

## Axially split volute casing pumps with double entry radial impeller



**Omega pump type SD/SDL Axially Split Volute Casing Pumps are of single-stage with double suction/entry radial impeller for horizontal or vertical installation design suitable for waterworks, irrigation, drainage, power stations, HVAC, industrial water, fire fighting and other general applications.**

### Features

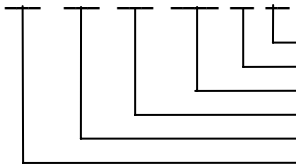
- Up to 25 bar pump casing working pressure as standard design, robust and solid construction and leak-tight due compact joint flange with long, prestressed bolts to ensure durability even under high suction pressure.
- Double volute design to eliminate radial load by balancing the hydraulic force of liquid within the pump casing, extend seal and bearing life time and minimizes vibration and noise.
- Inline design for suction and discharge nozzles are having same center and provide for easy installation. Flange can be drilled according to ISO, DIN, BS, JIS or ANSI.
- Supply in clockwise & counter clockwise -rotation is possible.
- High-performance impeller ensure advance excellent hydraulic characteristic.
- Friendly shaft design completely sealed and dry for zero corrosion, short and rigid with negligible vibration, no tread exposed to pumped medium, adjustment-free assembly, quick and easy assembly/dismantling of the rotor component due to elastically prestressed mounting.
- Replaceable shaft protecting sleeve for soft packaged gland and any type of mechanical seal for various application
- Long life bearing, grease lubricated antifriction bearing for a long service life, oil lubricated as optional supply.

## OPERATING DATA

Pump size	DN 80 up to 400
Capacity	up to 1000 l/s
Total Head	up to 160 m
Operating pressure	up to 25 bar
Operating temperature	up to 105°C

## NOMENCLATURE

SDS (L) 200-420 A I



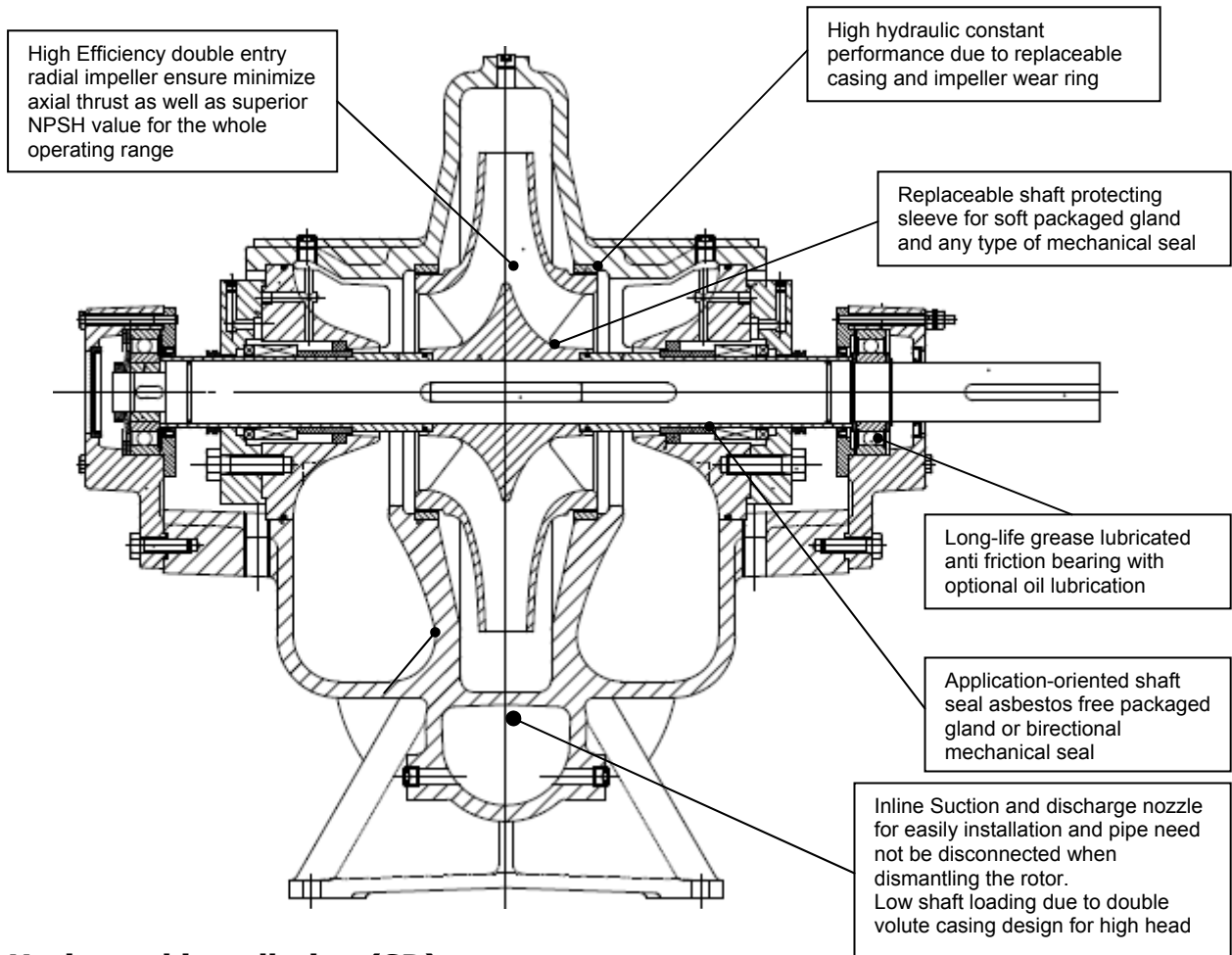
Reduce impeller diameter  
Impeller type  
Nominal impeller diameter  
DN discharge Nozzle  
Vertical design  
Pump type / series

