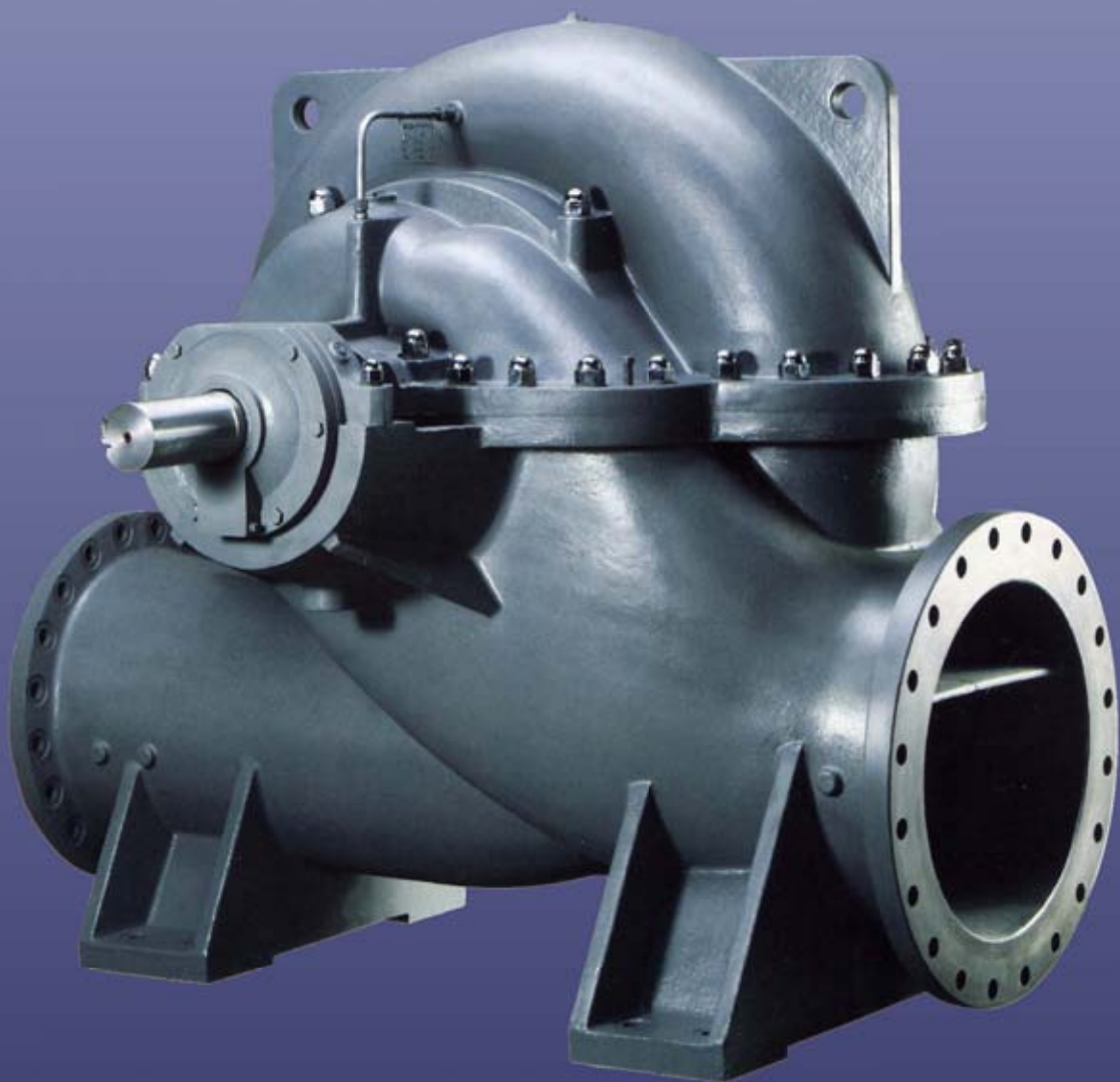


SSOCIATED PUMP ENGINEERS

SINGLE STATE DOUBLE SUCTION SPLIT CASING CENTRIFUGAL PUMPS





Application

- Process** Quench water, stripper bottoms, water circulation, cooling tower
- Pulp & Paper** Primary and secondary cleaner, filtrate, mill water supply, fan pump, shower
- Primary Metals** Cooling water, quench and leaching
- Municipal** High lift, low lift, wash water, waste water, raw water
- Power Generation** Cooling tower, component cooling, service water
- Marine** Bilge and ballast, cargo, cooling water, fire pump
- General** River water, brine, sea water, fire-fighting system, water and sewage works.
- Pump can be design according to API610 BB1 type service for petroleum, petrochemical and natural gas industries**

Operating Data

Pumps Sizes to	DN	1400mm
Capacities to	Q	17000m³/h
Heads to	H	230m
Temperatures to	T	+105°C
Operating Pressure to	P	30bar

Model Code

DESC 200 - 125 - 290 V

Series

Suction (mm)

Discharge (mm)

Nominal Impeller Diameter (mm)

