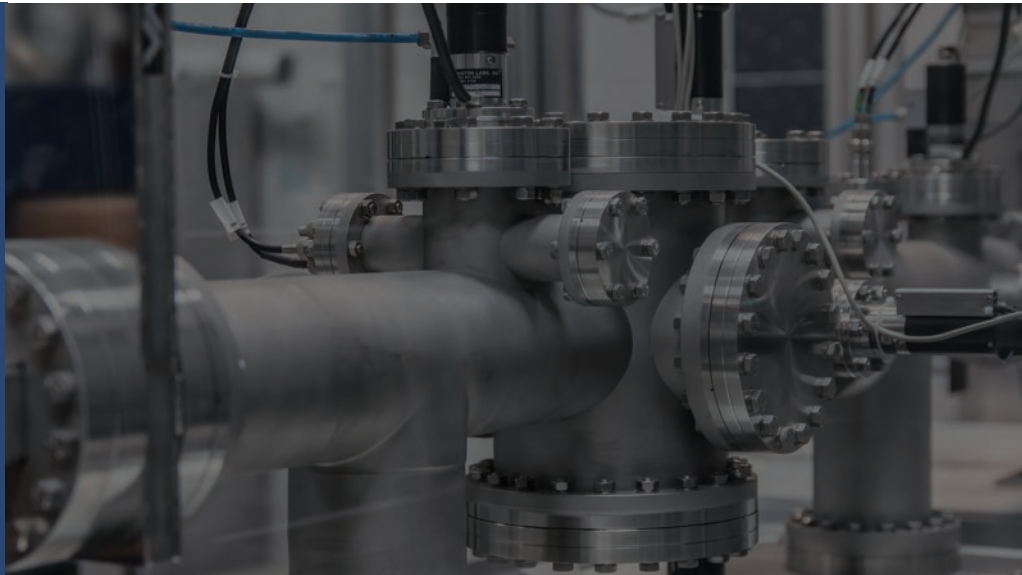




Al-Nidaa Engineering Company

CENTRIFUGAL PUMP





Al-Nidaa Engineering

Factory Basic Information

- ▶ Leader chemical pump manufacturer in Germany
- ▶ Established in 1985
- ▶ Total 100,000 square meters with 3 plants More
- ▶ than 300 staffs including 20 engineers Germany
- ▶ Famous brand
- ▶ 15 Patents

What can we offer?

- ▶ API610 Heavy Duty Centrifugal pump
- ▶ ISO/ASME/ANSI Centrifugal pump
- ▶ Self-priming Pump
- ▶ Inline Pump
- ▶ Good quality
- ▶ Strong team



► Introduction

Al-Nidaa Engineering Company is a leading company serves the oil refinery, petrochemical, chemical, fertilizer, pharmaceutical, pulp & paper, power plants, mining with qualified magnetic pumps, self-priming pumps, inline pumps, slurry pumps, centrifugal pumps, chemical process pumps, valves, pipe fittings. Our unmatched combination of products, engineering, and aftermarket services helps our customers achieve tangible business results: lower operating costs, optimized performance, prolonged equipment life, mitigated risks, and higher productivity.

Draw on our industry expertise to help address your most pressing challenges while reducing expenses, minimizing risk, and maximizing performance. Our customers benefit from our commitment to innovation, performance, and quality.

► Why Choose us ?

- First class production equipment
- Good quality control
- Competitive price
- Fast delivery time
- Excellent service
- Strong engineer team with R&D ability
- Full range part molds developed by ourselves
- Stable supply chain

► Who we are ?

Your reliable pumping solution consultant and partner



Al-Nidaa Engineering Company

PRODUCTS

OH1 SERIES PUMP / 01
OH2 SERIES PUMP / 07
OH4 SERIES PUMP / 08
OH6 SERIES PUMP / 09
BB1 SERIES PUMP / 16
BB2 SERIES PUMP / 19
BB3 SERIES PUMP / 21
BB4 SERIES PUMP / 23
BB5 SERIES PUMP / 25
VS1 SERIES PUMP / 27
VS4 SERIES PUMP / 28
VS5 SERIES PUMP / 30
VS6 SERIES PUMP / 31

OH1

XA standard centrifugal pump

XA is used for handling clear water or the liquids similar to the water physically and chemically finding the applications for water feed and supply service in mine, plants and towns and some uses in air-conditioning, extinguishing and irrigation.

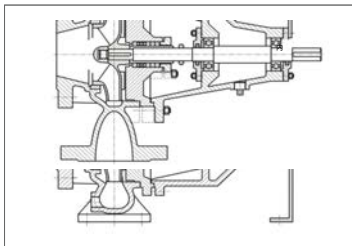
Speed: 2900r/min ; 1450r/min or 1480r/min

Max. Head: 55m-100m

Temperature range: -10 °C to 105°C



>> Structure:



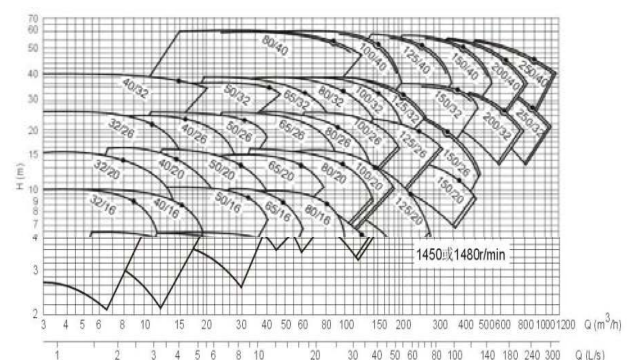
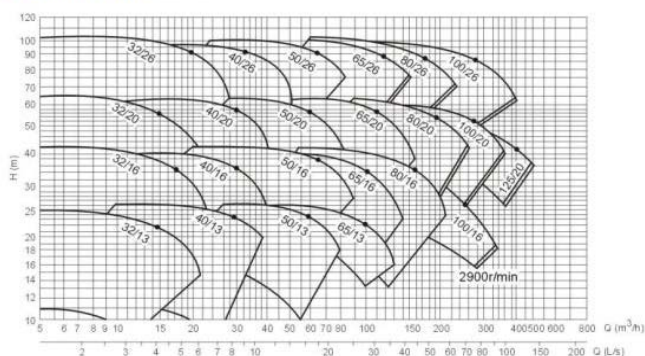
XA is a back-open type. Dismantle the pump cover and the impeller without taking out both the suction and discharge piping. In the bearing bracket, there are two ball bearings which are lubricated with oils or grease. The pump is driven through the flexible coupling from a motor direct.

>> Application:

Air condition
Refrigeration
Fire Protection
Circulating
Transfer
Drainage
Cooling tower
Pressure
Boosting
Water
Treatment

>> PERFORMANCE CURVE

Selection charts 50 Hz



OH1

ICP series chemical pump

ICP type chemical pump is a new generation of chemical process pump designed by the company's newly developed chemical pump structure developed by several famous pump companies in the 21st century. It is interchangeable with IH pump and CZ type chemical pump from Switzerland Sulzer Company, its operational reliability is better than IH type pump and CZ type pump.

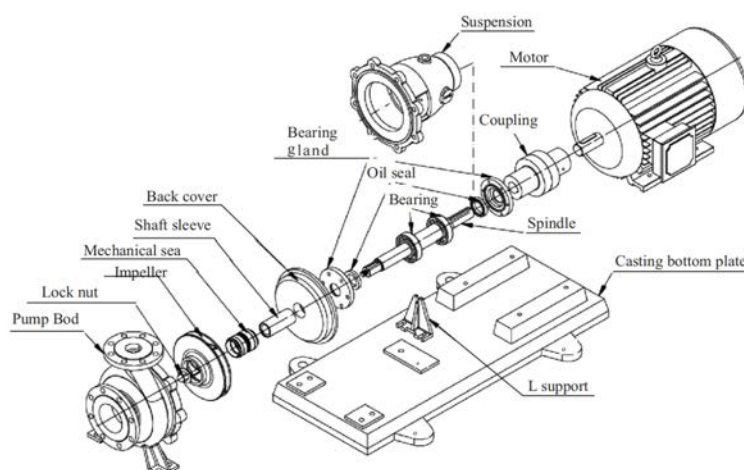


PUMPING LIQUID: Acid and caustic liquid, Oxidizer corrosive liquids, Difficult-to-seal liquids, Sulfuric acid, Hydroelectric acid, Nitric acid, Acid and lye, Nitromuriatic acid, High efficiency and energy conservation.

