ORBIT PUMPS & SYSTEMS PVT. LTD.

ROTARY GEAR PUMPS

- · Hardened Gears for Heavy Duty
- Easy Maintenance
- Leakless / Leakproof Design

- High Flow at moderate Pressure
- · Reliable, Efficient & Durable
- · Low operating & maintenance cost







Roto Piston Pump



- Adhesive
- Chocolate
- Dowtherm
- Edible Oil
- Emulsion
- F. O.
 - Formaldehyde
- Fats
- · Fatty Acid
- Givcoi
- H. F. O.
- Honey
- Insecticides
- Lacquer
- L.D.O.
- · Lube Oil
- LSHS
- LYE
- *LATEX
- · Mineral Gils
- Mayonnaise
- Maize
- Paraffin
- · Printing ink

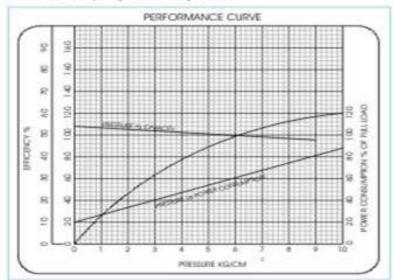
Flange Connections

- · P. U. Foam
- Plasticizers
- Peanut Butter
- Resins
- Starch & Syrup
- Sodium Silicate
- Soap
- TAR
- Varnish
- Viscose

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PERFORMANCE CURVES OF ROTARY GEAR PUMP:

1. Pressure, Capacity & Efficiency Curves.

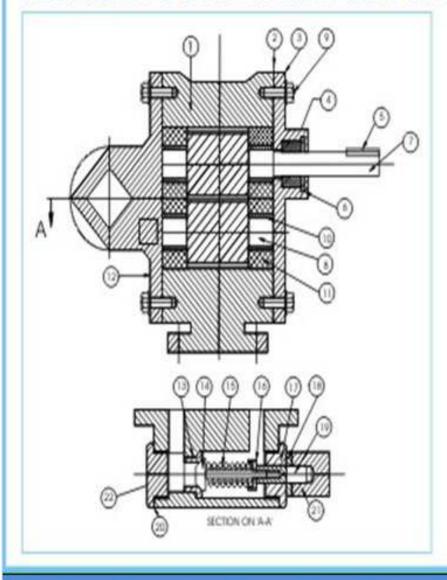


Input B.H.P to pump, can be calculated by following formula

3. Relief Valve Operation

Built in pressure relief valve is provided in pumps to operate at higher than rated pressure i.e. it starts operating at 1 kg/cm higher than rated pressure and fully opens 20% higher than rated pressure, taking maximum 30% higher power than rated power.

CROSS SECTION OF STANDARD ROTARY GEAR PUMP:



	1
Cap Nut	- 1
Packing	2
Relief Valve Adjusting stud	- 1
Lock Nut	-1
Plug at Suction Side	1
Spring Cover	1
Spring	1
Valve	1
Valve Seat	- 1
Back Cover	1
Wear Plate	4
Sleeve Bush / Bearing	4
Bolt with Spring Washer	8
Driven Shalt with Gear	1
Driving Shaft with Gear	-1-
Circlip	1
Key	1
Oil seal	2
Front cover	1
Packing	
Main Body	1
Description	Qty.
	Packing Relief Valve Adjusting stud Lock Nut Plug at Suction Side Spring Cover Spring Valve Valve Seat Back Cover Wear Plate Sleeve Bush / Bearing Bolt with Spring Washer Driven Shaft with Gear Circlip Key Oil seal Front cover Packing Main Body