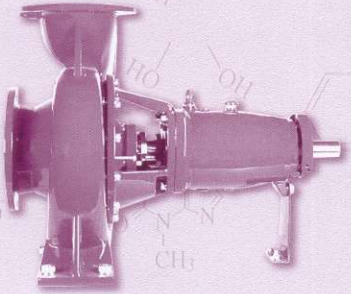
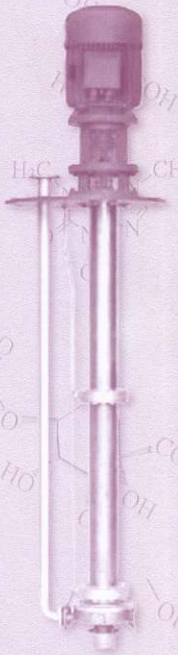
# Chemical & Process Pumps

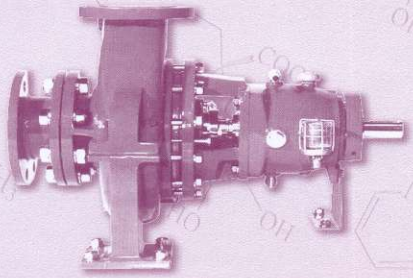
## CNX / CNO



## CVN / CVO



## CPR



BEACON WEIR LIMITED

# Chemical Pumps : CNX / CNO

## Capacity Range

| | | |
|---|---|---|
| Suc. X Del. Size | : | 40 mm x 32 mm - 500 mm x 500 mm |
| Discharge | : | 3 $m^3/h$ - 5250 $m^3/h$ |
| Total Head | : | 1.5 m - 225 m |
| Speed | : | 740 / 985 / 1470 / 2900 rpm |
| Temperature | : | -30° C to +180° C |
| Flanges | : | ANSI B 16.5 CL 150/300 |

## Application

- Chemical plants
- Petro Chemical
- Refineries
- Paper and Pulp
- Nuclear power
- Mining
- Food Industries
- Sewage
- Drugs and Pharma
- Water supply

## Features

Optimum degree of efficiency

Double volute design for medium capacities

Enclosed Impeller for CNX

Semi-open Impeller & Wear plate for CNO

Maximum Interchangeability of components

Large size shaft for minimum deflection

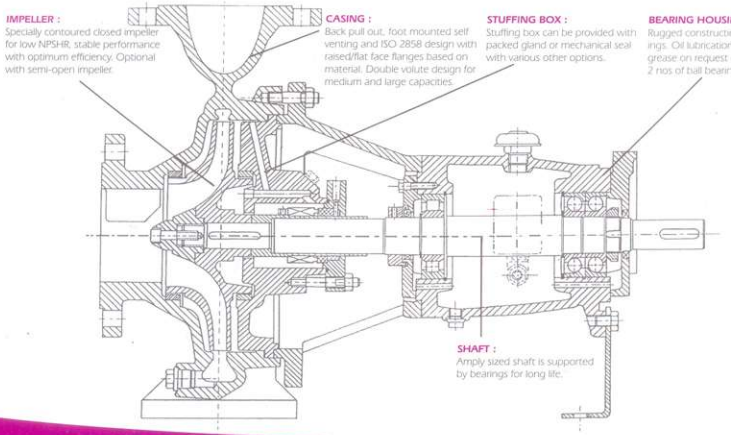
Heavy duty bearings for longer bearing life

Extra corrosion allowance for casing

Minimum Shaft Overhung

Low NPSHR

## CROSS SECTIONAL VIEW - TYPE : CNX



# Process Pumps : CPR

## Capacity Range

| | | |
|---|---|---|
| Suc. X Del. Size | : | 40 mm x 32 mm - 500 mm x 500 mm |
| Discharge | : | 3 $m^3/h$ - 5250 $m^3/h$ |
| Total Head | : | 1.5 m - 225 m |
| Speed | : | 985 / 1470 / 2900 rpm |
| Temperature | : | -50° C to +300° C |
| Flanges | : | ANSI B 16.5 CL 300 |

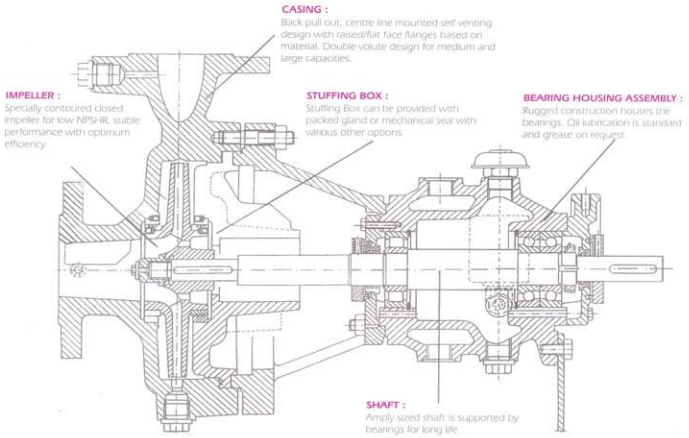
## Features

Centre line mounted
Optimum degree of efficiency
Double volute design for medium capacities
Maximum Interchangeability of components
Large size shafts for minimum deflection
Heavy duty bearings for longer bearing life
Generally confirm with API 610
Extra corrosion allowance for casing
Minimum shaft overhung
Low NPSHR