>> MODEL AND PARAMETER

ICP 80-65-160 - A- 304

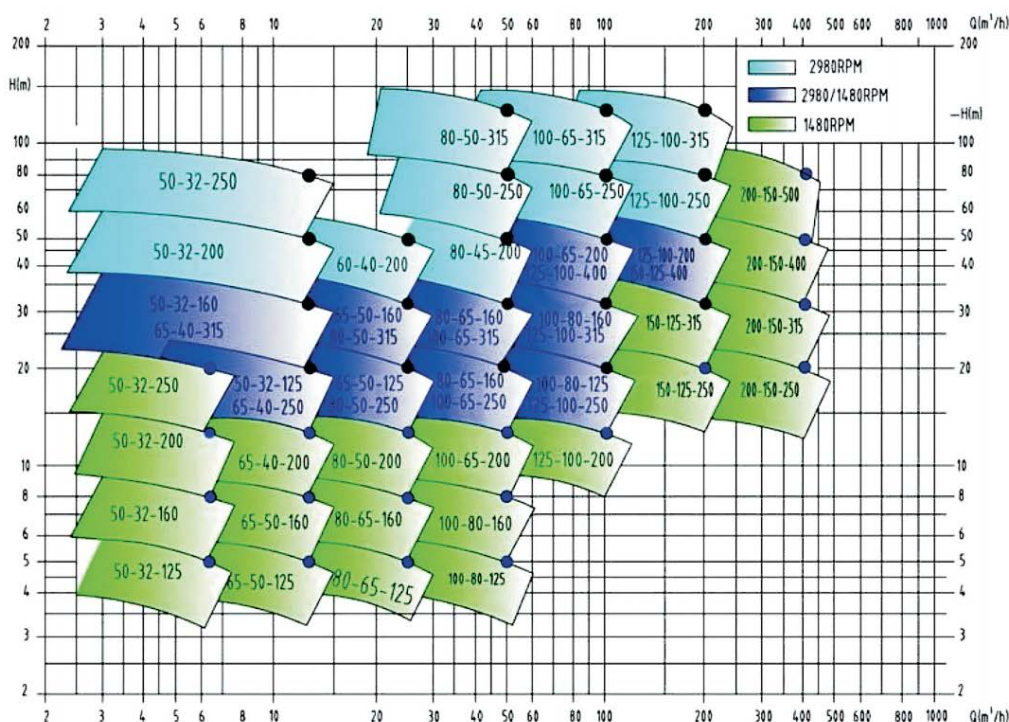
ICP	International Standard Chemical Process Pump English abbreviation	160	Impeller normal diameter 160mm
80	Pump body inlet nominal diameter (mm)	A	Impeller outer diameter cutting code
65	Nominal diameter of pump outlet (mm)	304	Pump overcurrent material code



>> Design Features

- Improve the lifespan of mechanical seals and bearings with the highest failure rate in chemical pump operation.
- Increase the shaft stiffness with a bolded shaft.
- The bearing is enlarged, and the double-row radial thrust ball bearing is adopted. The axial clearance of the rotor is small, and the bearing life is larger than 25,000 hours, which prolongs the lifespan of the machine seal.
- The impeller and the pump shaft can be connected by screws, the sealing is reliable, the disassembly and assembly is convenient, and the anti-cavitation is better than the IH pump.
- Available in a variety of shaft seal types: single-end, double-end, built-in, external mechanical seals, cartridge seals, packing seals, etc., and can be supplied with the machine seal auxiliary system according to the US API610 standard.

>> Structural diagram



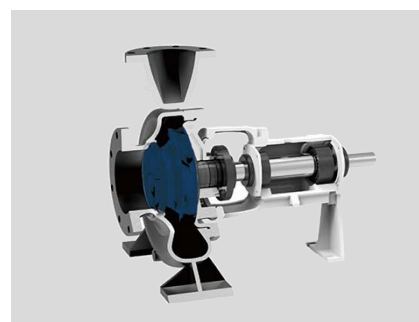
OH1

WZF series chemical pump

WZF designed as API610 OH1, overhung end suction volute casing, radially split pump with a back pullout design. These pumps are suitable for chemical process industries and refinery for handling corrosive acids, alkalies, hydrocarbons, etc.

>> Application :

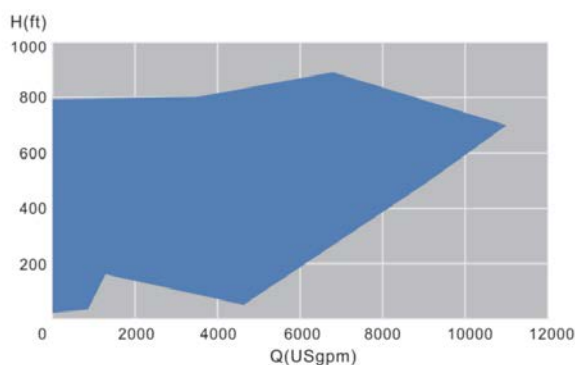
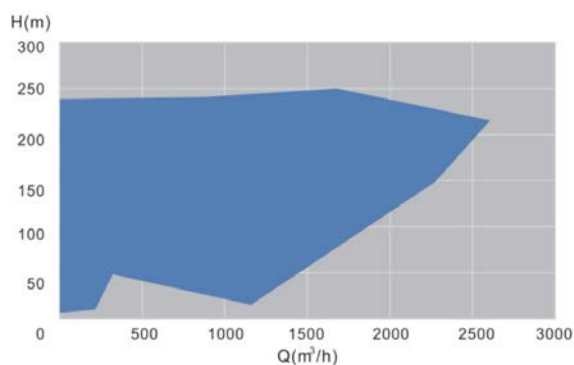
- Power Generation Boiler Feed;
- Oil and Gas Refinery;
- Petrochemical Industries and Other Chemical Industries;
- General Industries;
- Condensate and General Industries;



>> Parameter

WZF	ISO	US
Design	ISO5199 / DIN 24256	API610 (OH1)
Capacity	Up to 2600m ³ /h	Up to 11400 GPM
Head	Up to 250 m	Up to 820 feet
Temperature Range	-80 ~ +450 °C	-170-+840 °C
Pressure Range	Up to 25 bar	360 psi
Material Range	Carbon Steel, SS, Duplex, Super Duplex, Hast alloy	
Nozzle Direction (sue / dis)	End / Top Center-Line discharge (self-venting)	
Motor Sync. Speed	1500/3000 rpm	1800/3600 rpm
Options	Semi-Open / Open impeller,	
Flange Standard	ANSI/HG/DIN/JIS	

>> Performance Range



OH1

DCZ series petrochemical process pump

The DCZ series standard chemical pumps are horizontal single-stage single-suction centrifugal pumps with dimensions and performance in accordance with DIN24256/ISO2858. The performance range of DCZ series standard chemical pumps includes all the performances of IH series standard chemical pumps.

>> Performance parameter

Caliber: 32-300mm;

Flow rate: $\leq 2000\text{m}^3/\text{h}$;

Head: $\leq 160\text{m}$;

Working pressure: 2.5MPa;

Working temperature: - 80 ~ +300



>> MODEL AND PARAMETER

DCZ 65 - 160 A

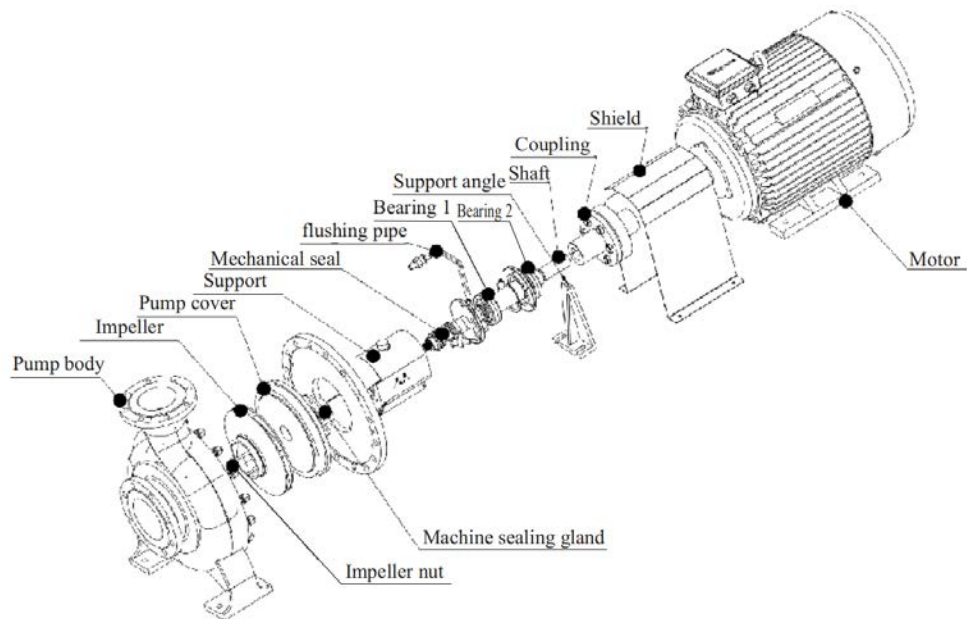
DCZ	Petrochemical process pump
65	Nominal diameter of pump outlet (mm)

160	Normal diameter of impeller
A	Impeller outer diameter cutting code

>> Design Features

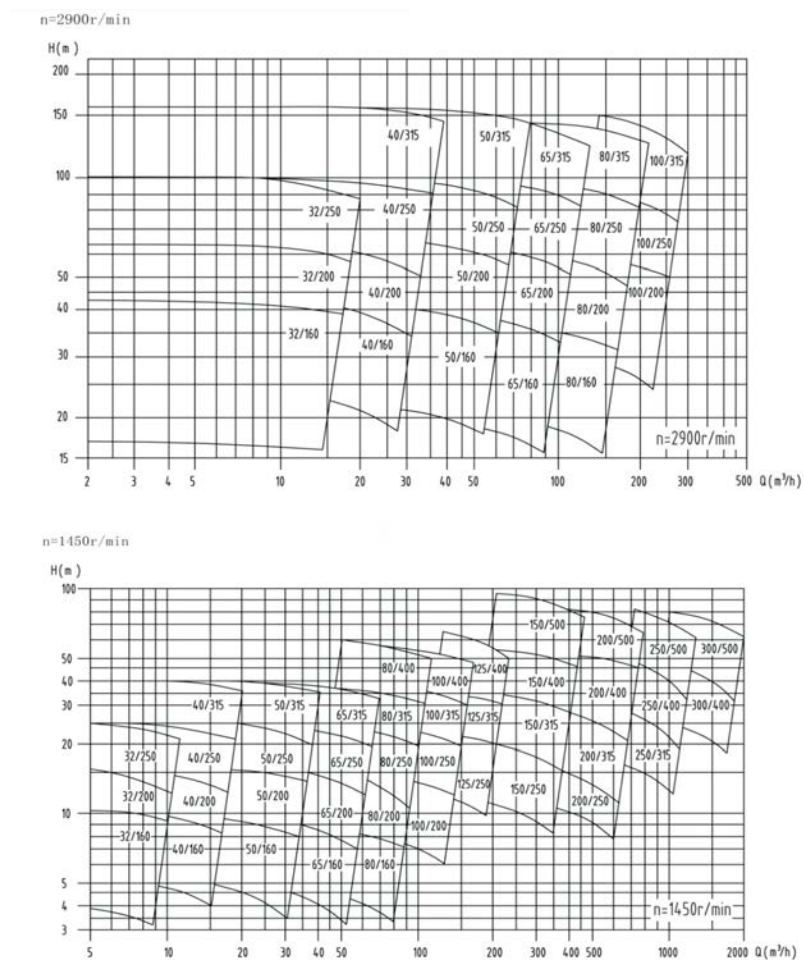
- **High efficiency and energy saving:** good hydraulic performance, high pump efficiency and wide range. By changing the size of the impeller, it can meet different performance requirements.
- **Strong versatility:** The whole series has good versatility, high degree of serialization, convenient unified management and reduce spare parts inventory.
- **Reliable operation:** Increase the pump shaft, eliminate the bushing, reduce the sealing surface, and reduce the failure rate. Safety and environmental protection: Increase the bearing housing, avoid oil lubrication, reduce leakage points, and is conducive to on-site environmental sanitation.
- **A variety of seals:** Can be matched with single seal, double seal, packing seal and K-type seal.
- **Convenient maintenance:** The Cartridge structure single seal and double seal, the pump can be accurately installed in place without installation and replacement of professional personnel.