## MATERIALS

Volute casing	Cast Iron Ductile Iron Cast Steel Stainless Steel
Impeller	Cast Iron Brass Bronze Stainless Steel
Shaft	Carbon Steel Stainless Steel
Casing Wear Ring	Cast Iron Brass Bronze Stainless Steel

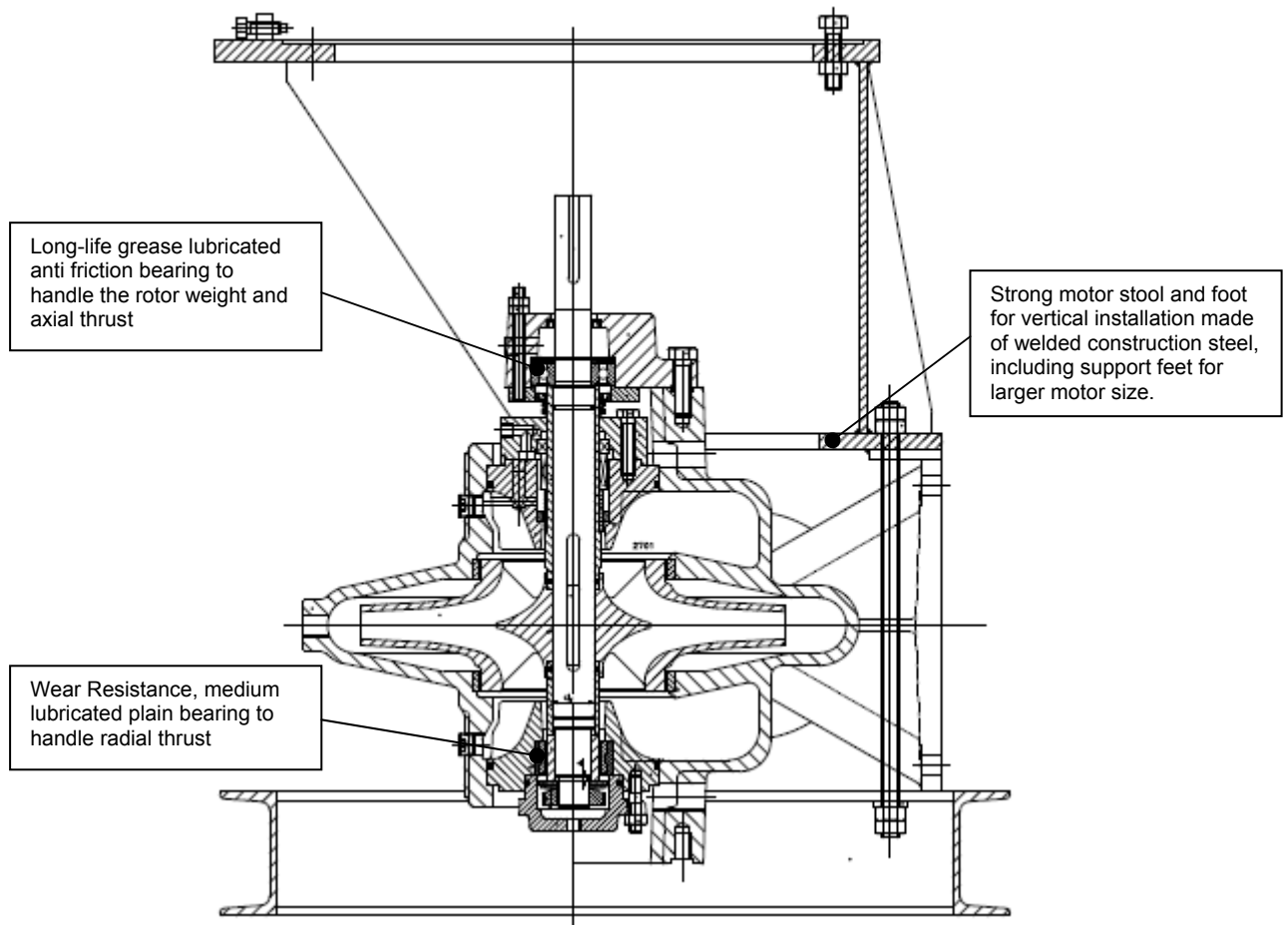
## TECHNICAL ADVANTAGES

Other materials combination available on request



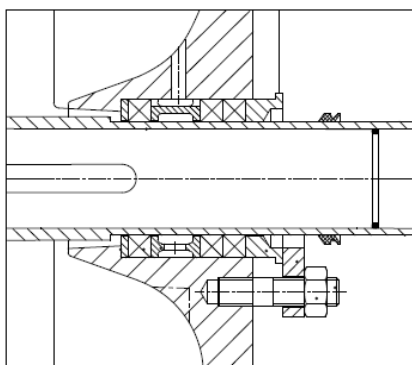
## Horizontal installation (SD)

