



PUMP SELECTION GUIDE

Type	Products Name	Power Industry	Food Industry	Paper Industry	Iron, Steel, Nonferrous Metal Industry	Water Treatment Industry	Oil Refining Industry	Pharmacy Industry	Cooking Industry	Petro-Chemical Industry	Chemical Industry
Single-stage Overhung Pumps	SS Petrol Chemical Process Pumps										
	PC Petrol Chemical Process Pumps	•	•	•		•	•	•	•	•	•
	SC Chemical Process Pumps	•	•	•	•	•	•	•	•	•	•
	PLA Petrol Chemical Process Pumps		•			•		•		•	•
	VP Vertical In-line Process Pumps	•	•	•		•				•	•
Between Bearings Pumps	IH Chemical Process Pumps	•	•	•	•	•	•	•	•	•	•
	ASD Horizontal Double-suction Pumps	•			•					•	•
	ASD R Horizontal Double-suction Pumps	•			•					•	•
	DS Horizontal Multi-stage Pumps	•	•	•						•	•
Vertical Suspended Pumps	HB Horizontal Multi-stage Barrel Casing Pumps	•								•	•
	VB Vertical Can Pumps	•								•	•
	DL Vertical Multi-stage Pumps	•								•	•
	VT Vertical Submerged Pumps	•	•	•						•	•
	YW Submersible Pumps With Long Shaft	•	•	•	•	•				•	•
	LH Submerged Pumps With Long Shaft	•	•	•		•				•	•
Others	CY High Temperature Salt-melting Pumps							•		•	•
	GCY Liquid-sulfur Pumps							•		•	•
	DUH Self-priming Pumps	•			•	•		•			
	MF Chemical Mix-flow Pumps	•		•		•					
	HZW Chemical Axial-flow Pumps					•		•			•
Others	QW Submerged Pumps	•			•						
	VMP Submerged Pumps	•	•		•					•	•

All for the safe and efficient transportation of corrosive liquid

When the primary consideration is the initial cost of a pump with great reliability and proven commitment of service to our clients, PRIME pump units are the ideal choice.

“PRIME pumps can be designed to customer specification with pumping technology. It incorporates the best features & values from all commercially available pumps in terms of cost, delivery, reliability and performance”