>> Structural diagram



Remarks: The company may change the actual structure according to different working conditions, the specific structure is accurate in kind.

>> Structural diagram



OH2

WZC series overhung pump

WZC series is designed in accordance with standard of API610, 11th and possible to be last revision upon requirement, single stage, center-line support, end suction, radially split, overhung installation pump.

>> PUMP PARAMETERS

Design Standard: API610, 11th / ISO 13709

Design Pressure: WZC/WXF Up to 5.0 MPa; WZH Up to 10.0 MPa

Nozzle Size: DN 25 ~ DN 500

Flange Rating: ANSI B16.5 300~600lb, RF or HG / DIN / JIS std

Capacity: Up to 2,600 m³/h

Head: Up to 300 m

Temperature : -80 ~ 450

Speed: Up to 3600 rpm

>> PUMP MATERIAL

Material selection ranges from API610 Standard Material Class S-5 to D-2

- Carbon steel
- Martensitic Stainless steel - 12%Cr, CA6NM(high-temp duty)
- Austenitic stainless steel - 304/304L, 316/316L, 904L
- Duplex SS
- Super Duplex SS
- Hast-alloy - Hast-B, Hast-C
- Titanium
- Other material on request

>> Application

- Petroleum refining / Petrochemical industry / Crude oil shipping
- Chemical industry / Coal chemical industry / Fine chemical industry
- Oil & Gas production transportation
- Power station / Thermal power plant / Boiler water feeding
- Marine pump / Offshore industry / Platform
- Seawater desalination
- Acids, alkali, brine liquid shipping
- High temperature and high pressure liquid pumping

>> PUMP CROSS SECTION DRAWING AND FEATURES



Bearings

Oil-lubricated anti-friction bearings as standard for stable and long lifetime running. Oil mist lubricated bearings available.

Bearing Housing

Totally new designed for heavy duty with high load capacity. Oil seal protection as standard.

Cooling

Air-cooling bearing housing design as standard. Water cooling coil for high temperature duty and fan cooling for non-water duty available.

Condition Monitoring

Provision of mounting flat surface as standard. Temperature, vibration, pressure instruments available.

Rotor

Static and dynamic balanced impeller as standard. Life-design analysis for shaft strength to ensure stable and reliable running.

Mechanical Seal

API682, 4th cartridge single seal or dual unpressurized/pressurized seal with variable seal system as standard. Reliable and almost no leakage. Non-API seal and packing available.

Impeller

High hydraulic efficiency designed by CFD. Closed type as standard. Open and semi-open type available. Precision casting and ceramic coating available. Low flow type of WXF series available.

Mounting type

Center-line support for high pressure and temperature duty as standard.

Wear Ring

Replaceable wear rings for easy maintenance. Wear plate for open/semi-open impeller available.

NPSH

Low NPSH design. Inducer for better NPSH performance available.

⑪ Suction

End suction as standard. Inducer for better NPSH performance available. High suction pressure type of WZH series available.

OH4

DLF vertical multi-stage pump

DLF vertical multi-stage pump is the company's latest technology, advanced stamping, a vertical multistage centrifugal pump made by stretching, welding, polishing, etc.

>> Features

Convenient maintenance: The pump adopts a built-in mechanical seal structure, and the seal is replaced without disassembling the tube. The road and the pump can be completed simply by disengaging the coupling on the pump shaft.

Easy to install: the inlet and outlet of the pump are connected by a loose flange , which can be switched at will.

Pipe installation: the inlet and outlet of the pump are on the same level, (special requirements can also be any angle and height) for easy installation.

Beautiful appearance: Because the pump is a vertical structure, it has a small footprint and is very harmonious. The matching motor of the pump is made of aluminum alloy casing, which has beautiful appearance and heat dissipation.



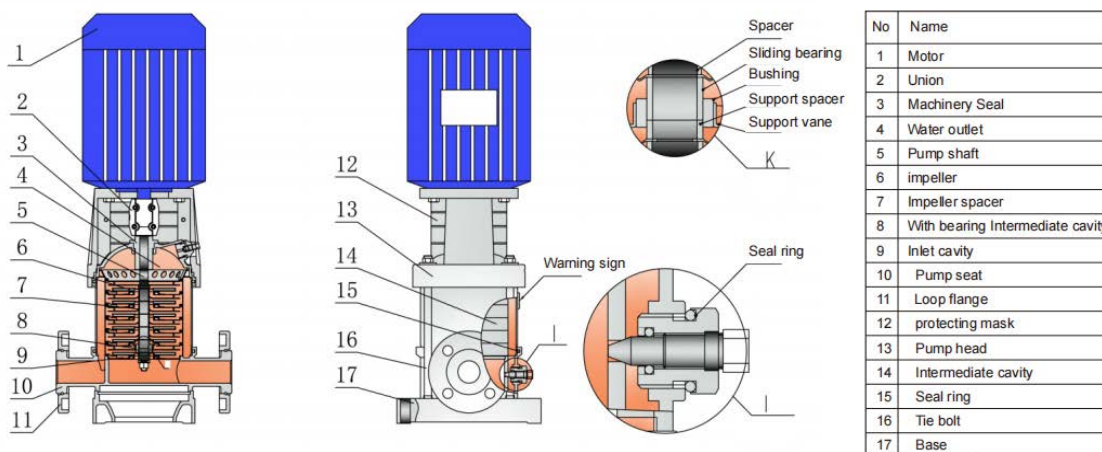
>> MODEL AND PARAMETER

DLF 8 - 160 / 2

DLF	Stainless Steel Vertical Stage Pump
8	Rated Capacity

160	Head
2	Impeller Number

>> Schematic



OH6

GSB-L API-610 latest edition

Pump provide innovative high-speed pump pumping solutions to business partners in the following industries: Oil & Gas; Refinery; Hydrocarbon Processing; Fertilizers; Petrochemical. All our pumps are manufactured and tested the latest edition of API 610 to ensure reliable and safe operation at site.



>> MODEL AND PARAMETER

GSB-L1/2/3- Flow/ Head

GBS	High-speed Pumps	Flow	Design point flow (m ³ /h)
L	Vertical	Head	Design point head (m)

>> PUMP PARAMETERS

Head: 250 m ~ 1220 m
Capacity: 0.5 m³/h ~ 90 m³/h
Speed: 7850 rpm ~ 22700 rpm
Temperature : -60 ~ 340
Design Standard: API 610
Motor Power: 37 kW ~ 132 kW

>> Application

- Petroleum
- Pharmaceutical
- Refining
- Petrochemical
- Metallurgy
- Papermaking

>> Features

- The inlet and outlet flanges of the pump body are symmetrical on a horizontal line, with strong structural rigidity and high bearing capacity of external piping.
- The impeller adopts the open type straight blade centrifugal impeller diameter and is installed on the output shaft of the speed-increasing box to improve the efficiency point and hydraulic performance of the pump.
- The unique design of the pump casing diffuser makes the inherent head of the pump cut off, and there is no need to worry about overloading the motor due to changes in working conditions or misoperation.
- The design of the front inducer makes the pump have good suction performance, improves the cavitation performance, and reduces the necessary cavitation allowance of the pump.
- The perfect oil circuit detection system enables the pump to run safely and reliably for a long time.

>> GSB-L1 Design Feature

Input Shaft Assembly:

Balancing standard service reduces vibration and noise while improving reliability and operating life. ISO 1940 Grade 2.5.

O-Rings Standard in Gearbox Split

Line: Eliminates leakage and reduces clean-up and contamination to atmosphere. Improves durability for shipping, storage, and assembly.

Oil Mechanical Seal:

Eliminates leakage and reduces clean-up and contamination to atmosphere. Improves durability for shipping, storage, and assembly.

Lube Oil Pump:

Improved design eliminates oil pressure fluctuations, prevents oil.

Mechanical Seal:

Single, Double, & Tandem Mechanical Seal Arrangements can be optional.

Pump Volute:

The hydraulic optimization design can effectively improve the hydraulic efficiency of the pump.

Tapered Alignment Plans:

Maintains true position and integrity of the bearing bores. Alignment is maintained even after multiple rebuilds.

Upper Radial Journal Bearing:

To ensure the smooth operation of the pump.

Tapered Thrust Washer:

Handles higher thrust capacity and is dimensionally interchangeable.

Output Shaft Assembly:

Balancing standard service reduces vibration and noise while improving reliability and operating life. ISO 1940 Grade 2.5. Designed for minimum bearing span to overhang ratio.