Vertical Type



Design Features and Advantages

5. Shaft

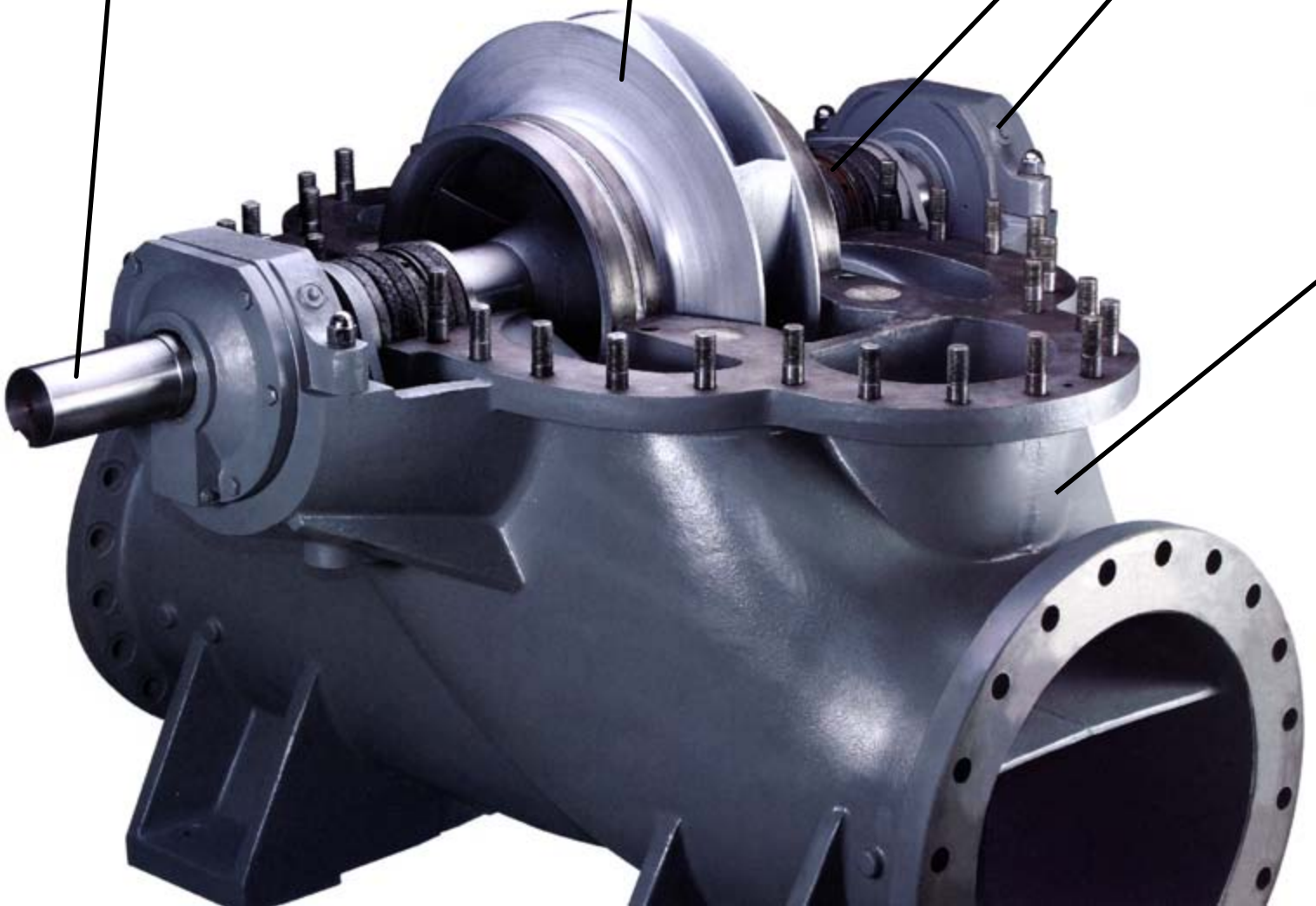
- a. Heavy duty shaft completely sealed and dry for zero corrosion
- b. Short and rigid with negligible vibrations
- c. Replaceable shaft protecting sleeves
- d. No threads exposed to pumped medium, long operating life and no corrosion
- e. Adjustment-free assembly
- f. Quick and easy assembly/dismantling of the rotor components due to elastically prestressed mountings
- g. Maximum interchangeability shafts design
Entire series for 2900rpm and 1450rpm model just six shafts and six bearings assemblies

4. Impeller

- a. Computer-optimized double entry impellers
- b. Minimal axial thrust due to double-entry impeller
- c. Impeller is statically and dynamically balanced according to ISO1940
- d. Optional impeller wear rings
- e. New vane passage with excellent hydraulic characteristics high-performance

3. Seal

- a. Asbestos-free, potable water quality soft-packed stuffing boxes
- b. Unbalanced mechanical seal, according to DIN24960.
Balance mechanical seal for operating pressure >16 bar on required
- c. Cartridge-type mechanical seal on required