PRIME - Air Blowers, Inc

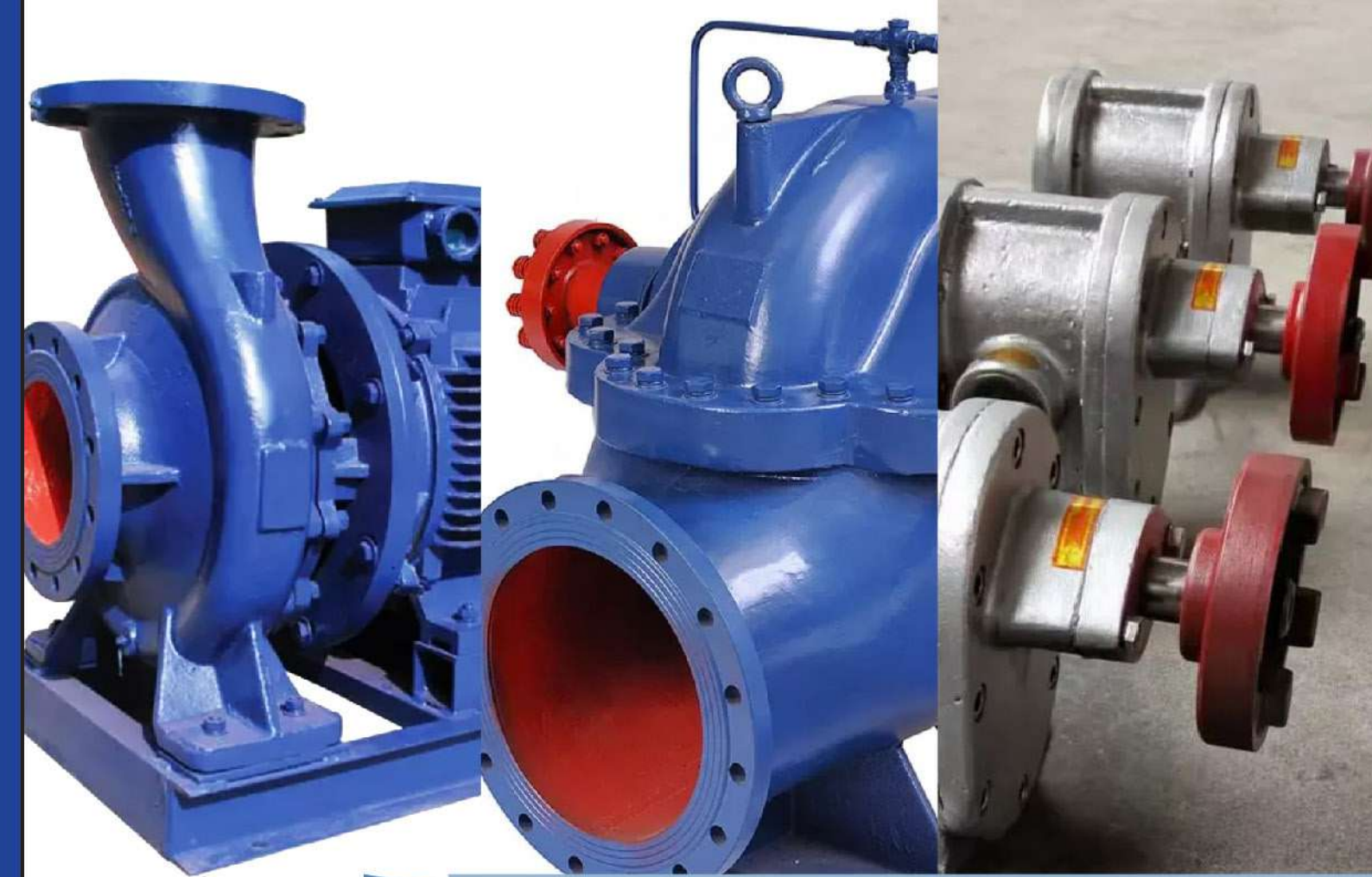


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Your Local Representative :



PRIME PUMP DIVISION

Centrifugal and Gear Pumps

High Performance
Easy Maintenance
Ease of Operation
More Pumping Per Dollar



PRIME PUMPS

- are designed in the USA to provide value of pumping technology for various industries involving all types of fluid.

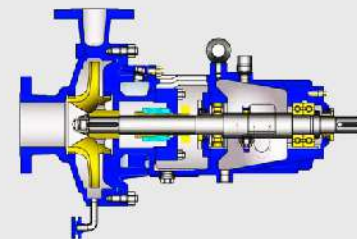
Reliability, maximum availability and performance are success factors that make Prime pumps extremely cost effective. Our goal with the Prime pumps is to bring the American design pump experience with its well-known low maintenance and robust construction and

superior performance at a more affordable price to the market.



SINGLE-STAGE OVERHUNG PUMPS

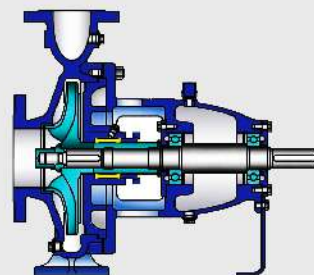
PC Petroleum Chemical Process Pumps



Petroleum Chemical | Oil refining & Gas | Power

- Overview**
 - API 610-OH1/OH2
 - Horizontal, single stage, radially split, foot or centerline mounted.
 - End or Top suction / Top discharge casing is self-venting.
- Performance**
 - Size: DN 25mm to 400mm
 - Capacity: up to 2600m³/h
 - Head: up to 300m
 - Operating Pressure: up to 13.5MPa
 - Operating Temperature: -80°C to + 450°C

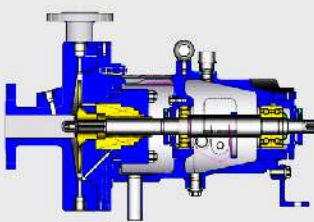
SC Standard Chemical Process Pumps



Petroleum | Chemical Process | Power

- Overview**
 - ISO 5199 / ASME B73.1
 - Horizontal, single stage, single suction radially split. The size ISO-400 and up are proprietary. The indexes of efficiency and cavitation performance both exceed that of IH pump type.
- Performance**
 - Size: DN 32mm to 300mm
 - Capacity: up to 2000m³/h
 - Head: up to 160m
 - Operating Pressure: up to 2.0MPa
 - Operating Temperature: up to +160°C