Lower Radial Journal Bearing:

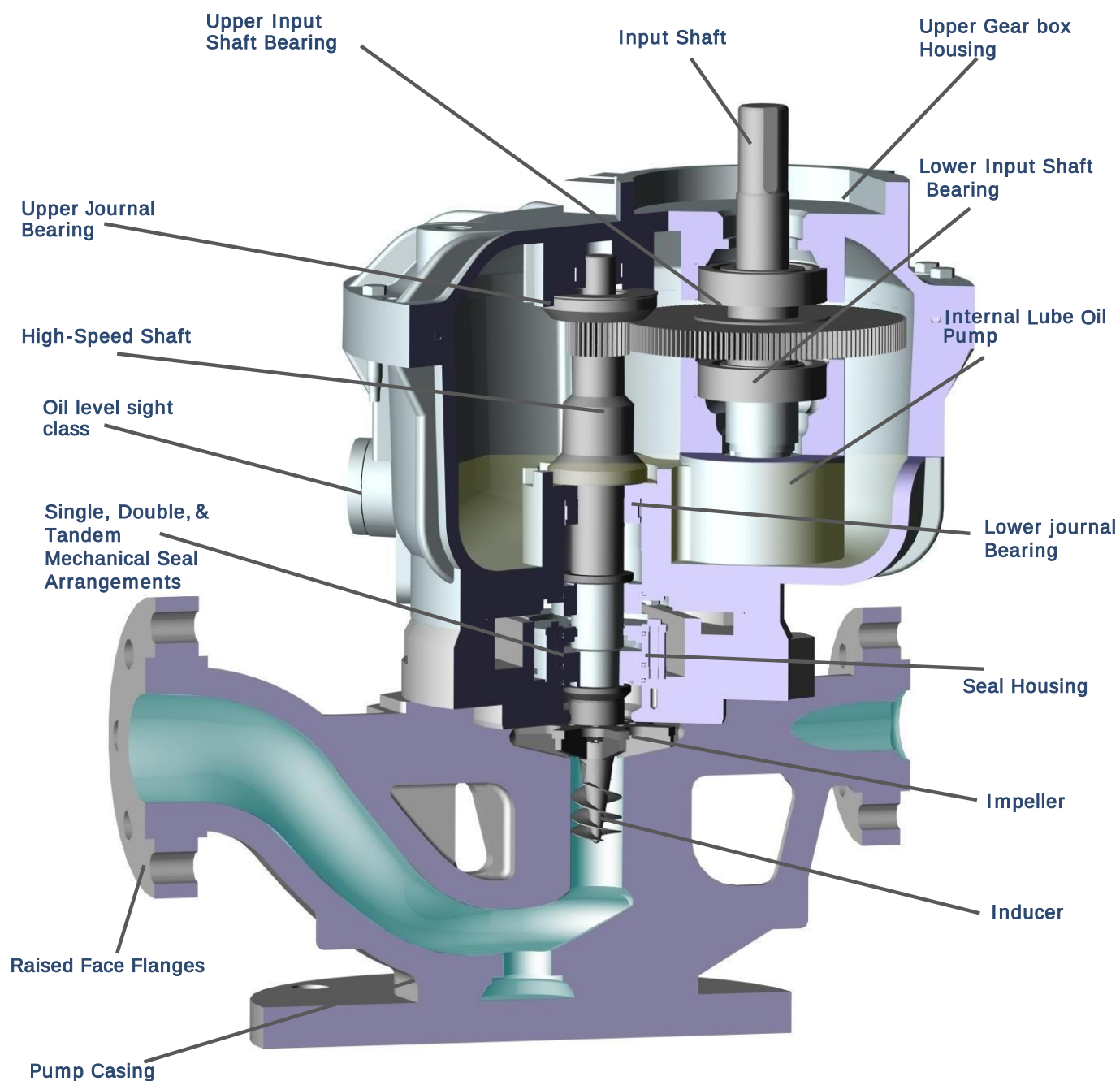
To ensure the smooth operation of the pump.

Impeller: With the impeller combination, can effectively improve the hydraulic efficiency of the pump, reducing pump vibration and noise

Inducer:

Produced by machining centre, which can better improve the NPSHr.

>> GSB-L1 Cross Sectional



Materials

All common API 610 Material Classes like S-5, S-6, S-8, C-6, A-7, A-8, D-1, D-2. Other material combinations are readily available like alloy 20, Titanium.

>> GSB-L2 Design Feature

Input Shaft Assembly:

Balancing standard service reduces vibration and noise while improving reliability and operating life. ISO 1940 Grade 2.5

Lube Oil Pump:

Improved design eliminates oil pressure fluctuations. prevents oil.

Radial Journal Bearing:

To ensure the smooth operation

Tapered Thrust Washer:

Handles higher thrust capacity and is dimensionally interchangeable.

Output Shaft Assembly:

Balancing standard service reduces vibration and noise while improving reliability and operating life ISO 1940 Grade 2.5. Designed for minimum bearing span to overhang ratio.

Tapered Alignment Pins:

Maintains true position and integrity of the bearing bores. Alignment is maintained even after multiple rebuilds.

O-Rings Standard in Gearbox

Split Line: Eliminates leakage and reduces clean-up and contamination to atmosphere

Idler Shaft Assembly:

Balancing standard service reduces vibration and noise while improving reliability and operating life. ISO 1940 Grade 2.5.

Oil Mechanical Seal:

Eliminates leakage and reduces clean-up and contamination to atmosphere

Impeller:

With the impeller combination, can effectively improve the hydraulic efficiency of the pump, reducing pump vibration and noise.

Inducer:

Produced by machining center

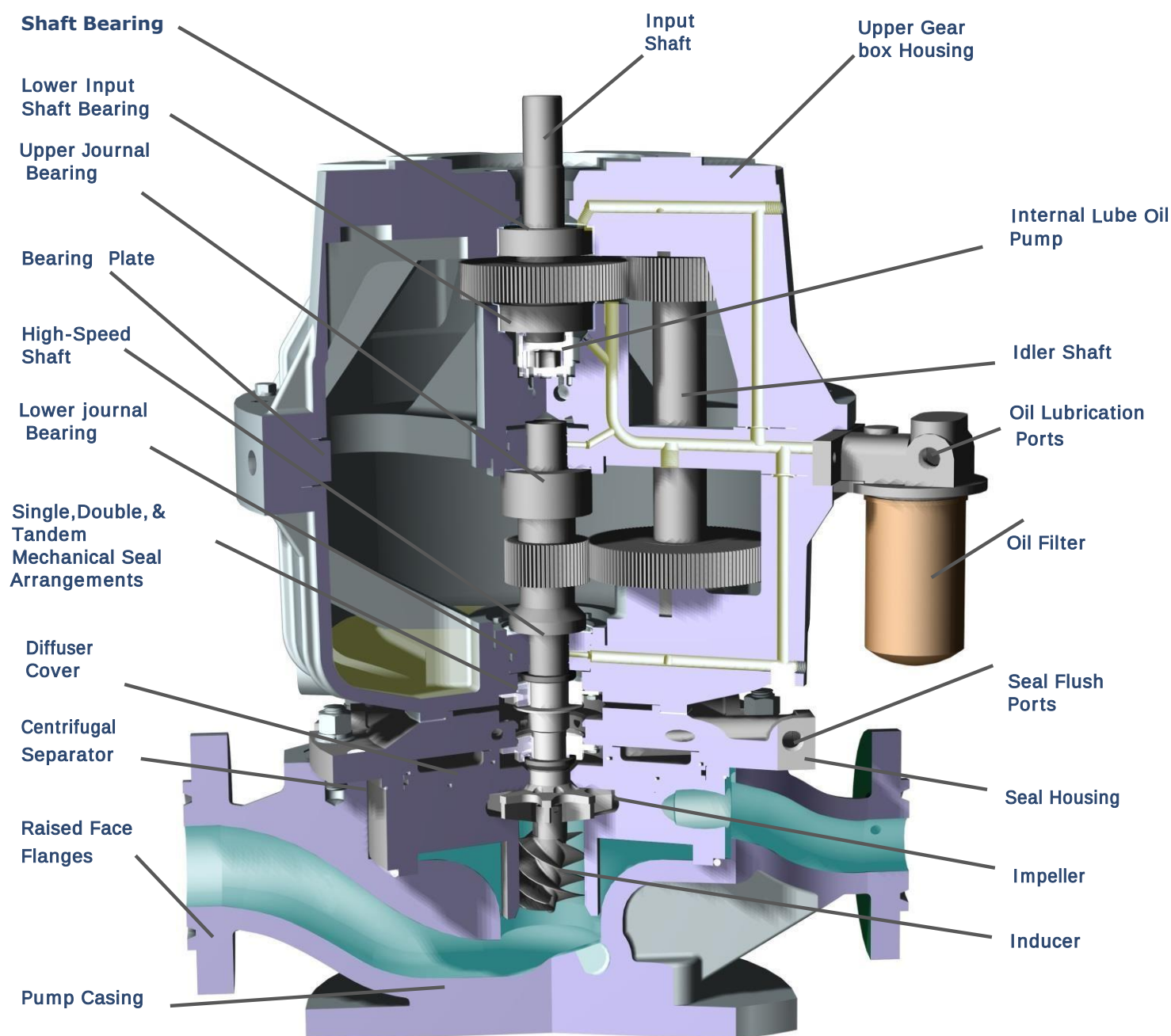
Diffuser:

The hydraulic optimization design can effectively improve the hydraulic efficiency of the pump.

Extended Oil Sight Glass:

Greatly improves level reading accuracy at all temperatures and speeds. Helps to prevent overfilling.