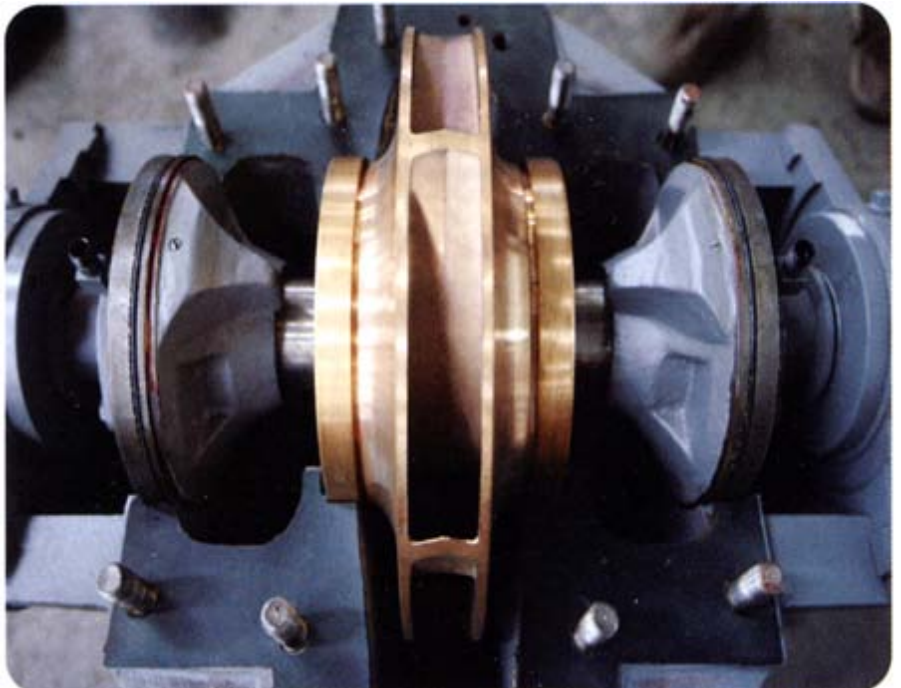


2. Bearing

- a. SKF covered, sealed for life grease lubricated antifriction bearings for long service life
- b. Open gland, enough space for service activities
- c. Optional: oil lubrication with constant level oiler

1. Casing

- a. In-line axially split design which permits removal of the complete rotor without moving the pipe and motor
- b. Short distance between bearings
- c. Leak-tight due to compact joint flange with long, Prestressed bolts
- d. Counter-rotation possible with similar parts
- e. Double volute casing reduces radial forces on the impeller and consequently the bearing loads
- f. Easy mounting self-aligning upper casing
- g. Flange drilled to ISO, DIN, BS or ANSI
- h. Smooth surface inside and epoxy coating as required
- i. Replaceable wear rings protect the casing at the impeller running clearances.
- j. Excellent efficiencies and outstanding NPSH
- k. Heavy duty casing design for high working pressure



