

Single stage double suction split case pump

Application:

Cooling water
Water supply/distribution
Fire protection
Metal manufacturing
Irrigation
General industrial services

Performance Range

Capacity:	Q	up to 20000 m ³ /h up to 88000 gpm
Head:	H	up to 200 m up to 600 feet
Temperature:	T	up to 105°C up to 200°F
Speed:	n	2900/1450/980/740/580rpm 3500/1750/1180/890/710rpm

Standard material

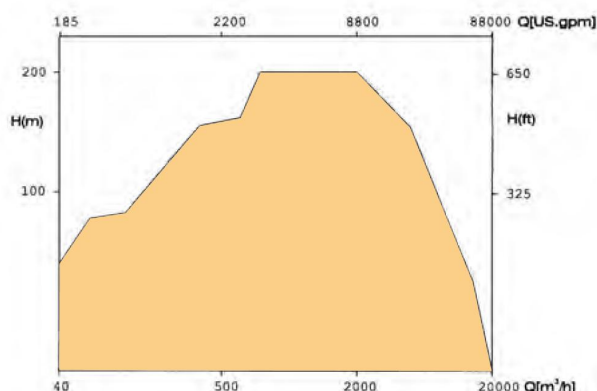
Casing:	Cast iron Ductile cast iron Cast steel Stainless steel	Impeller:	Cast iron Bronze Brass Stainless steel
Shaft:	C-steel Cr-steel	Wear ring:	Cast iron Brass

Description

The casing is axially split, which permits removal of the complete rotor without moving either piping or motor. Pumps generating high heads have double volutes to reduce radial forces. Replaceable wear ring protect the casing at the impeller running clearances. Flange drilled to ISO, DIN, BS or ANSI.

The close double suction impeller gives practically zero axial forces. Each impeller is statically and dynamically balanced according to ISO1940.

Vertical or horizontal, soft packing or mechanical seal, grease or oil lubrication bearing on request.



Multistage heavy duty axially split casing centrifugal pump

Application:

Oilfields and Terminals
Crude oil and oil product pipeline
Water pipelines
Fluid injection
High pressure services



Performance Range

Capacity:	Q	up to 6000 m ³ /h up to 26400 gpm
Head:	H	up to 880 m up to 2930 feet
Temperature:	T	up to 200 °C up to 380 °F
Speed:	n	2900/1450/980rpm 3500/1750/1180rpm



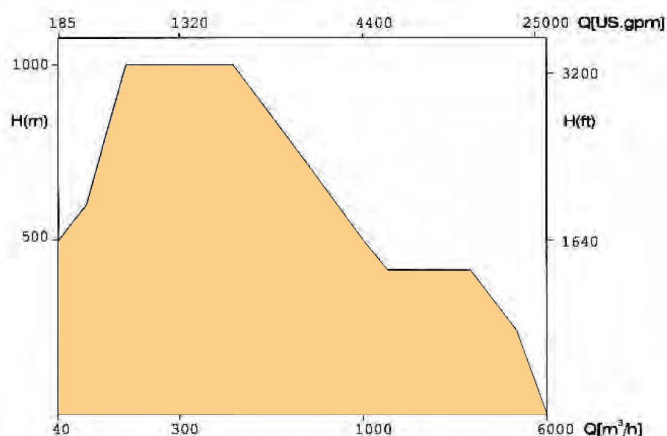
Standard material

According to API 610 Eighth Edition, August, 1995.

Description

Horizontal axially split casing, double volute multistage design. Impellers arranged in opposed groups, **CSY** a double suction two stages pump for bigger capacity. **CDY** a multistage single suction impeller pump for higher head, first stage double suction impeller design for low NPSH required.

Removable wear rings protect the casing and impeller. The impellers are statically and dynamically balanced. The pump comply with the API 610 specification latest edition in all technical details. Special antifricition bearings on both sides or sleeve bearings with ring or forced-feed lubrication (axial bearing as segmental thrust bearing).



