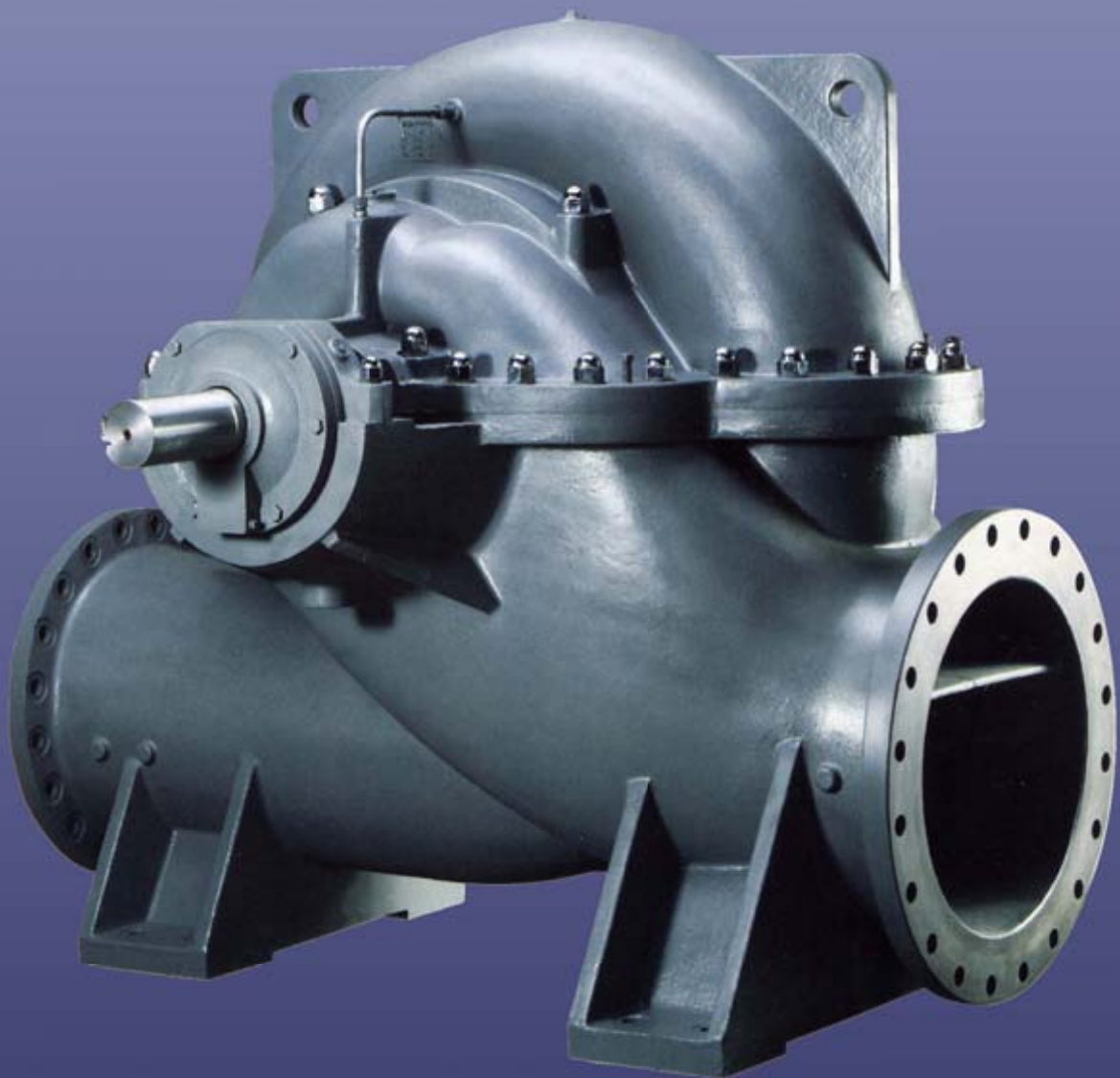


ASSOCIATED PUMP ENGINEERS

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.

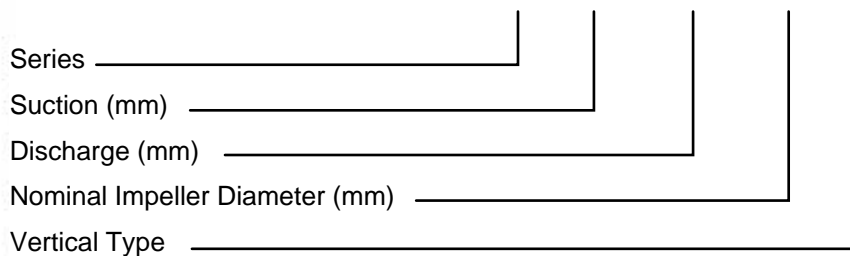
Pump can be design according to API610 BB1 type service for petroleum, petrochemical and natural gas industries