## Application

- Chemical plants
- Petro Chemical
- Refineries
- LPG Plants
- Fertiliser Plants
- Tar Distillation

## CROSS SECTION VIEW - TYPE : CPR



# Sump Pumps : CVN/ CVO

## Capacity Range

| | | |
|---|---|---|
| Suc. X Del. Size | : | 40 mm x 32 mm - 500 mm x 500 mm |
| Discharge | : | 3 $m^3/h$ - 5250 $m^3/h$ |
| Total Head | : | 1.5 m - 225 m |
| Speed | : | 985 / 1470 / 2900 rpm |
| Temperature | : | -30° C to +180° C |
| Flanges | : | ANSI B 16.5 CL 150/300 |
| Setting Depth | : | Upto 6 m |

## Application

- Chemical Plants
- Petrochemical
- Refineries
- Paper Industries
- Fertiliser Industries
- Power Plants
- Water Treatment Plants

## Features

Optimum degree of efficiency

Double volute design for medium capacities

Enclosed Impeller for CVN

Semi-open Impeller & Wear plate for CVO

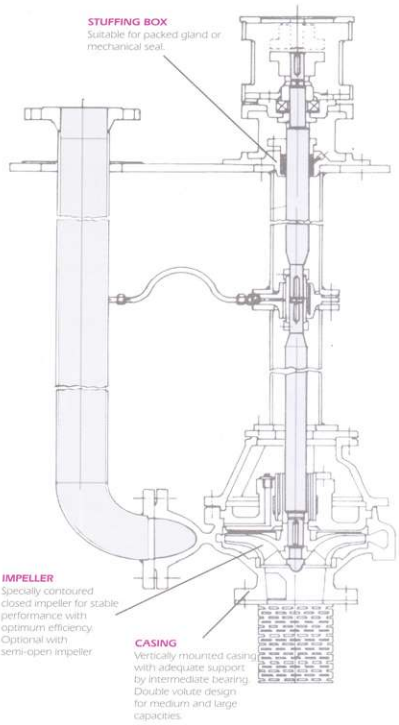
Maximum Interchangeablility of components

Large size shaft for minimum deflection

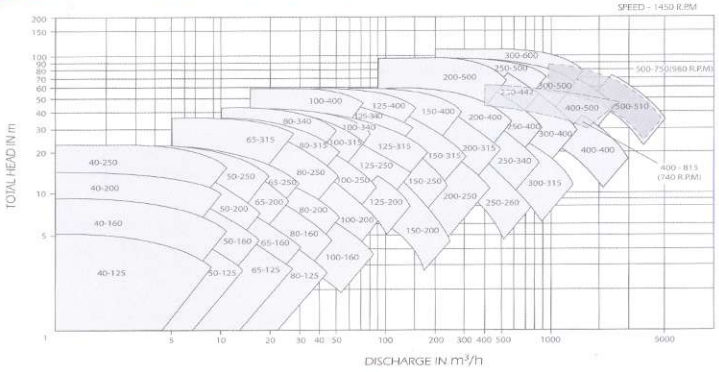
Heavy duty bearings for longer bearing life

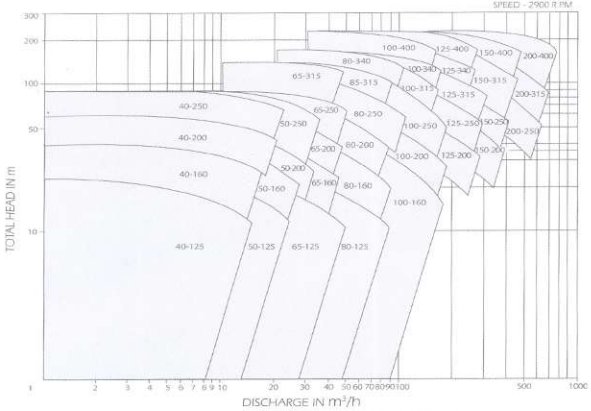
Extra corrosion allowance for casing

## CROSS SECTION VIEW - TYPE : CVN



## CNX / CNO, CPR, CVN / CVO - WATER RATING CHART




**OPTIONAL DESIGNS:**

(A) CNO/CVO - Semi-Open Impeller

(B) Pump with heating arrangement.

(C) Pump with cooled stuffing box

(D) Pump with cooled bearing housing

(E) Shaft Sealing arrangements- Pump with Single/ Double mechanical seals balanced or unbalanced.

### SUMMARY

| DESCRIPTION | CHEMICAL PUMPS | PROCESS PUMPS | SUMP PUMPS |
|---|---|---|---|
| PUMPS MODEL | CNX, CNW / CNO | CPR | CVN / CVO |
| IMPELLER TYPE | CLOSED / SEMI-OPEN | CLOSED | CLOSED / SEMI-OPEN |
| STANDARD | ISO 2858 & DIN 24256 | API 610 | HYD SIMILAR TO CN SERIES |
| RANGE | 5250 $m^3/h$ UPTO 225 m | 5250 $m^3/h$ UPTO 225 m | 5250 $m^3/h$ UPTO 225 m |
| MAX. WORKING PRESSURE | 16 BAR / 25 BAR | 25 BAR | 16 BAR / 25 BAR |
| TEMP. RANGE | -30°C TO +180°C | -50°C TO +300°C | -30°C TO +180°C |
| FLANGES | ANSI 150 / 300 | ANSI 300 | ANSI 150 / 300 |