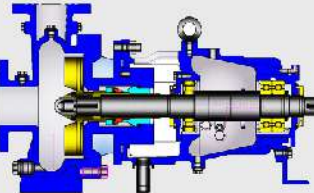
PC L Petroleum Chemical Process



Petroleum | Petrochemical | Oil refining & Gas

- Overview**
 - API 610-OH2
 - Horizontal, single stage, radially split, centerline mounted, designed for low flow, heavy duty applications.
 - End suction / Top discharge.
- Performance**
 - Size: DN 25mm
 - Capacity: 0.4m³/h to 6.3m³/h
 - Head: 15m to 140m
 - Operating Pressure: up to 5.0MPa
 - Operating Temperature: -80°C to + 450°C

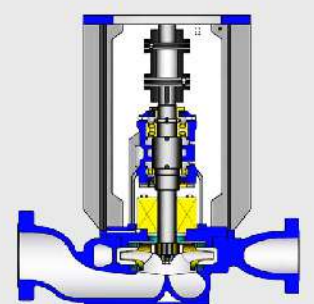
PC X Non-clog Process Pumps



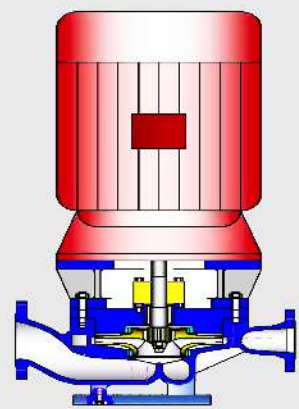
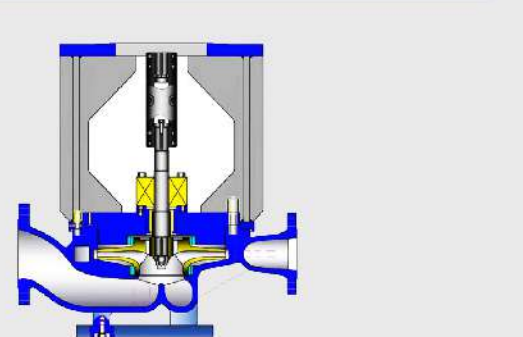
Chemical | Petroleum | Fiber

- Overview**
 - ANSI B73.1-OH1
 - Horizontal, single stage, single suction, radially split, foot support, recessed-impeller.
- Performance**
 - Size: DN 25mm to 200mm
 - Capacity: up to 600m³/h
 - Head: up to 160m
 - Operating Pressure: up to 2.0MPa
 - Operating Temperature: -20°C to + 160°C

VP Vertical In-line Process Pumps



Petroleum Chemical | Oil refining & Gas | Power

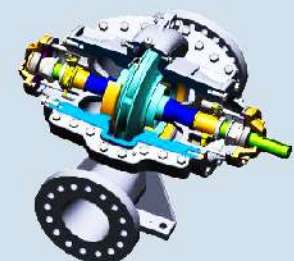


- Overview**
 - API 610-OH3/OH4/OH5
 - Vertical, single stage, single suction radially split, volute casing type in-line overhung pump.
 - OH3: pumps and motors are flexible coupled.
 - OH4: pumps and motors are rigidly coupled.
 - OH5: close-coupled pumps have their impellers mounted directly on the driver shaft.

- Performance**
 - Size: DN 40mm to 400mm
 - Capacity: up to 2600m³/h
 - Head: up to 300m
 - Operating Pressure: up to 5.0MPa
 - Operating Temperature: -20°C to + 250°C

ASD Axial Split Double Suction Pumps

Water Supply & Industry | Desalination

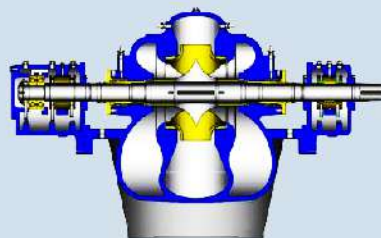


- Overview**
 - API 610-BB1
 - Axially split, single stage, double suction, vertical or horizontal arrangement.
 - ASD pumps can also be used as energy recovery turbines, Foot

- Performance**
 - Size: DN 25mm to 400mm
 - Capacity: up to 10000m³/h
 - Head: up to 180m
 - Operating Pressure: up to 2.5MPa
 - Operating Temperature: -20°C to + 160°C

