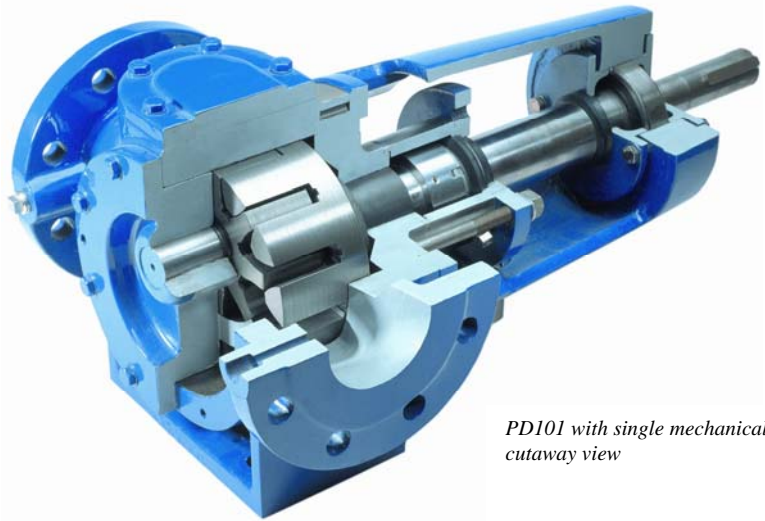




ROTAN® Petrochemical Duty Series Pumps Features

Rotan Pumps PD (Petrochemical Duty) rugged, carbon steel, internal gear pump series are specifically designed for pumping requirements where shock resistance, extra strength, durability, and extended operation life are a requirement. With two moving parts, the “gear-within-a-gear” principle ensures positive flow and low shear transmission of liquid. They possess excellent vacuum capability and can operate equally well in either direction. The simple design allows the pump to be adaptable to a wide range of applications and conforms to most API 676 requirements. This makes the PD series ideal for pumping liquids such as- fuel oils, gasoline, lube oils, greases and other hydrocarbon based fluids.



PD101 with single mechanical seal cutaway view

With its modular design, the Rotan series pumps provide interchangeability of parts within the 10 PD pump size variations. This permits easy conversion from a standard to a specialized pump. All PD series pumps come with carbon graphite bearings and integral safety relief valve as a standard. Furthermore, the “true” back pullout design, when used in connection with spacer coupling, allows easy disassembly/inspection of the unit without removing the casing from the process line, reducing down time. The three smaller size pumps are capable of pumping up to 5 to 30 GPM, and can be directly coupled to 1200 or 1800 RPM motors. The larger 2”, 2.5” and 3” ported pumps are available in capacities up to 40 to 130 GPM and can be directly coupled to 1200 RPM motors. For your higher capacity petrochemical processing applications, the 4”, 5”, 6” and 8” ported pumps are suited to pump up to 750 GPM.

All PD series pumps are Performance and Hydrostatically tested at the factory for quality insurance before released to the customer. Test reports can be supplied upon request at no additional charge.

Capacity Range	Up to 750 GPM
Speed	Up to 1800 RPM
Differential Pressure	Up to 250 psi for sizes 26-81 Up to 150 psi for sizes 101-201
Suction Lift	Up to 15” Hg vacuum while priming Up to 24” Hg vacuum while pumping
Viscosity Range	.1 to 175,000 cSt (as standard) 32 to 350,000 SSU (as standard)
Temperature	Up to 500° F
Jacket Pressure	Up to 150 psi (as standard)
Relief Valve Setting	Approx. 20 psi above system Design pressure is recommended

Key Features and Benefits

1. Flexible sealing options. (See configurations page)
2. Modular back pull out design
3. Opposing inlet and outlet connections with oversized ports
4. Self-priming with large suction capabilities
5. Low NPSH requirements
6. Self-draining top mounted integral safety relief valve.
7. No reduction in speed required on six smaller sizes
8. Complete heating/cooling jacketing available on
9. Parts Interchangeability
10. Performance and hydrostatic test are standard