Operating Data

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

Model Code

DESC 200 - 125 - 290 V



Design Features and Advantages

5. Shaft

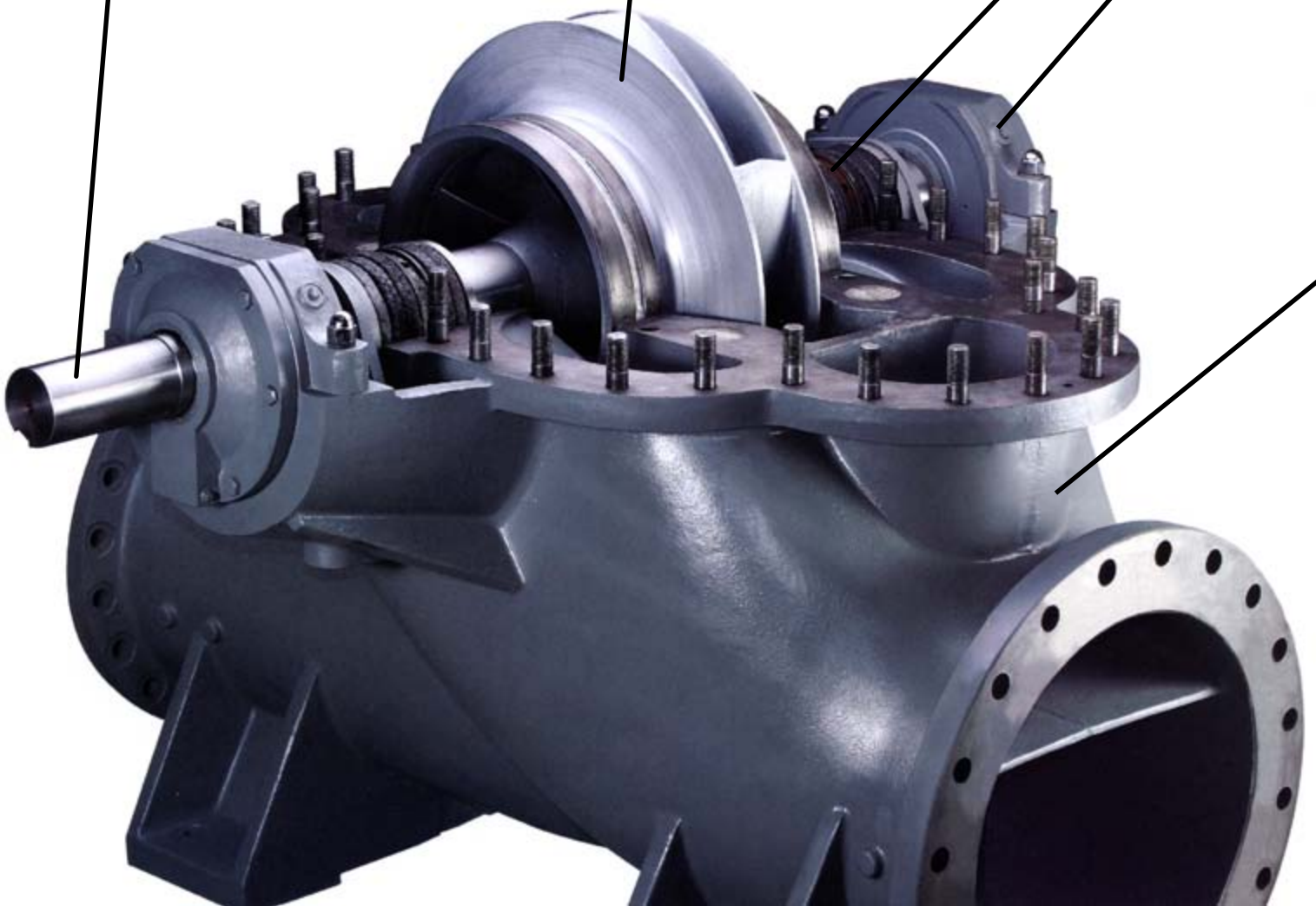
- a. Heavy duty shaft completely sealed and dry for zero corrosion
- b. Short and rigid with negligible vibrations
- c. Replaceable shaft protecting sleeves
- d. No threads exposed to pumped medium, long operating life and no corrosion
- e. Adjustment-free assembly
- f. Quick and easy assembly/dismantling 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