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

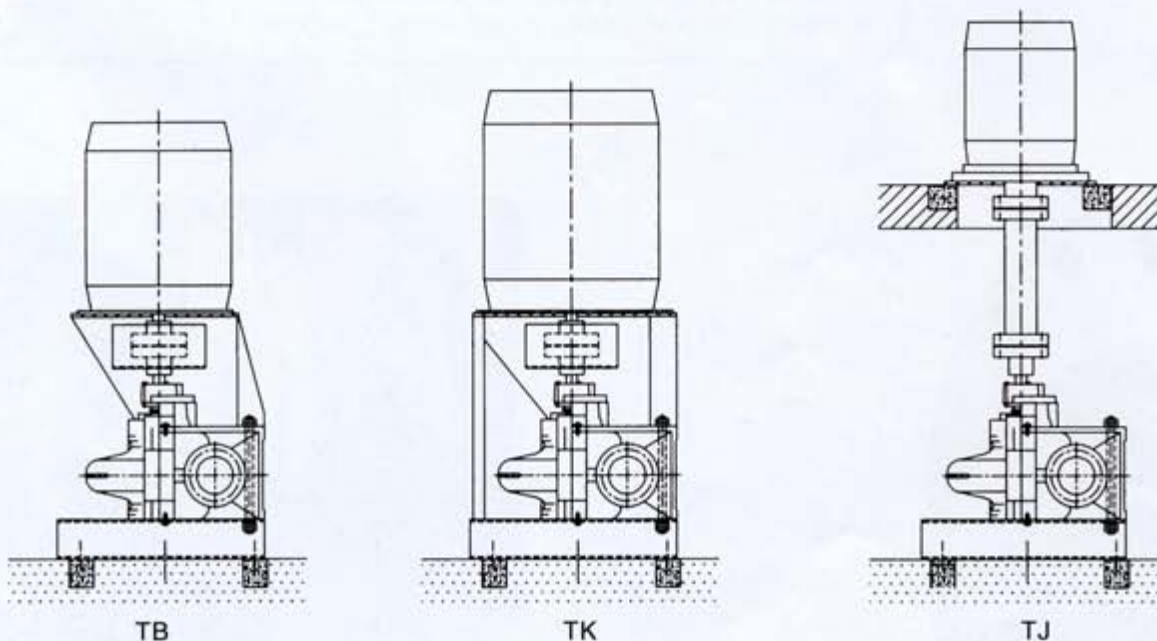
Bronze

Stainless steel



Type of Vertical Arrangement

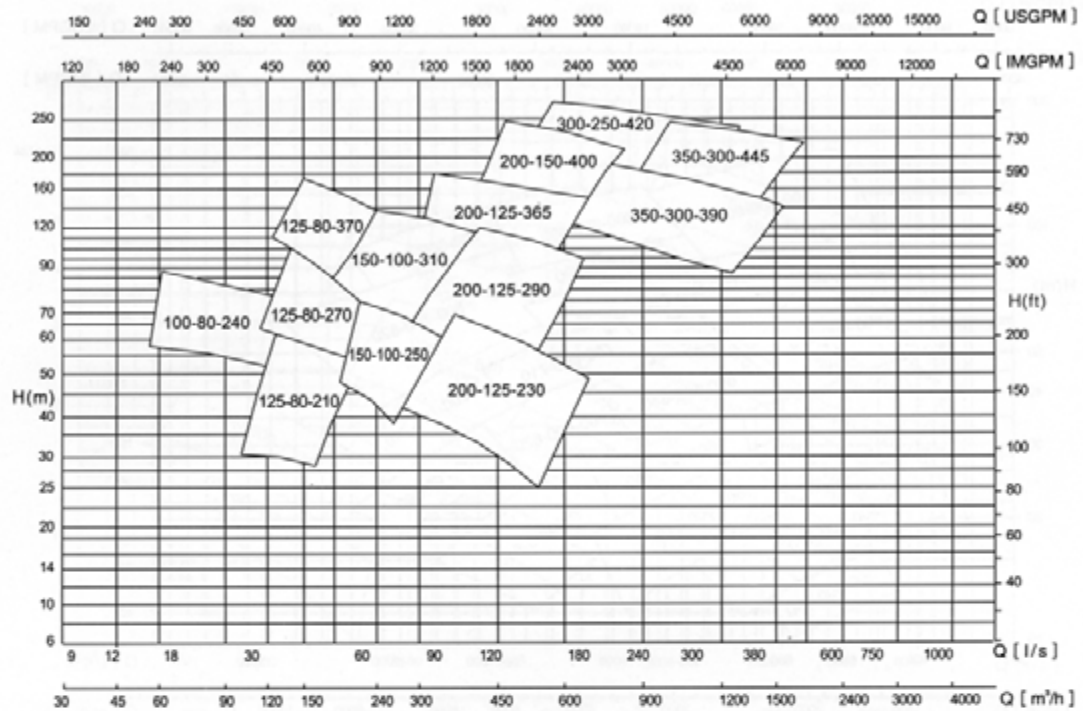
Many sizes can be supplied as vertical pumps, these are three standard versions as follow:



