

Plunger pump



“RMPG Series”

Rotomake Engineering International is a trusted name in precision fluid handling solutions, offering high- performance pumps designed for industrial reliability. Our plunger pumps are engineered for accuracy, long life, and dependable performance in demanding process applications.

Plunger Pump – Technical Details

1. PUMP TYPE

- Positive Displacement Reciprocating Type Plunger Pump
- Single / Double / Triple Plunger Design available

2. CAPACITY RANGE

- 0 LPH to 10,000 LPH (customizable) • Flow adjustable from 10% to 100% during operation

3. PRESSURE RANGE

- Up to 400 bar depending on model

4. METERING ACCURACY

- $\pm 1\%$ of set point under steady-state condition

5. MATERIAL OF CONSTRUCTION

- Pump Head: SS304 / SS316 / Alloy 20 / Hastelloy (optional)
- Plunger: SS316 / Ceramic Coated / Hard Chrome Plated
- Gaskets: PTFE / Graphite / EPDM / Viton
- Valves: SS316 / Ceramic Ball / Tungsten Carbide Options

6. DRIVE ASSEMBLY

- Heavy-duty gearbox with oil bath lubrication
- Electric motor: 0.25 HP to 10 HP depending on model
- Speed: 415V, 3 Phase, 50 Hz

7. SEALING SYSTEM

- Gland packing / PTFE packing
- Mechanical seal available on request

8. SUCTION & DISCHARGE CONNECTION

- Suction: ½" to 2"
- Discharge: ½" to 1.5"
- Flanged or threaded connection as needed

9. APPLICATIONS

- Chemical Dosing
- Boiler Feed Water Treatment
- Fertilizer Plants
- Pharma & Food Process
- Oil & Gas Injection
- Effluent Treatment Dosing

10. STANDARD FEATURES

- Rigid crank mechanism for smooth operation
- Adjustable stroke length
- High volumetric efficiency
- Designed for continuous duty operation
- Low maintenance construction

11. OPTIONAL ACCESSORIES

- Pressure Relief Valve
- Pulsation Dampener
- Back Pressure Valve
- Calibration Cylinder
- Base Frame with Coupling Guard

Rotomake Plunger Pump Advantages

- Precise and steady dosing performance
- Suitable for high pressure applications
- Engineered for long service life
- Low operational noise and vibration
- Customizable based on process requirement
- Reliable for continuous 24×7 operation