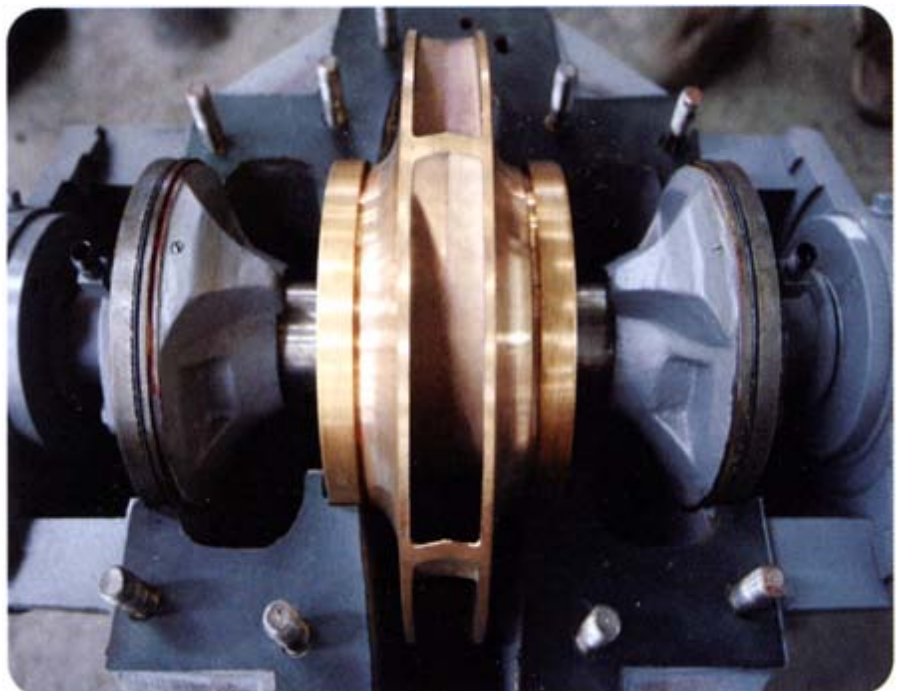


2. Bearing

- 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

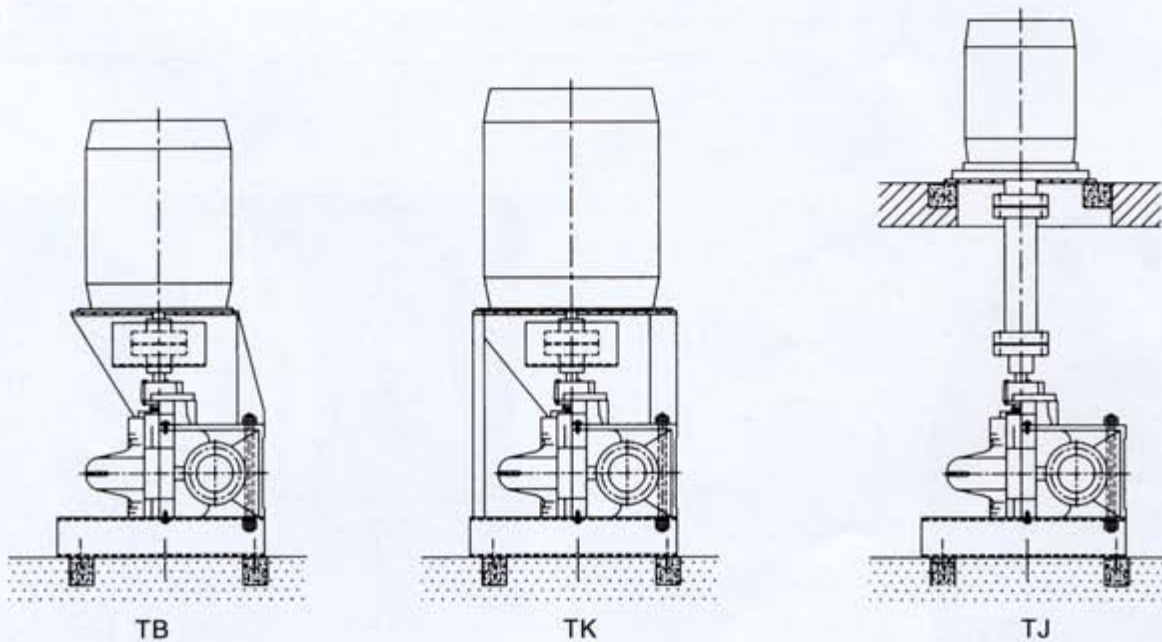