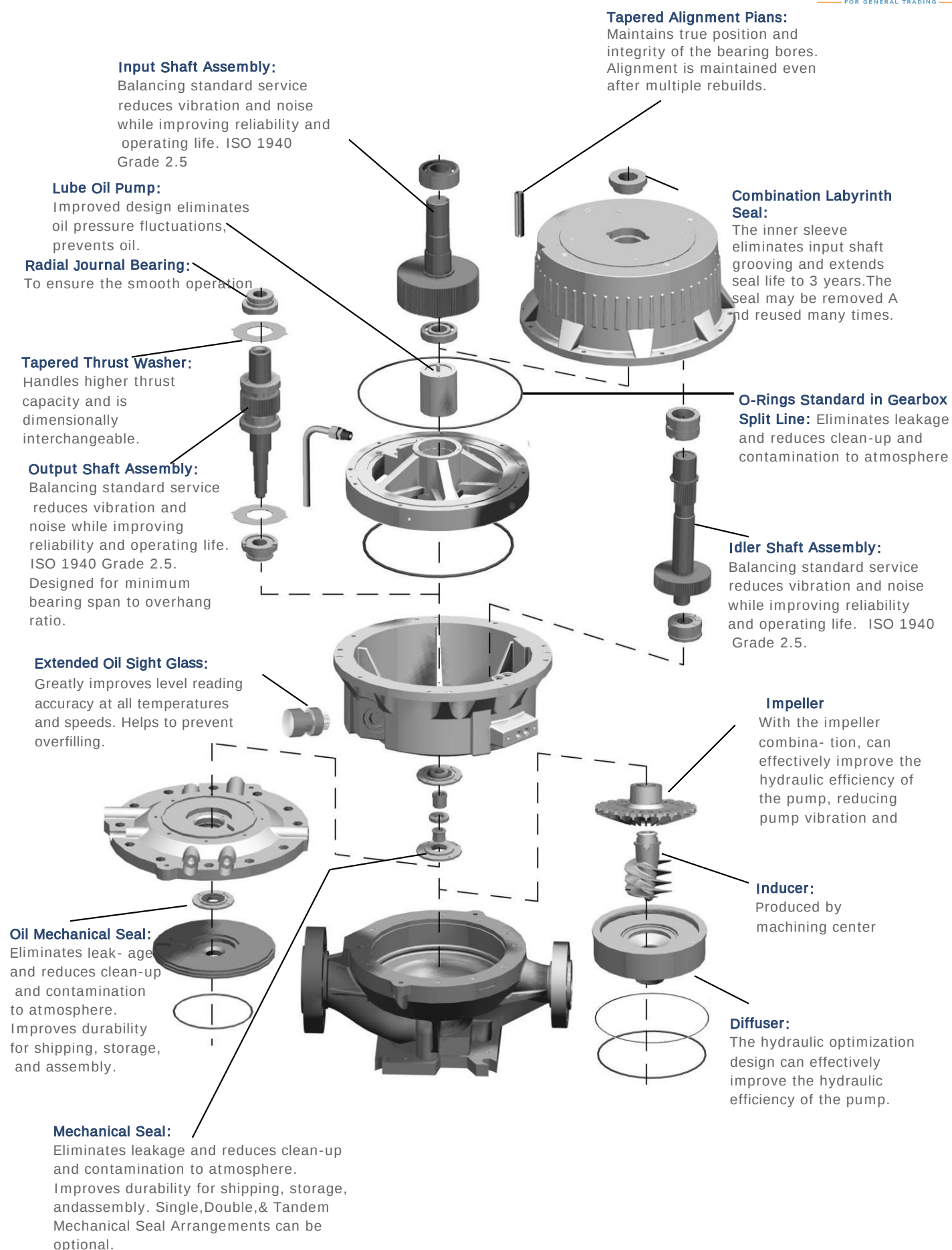
>> GSB-L2 Cross Sectional



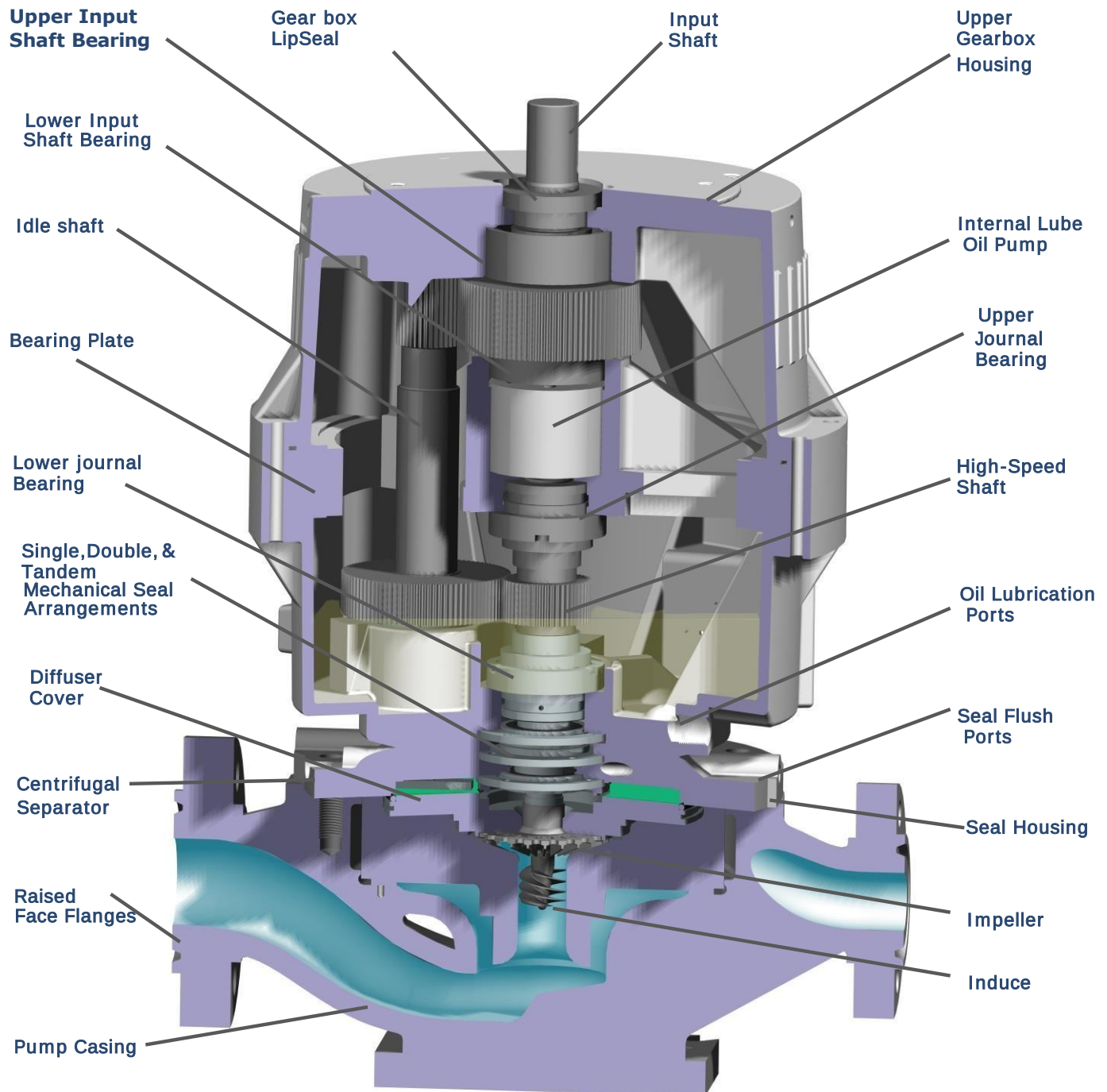
Materials

All common API 610 Material Classes like S-5, S-6, S-8, C-6, A-7, A-8, D-1, D-2. Other material combinations are readily available like alloy 20, Titanium.

>> GSB-L3 Design Feature



>> GSB-L3 Cross Sectional



Materials

All common API 610 Material Classes like S-5, S-6, S-8, C-6, A-7, A-8, D-1, D-2. Other material combinations are readily available like alloy 20, Titanium.

BB1

GS series double suction pump

GS series high efficiency single-stage double-suction centrifugal pump is a new generation high efficiency energy saving pump developed by applying three dimensional flow and independent intellectual property rights "High-flow double-suction centrifugal pump pressure pulsation and energy-saving key technology". The technology awarded the first prize in Science and Technology progress of Ministry of Education in 2013.



>> DESIGN FEATURES :

Impeller: Adopting the core technology of independent intellectual property rights to make special design to the impeller.

Pump casing: Adopting the special volute technology can eliminate pressure pulsation, which can effectively control the secondary flow on the impeller outlet and the pump cavity.

>> Technical parameter

GS series pump has a total of 189 kinds of models, 740 kinds of specifications.

Pump inlet diameter: 150 mm to 1600 mm

Flow: 75m³/h ~ 33600m³/h

Head: 9 m to 233 m

Medium temperature: -15 ~ + 104 (over 105 , please specify with the order.)