Hydraulic Coverage

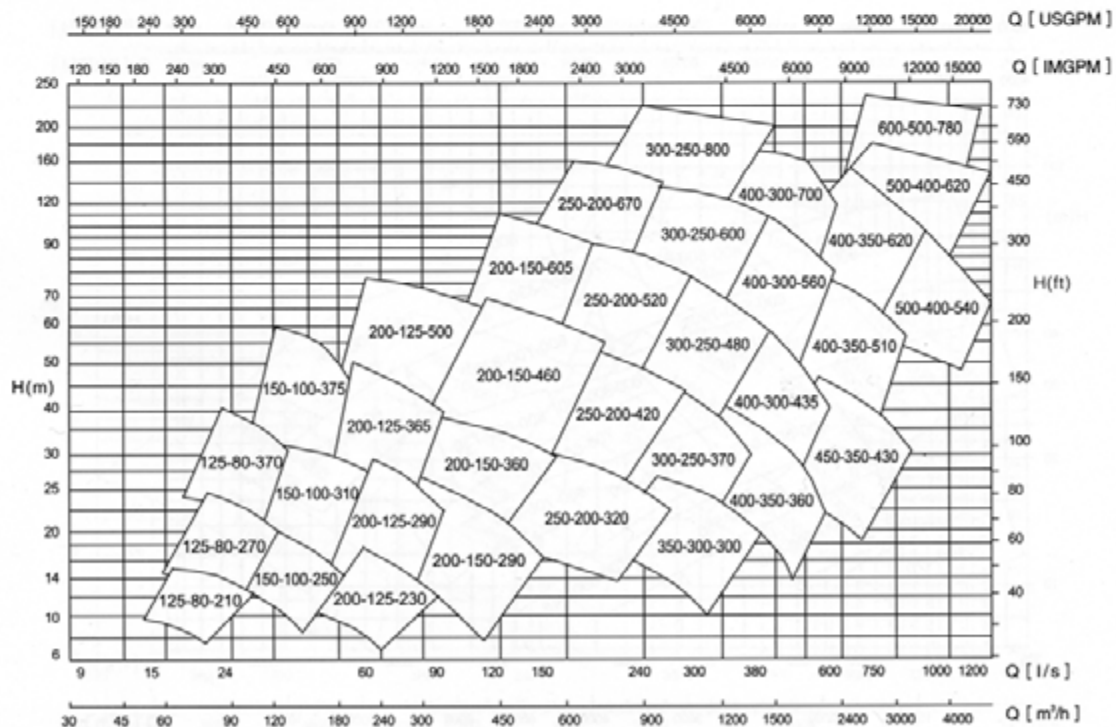
n= 2900 rpm

50Hz



n= 1450 rpm

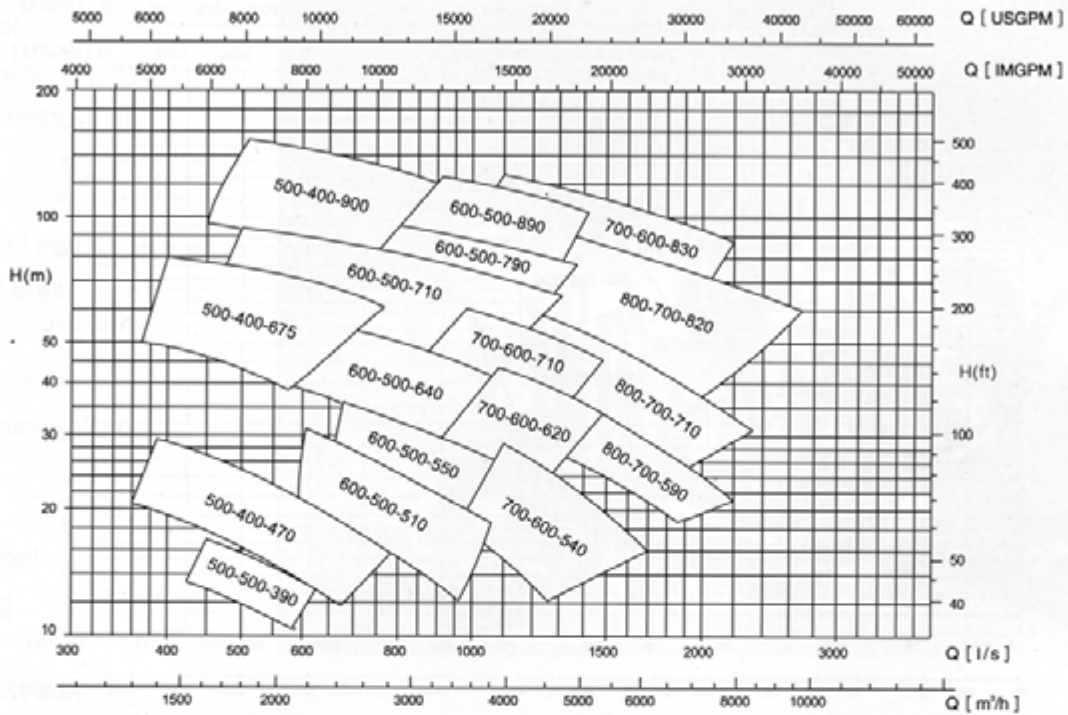
50Hz



Hydraulic Coverage

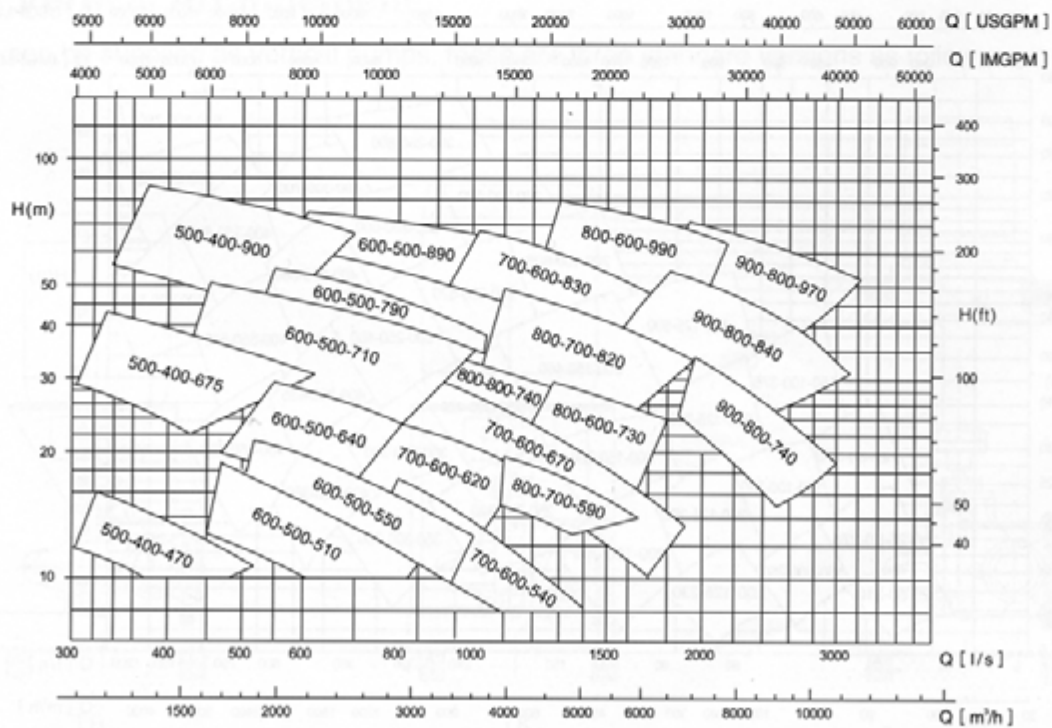