Wear ring

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

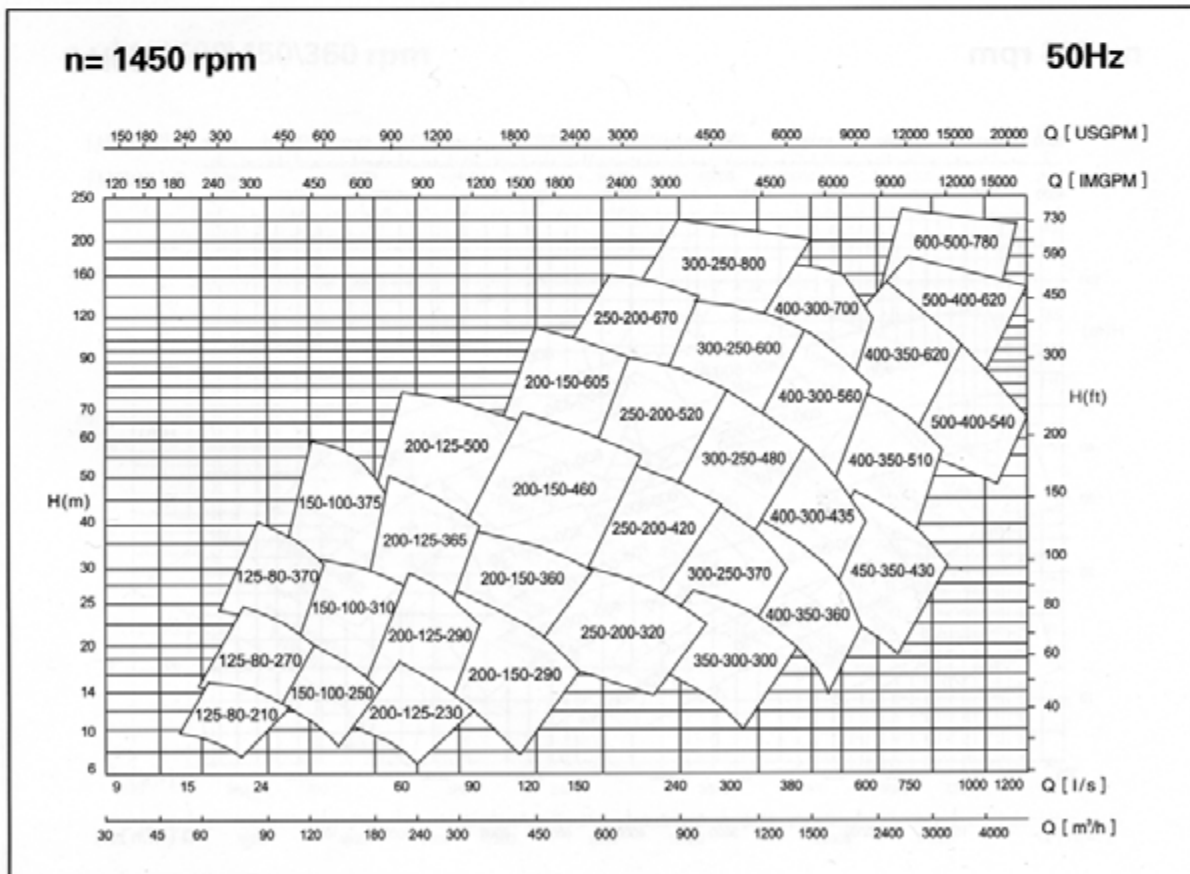
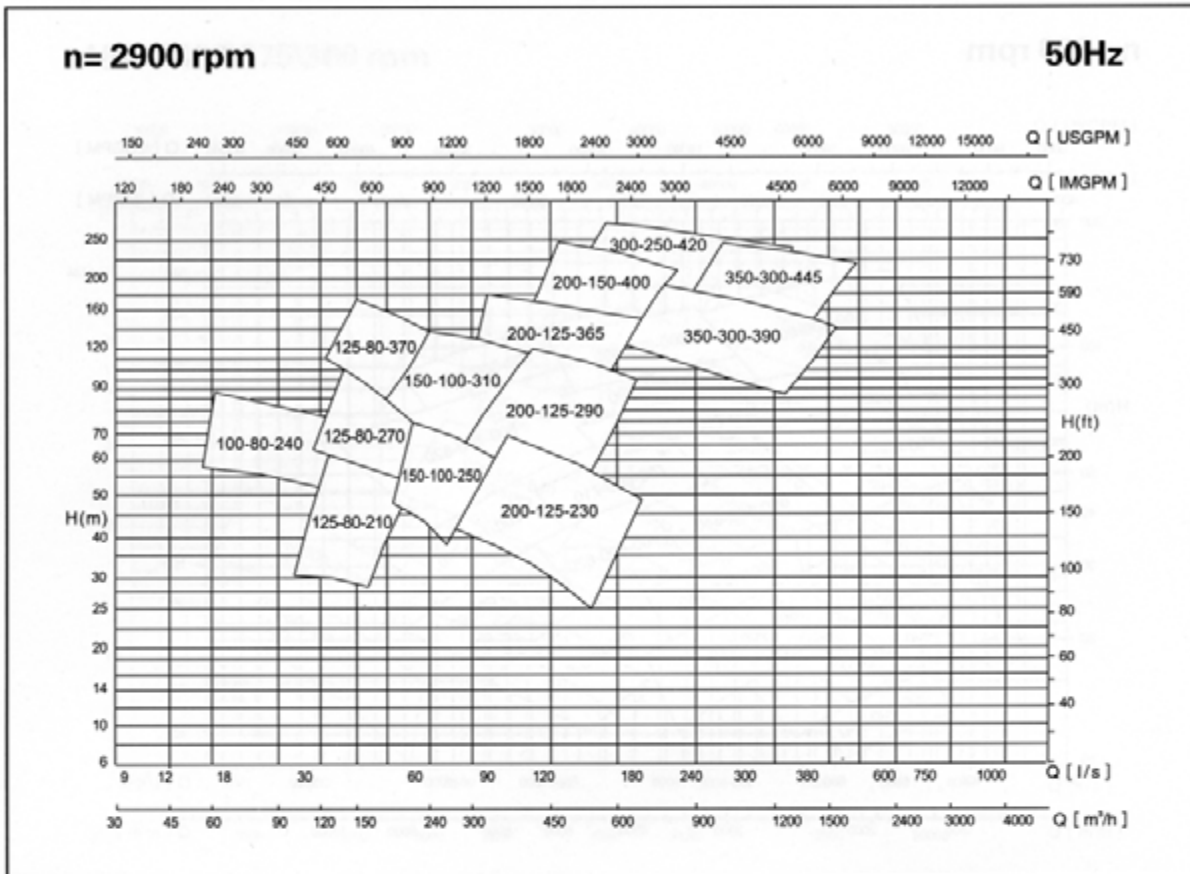