## TECHNICAL ADVANTAGES

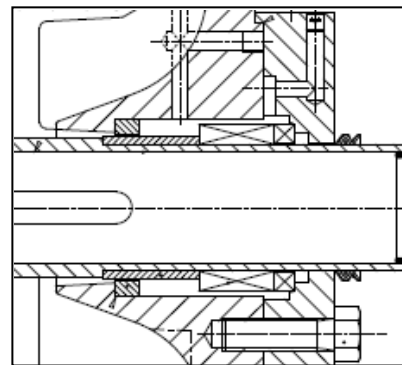


## Vertical Installation (SDL)

### SHAFT SEAL

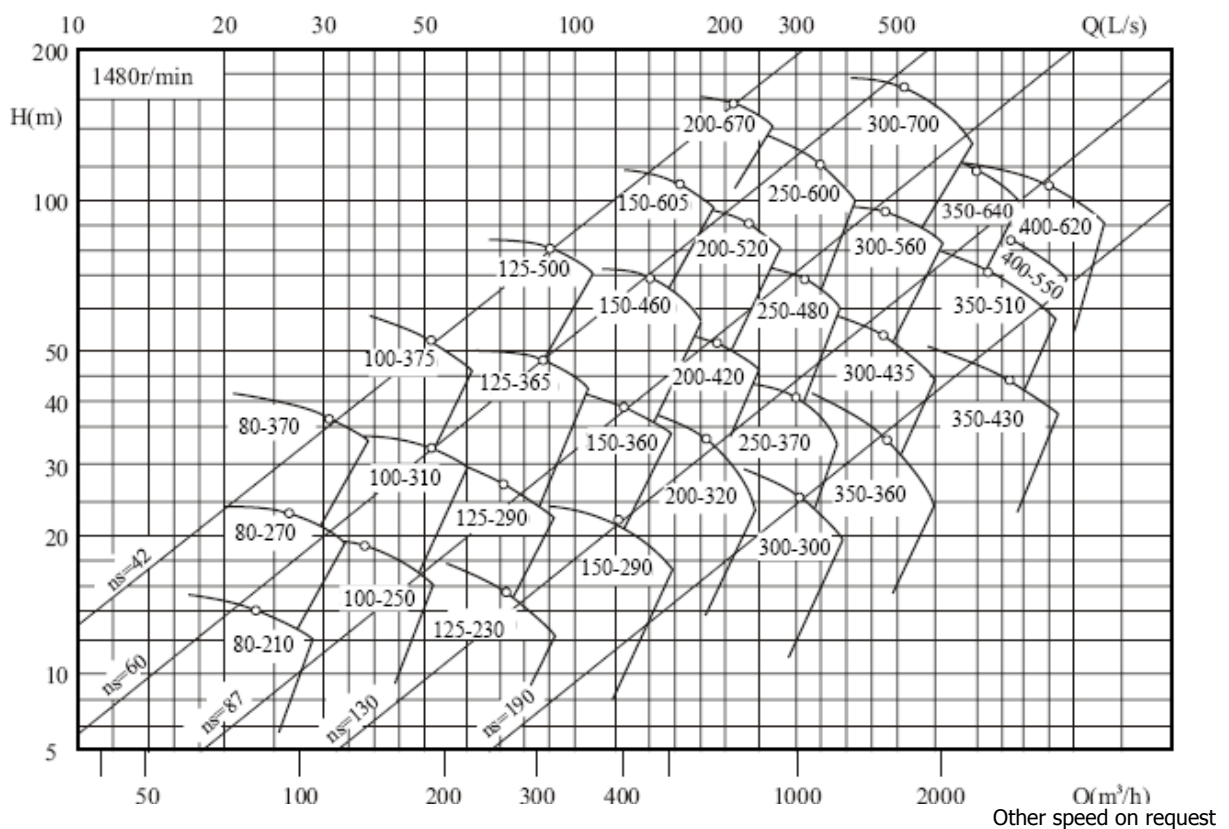
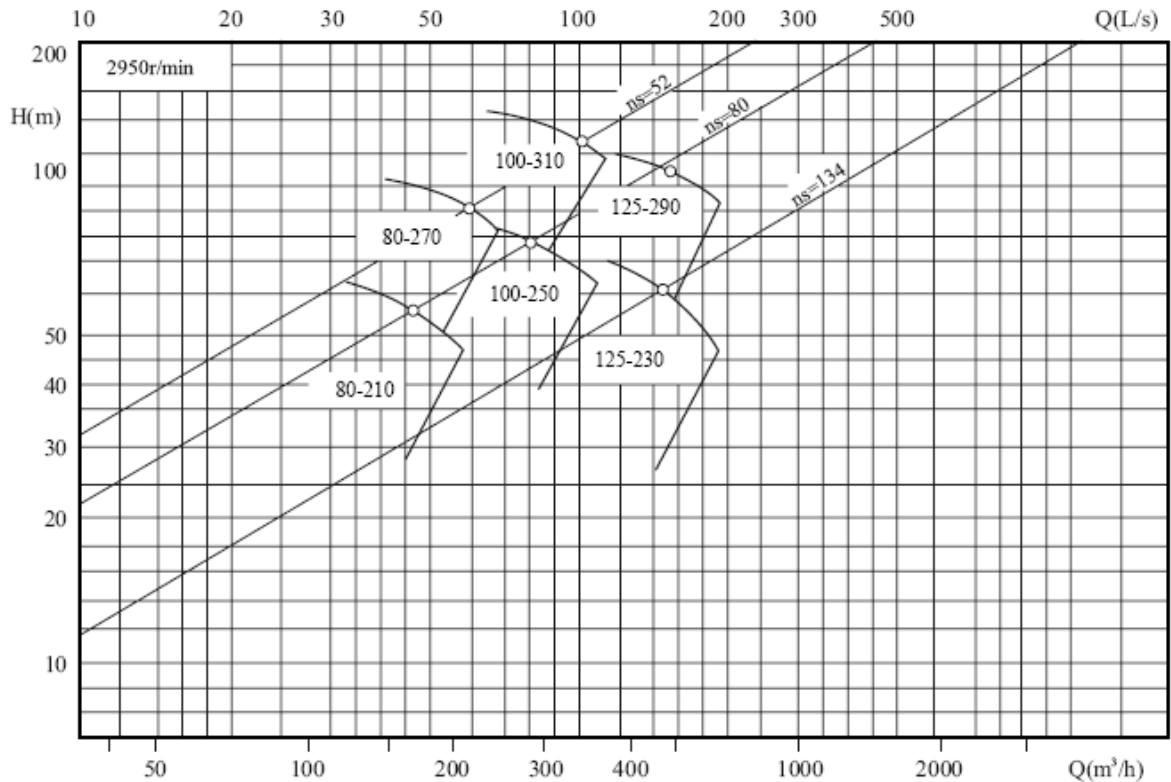


**GLAND PACKING**



**MECHANICAL SEAL**

## SELECTION CHARTS (50 Hz)



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**Technical subject to modification**