n = 980 rpm

50Hz



n = 740 rpm

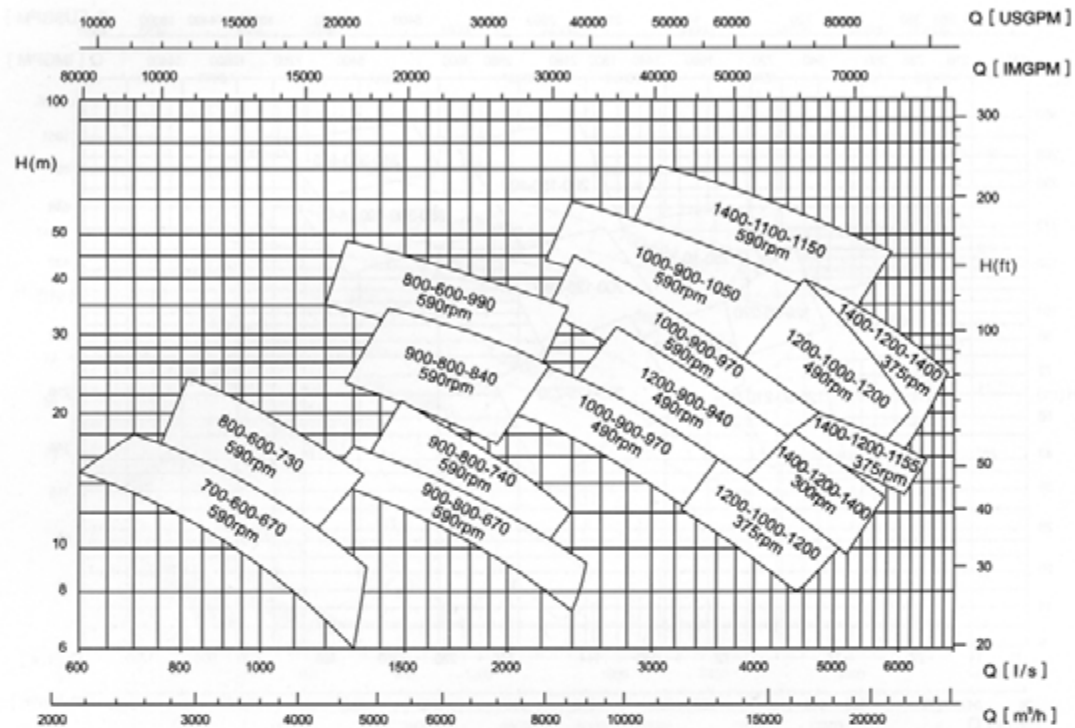
50Hz



Hydraulic Coverage

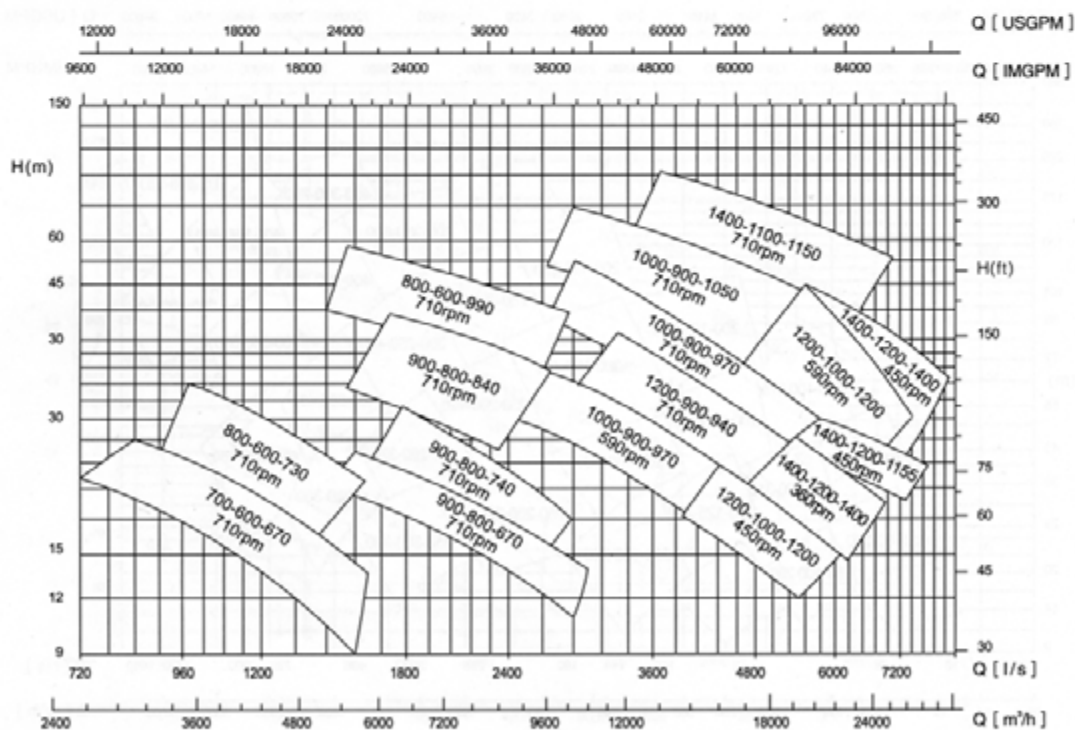
n = 590\490\375\300 rpm

