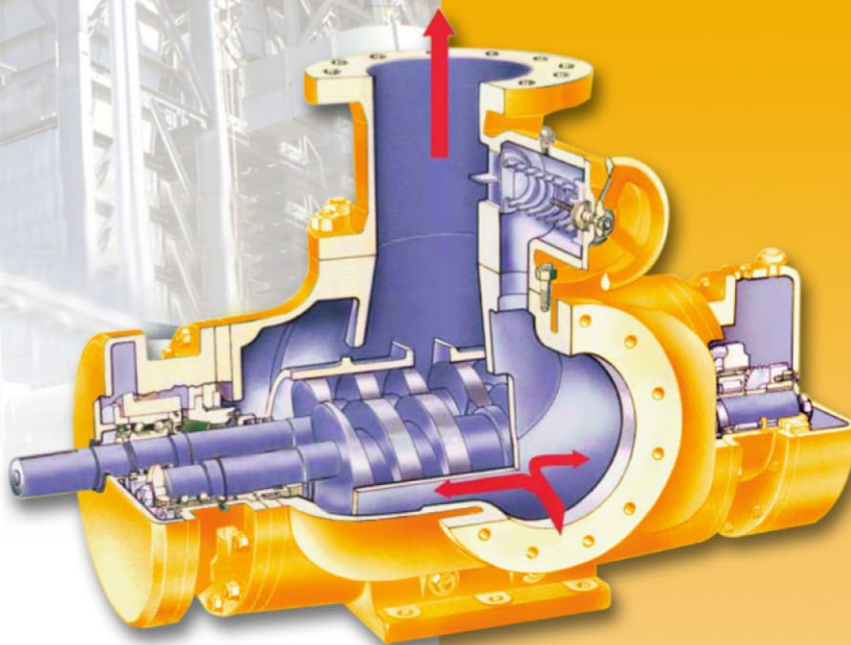




the most
dependable range of
positive displacement
pumps



Rovar twin screw pump 'RTS'

Applications :

Loading / unloading, transfer and process application for handling acids, bitumen, crude oil, chemical & corrosive fluids, dairy products, gasoline, glue, hydrocarbons, hydraulic controls, mineral oil, molasses, marine fuel oil, sea water, vegetable oil, very low & highly viscous liquid, liquid with entrained gases and many more.

Industries :

Color & varnish factories, chemical industry, cosmetic industries, food industries, mineral oil industries, oil burner, oil mills & starch factories, paper & pulp industry, petrochemical industry, refineries, ship building, soap & fats industry, storage tank, transmission and gear industries

Basic design, principle of operation :

ROVAR twin screw pumps are self-priming, double ended positive displacement pumps with external timing gears and bearings. As the screws rotate, cavities are formed between the individual screws. These hold a given volume of fluid, moving it axially as the screws rotate. The portion of the fluid that entered the pump was diverted to the left or right is then moved forward from left to center and from right to center. At the center the two flow paths rejoin and leave the pump through the discharge flange.

The screws do not mesh with each other. The drive to driven screw is transmitted by means of timing gears. The design provides complete axial balancing of the rotating elements and eliminates all metal-to-metal contact within the pump. This feature makes them ideally suited for dry running and can also be operated at low rpm.

They can handle all types of lubricating/non-lubricating abrasive & corrosive liquids with extremely low and high viscosity.

Advantages :

- Separate screw and shaft assembly design offer many advantages.
- Extremely good suction capability.
- Compact design and rugged construction.
- Various combinations of materials available.
- Partial / full heating jacket available in various designs.
- Different sealing arrangements possible.
- Low NPSH requirement.
- Casing available in cast construction and fabricated design with replaceable linear.
- Low maintenance cost.

Range :

ROVAR Twin screw pumps are available in two ranges : -

HORIZONTAL

Horizontal pumps with lateral suction flange, delivery flange directed to the top. The pump casings are symmetrically so that the suction line can be connected on the left or right side by simply turning the casing. Mostly pumps are installed in horizontal position on a base frame connected to motor by a flexible coupling.

VERTICAL

These are called IN-LINE-PUMP and are preferably installed vertically. Labyrinth packing with splash rings is used to avoid leakage. A flexible coupling connects the pumps and motor to each other or by motor lantern. Vertical ROVAR Screw pumps may be used with all types of drive, i.e. electric motor, Internal combustion engine, Steam turbines etc and can be stationary or portably used.



Performance

Size	Capacity m ³ /hrs	Max. pumping pressure (bars)
12	9	25
20	17.4	30
30M	40	40
30	67.5	40
40M	120	40
40	285	40
50	455	50
75	850	20
100	1140	15
125	1850	15

Materials of construction :

ROVAR Twin screw pumps are available in different combination of material to suits specific medium requirements. Twin screw pumps can be supplied with steel, cast iron, bronze or stainless steel body and shafts screw of stainless steel, bronze or alloy steel. The pump is equipped with in built balance pressure relief valve for safety. Heating of casing by heating foot or steam jacketed. Sealing arrangement by gland packing, single acting mechanical seal or special mechanical seals.



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

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