ROVAR PUMPS®
Pumps & beyond...

the most **dependable** range of self-priming centrifugal **pumps**

Selfpriming centrifugal pump RSC

Applications :

Rovar RSC pumps are self-priming centrifugal pumps suitable for handling clear, liquid contains solids in suspension, contaminated and low-viscosity liquids. The innovative design, eliminating the need for a non-return valve, results in less maintenance. The self-priming ability prevents the pump from running dry and ensures smooth and easy operation.

Rovar RSC pumps are available in cast iron, bronze or stainless steel. These pumps are suitable for corrosive, aggressive liquids

Industry details :

Typical industries are : Sugar, chemical, petrochemical pharma industry, oil, gas, Power plants, paper, plastic, paint industries and shipbuilding.

Rovar RSC series pump suitable for handling contaminated liquids & liquids containing air or gas. The compact design makes the pump easy to handle, whilst its robust design ensures trouble free life.

The RSC pumps are generally used on tanks or sumps or Gullies or bilge water in ship, where its high level of performance and self-priming ability ensure outstanding reliability in operation.

Range :

Capacity	:	upto 350 cum/hr
Head	:	upto 60 m
Suction head	:	upto 7 mtrs.
Solids	:	upto 40 mm dia.
Viscosity	:	upto 110 cst

Material of construction :

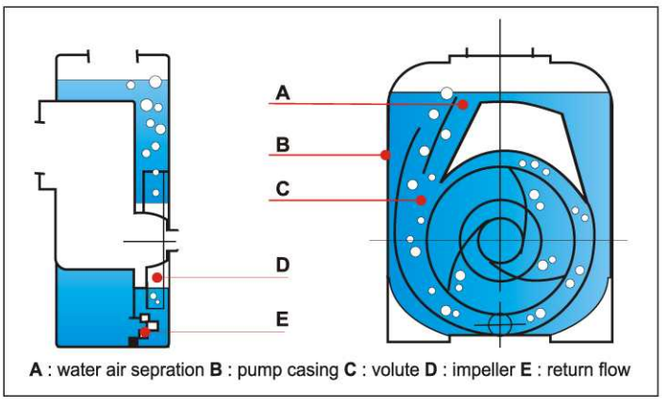
Standard	:	CI, SS, Bronze

Advantages :

- Self priming, without foot valve up to 7 m depth.
- Pumps liquids, solids, emulsion, aerated liquids, viscosity max of 110 cst.
- Pump can be installed well outside/above the liquid, thereby easy for operation, service & inspection
- Externally lubricated Mechanical seal for trouble free life & can run dry.
- Various material options like cast Iron, stainless steel & bronze.
- Electric motor, diesel engine, air motor, Hydraulic motors can be used as prime mover.
- Suitable for maximum pump speed of 3700 rpm approx.

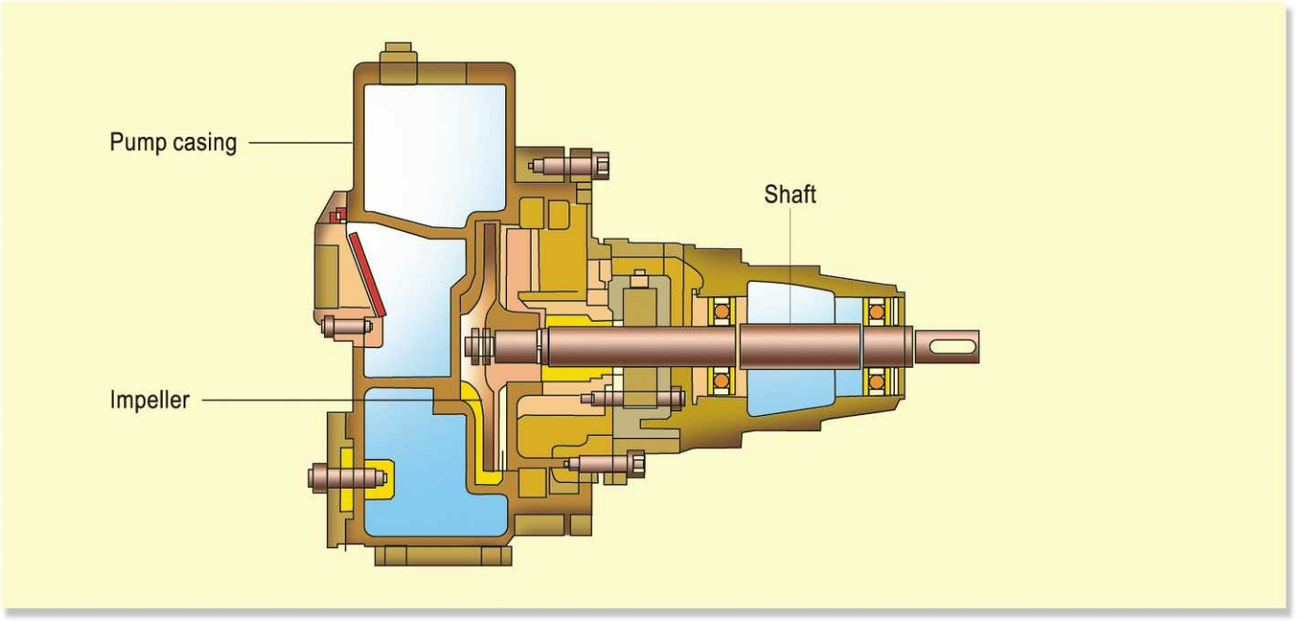
Working principle :

The self-priming operation of the RSC series is based on the injection principle. While starting, the pump sucks the air in the suction pipe and drawn into the pump, with the air and liquid mixture being compressed in the pump. This mixture flows to the top of the pump casing where the air separates from the liquid and is removed through the discharge pipe. The liquid keep recirculates in the pump casing until all air is evacuated from the suction pipe. The pump functions thereafter as a conventional centrifugal pump. Before first start-up, the pump casing must be filled once with liquid. The special design prevents the pump emptying after it has stopped pumping. In that way there is enough liquid in the pump for the next start-up.



A : water air sepration **B** : pump casing **C** : volute **D** : impeller **E** : return flow

Cross sectional view :



Performance of RSC series :

Model	Capacity cum /hr	Head m	Speed rpm	Motor kW	Size mm	Size in
RSC 25	15 - 10 - 5	10 - 18 - 27	2900	0.7	25	1
RSC 32	22 - 15 - 10	5 - 16 - 25	2900	1.5	32	1¼
RSC 50	40 - 32 - 22	5 - 14 - 25	2900	2.2	50	2
RSC 80	82 - 45 - 25	8 - 14 - 25	2900	3.7	80	3
RSC 100	140 - 80 - 38	7 - 15 - 23	1440	10	100	4
RSC 150	350 - 200 - 120	14 - 25 - 30	1440	30	150	6

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

Manufactured by
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An ISO 9001:2008 certified company

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