50Hz



n = 710\590\450\360 rpm

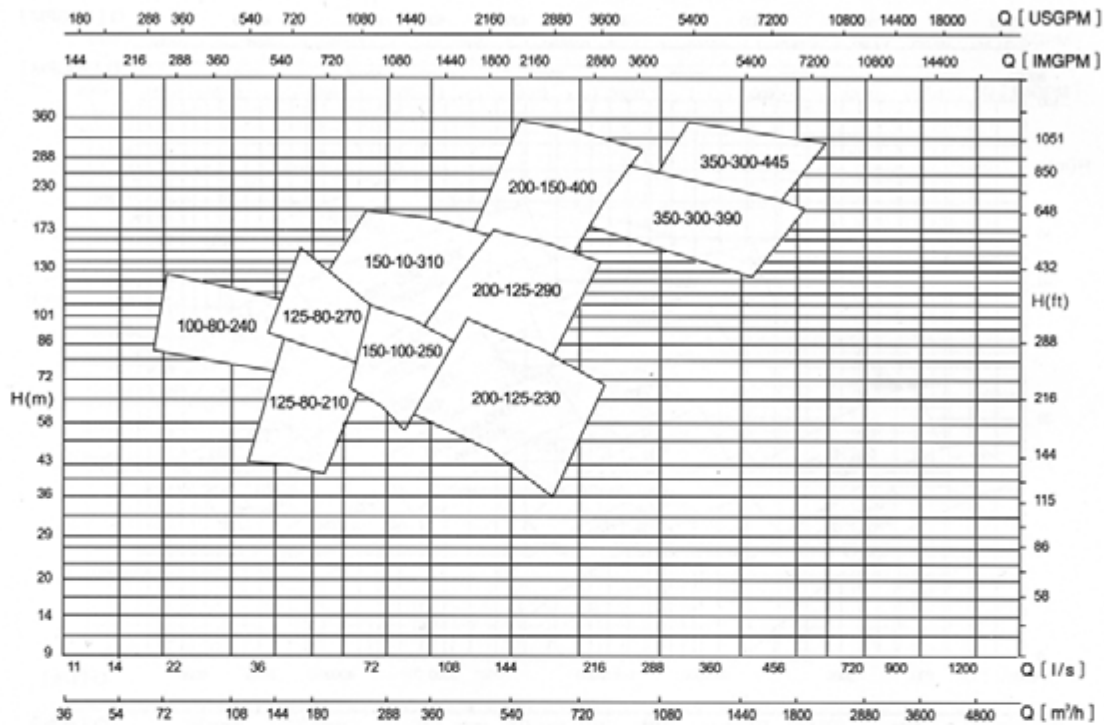
60Hz



Hydraulic Coverage

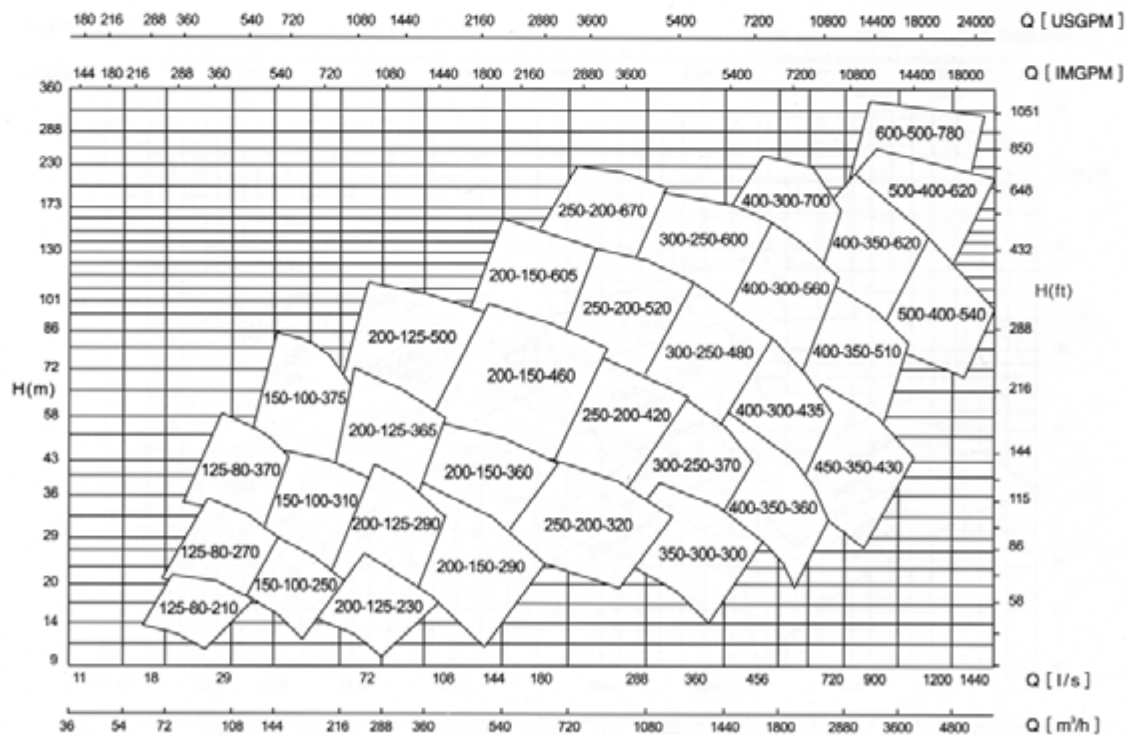
n= 3500 rpm

60Hz



n= 1750 rpm