Type of Vertical Arrangement

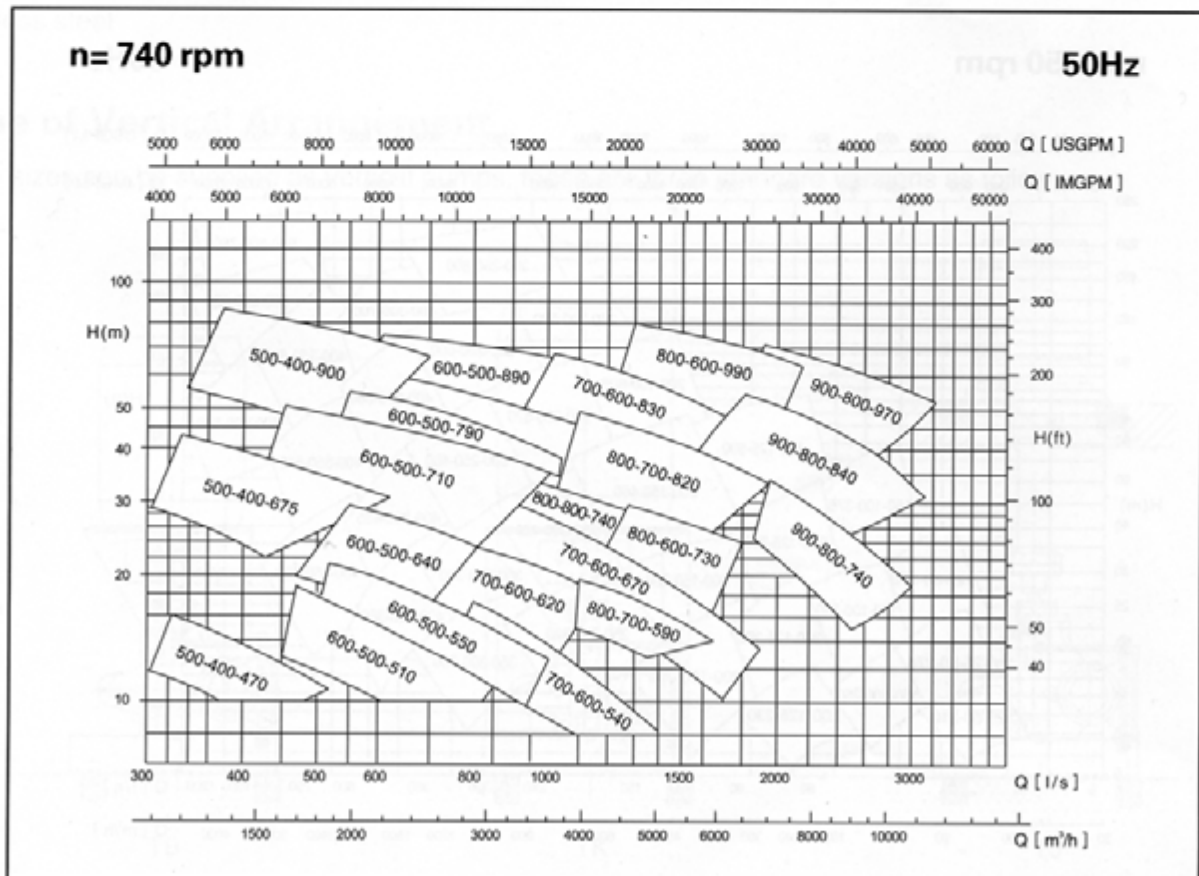
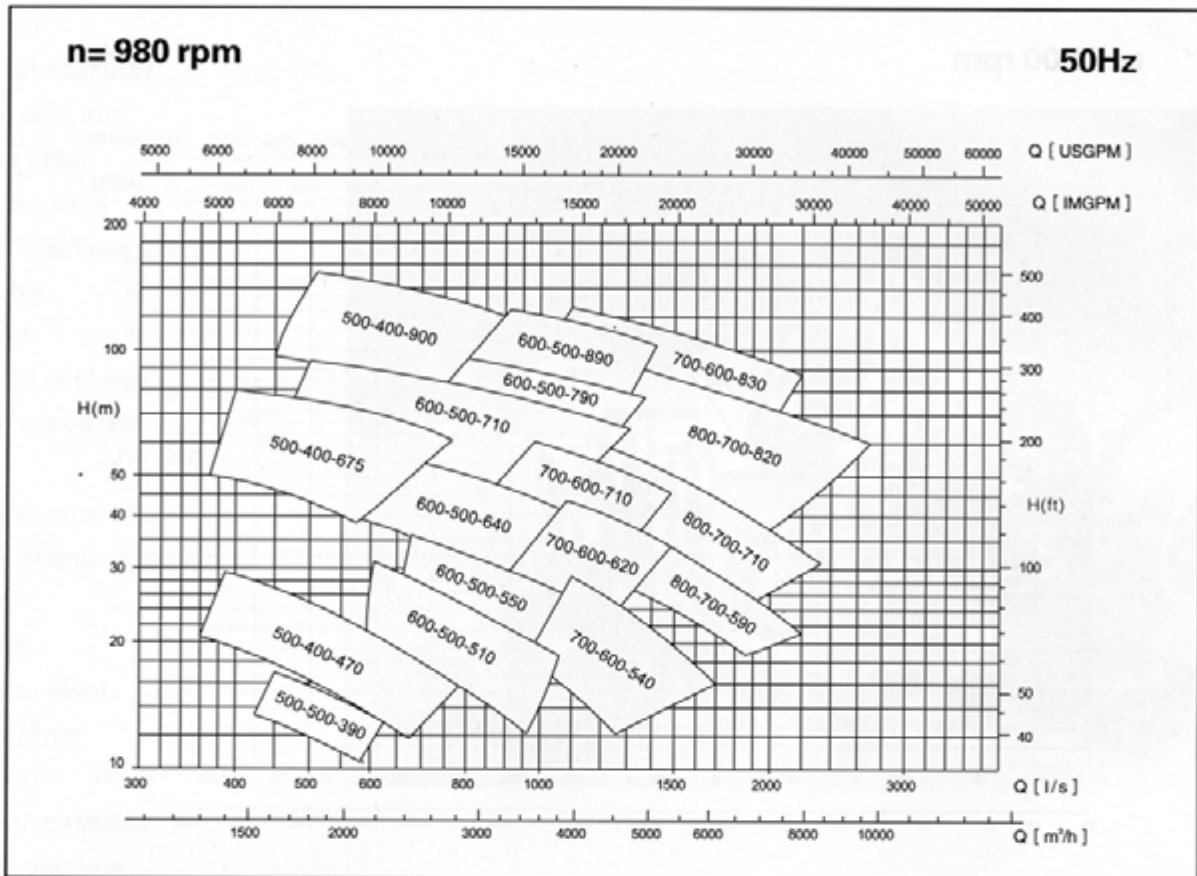
Many sizes can be supplied as vertical pumps, these are three standard versions as follow:



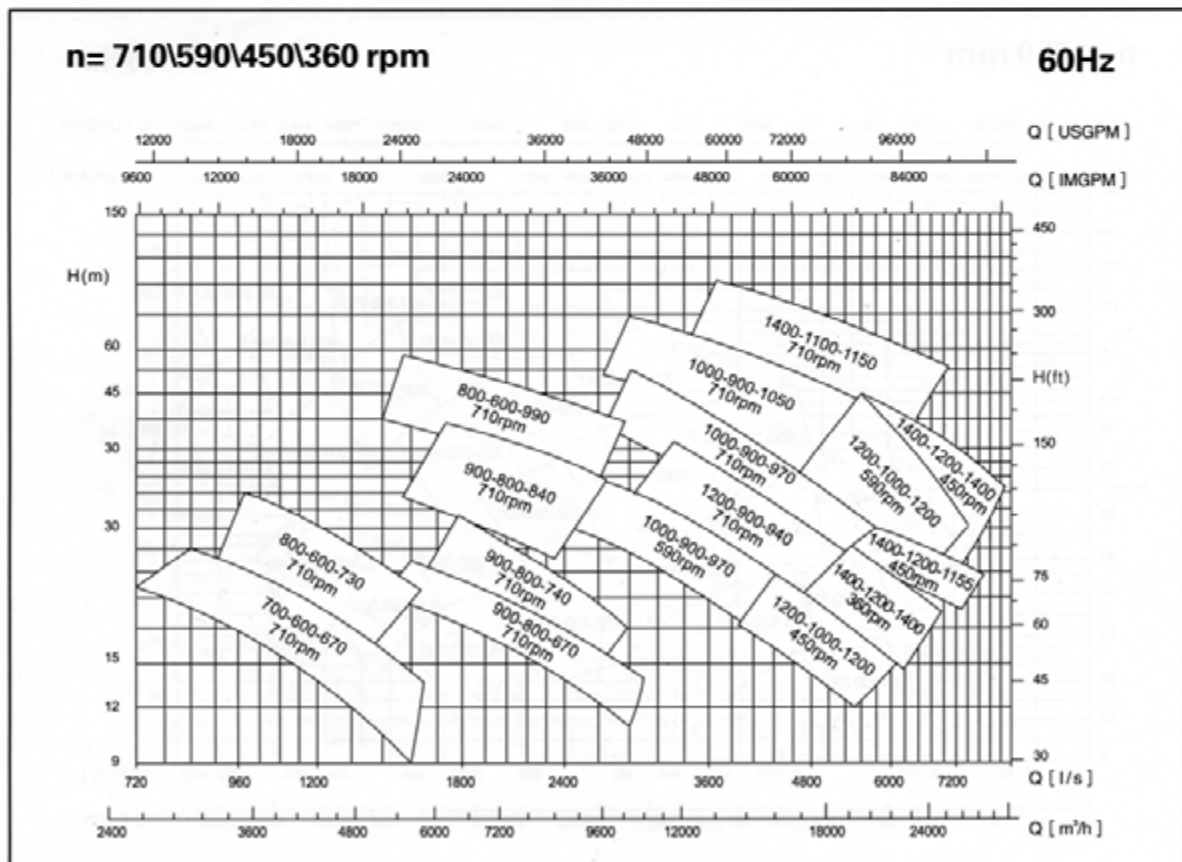
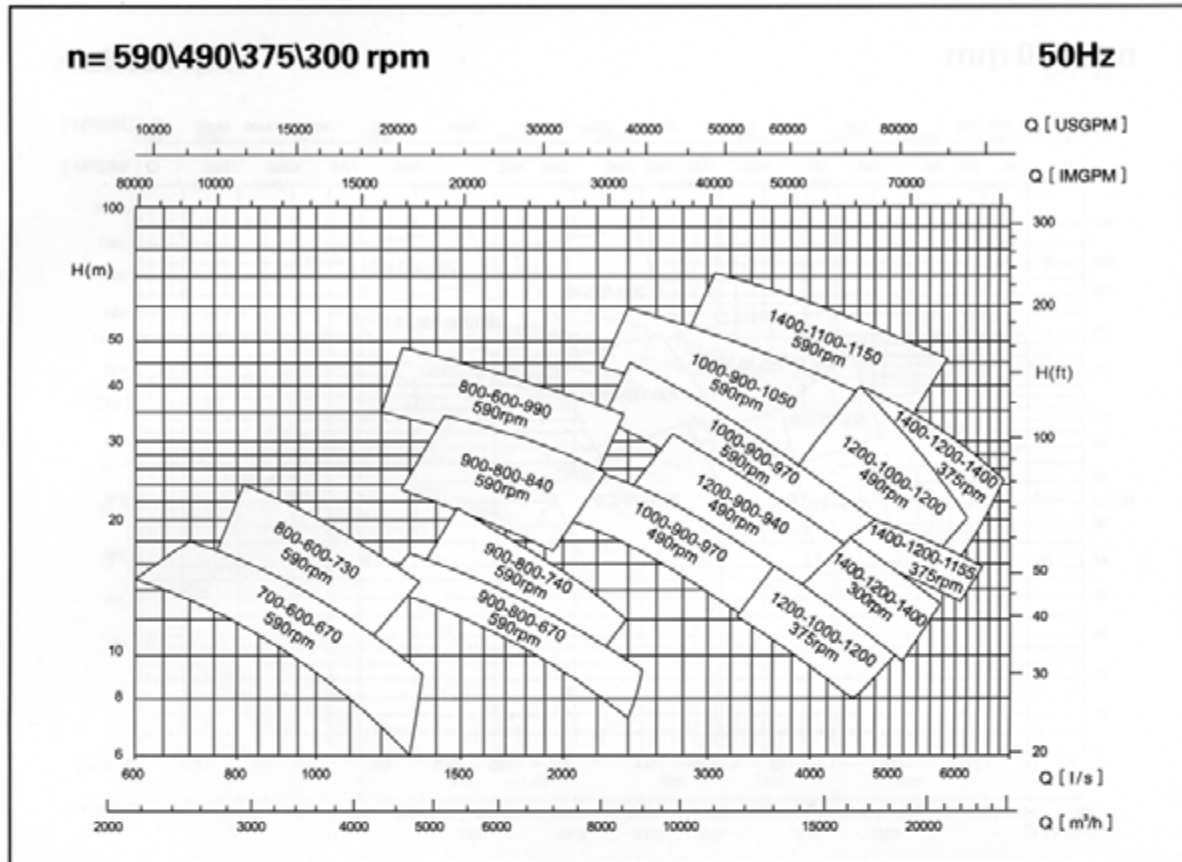
Hydraulic Coverage