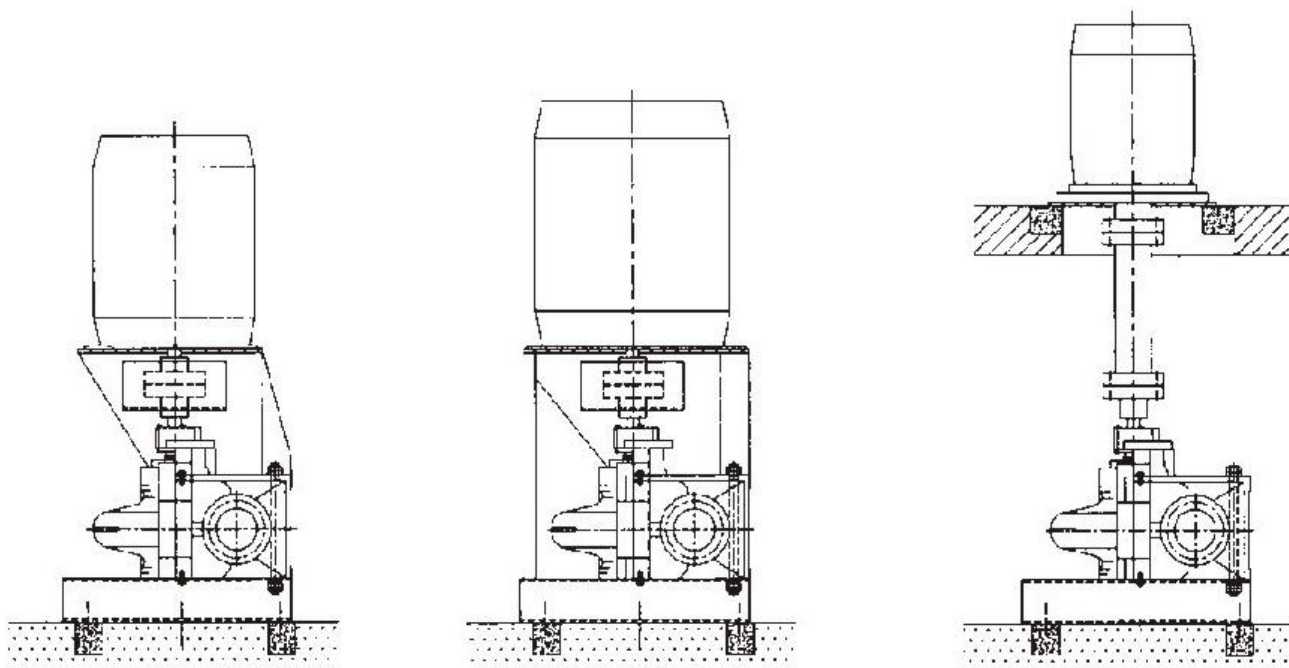
Operating Data

Pumps Sizes to	DN	1400mm
Capacities to	Q	17000m ³ /h
Heads to	H	230m
Temperatures to	T	+105°C
Operating Pressure to	P	30bar



Type of Vertical Arrangement

Many sizes can be supplied as vertical pumps, these are three standard versions as follow:



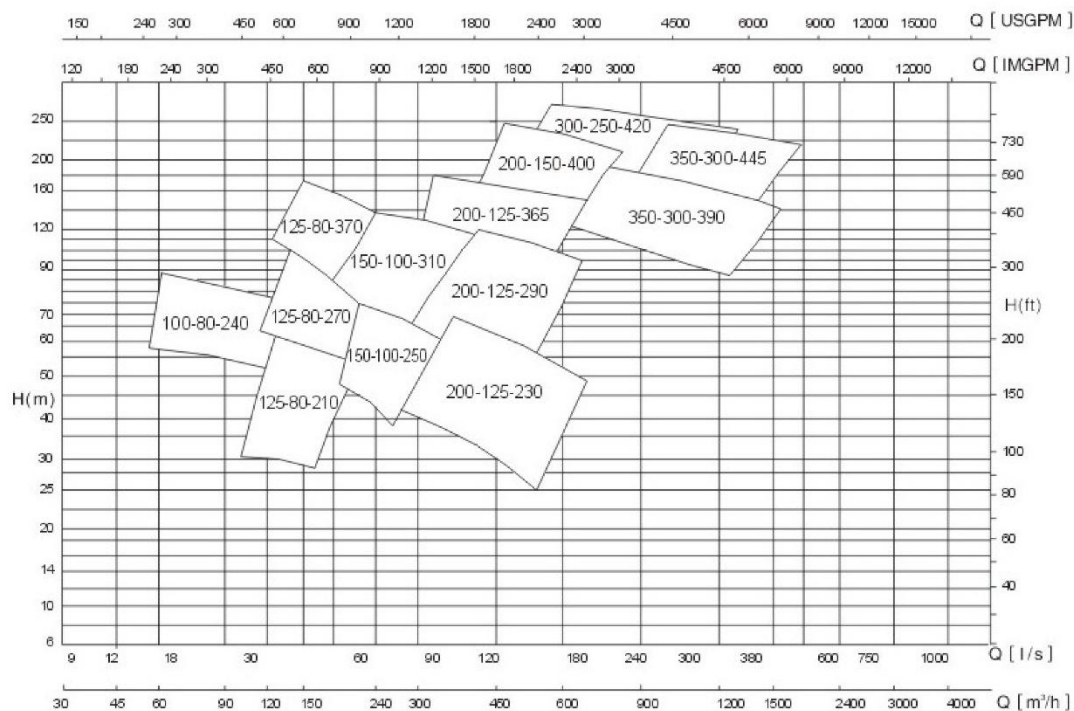


CHEMNIUM

Hydraulic Coverage

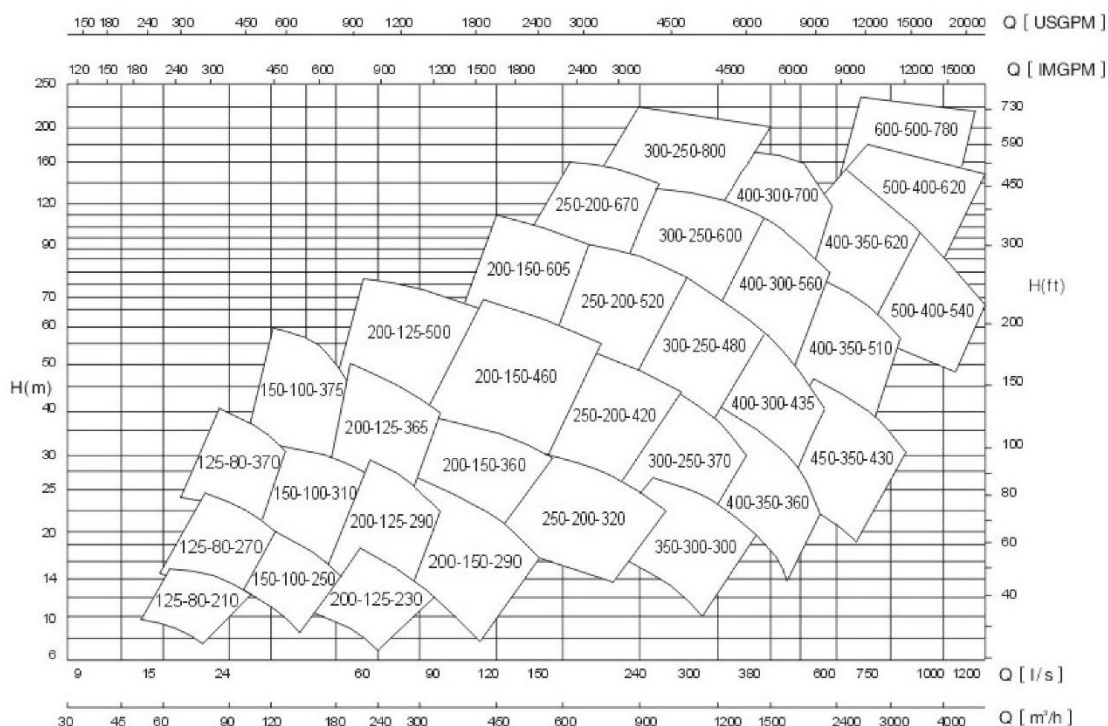
n= 2900 rpm

50Hz



n= 1450 rpm

50Hz



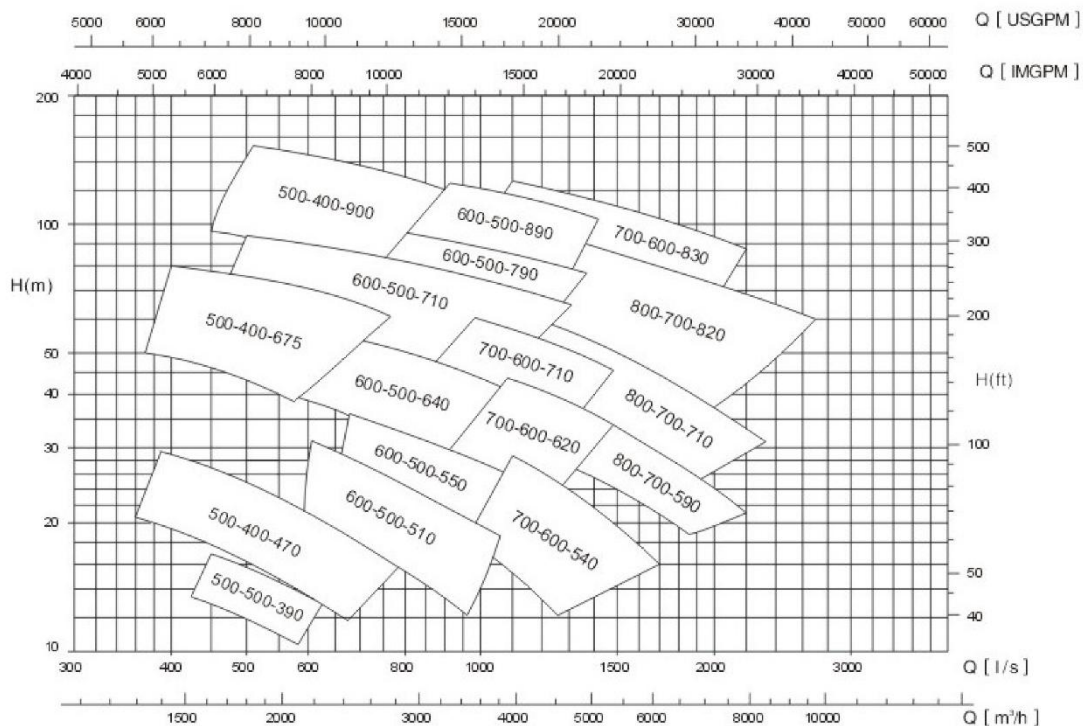


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Hydraulic Coverage