ASD H Oil Transportation Pipeline Pumps

Oil Transportation | Petrochemical | Pipeline

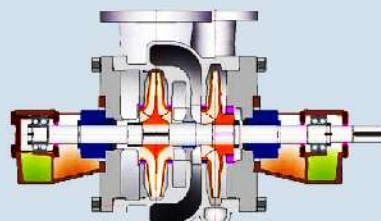


- Overview**
 - API 610-BB1
 - Horizontal, axially split, single stage, volute casing pump, with double suction.
 - General oil transportation, waste duties, pipeline and Offshore industry general industrial purposes.

- Performance**
 - Size: DN 300mm to 1000mm
 - Capacity: 700m³/h to 15000m³/h
 - Head: up to 490m
 - Operating Pressure: up to 11.0MPa
 - Operating Temperature: up to +205°C

ASD R Radial Split Double Suction Pumps

Petroleum Chemical | Oil refining & Gas | Power

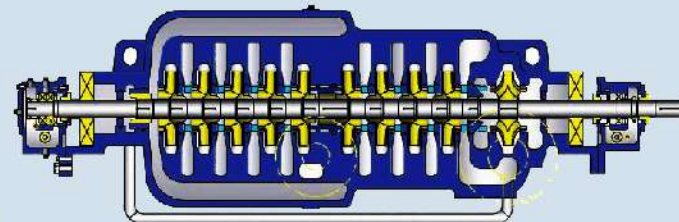


- Overview**
 - API 610-BB2
 - Single stage or two stages, double suction or single suction, radially split casing, between-bearings, heavy duty process pumps, centerline mounted.
 - Top or Side suction / Top discharge, mechanical seal compliance with API 682.

- Performance**
 - Capacity: up to 10000m³/h
 - Head: up to 450m
 - Operating Pressure: up to 5.0MPa (Max 10.0MPa)
 - Operating Temperature: -45°C to + 450°C

ASD M High Pressure Multi-stage Pumps

Petrochemical | Oil-Pipeline | Oil refining & Gas

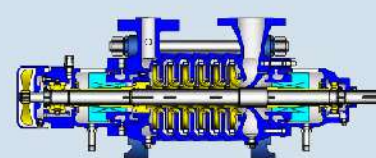


- Overview**
 - API 610-BB3
 - Horizontal, axial-split, double volute, centerline mounted, opposed impeller, multi-stage pump. Opposed impeller construction for axial thrust balance. Double volute construction for radial thrust balance.

- Performance**
 - Size: DN 80mm to 400mm
 - Capacity: up to 2000m³/h
 - Head: up to 2500m
 - Operating Pressure: up to 25.0MPa
 - Operating Temperature: -50°C to + 200°C

DS Ring-section Multi-stage Pumps

Petroleum Chemical | Oil refining & Gas | Power

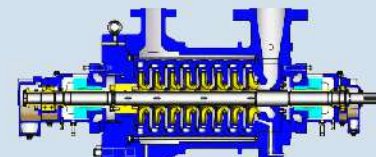


- Overview**
 - API 610-BB4
 - Horizontal, multi-stage, ring-section, radially split, between bearings pumps with high efficiency and low NPSH.

- Performance**
 - Size: DN 25mm to 200mm
 - Capacity: up to 800m³/h
 - Head: up to 1300m
 - Operating Pressure: up to 15.0MPa

HB Horizontal Multi-stage Barrel Pumps

Petroleum Chemical | Oil refining & Gas | Power

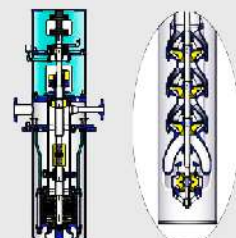


- Overview**
 - API 610-BB5
 - Horizontal, multi-stage, radially split, between bearings, barrel type, centerline mounted petrochemical process pumps.

- Performance**
 - Size: DN 40mm to 200mm
 - Capacity: up to 10000m³/h
 - Head: up to 2200m
 - Operating Pressure: up to 25.0MPa
 - Operating Temperature: -80°C to + 450°C

VB Vertical Multi-stage Barrel Pumps

Petroleum Chemical | Oil refining & Gas | Power

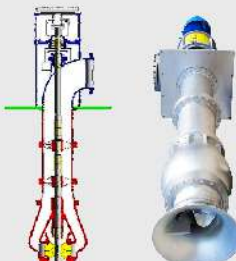


- Overview**
 - API 610-VS6/VS1
 - Multi-stage, radially split, diffuser, vertical suspended, primary designed for plants handling liquids with low suction heads.

