

CW-HYDRO, INC. TOTAL CATALOGUE

POWERFUL HEART
HIGH PERFORMANCE PUMP

2019
CW-HYDRO, INC.
TOTAL CATALOGUE



PUMPS CATALOGUE

KOREA

Ministry of SMEs and Startups | **KBIZ** Korea Federation of SMEs

أديبك | **ADNOC**

31 October - 3 November 2022
Abu Dhabi, United Arab Emirates



CAT.NO.DGN-TS-C-0002-2019-11

 **CW-Hydro, Inc.**


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POWERFUL HEART
HIGH PERFORMANCE PUMP



CW-HYDRO
CATALOGUE

Perfect Technology

as an Engine of the World- CW-Hydro

Industrial Pump Company, CW-Hydro, INC.

For the past half century, 'CW-Hydro' has solely concentrated its energy in developing new technologies for the pumps. Our stubbornness to strive for perfection has become the driving force behind the Korea's best company in the industrial pumps. CW-Hydro actualizes the infinite possibilities of high quality and high efficiency pumps which meet various environments, and ensure high durability and continuity in production.

CW-Hydro's excellent technologies, know-hows and world's best quality standards have been proved from the applications as the main pumps of the leading steelworks and power plants at home and abroad, and also from the technical certificates on safety and conformity, and many outstanding awards.

Especially, CW-Hydro has been gaining many achievements in the areas which require the cutting-edge pump technologies through developing 'Boiler feed water pump' in power plants, 'descale pump'

WWW.CWHYDRO.CO.KR

Company Profile

About Us

CW-Hydro

Since its establishment in 1967 as the pioneer of Korea's pump manufacturer, CW-HYDRO has been contributed to develop the enhancement of every process plant which underlies our modern civilization involves the transfer of liquids from one level of pressure or static energy to another. With this expertise, CW-HYDRO has been played an essential and an important role in Korea's industrialization since its dawn in the late 1960's.

Company Information

- Company Name **CW-Hydro, INC.**
- CEO **Sang-Goo Ahn, Song-Jun Ahn**
- Established Year **May 16, 1967**
- Production item **Industrial pumps, Nuclear pumps**
- Phone / Fax **Tel: +82-32-561-0971, Fax: +82-32-565-1743**
- Address **166, Hodusan-ro, Seo-gu, Incheon, Korea**
- Site **www.cwhydro.co.kr**

Awards & certification

- | | |
|---|---|
| 1994 Technology Innovation Award | 2010 Excellent Longevity Company Award |
| 1997 Quality Competitive Enterprise | 2012 \$30 Million Export Tower |
| 1997 Value Innovation President's Award | 2013 Grand Prize For Technology Award From Chamber Of Commerce & Industry |
| 1998 Export promising small business | 2014 Patent for easy "Wear-Ring Gap" adjust |
| 1998 Excellent Capital Goods Presidential Award | 2014 Patent for Efficiency Increase Wear-Ring |
| 2005 Engineer Award | 2015 Employment Insurance Prime Minister Award |
| 2008 Proud Small Business Award | 2016 Incheon Industry Place Prize |
| 2008 \$5 Million Export Tower | 2018 Grand Prize for Good Labor-Management |
| 2009 Bronze Tower Order Of Industrial Service Merit | 2019 Patent for device having easily adjustment of impeller, function of vertical position. |

