



the most **dependable** range of positive displacement **pumps**



Twin screw pump 'RTS'

Applications :

Rovar twin screw pumps are suitable for handling low and high viscous liquids. Loading and unloading of tankers, railway wagons, barges, ships, bulk cargo handling, lubrication, circulation and cooling application in industries like petroleum refiners, terminals, depots, oil blending stations, thermal power plants, steel plants, fertilizers, sugar, paper industries, marine application.

Typical liquid list :

High flow rate- medium pressure applications for :
Furnace oil, HSD, LSHS, molasses, petroleum products, emulsions ,edible oils , glycol ,shampoo, sorbitol, soya oils, bitumen, additives, base oil, vegetable oils, soaps, paraffin, residues and all other viscous lubrication liquids

Rovar Twin Screw Pumps are available in two ranges

Horizontal :

Horizontal foot mounted pump with inlet/outlet in 180 deg orientation. Two models available 1. Pump with internal bearing - suitable for liquid having lubricating properties. 2. Pump with external bearing- Suggested for non-lubricating liquids (Bitumen/black liquor).

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. These 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.

Range :

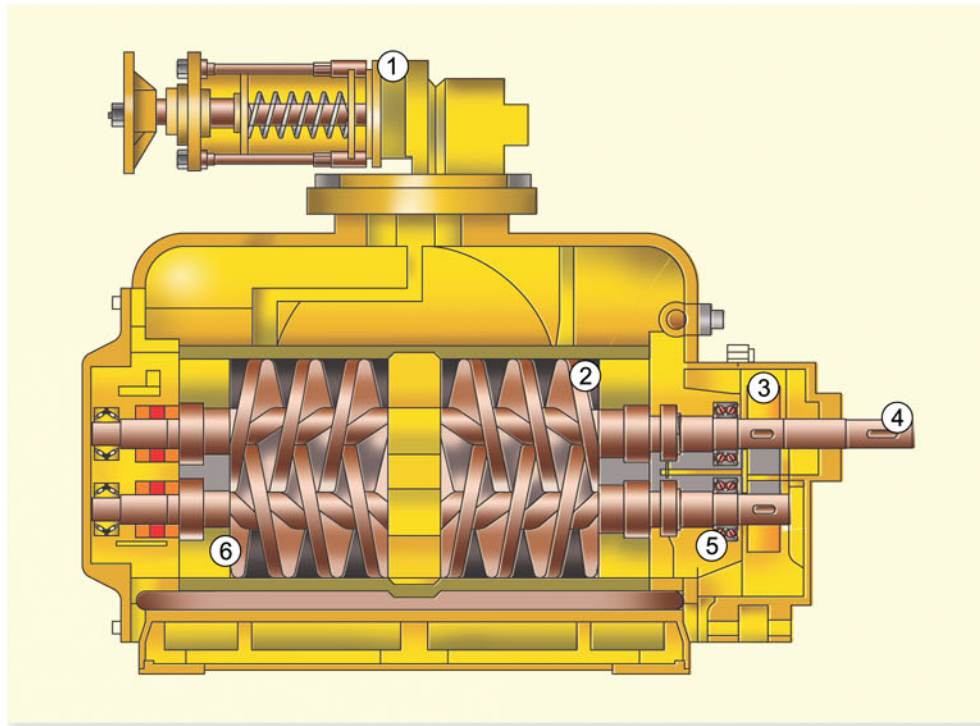
Capacity	:	upto 10,000 lpm
Pressure	:	upto 50 kg / cm ²
Temperature	:	upto 300 °C
Viscosity	:	upto 50,000 cSt & more

Material of construction :

Casing	:	CI, WCB, FAB.
Screws	:	EN 24HG, SS
Linear	:	CI.
Shaft	:	EN 24HG, SS

Features :

- 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
- Positive clearance between screws
- No metal to metal contact, driven through timing gears
- Insensitive to viscosity variations
- Shaft seal under suction pressure
- Complete elimination of axial thrusts
- Smooth and steady flow



1. Relife valve 2. Main screw 3. Timing gears 4. Drive shaft 5. Bearing 6. Driven screw

Material 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 shaft 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 seal.

Performance of RTS series :

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

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

An ISO 9001:2008 certified company



Manufactured by
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