>> MODEL AND PARAMETER

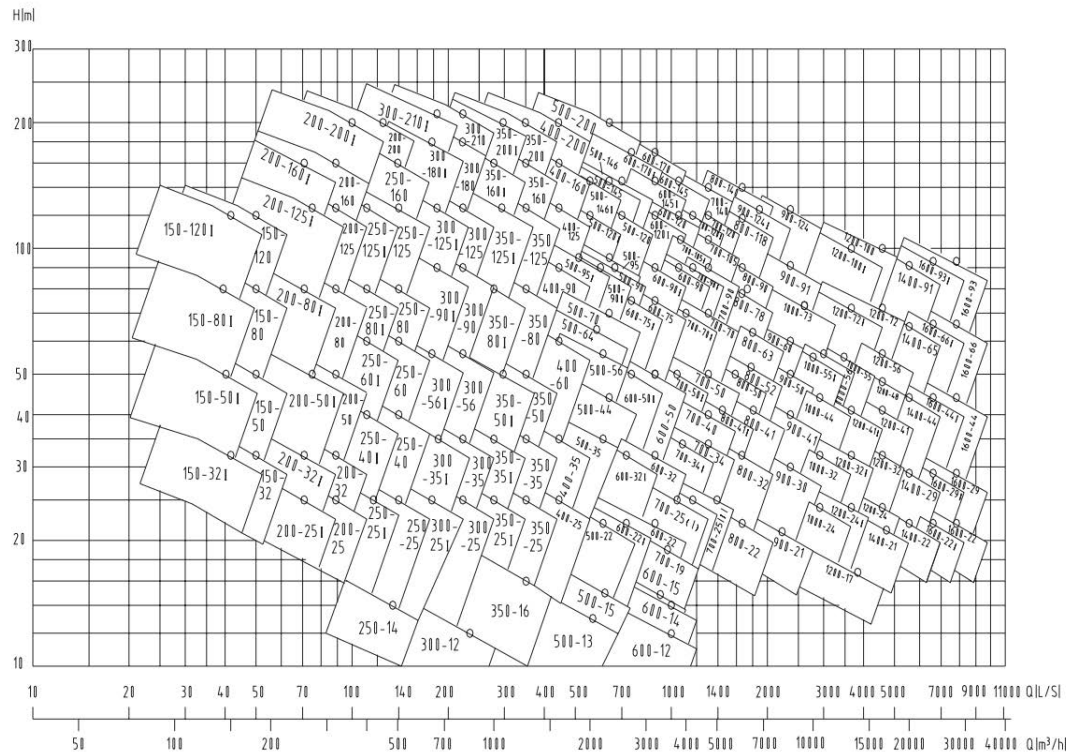
3 5 0 G S - 35 -(I) - A

350	Inlet diameter
GS	GS series single stage double suction pump
35	Rated head
(I)	Single stage double suction impeller
A	Impeller diameter cut (A~D)

>> Parts

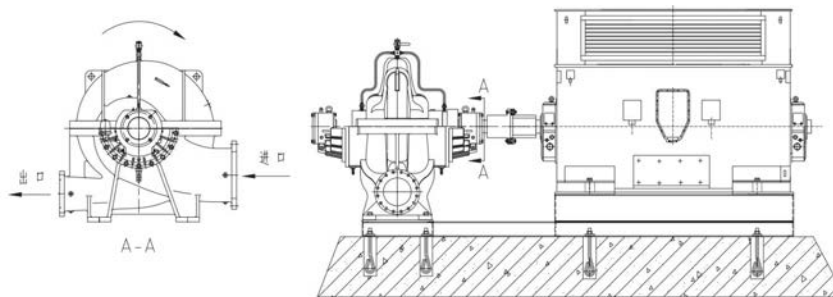
Part name	Normal materials	Special materials			
Casing	HT250	QT450-10	ZG230-450	316	Duplex stainless steel
Casing cover	HT250	QT450-10	ZG230-450	316	Duplex stainless steel
Impeller	HT250	QT450-10	ZG230-450/ ZG1Cr13Ni	316	Duplex stainless steel
Shaft	45	2Cr13	40Cr	42CrMo	Duplex stainless steel
Mechanical seal shaft sleeve	ZG20Cr13	304	316	Duplex stainless steel	
Gland packing shaft sleeve	QT450-10	ZG2Cr13	Duplex stainless steel		

>> GS series family curve



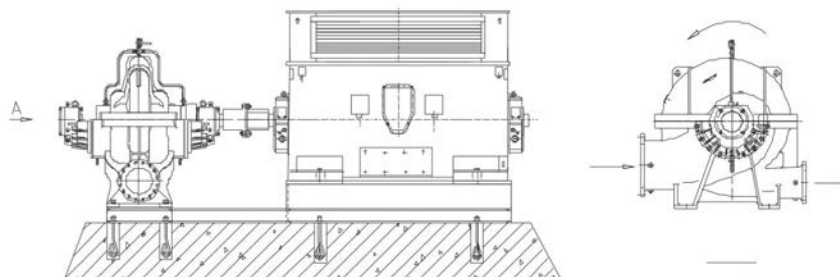
GS outline drawing

Pump rotation: clockwise viewed from the driving end.



GS outline drawing

Pump rotation: Counter-clockwise viewed from the driving end.



BB1

WBA series pump



>> WBA SERIES

Type WBA series pumps are designed as per API610 BB1, between bearing pumps, single stage, foot or centerline support. Double suction impeller, high efficiency hydraulic module.

>> Application

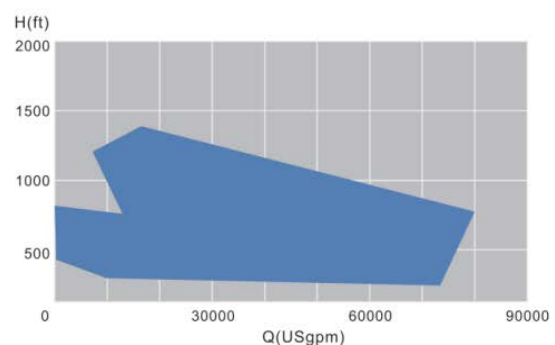
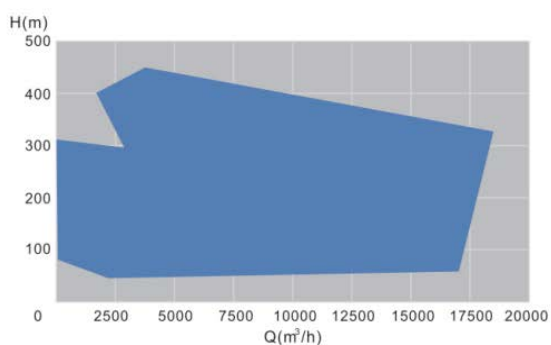
- Fluid handling in oil refineries and petrochemical industry
- Crude oil
- Quench water
- Cooling water
- Dewatering in mining



>> Parameter

WBA	ISO	US
Design	ISO 13709	API 610(BB1)
Capacity	Upto 18000m ³ /h	Up to 80000 Gpm
Head	Up to 440 m	Up to 1440 feet
Temperature Range	-40 ~+200 DecC	-104 ~+392 DecF
Pressure Range	Up to 50 bar	725 psi
Material Range	Carbon Steel, SS, Duplex, Super Duplex, Hast alloy	
Nozzle Direction (sue / dis)	Side/ Side	
Motor Sync. Speed	1500/3000 rpm	1800/3600 rpm
Options	Vertical type is available	
Flange Standard	ANSI/HG/DIN/JIS	

>> Performance Range



BB2

WBB series horizontal multi-stage pump



>> WBB SERIES

Type WBB series pumps are designed as per API610 BB2, between bearing pump, single stage, double suction impeller pump . Casing is centerline mounted with case wearing. These pumps are suitable and used in applications of fluid handling in oil refineries and petrochemical industry.

>> Application

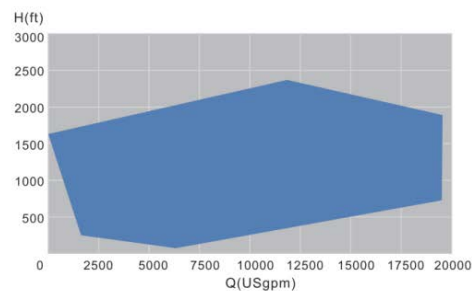
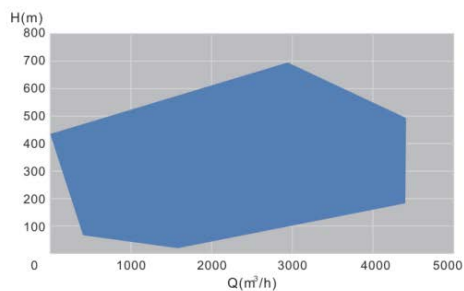
- Fluid handling in oil refineries and petrochemical
- High temperature and high pressure
- Critical applications in chemical and allied industry



>> Parameter

WBB	ISO	US
Design	ISO 13709	API 610(BB2)
Capacity	Upto 4500 m ³ /h	Up to 19800 Gpm
Head	Up to 700 m	Up to 2300 feet
Temperature Range	-80 ~ +450 DecC	-176 ~ +842 DecF
Pressure Range	Up to 150 bar	2200 psi
Material Range	Carbon Steel, SS, Duplex, Super Duplex, Hast alloy	
Nozzle Direction (sue / dis)	Top /Top (customized as per requirement)	
Motor Sync. Speed	1500/3000 rpm	1800/3600 rpm
Options	Two / Three impellers is available	
Flange Standard	ANSI/HG/DIN/JIS	

>> Performance Range



BB2

KGD series horizontal multi-stage pump

KGD pump is a horizontal, top suction and discharge, two-stage, radially split, centerline mounted process pump, designed for heavy duty applications, primarily in petroleum, petrochemical and gas processing industries. It complies with API 610 9th Edition (ISO 13709), type BB2. Mechanical seals in full compliance with API 682 (ISO 21049) seal chamber dimensions.

>> Performance parameter

Capacity : ~2000 m³/h

Head : ~740 m

Temperature : -80 ~ +450

Pressure : ~15 MPa



>> More Products



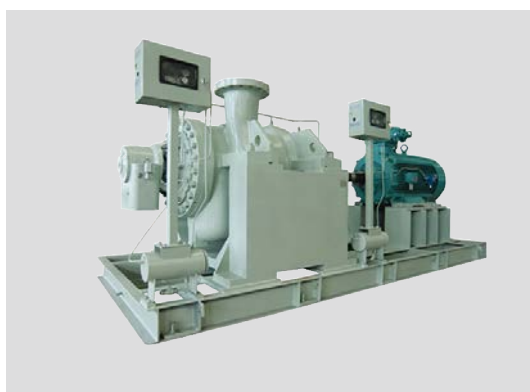
AY series (BB2) centrifugal oil pump

Head : ~300 m

Capacity : ~500 m³/h

Pressure : ~6.3 MPa

Temperature : -45 ~ +450



DSM series (BB2) petrochemical process pump

Head : ~300 m

Capacity : ~2300 m³/h

Pressure : ~11 MPa

Temperature : -80 ~ +450

BB3

WBC series horizontal multi-stage pump



>> WBC SERIES

Type WBC pumps are axially split case volute casing multistage pumps designed as per API 610 BB3. These pumps are suitable for wide applications in upstream / midstream / downstream applications in petroleum, petrochemical, gas industry, fertilizer and allied chemical industry.