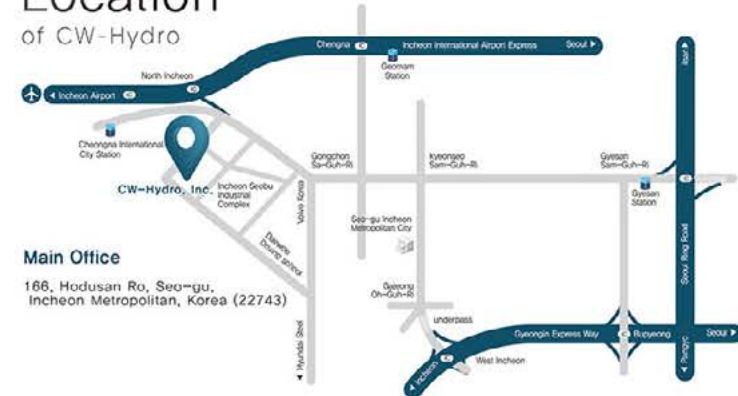


History

of CW-Hydro

- | | |
|---|---|
| 1967.05 "Chungwoo Industrial Co.,Ltd"Established | 2001.07 Acquired KEPIC Pressure Vessel & Pump |
| 1968.08 Patent for Fu-jet pump | 2002.11 "Enrolled vendor list for repair & maintenance of products for Nuclear Power Plant" |
| 1977.07 Introduced TQC system | 2002.12 Developed Nuclear Charging Pump |
| 1980.07 Acquired KS mark (KS B 7501/KS B 6318) | 2003.11 Acquired ISO 9001 (LLOYD' S Certific te : 2000version) |
| 1992.12 Introduced CAD system | 2004.06 "Enrolled vendor list for repair & maintenance of products for 5 Power Plants of KEPCO" |
| 1994.06 Acquired NT mark (New Technology) | 2005.07 "Received Leading-edge Technology Engineer Award from Ministry of Knowledge Economy" |
| 1994.07 Awarded a prize for S.M.E.T.I | 2008.02 "Received Distinguished Achievement Award from SMBA - Boiler Feed Water Pump" |
| 1994.12 Acquired ISO 9001 (KSA-QA) | 2008.12 Export Tower Award from Ministry of Knowledge Economy |
| 1995.09 Acquired EM mark (Paper stock pump) (Excellent Machine of Quality certificate) | 2009.10 Received Bronze Tower Order of Industrial Service Merit |
| 1995.11 Acquired EM mark (Hot oil & water pump) | 2010.01 Enrolled vendor list for waterworks equipment of Korea Water Resources Corp. |
| 1997.06 Factory moved to Incheon | 2010.01 "Awarded prize for Excellent Longevity Company (Korea federation of small and medium business)" |
| 1997.09 Selected as one of 100 corporations who have Quality competitiveness | 2011.06 Acquired ASME certificate (N.NPT) |
| 1997.09 "Enrolled vendor list in Korea Electric Power Corporation in the field of Hydraulic, Thermal and Nuclear power plant" | 2012.12 30 million US\$ Export Tower Award from Ministry of Knowledge Economy |
| 1997.11 "A warded a prize of President of R.O.K. for improvement of value Management system." | 2013.07 Grand prize for technology from the Chamber of Commerce & Industry |
| 1998.01 Acquired EM mark for high pressure boiler feed water pump | 2013.07 Acquired CE ATEX certificate (Europe prevention of explosion certificate) |
| 1998.03 Selected as one of top 100 Corporations for export | 2014.11 Developed Nuclear CCP (Centrifugal Type Charging Pump) |
| 1998.10 Acquired ISO 9001 (LLOYD'S Certificate) | 2014.11 Acquired Patent for easy "Wear-Ring Gap" adjust (KIPO Patent No.10-1461619) |
| 1999.01 Nominated as the best competitive technology Company | 2014.11 Acquired Patent for Efficiency Increase Wear-Ring (KIPO Patent No.10-1461621) |
| 2001.04 Joint Venture with Hydro, Inc. U.S.A (Company name changed from "Chungwoo Ind. Co., LTD." to "CW-Hydro, Inc.") | 2015.07 "Awarded 20th Anniversary Of The Employment Insurance (Prime Minister' s Commendation)" |
| | 2017.05 The 50th Anniversary of the CW-Hydro, Inc. |
| | 2018.12 Grand Prize for Good Labor-Management Win-Win Culture (Incheon Tripartite Commission) |
| | 2019.01 Acquired Patent for device having a function of easily adjusting the vertical position of the impeller. (KIPO Patent No.10-1946219) |

Location of CW-Hydro



Main Office

166, Hodusan Ro, Seo-gu, Incheon Metropolitan, Korea (22743)



CW-HYDRO CATALOGUE



CW-Hydro Pump

How do you make it?

CW-Hydro has the best environments such as its ability to design the products manufacturing technology, and expertise.

- **Technology meeting to meet customer needs**
-To discuss product development salesman R&D engineer and production engineer participate in the meeting.
- **R & D Center**
-Developing new products to satisfied with future high-level industry through continuous research and development.
- **Expertise and skills**
-The longest continuous service engineer is more than 38 years, 32% of employees over 20 years of service.
- **Modern facilities and the latest machinery**
-Reduced processing time and the best quality.
- **Automatic warehousing system enterprise resource planning (ERP)**
-Managing raw materials processed goods and inventory management.



Process

Pump is designed by qualified professionals.



Making mold

The wooden pattern and mold of pump that has been built with history reflect the long history of the CW-Hydro.



Parts processing

Using 3-dimensional automatic measuring machine to accurately measure flatness it prevent defective product in advance.



Performance test

Measure the head and flow rate to ensure that they meet customer specification.



Pumps Assembly

Engineers who have worked more than 20 years are responsible for assemble process,so we are confident that we are the best in terms of durability and performance.



Painting and delivery

- Only products that pass the final inspection is painted and according to the customer specification.

