

SPLIT CASING PUMP FOR DESALINATION

HIGH EFFICIENCY FOR A LOW ENERGY COST, LOW REQUIRED

NPSH, LOW NOISE AND VIBRATION LEVELS, CONSTRUCTION

ADAPTED TO CUSTOMER SPECIFICATIONS.

SC

Design :

- / Horizontal centrifugal single stage pumps with radial suction and discharge. Working conditions according to curves hereunder.
- / Pump casing flanges according to ISO PN 10 - Other flange standards upon request
- / Double entry impeller, between bearings construction.
- / Oil or grease lubricated bearings, depending on working conditions.
- / Common welded steel base plate under pump and motor, with drip tray system (optional).
- / Shaft seal insured by mechanical seal (API plan 11, 31, or 32 on standard, others on request) or alternatively by gland packing. Options : manometers, pressure switch, flow meter, temperature sensors, etc.
- / Reduced maintenance costs thanks to casing wear rings durably protecting fixed and turning parts.
- / Improved MTBM: high safety-factor design on shaft, high life-length calculation on bearings.
- / Corrosion resistance improved by shaft and casing wear rings in stainless steel.
- / Preventive control operations eased by the dismantling of upper casing part (no need to remove inlet and outlet pipings).
- / Coupling with spacer simplifies the access to the bearing frame and the seal chamber (driving end).
- / Jack screws (motor side) for an easier alignment setting.
- / Preventive monitoring assured by temperature sensors on each bearing. For an improved maintenance, pumps can be equipped with vibration sensors, SPM nipples, connexion boxes



Performances :

- / Flow : up to 15 000 m³/h (66 000 US gpm)
- / Total Dynamic Head : up to 160 m (525 ft)
- / Maximal Working Pressure : up to 16 bar (232 PSI)
- / Working Temperatures :
from 10 to 80 °C (50 to 176 °F)
- / Rotating speed : up to 1 800 rpm
- / Variable speed driving acceptable
- / Higher capacities and heads upon request

Standard materials :

- / Casing and impeller : Mainly Stainless steels (Duplex or Super Duplex)
- / Other materials upon request : Ductile or Cast Irons, Carbon Steel, Special Alloy Steels, Bronze, Aluminium Bronze, Cu-Ni Bronze, Hastelloy ...

Industrial applications :

- / Pump designed for a huge panel of fluids : Especially filtered liquids as sweet water, distillate water, condensate water, filtered water (...) or lightly loaded liquids as sea water, brine, raw or treated water (...)