>> Application

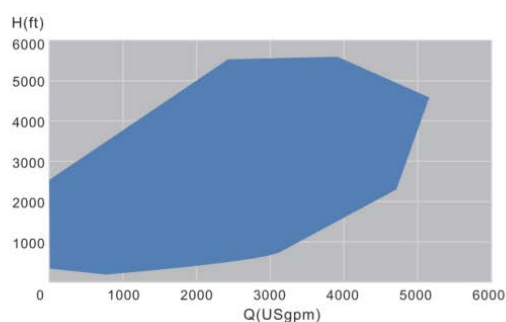
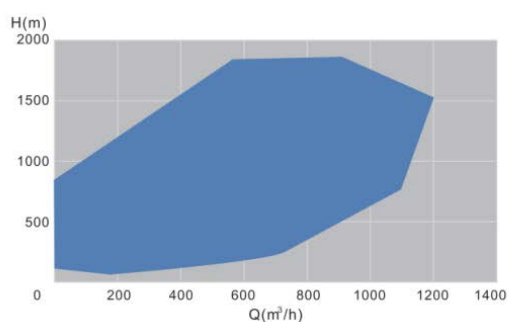
- Petroleum refinery, crude oil, products and allied hydrocarbon liquid transfers
- Sea water and de-watering
- Boiler feed water
- Upstream and midstream crude oil transfer



>> Parameter

WBC	ISO	US
Design	ISO 13709	API 610(BB3)
Capacity	Up to 1200 m ³ /h	Up to 5280 Gpm
Head	Up to 1600 m	Up to 5250 feet
Temperature Range	-60 ~ +200 DecC	-140~+392 Dec F
Pressure Range	Up to 250 bar	3600 psi
Material Range	Carbon Steel, SS, Duplex, Super Duplex, Hast alloy	
Nozzle Direction (sue / dis)	Side/ Side	
Motor Sync. Speed	1500/3000 rpm	1800/3600 rpm
Options	Double suction is available	
Flange Standard	ANSI/HG/DIN/JIS	

>> Performance Range



BB3

KDM series horizontal multi-stage pump

Pumps of the series KDM are horizontal, axially split, double volute, opposed impeller, multi-stage pump. It is available in a range of hydraulic sizes and number of stages with material combinations to suit the application. The pump may be supplied with either a single suction first stage impeller and double suction first stage impeller. Pumping rude oil , petrolic product, fresh water ,pure or slight impure liquid. KDM pumps are widely used in refineries, petrochemical plants, pipelines, water injection and powergeneration.

>> Performance parameter

Capacity : ~1500 m³/h

Head : ~3200 m

Temperature : 200

Pressure : ~35 MPa



>> More Products



DMS series (BB3) axially split multistage pump

Head : ~2000 m

Capacity : ~2400 m³/h

Pressure : ~35 MPa

Temperature : -40~200

BB4

WBD series horizontal multi-stage pump



>> WBD SERIES

Type WBD series pumps are single casing, radially split multi-stage between bearing pumps. Design and manufacturing are as per API610 9th BB4 and factory standard. These pumps are suitable for wide used in high pressure boiler feed water applications, high pressure mine drainage applications, high pressure applications in water treatment plant etc.

>> Application

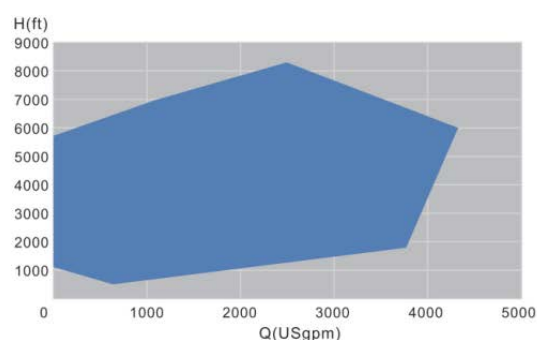
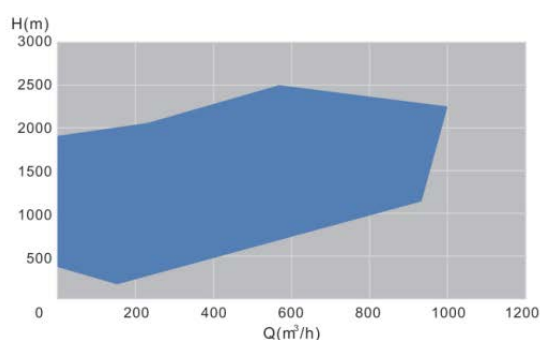
- High pressure boiler feed water applications
- High pressure mine drainage applications
- High pressure applications in water treatment plant
- Pump as hydraulic power recovery turbine in water treatment plant



>> Parameter

WBD	ISO	US
Design	ISO 13709	API 610(BB4)
Capacity	Up to 1000 m ³ /h	Up to 4400 Gpm
Head	Up to 2500 m	Up to 8200 feet
Temperature Range	-80~+210 DecC	-176~+410DecF
Pressure Range	Up to 270 bar	3900 psi
Material Range	Carbon Steel, SS, Duplex, Super Duplex, Hast alloy	
Nozzle Direction (sue / dis)	Top / Top (customized as per requirement)	
Motor Sync. Speed	1500/3000 rpm	1800/3600 rpm
Options	Double suction is available	
Flange Standard	ANSI/HG/DIN/JIS	

>> Performance Range



BB4

KDS series horizontal multi-stage pump

Pump of the series KDS are centrifugal pump developed as horizontal, multistage, radial split stage casing pump. For the pumping of pure and slightly polluted liquids; even cold and hot liquids. Primarily applied to water supply plants, heating and energy plants, booster plants of various industrial branches, as well as refrigeration technology. Higher operating pressures are possible depend on temperature and material.

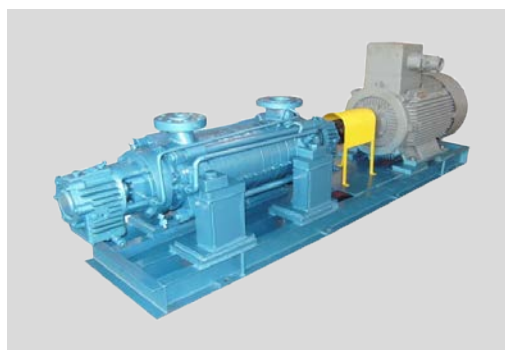
>> Performance parameter

Capacity : ~1000 m³/h

Head : ~1600 m

Temperature : -80~+180

Pressure : ~15 MPa



>> More Products



AY series (BB4) multistage pump

Head : ~600 m

Capacity : ~155 m³/h

Pressure : ~10 MPa

Temperature : -20~300



DMC series (BB4) multistage pump

Head : ~1200 m

Capacity : ~600 m³/h

Pressure : ~15 MPa

Temperature : -80~3180

BB5

WBE series horizontal multi-stage pump



>> WBE SERIES

Type WBE series pumps are double casing, radially split multi stage between bearing pumps designed as per API 610 BB5. These pumps are suitable for wide applications in high pressure fluid and oil.

>> Application

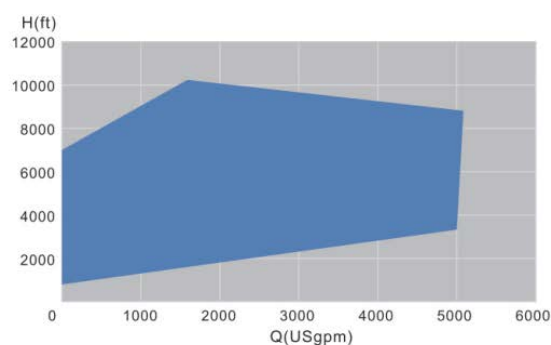
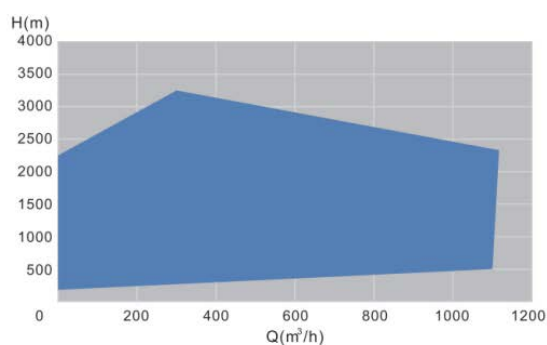
- High pressure fluid handling in oil refineries and petrochemical industry
- MP and HP boiler feed applications
- Sea water injection applications in oil wells
- Pump as hydraulic power recovery turbine in water treatment plant



>> Parameter

WBE	ISO	US
Design	ISO 13709	API 610(BB5)
Capacity	Upto 1140 m ³ /h	Up to 5020 Gpm
Head	Up to 3200 m	Up to 1 0489 feet
Temperature Range	-80 ~ +450 Dec C	-176 --+840 DecF
Pressure Range	Up to 400 bar	5800 psi
Material Range	Carbon Steel, SS, Duplex, Super Duplex, Hast alloy	
Nozzle Direction (sue / dis)	Top / Top	
Motor Sync. Speed	Up to 9000 rpm	10800 rpm
Options	Diffuser type / Volute type are available	
Flange Standard	ANSI/HG/DIN/JIS	

>> Performance Range



BB5

KDZ series horizontal multi-stage pump

Barrel casing pumps of series KSZ/KDZ (The API610 BB5 design pumps) are manufactured in multi-stage, horizontal radially split, pull out designed, and correspond to API610 instructions. Pumping clean, cold or hot, chemical neutral or aggressive liquids. The main application ranges are refineries, petrochemical industry and coal processing steam power stations, offshore engineering, frigorific industry.