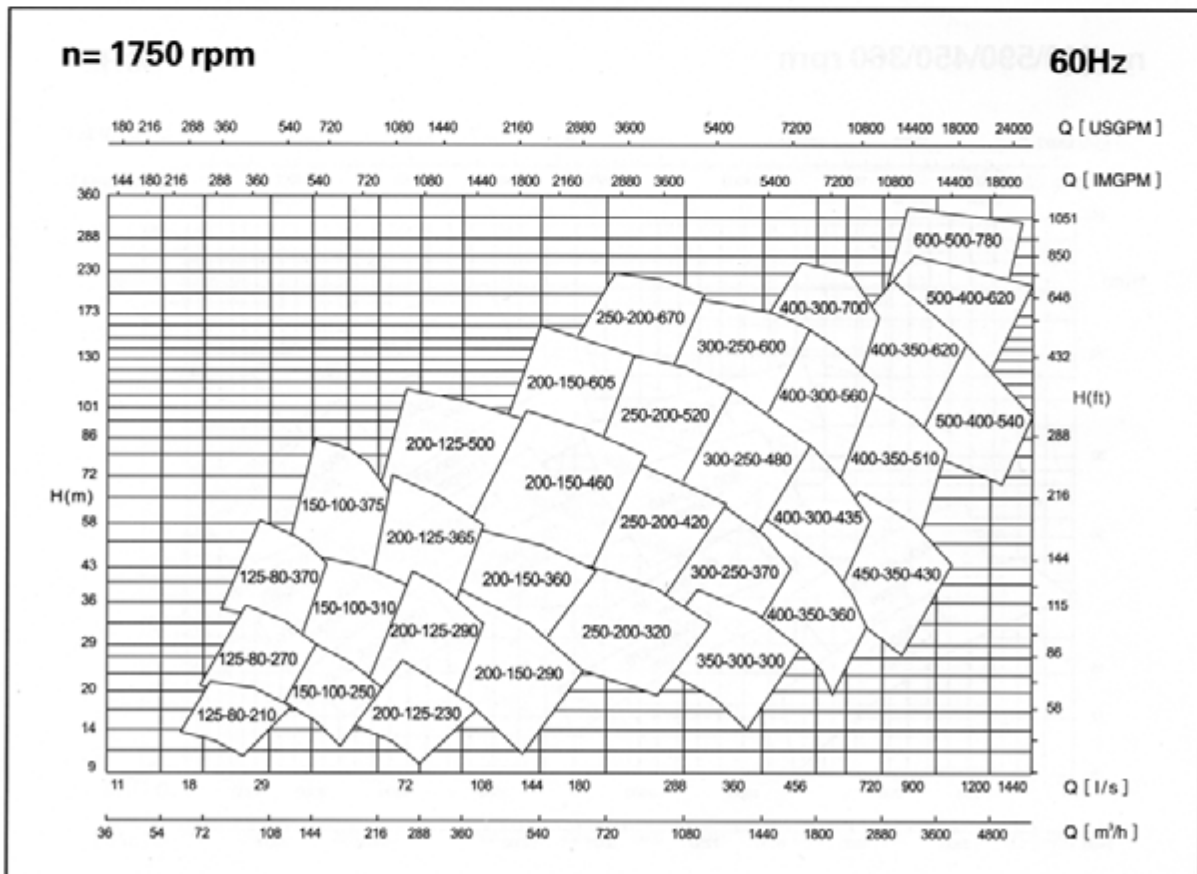
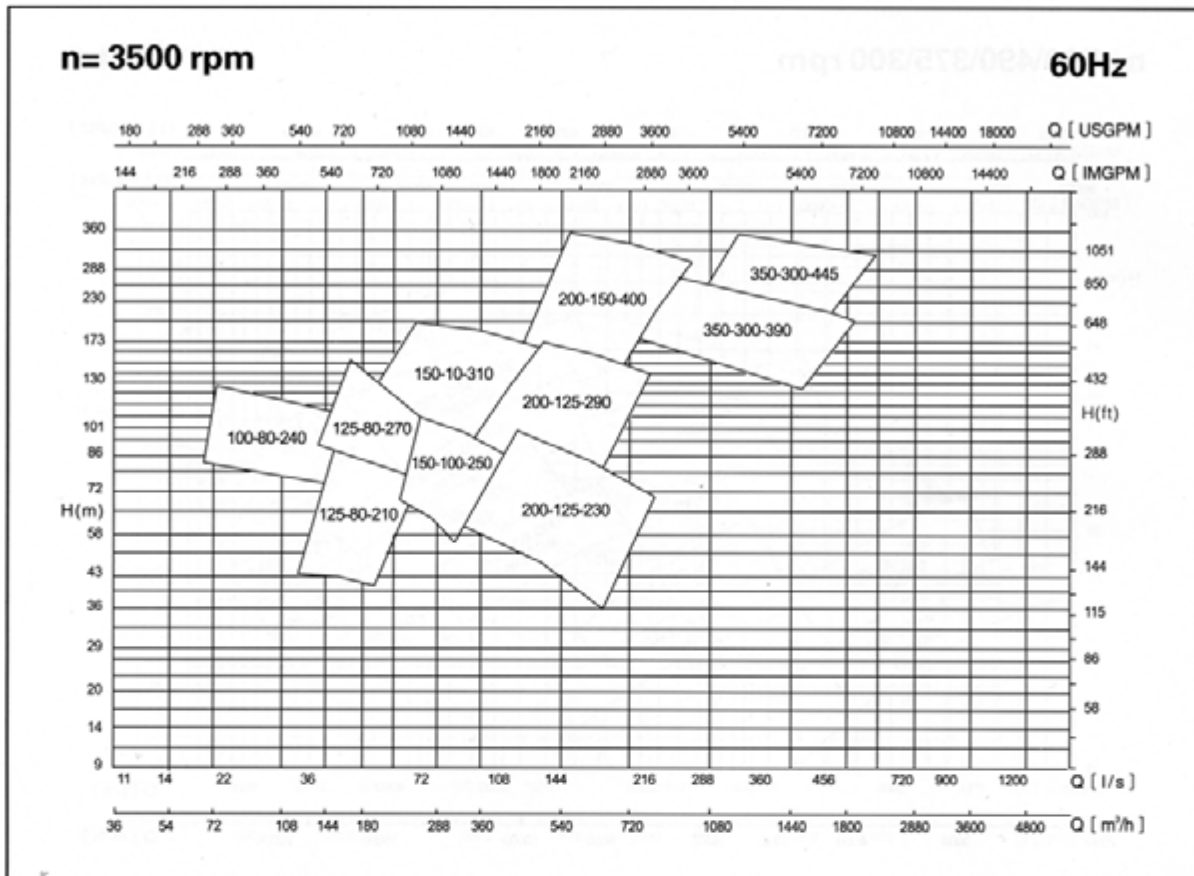
Hydraulic Coverage



