

INDAR

RO BP

Pumps and motors
surface



Applications:

Booster pump for combination with energy recovery.



The **BP** series of the INDAR RO family is composed of surface pumps and motors designed for pumping seawater in desalination plants. The main application of the **BP** series is in reverse osmosis processes for desalinating seawater and brackish water. These are highly-reliable booster pumps, specially designed to work with high pressures both in terms of suction and pumping.

The water captured from the sea and which is going to be injected in the membranes is divided into two flows: the first goes through the high-pressure pump while the second goes to the pressure recovery devices and then Indar's booster pump. Afterwards, both flows come together again before entering the membranes. This process can reduce the size of the high-pressure pump and basically improves the efficiency of the desalination process.

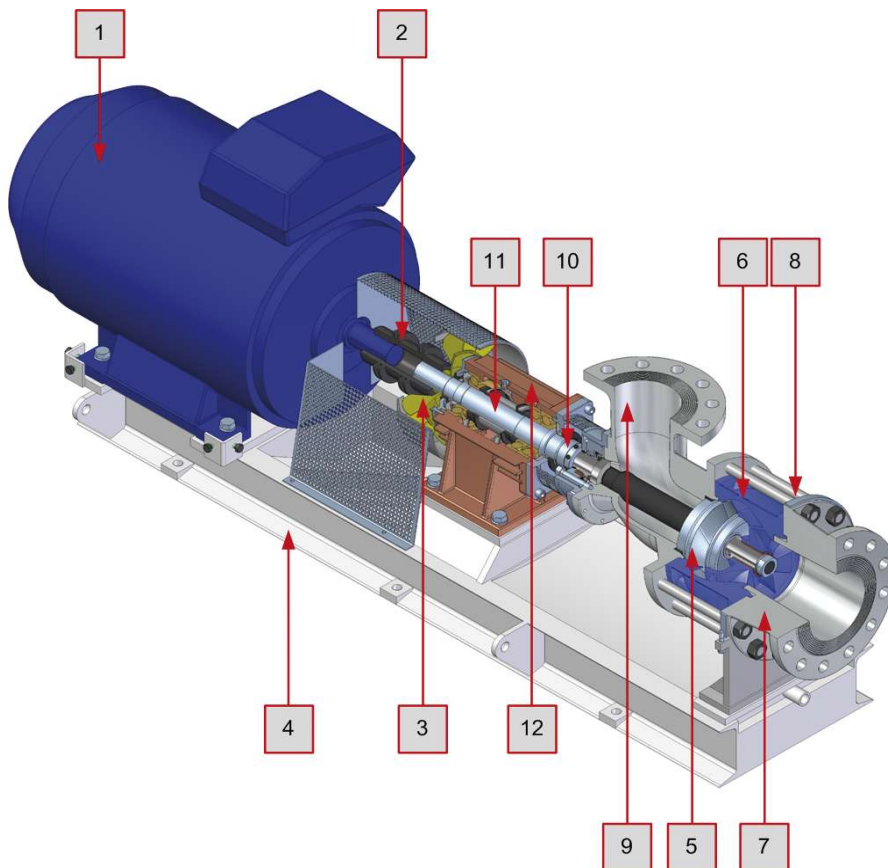
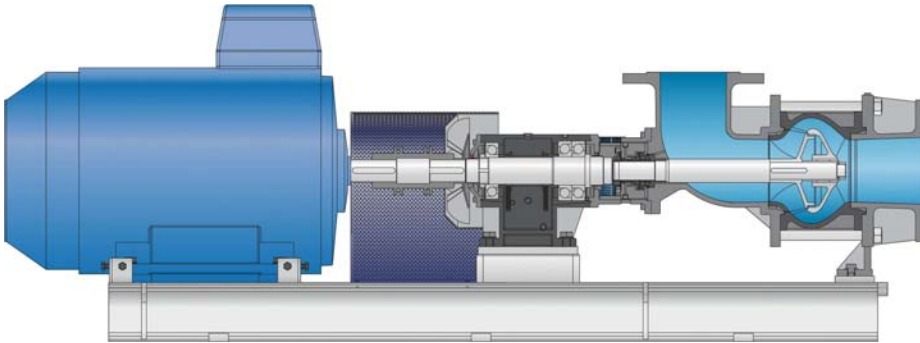
The characteristics of this type of application represent a highly-robust pump, able to withstand the high incoming and outgoing pressures to which it is subjected (up to 90 bar), as well as being highly-reliable, this being one of the main features of the INDAR RO pump family.

Features

Flow
THD
Power
Voltage
Speed
Materials
Type of installation
Features

Ranges

50 m³/h-800 m³/h (220 GPM-3500 GPM)
2 bar-10 bar (65 FT-330 FT)
30 kW-450 kW (40 HP-600 HP)
220V-11kV
1450 rpm-3500rpm
Stainless steel (316, 904L, Duplex, Super Duplex)
Horizontal on surface
Ranges



Construction options

- Horizontal on surface

Range of materials

Stainless steel:
316
904L
Duplex
Super Duplex

- 1 Three-phase asynchronous pump-driving motor
- 2 Flexible coupling
- 3 Bearing housing cover
- 4 Bedplate
- 5 Impeller
- 6 Pump body
- 7 Discharge body
- 8 Fixing brace
- 9 Suction body
- 10 Mechanical seal
- 11 Drive shaft
- 12 Bearing housing