>> Performance parameter

Capacity : ~1000 m³/h

Head : ~3200 m

Temperature : -30 ~ +425

Pressure : ~35 MPa

>> Application

- Mining;
- Oil & Gas;
- Boiler feed;
- Coal chemical industry;
- Water & Wastewater



>> More Products



DSG series diffuser casing multistage pump

Standard: API 610(BB5)

Capacity : ~1000 m³/h

Head : ~2500 m

Pressure : ~25 MPa

Temperature : -30 ~ +450

VS1

WVA series pump



>> WVA SERIES

Type VVA series (API610 VS1), a single casing, single or multistage value design or incorporating multi radial vane impellers with front and rear wear rings, each impeller has its own diffuser. VVA (VS1) vertical shaft pumps are engineered for wet well installations.

>> Application

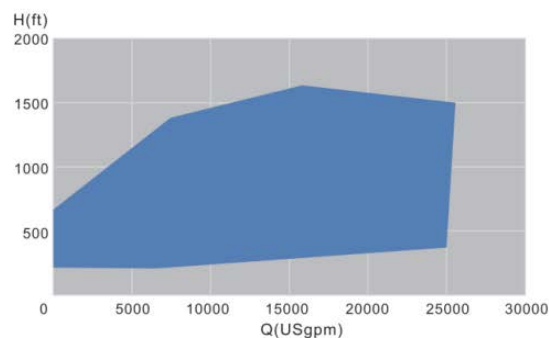
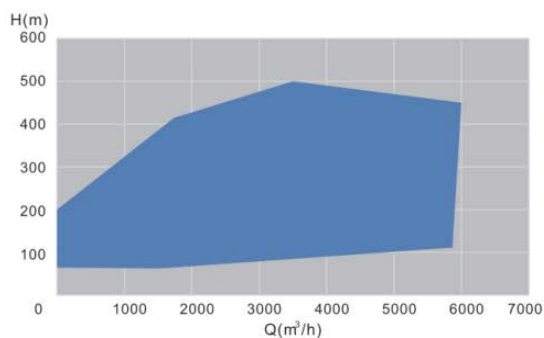
- Power plants
- Cryogenic
- Refineries
- Chemical & Petrochemical plants



>> Parameter

WVA	ISO	US
Design	ISO 13709	API 610(VS1)
Capacity	Up to 6000 m ³ /h	Up to 26420 Gpm
Head	Up to 500 m	Upto 1640 feet
Temperature Range	-80 ~ +250 DecC	-176~+482 DecF
Pressure Range	Up to 100 bar	1450 psi
Material Range	Carbon Steel, SS, Duplex, Super Duplex, Hast alloy	
Nozzle Direction (sue / dis)	Bottom/ Side	
Motor Sync. Speed	1500/3000 rpm	1800/3600 rpm
Options	Volute type is available	

>> Performance Range



VS4

FY series chemical submerged pump

FY series chemical submerged pump is a vertical single-stage single-suction centrifugal pump. It is used to transport corrosive liquids that do not contain solid particles and are not easily crystallized. The temperature of the medium to be transported is between -20 celsius to 250 celsius. If it is higher than 100 celsius, please specify when ordering. The working part of the submerged pump is submerged in the liquid, and the shaft seal has no leakage. It also has the characteristics of small floor area, reliable usage, convenient maintenance and strong corrosion resistance. Widely used in chemical, petroleum and other industrial sectors.



>> Application

- Hot oil;
- Asphalt;
- Fused salt;
- Liquid sulfur;
- Power plants;
- Petrochemical;
- Coal chemical industry

>> MODEL AND PARAMETER

50FY34-12-2.2

50	Pump outlet diameter (mm)
FY	Corrosion-resistant submerged pump
34	Pump flow rate(m ³ /h)
12	Pump head (m)
2.2	Motor power(kw)

>> More Products



LY series (VS4) sump pump



LYG series (VS4) sump pump

VS4

WVS series pump



>> WVS SERIES

Type WVS (API610 VS4) is a modular single stage centrifugal sump pump uses hydraulic components comply with API 610 (ISO 13709). This pump offers solutions for clean or slightly contaminated liquids. For less stringent "NON API" applications this versatile unit can be supplied with a wide variety of competitive hydraulic options.

>> Application

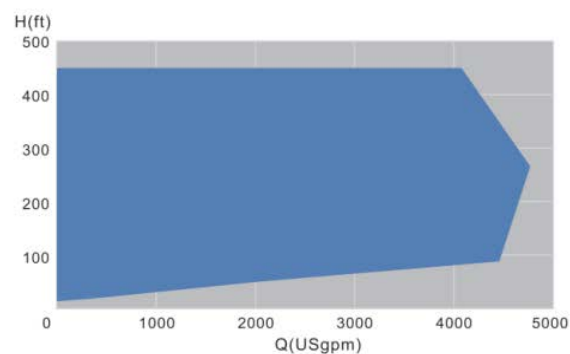
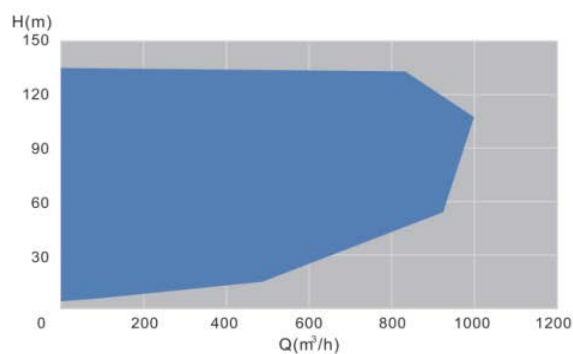
- Transfer and circulation of acids, alkali, solvent oil etc.
- Highly alkaline and highly acidic liquids (with enclosed impeller)
- Crystallizing liquids, liquids containing suspended solids industries



>> Parameter

WVS	ISO	US
Design	ISO 13709	API 610(VS4)
Capacity	Upto 1000 m ³ /h	Up to 4400 Gpm
Head	Up to 135 m	Up to 443 feet
Temperature Range	-80 ~ +500 Dec C	-176 ~+932 DecF
Pressure Range	Up to 20 bar	290 psi
Material Range	Carbon Steel, SS, Duplex, Super Duplex, Hast alloy	
Nozzle Direction (sue / dis)	Bottom/Through discharge pipe	
Motor Sync. Speed	1500/3000 rpm	1800/3600 rpm
Options	High temperature type is available	
Flange Standard	ANSI/HG/DIN/JIS	

>> Performance Range



VS5

YL series single-stage cantilever sump pump

>> Parameters

Standards: ISO 13709/ API 610

Flow: 650 m³/h

Head: ~80 m

Pressure: ~2.5 Mpa

Temperature: -20~150



>> Application

- Oil & gas
- Primary metals
- Fertilizer plants
- Pulp and papers
- Coal chemical industry
- Water and wastewater

>> Choice of materials

- Carbon steel
- 12% chrome
- High-chrome iron
- Austenitic stainless steels
- Duplex stainless steels
- Super duplex stainless steels

>> Features

- Open impeller
- Optional basket strainer
- Discharge separate from the shaftline
- Contoured wearplate match machined with impeller
- True stiff shaft cantilever design, without flushing water
- Sump depths from 500mm to 1800mm, suction pipe available
- Heavy-duty thrust bearings with axial adjustment above baseplate level
- Pump casing flanges according to ANSI B16.5-Other flange standards upon request
- Shaft guided by grease-lubricated roller bearings located above the base plate and sealed-off from contamination by oil seal

VS6

WVM series pump



>> WVM SERIES

WVM pumps, as condensate extraction pumps, are widely used for condensate extraction in petrochemical and thermal and power plants. High efficiency and low NPSHr characteristics make WVM pumps to be the most popular pumps in these industries.

>> Application

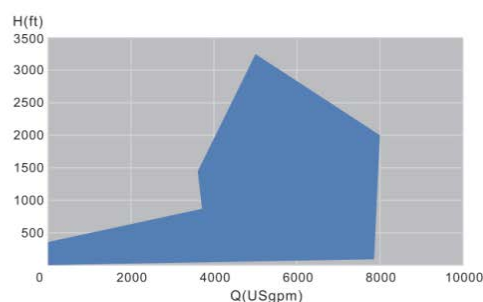
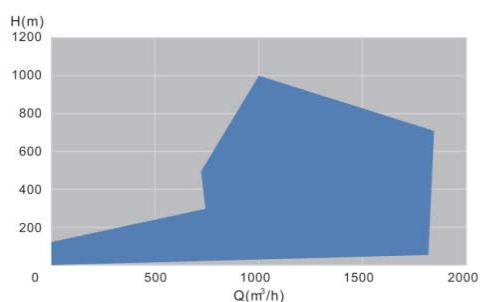
- Low density hydrocarbons;
- Petrochemical and industrial plants ;
- Corrosive, clean, low density and easy gasification liquids, like amine LPG, naphtha, etc



>> Parameter

WVM	ISO	US
Design	ISO 13709	API 610(VS6)
Capacity	Up to 1 800 m ³ /h	Up to 7925 Gpm
Head	Up to 1000 m	Up to 3280 feet
Temperature Range	-80 ~ +250 Dec C	-176 ~ +482 Dec F
Pressure Range	Up to 1 50 bar	21 75 psi
Material Range	Carbon Steel, SS, Duplex, Super Duplex, Hast alloy	
Nozzle Direction (sue / dis)	Side/ Side	
Motor Sync. Speed	1500/3000 rpm	1800/3600 rpm
Options	Volute type is available	
Flange Standard	ANSI/HG/DIN/JIS	

>> Performance Range



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