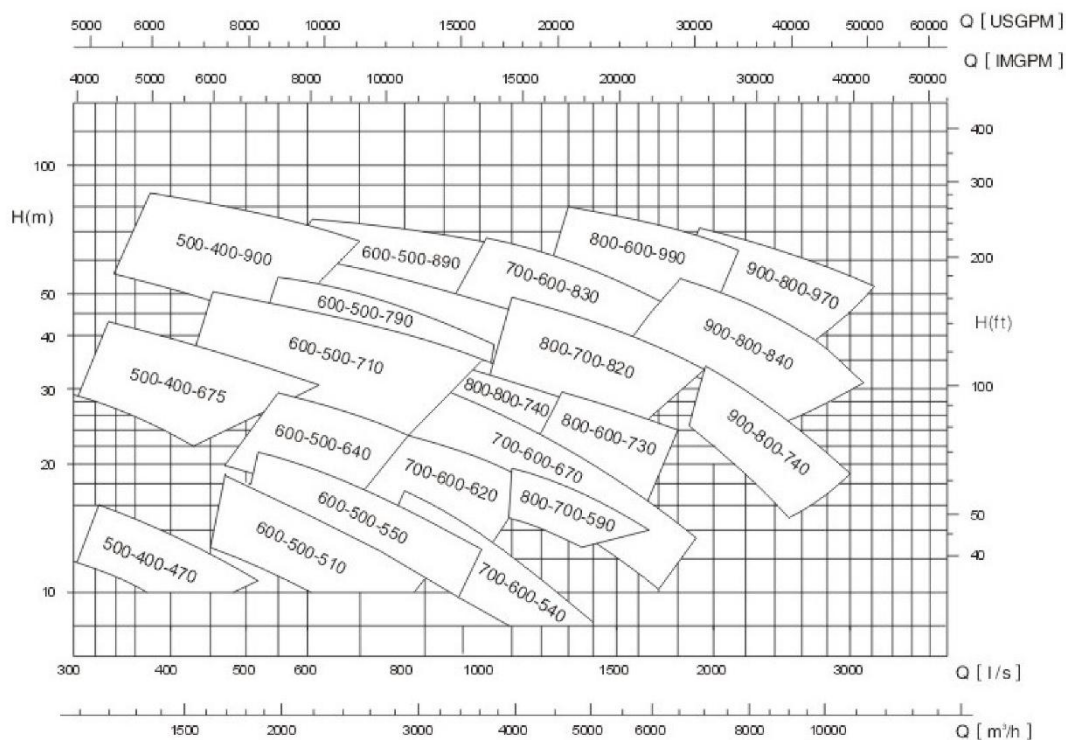
n= 980 rpm

50Hz



n= 740 rpm

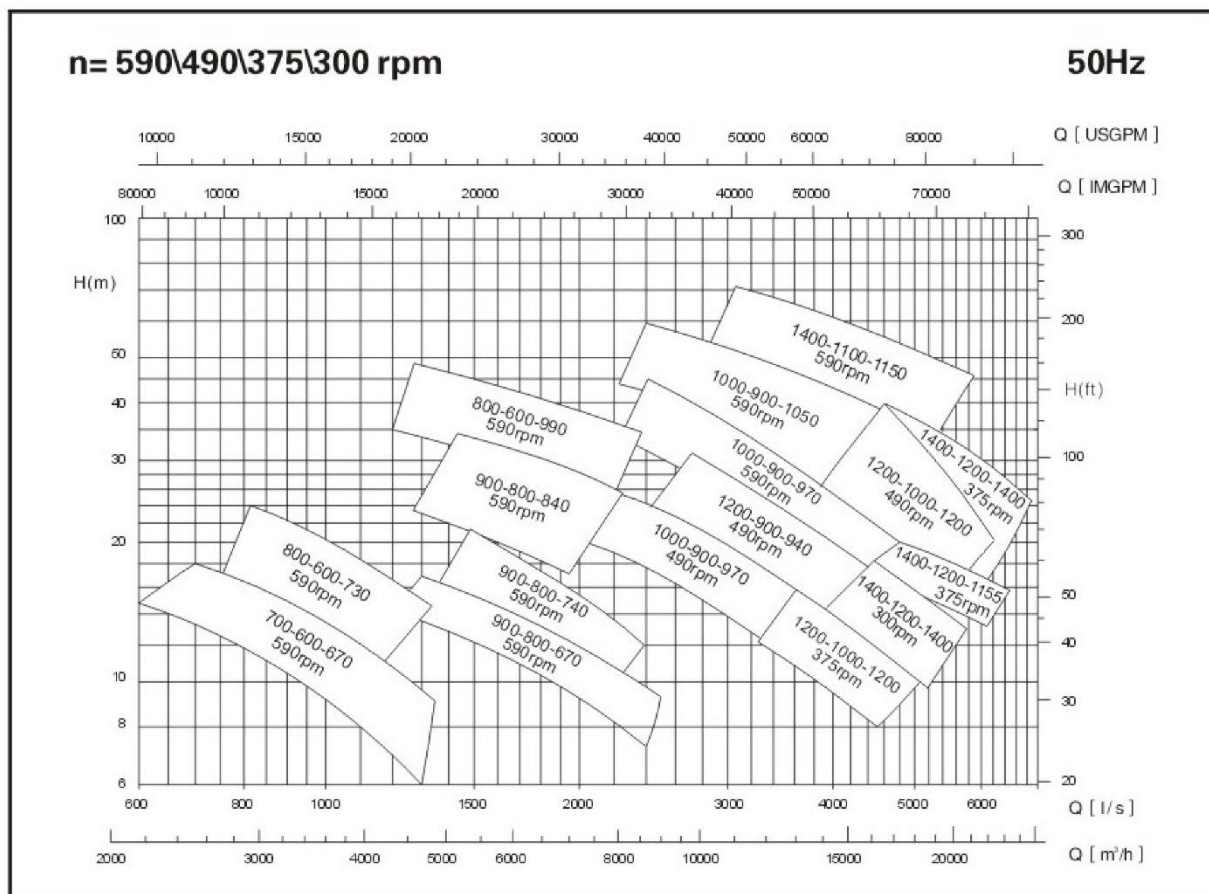
50Hz





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Hydraulic Coverage



Materials of Construction

Volute casing

Cast iron
Ni-resist cast iron
Ductile cast iron
Carbon steel
Stainless steel
Duplex stainless steel

Impeller

Cast iron
Ni-resist cast iron
Ductile cast iron
Bronze
Stainless steel
Duplex stainless steel

Shaft

Cr-steel
Stainless steel

Wear ring

Cast iron
Ni-resist cast iron
Ductile cast iron
Bronze
Stainless steel

