



**ROVAR
PUMPS**

Pumps & beyond...

the most
dependable range of
positive displacement
pumps



Internal gear pump 'RIG'

Applications :

- Steam or hot oil jacketed construction for LSHS / Bitumen Pumping
- Liquids of any viscosity and temperature, which can be corrosive, abrasive and dangerous for the environment.
- With hardened and ground gear for handling low viscous liquids.
- With profile ground gear for high pressure duties, at low noise levels.
- For transfer, dosage, processing, loading and unloading duties
- Used in chemical, paint, ink, sugar, construction, confectionery, oil industries, refineries and storage installations.

Typical liquid list :

Asphalt, Butter, Emulsion, Grease, Glucose, Crude oil, Castor



oil, Coconut oil, LABSA, Epoxy resin, Furnace oil, Chocolate, Glycerin, Gum, Ink, Molasses, Soap, Polyol, Plasticizers, Sodium silicate, Wax etc.

Material of construction :

Standard

Casing	:	CI, IS, 210 GR 35
Shaft & gears	:	EN-24HG
Bush	:	Sintered bronze
Mechanical Seal	:	TC / TC Viton

Optional

Casing	:	SS 316 / SS 304
Shaft & gears	:	SS 316 / SS 304
Mechanical Seal	:	TC / TC Viton

Advantages :

- External ball bearing to take care of radial forces.
- Suitable to operate with reduction gear box. vee belt drive, variable drives etc.
- Self-priming.
- Optimized for very low maintenance.
- Bidirectional with full performance.
- Non- pulsating constant flow and no foaming.
- One shaft and shaft seal.
- Seal flexibility, mechanical seal, oil seal or gland packing.
- Built in safety relief valve a standard part to safe guard the pump and system against over pressure

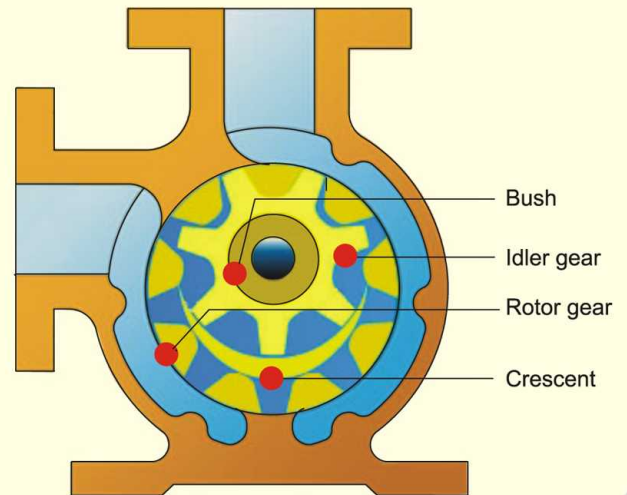
Working principle :

Rovar internal gear pumps are self priming positive displacement rotary pumps, two gears, the rotor and the idler, generate the flow.

With every revolution of the pump shaft a definite amount of liquid enters the pump through the suction port.

This liquid fills the spaces between the teeth of the rotor and the idler. The crescent on the pump head splits the flow of liquid as it moved smoothly towards the discharge port. When the gears mesh, the liquid is slowly forced out of the pump.

Cross sectional view



Performance of RIG series :

Model	Size Inlet & Outlet ANSI flange (DIN flange mm)	Viscosity cSt	Speed rpm	Capacity lpm	Power Requirement kW		Weight kg
					4 Bar	10 Bar	
RIG 20	½" x ½" BSP	250 5000	1450 960	25 10	0.7	1.4	5
					0.6	1.2	
RIG 60	1" x 1" BSP	250 5000	1450 960	60 40	1.2	1.5	11
					1.0	1.4	
RIG 100	1½" x 1½" (40)	250 5000 30000	1450 960 500	100	1.5	2	14
				70	1.3	1.6	
				35	1.2	1.3	
RIG 250	2" x 2" (40)	250 5000 30000	1450 960 400	250	3	4.5	34
				160	2.7	3.3	
				75	2.2	2.9	
RIG 350	2½" x 2½" (65)	250 5000 30000	1450 720 350	350	5.2	7.9	48
				170	4.9	6.4	
				90	3.7	4.4	
RIG 700	3" x 3" (80)	250 5000 30000	1450 720 250	700	8.2	12	86
				450	8.9	10.2	
				300	7.8	9.2	
RIG 1200	4" x 4" (100)	250 5000 30000	960 720 200	1200	12	18.5	170
				875	13.2	16.2	
				300	11.5	18.2	
RIG 1900	6" x 6" (150)	250 5000 30000	960 500 200	1900	15	30.4	250
				500	16	28.7	
				525	14.8	26.4	

The company reserves the right to change any specification without prior notice



Manufactured by
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