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LOBE (TROCHOIDAL) PUMPS - RT Series

WORKING PRINCIPLE:

An internal lobe pump unit consists of an inner and outer rotor. The inner rotor has one teeth lesser than the outer rotor. RT series uses a trochoidal inner rotor and an outer rotor formed by a circle with intersecting circular arcs. The inner rotor is located off-center and both rotors rotate. During part of the assembly's rotation cycle, the area between the inner and outer rotor increases thus creates a vacuum. This vacuum creates suction, and hence, this part of the cycle is where the intake is located. Then, the area between the rotors decreases, causing compression. During this compression period, fluids can be pumped, or compressed (if they are gaseous fluids).

Smooth rolling action of the rotors results in minimum noise, vibration and pulsation - less flow.

MAIN APPLICATIONS:

- Transfer of lubricating oils
- · Pressure lubrication and cooling of bearings
- Oil circulation through cooler, gear lubrications, etc.
- Transfer of fuel oils
- Boosting of fuel oil pressure for oil burner service and fuel injection pumps

LIQUIDS:

 Pump has been designed to handle fuel and lubricating oil as well as other fluids with similar properties



ROTARY TROCHOIDAL PUMP

PRODUCT SPECIFICATIONS AN	ID FEATURES:
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Rotors	Sintered Iron, Cast Iron
Casing	Cast Iron
Shaft	SS 410
Seal	Oil Seal (Nitrile) / Gland / Mechanical Seal
Capacity Outlet	03 - 200 lpm
Pressure	Up to 8 bar
Viscosity	6 - 1500 cSt
Temperature	Up to 80°C
Speed	Up to 1450 rpm
Drive	Direct only
Rotation	Anti-clockwise facing pump drive shaft

VALUE PROPOSITIONS:

- · High speed operation and vibration free running
- · Smooth, pulsation free flow
- Negligible maintenance
- High suction lifts and low noise level
- High volumetric efficiency and overall efficiency
- · Compact and light weight design
- Ease of dismantling and assembly

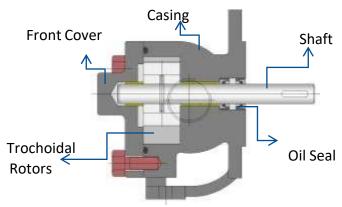
MARKET SEGMENTS:

- Power Generation
- Oil & Gas
- Machine Tool
- Cement
- Steel



CONSTRUCTION:

There are only two pumping elements in a Rotary Trochoidal pump. The flow of liquid is axial through elements. Also there is only one shaft, well supported at both ends of rotor for smooth, vibration-free running and eliminating bearing problems normally found in conventional gear pumps. The pumps has a very low noise level.



PERFORMANCE DATA:

Pump Model	Capacity /	Pressure (bar)				Suction &	
	Power	0	2	4	6	8	Discharge
RT-03	Capacity (Ipm)	3.85	3.72	3.60	3.45	3.00	1/4" BSP
	Power (kW)	0.09	0.12	0.17	0.20	0.24	
RT-10	Capacity (Ipm)	11.8	11.54	11.11	10.71	10	1/2" BSP
	Power (kW)	0.16	0.22	0.28	0.34	0.45	
RT-15	Capacity (Ipm)	17.6	17	16	15.5	15	1/2" BSP
	Power (kW)	0.24	0.3	0.38	0.48	0.58	
RT-20	Capacity (Ipm)	25	24	22	21	19	1/2" BSP
	Power (kW)	0.26	0.36	0.45	0.55	0.7	
RT-40	Capacity (Ipm)	45	44	43	41	40	1" BSP
	Power (kW)	0.21	0.3	0.5	0.7	0.85	
RT-80	Capacity (Ipm)	86	84	82	81	76	1-1/2" BSP
	Power (kW)	0.6	0.7	1.1	1.5	1.9	
RT-125/32	Capacity (Ipm)	131	129	126	123	120	2" BSP
	Power (kW)	1.24	1.59	2.03	2.58	3.18	

Testing medium: Lube Oil

Viscosity: 75 cSt

Speed: 1450

* For special requirements, contact CIRCOR Sales Team

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