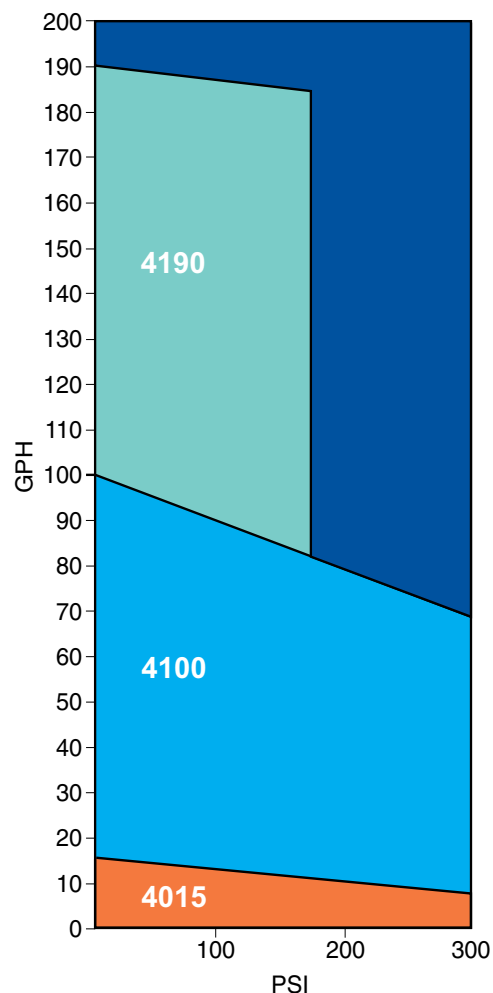
Performance Advantages for Precise Flow Control

Moyno® Metering Pumps feature highly accurate, repeatable flow rates for pin-point flow control. Designed to handle a wide range of fluids, from clean, clear liquids to abrasive, corrosive fluids, solids in suspension and viscous materials, Moyno Metering Pumps provide economical, efficient performance for metering liquids under low flow conditions in process applications, including chemical dosing, sampling, polymer metering and many others. The Moyno progressing cavity design offers many advantages not found in other types of positive displacement pumps.

- Capacities from 0.1 to 190 gph
- Pressures to 300 psi
- Sealed universal joints for longer life
- Simple, on-site maintenance for reduced costs
- Low power consumption and operating costs
- No valves to clog, stick or vapor lock
- All configurations available in cast iron and 316 stainless steel

- Handles abrasives, corrosives, solids in suspension and viscous fluids
- Smooth, non-pulsating flow
- Pressure capability independent of speed
- Oversize suction and discharge ports for viscous fluid flow
- Low NPSH requirement
- Low shear
- Self-priming
- High suction lift to 28 feet
- Suction port can be rotated to four positions, 90° apart
- Only rotor/stator change required to change capacity
- Variable speed drives for precise control
- Hopper available for open throat applications
- Wide variety of drive options
- Mechanical seals or packing
- Close-coupled and motorized configurations in cast iron and stainless steel
- Low total cost of ownership

Metering Pump Models and Flow Ranges

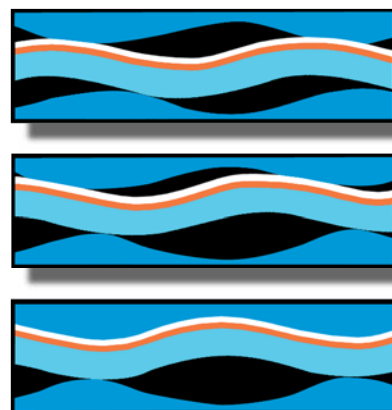


How a Moyno Metering Pump Works

Although the geometry of its pumping elements may seem somewhat complex, the principle of progressing cavity pump operation is deceptively simple.

The key components are the rotor and stator. The rotor is a single external helix with a round cross-section, precision machined from high-strength steel. The stator is a double internal helix molded of a tough,

abrasion-resistant elastomer, permanently bonded within an alloy steel tube. As the rotor turns within the stator, cavities are formed which progress from the discharge end of the pump, conveying the pumped material. The continuous seal between the rotor and the stator helices keeps the fluid moving steadily at a fixed flow rate proportional to the pump's rotational speed.



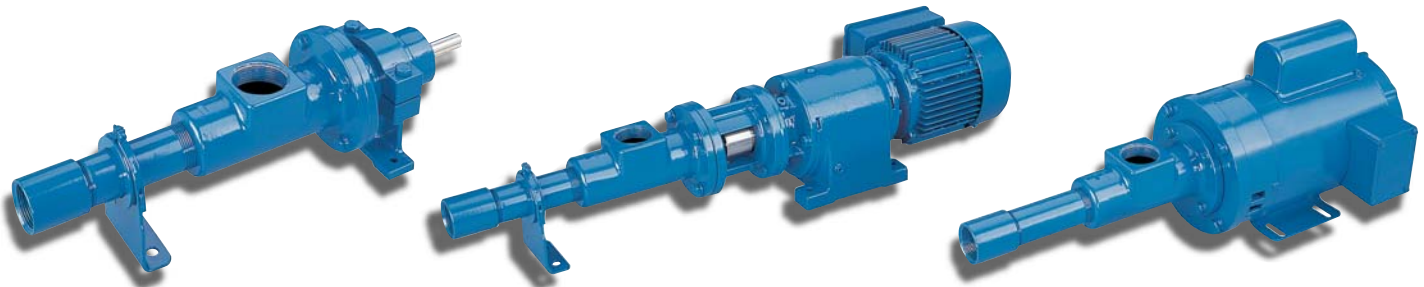
Moyno® Metering Pumps

Design Advantages for Application Versatility

Moyno Metering Pumps deliver smooth, metered flow free from pulsations and variations in velocity and volume to prevent material waste or mixture imbalance. The efficient progressing cavity pump design offers longer service life, especially in abrasive applications, and consistent metered flow.