- Performance**
 - Size: DN 40mm to 200mm
 - Capacity: up to 800m³/h
 - Head: up to 800m
 - Operating Pressure: up to 10.0MPa
 - Operating Temperature: -120°C to + 180°C

YW Vertical Suspended Pumps

Seawater Desalination | Water Supply | Power

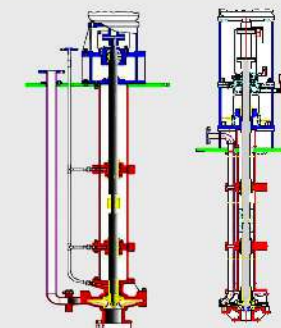


- Overview**
 - API 610-VS2
 - Vertical, single stage, single or double suction, suspended pumps with discharge through the column.
 - Double-suction or mixed-flow impeller design.

- Performance**
 - Size: DN 150mm to 600mm
 - Capacity: up to 10000m³/h
 - Head: up to 200m
 - Operating Pressure: up to 2.5MPa
 - Operating Temperature: -20°C to + 50°C

LH Vertical Suspended Chemical Pumps

Petroleum Chemical | Oil refining & Gas | Food

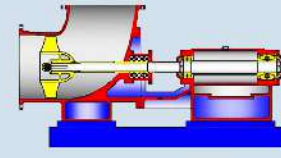


- Overview**
 - API 610-VS4/VSS
 - Vertically suspended, single stage, single-suction, volute, line-shaft-driven, multiple spot support sump pumps.
 - Can be made to heat insulation or high temperature design.

- Performance**
 - Size: DN 25mm to 400mm
 - Capacity: up to 2600m³/h
 - Head: up to 260m
 - Operating Pressure: up to 2.5MPa
 - Operating Temperature: -20°C to + 450°C

HZ Chemical Axial-flow Pumps

Chemical Industry | Water Circulation

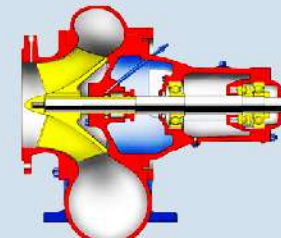


- Overview**
 - Horizontal, single stage, single suction, axial-flow impeller
 - Top or End suction
 - Mainly used for big capacity and low head
 - To satisfy different working conditions by adjusting the blade installation angle

- Performance**
 - Size: DN 250mm to 1600mm
 - Capacity: 200m³/h to 35000m³/h
 - Head: 2m to 9m
 - Operating Pressure: up to 1.0MPa
 - Operating Temperature: 0°C to + 200°C

MF Chemical Mixed-flow Pumps

Water Supply | Water Circulation

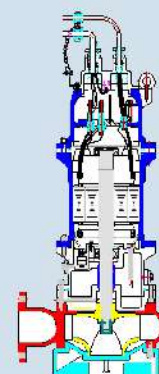


- Overview**
 - Single stage, single suction, radially split, open or closed impeller, pull-out design
 - Arranged either horizontally or vertically, foot support.

- Performance**
 - Size: DN 175mm to 600mm
 - Capacity: up to 7000m³/h
 - Head: up to 30m
 - Operating Pressure: up to 1.0MPa
 - Operating Temperature: -20°C to + 160°C

QW Submersible Sump Pumps

Sewage Treatment | Nuclear Plants | Power



- Overview**
 - Single stage, single suction, large capacity, blockage free and circumvolution proof impeller design, auto-control etc.
 - Submersible sewage pumps with high motor power have circulative cooling system. QWE is with anti-explosion motor
 - Pumping solids or fiber city sewage, industry sewage, mud, excrement or pulp, etc.

- Performance**
 - Size: DN 50mm to 600mm
 - Capacity: 18m³/h to 4500m³/h
 - Head: up to 90m
 - Operating Pressure: up to 1.6MPa
 - Operating Temperature: 0°C to + 60°C

BETWEEN BEARINGS PUMPS

VERTICAL SUSPENDED PUMPS

OTHERS