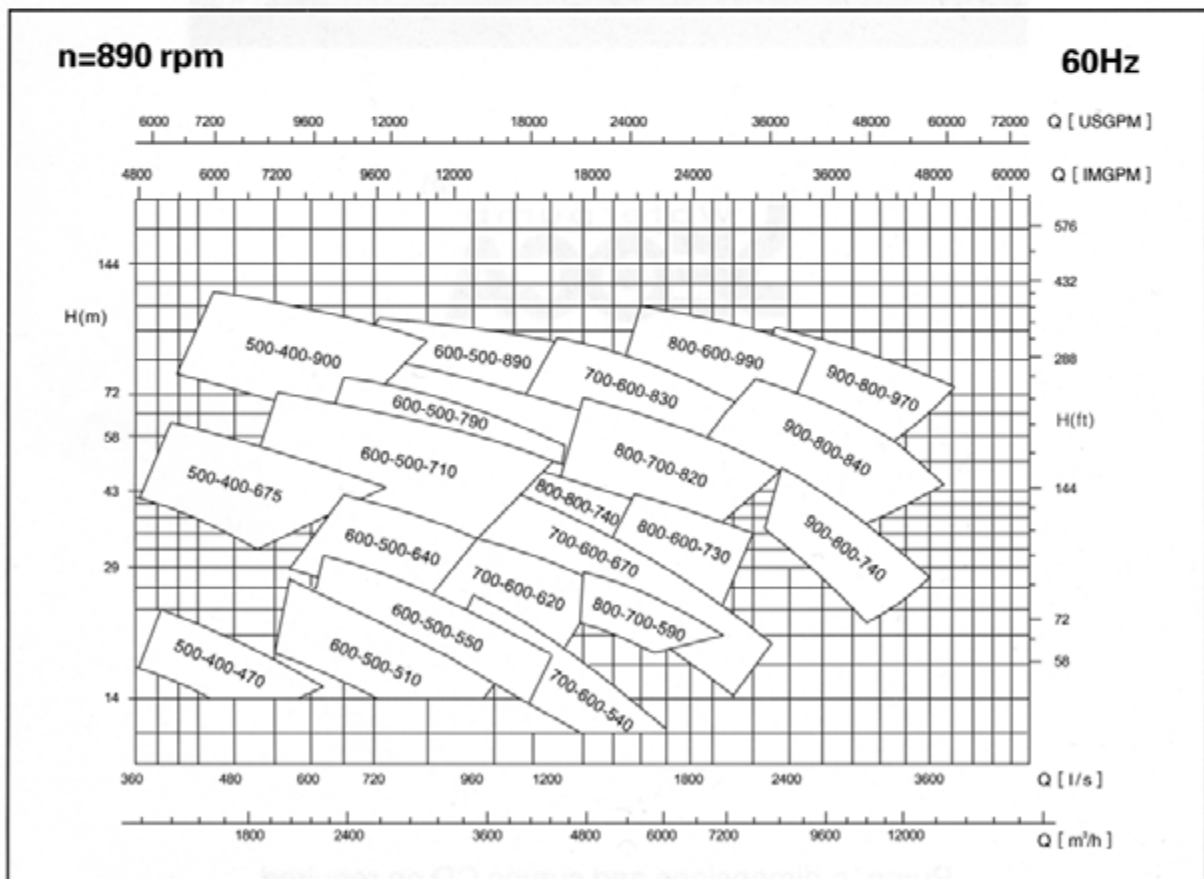
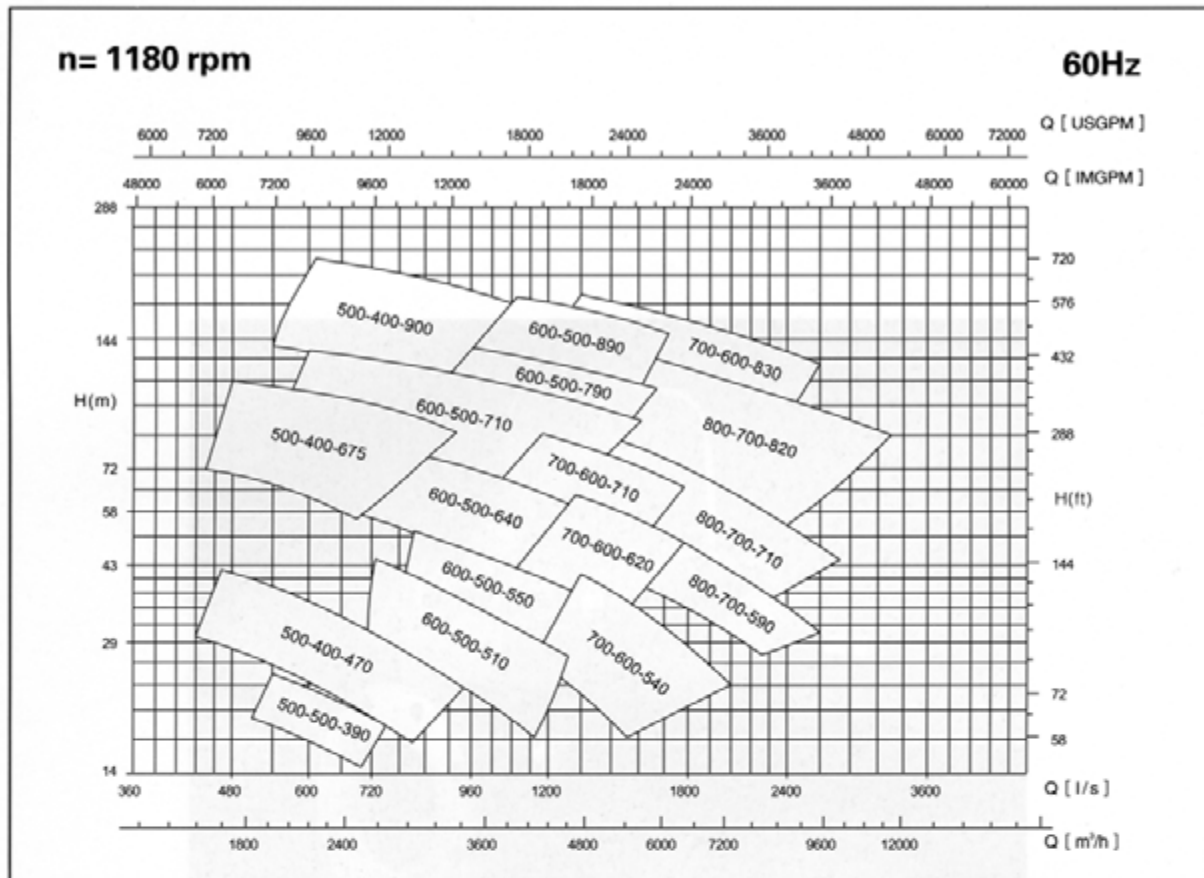
Hydraulic Coverage



Hydraulic Coverage



Hydraulic Coverage





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