Moyno Metering Pumps handle a wide variety of applications throughout the world in such industries as:

- Chemical Processing
- Petroleum Refining
- Pulp & Paper
- Food & Beverage
- Petrochemical
- Wastewater Treatment



Bare Shaft Configurations

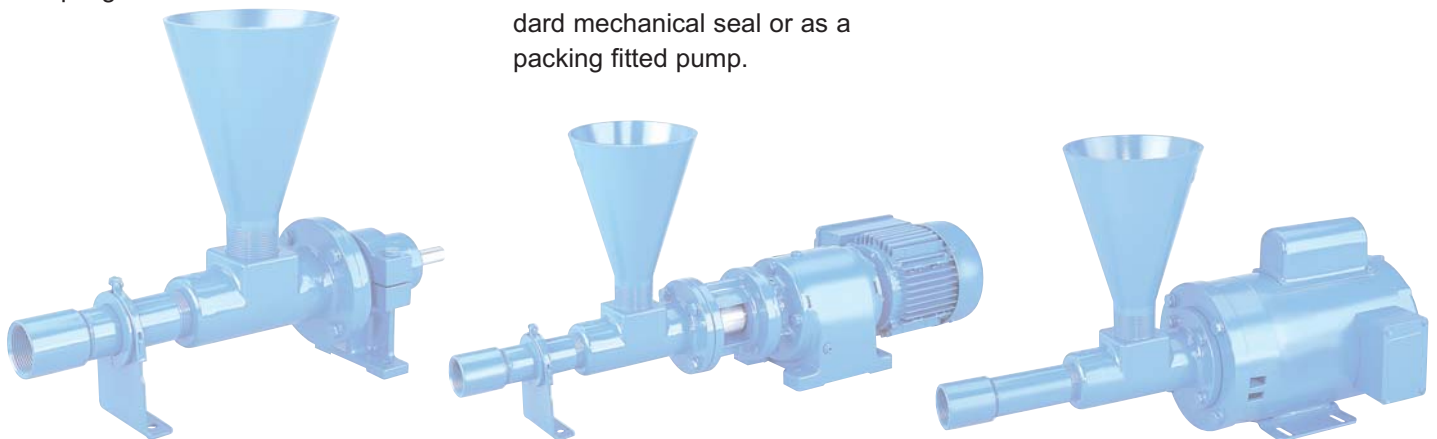
Moyno Bare Shaft Metering Pumps provide precise, cost-effective metering for applications requiring a separate drive. The Moyno Metering Pump is standard with a mechanical seal and extra-large ports for handling thick, viscous fluids. The 3-1/2" centerline height matches standard motor centerline heights for easy coupling to the drive motor.

Close-Coupled Configurations

Moyno Close-Coupled Metering Pumps offer a variety of drive options, from a 56C-Face or 140TC-Face motor to a gearmotor drive. Variable speed drives are optional. Pumps are also provided to customers who want to add their own motor, gearmotor, or variable speed drive. Close-coupled pump models are available with the standard mechanical seal or as a packing fitted pump.

Motorized Configurations

Moyno Motorized Metering Pumps provide the most compact models available. These space-saving motorized pumps are available with AC and DC variable speed drives and offer accurate control for precise dosing applications.



Moyno® Metering Pumps

Range Chart

	Description	Typical Model No. ->	A	4	015	A	S	S	Q	3	S	A	A
Type	Standard Bare Shaft		A										
	Close-Coupled		B										
	Motorized		C										
Stages	4-Stage		4										
Capacity, Size	15 GPH Max.				015								
	100 GPH Max.				100								
	190 GPH Max.				190								
Drive Options	None (Bare Shaft)					A							
	56C-Face (Close-Coupled)					B							
	140TC-Face (Close-Coupled)					C							
	SEW Eurodrive (Close-Coupled)					D							
	.5 HP DC-90V (Motorized)					E							
	1.0 HP DC-90V (Motorized)					F							
	.5 HP AC 230/460-3-60 (Motorized)					G							
	1.0 HP AC 230/460-3-60 (Motorized)					H							
	.5 HP AC 115/230-1-60 (Motorized)					J							
	1.0 HP AC 115/230-1-60 (Motorized)					K							
	Nord (Close-Coupled)					L							
	Special To Order					X							
	Body Materials	Cast Iron						C					
Stainless Steel							S						
Internal Materials	416 Stainless Steel							D					
	316 Stainless Steel							S					
Stator Materials	Nitrile								Q				
	Natural								R				
	EPDM								B				
	Fluoroelastomer								F				
Mark Number	U.S. Version, 1997									3			
	Metric Version, 1997									1			
Sealing	Single Mechanical Seal, Standard										S		
	Double Mechanical Seal (Close-Cpl., Bare Shaft Only)										D		
	Packing (Close-Coupled, Bare Shaft Only)										A		
	Special To Order										X		
Internal Variations	Standard Non-Plated Shaft											A	
	Special To Order											X	
Rotor Variations	Standard Plated												A
	Non-Plated												B
	Special To Order												X

Hopper Available for Open Throat Applications!

Always Specify Genuine Moyno Replacement Parts!

For information about Moyno products or for technical assistance, write or call:

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 Springfield, OH 45501-0960
 U.S.A.
 Telephone:1-877-4UMOYNO
 Facsimile:937-327-3572
 Web site: www.moyno.com

Note: Information contained herein is subject to change without notice. Before making a final product selection, please contact a Moyno representative.

Your Moyno Authorized Distributor is:

Bulletin 96-M



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