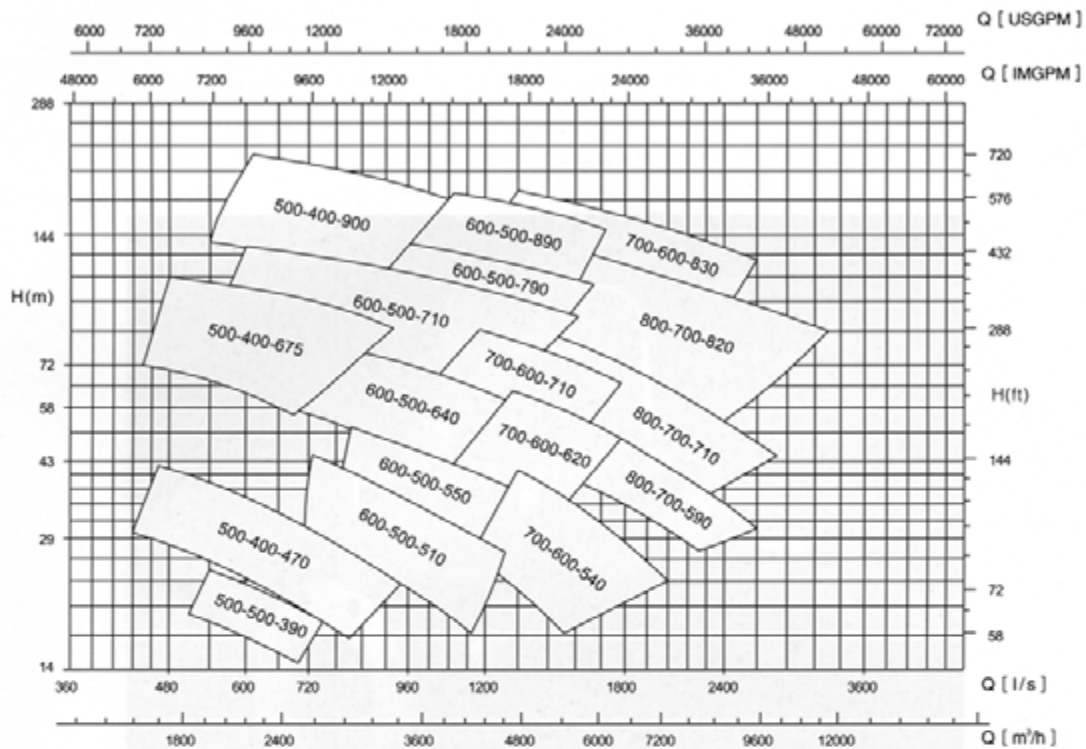
60Hz



Hydraulic Coverage

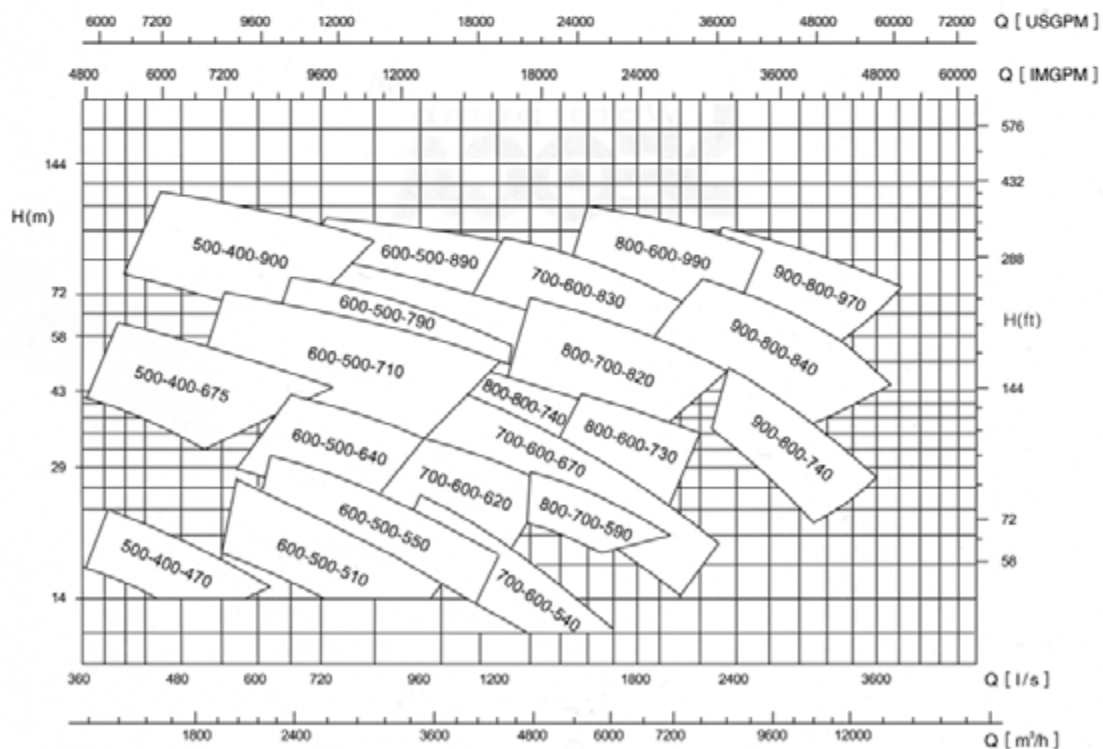
n= 1180 rpm

60Hz



n=890 rpm

60Hz





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