CW-HYDRO, INC.
TOTAL CATALOGUE

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Industrial Pumps

Experience the difference in technology.

• State-of-the-art equipment and systems such as the latest machinery, automated warehouse systems, enterprise-type computer systems, and smart factories.

• Reduce the errors moasin performance with collected data over the years.

• Using 3-dimensional automatic measuring machine to accurately measure flatness it prevent defective product in advance.



Manufacturing Facilities

CELL	EQUIPMENT	Specification	PROCESS
Large Size Castina Cell	CNC Lathe	Stroke : 2000 / Swing : φ770 / Tool A.T.C : 12EA	Turning Drilling / Tapping
	CNC Vertical Turn Mill Center	Table : 1600X11600 / Swing φ2000 / Tool A.T.C : 36EA	Turning Drilling / Tapping
Complex Machining Center	CNC Flang Miller Machining	Table : 2000X4000X12000 / Tool A.T.C : 68EA	Flange Milling / Drilling Tapping
	Horizontal Boring and Milling Machining Center	Table : 1400X1600 / Tool A.T.C : 60EA	Boring Milling / Drilling Tapping
Frame Cell	Complex Machining Center	Table : φ600 / A.P.C. : 2EA / A.T.C : 36EA	Turning Milling / Drilling Tapping
	Horizontal Machining Center	Table : 6300X3000X800 / A.P.C. : 2EA / A.P.C : 80EA	Horizontal Machining center
Impeller Cell	CNC Lathe PUMA 105	Stroke : 1871 / Swing : φ580X1701 / Tool A.T.C : 18EA	Turning
	Sorting Machine	Stroke : 280mm	Key Way
Shaft Cell	Balancing Machine	Weight under uniform load : 1000kg / rotor diameter : 1500mm	Balace
	CNC Lathe	Stroke : 1500 / Swing : φ910 / Tool A.T.C : 12EA	Turning
Small, Middle size Part Cell	Double Column Machining Center	Table : 1740X1650X1400 / Stroke(X,Y,Z) : 1500X1000X400 / Tool A.T.C : 32EA	Key Way
	CNC Cylindrical Grinding Machine	Wheel : φ1500 / Stroke : 3000 / Swing : φ400 / Stroke : 1500	Grinding
Automatic Picking System	CNC Vertical Turning	Table : φ900 / Drish : φ800 / Tool A.T.C : 18EA / Stroke : 1500	Turning
	Double Column Machining Center	Table : 1740X1650X1400 / Stroke(X,Y,Z) : 1500X1000X400 / Tool A.T.C : 32EA	Milling Drilling / Tapping
Small, Middle size Part Cell	Automatic Picking System (MITSUBISHI KISEN)	Load Size : 1000W X 1200W X 1000H / Load Weight : MAX 1000kg/PLT Location : φ200X3180 X 16 levels = 1081 set / Stacker crane : 3set (MURATA, JAPAN) Picking : Balance Lifter / Rubber Train : RTV / Computer No. : RS-6000-231 DBMS : Oracle C, Language.	
	5-Axis Multi-Tasking Machining Center	A, C - Axis Travel : 120~3000 X 3000mm Table Working Surface : φ500mm Spindle Speed Range : 40~12,000 rpm-1 A.P.C : 11EA / A.T.C : 240 EA	Turning/ Milling Boring Milling

Single Suction Pumps

It is a type of pump which sucks fluid to one side of pump wing and is widely used in small pumps.



Contents

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ISO Standard Process Pumps IS/ISB(F)



● Applications

- Chemical industry
- Petroleum refinery
- Petrochemical industry
- Other various industries

● Ratings

- Capacity to : ~50 m³/min
- Head to : ~140 m
- Temperature to : ~177°C

PAGE . 20~23

ISO Standard Process Pumps ISBO



● Applications

- Chemical industry
- Petroleum refinery
- Petrochemical industry
- Other various industries

● Ratings

- Capacity to : ~5 m³/min
- Head to : ~130 m
- Temperature to : ~177°C

PAGE . 24~27

Single-stage Overhung Pumps H(HB)



API Code : OH2

● Applications

- Petroleum refinery
- Petrochemical industry
- Other chemical
- High temperature and high pressure services

● Ratings

- Capacity to : ~25 m³/min
- Head to : ~300 m
- Temperature to : ~460°C

PAGE . 28~31

ISO Standard General Service Pumps GB



● Applications

- Water supply
- Cooling water circulation
- Cooling tower
- Building
- Irrigation
- General industry

● Ratings

- Capacity to : ~6 m³/min
- Head to : ~60 m
- Temperature to : ~150°C

PAGE . 32~33

Vortex Paper Stock Solid Process Pumps GIV



● Applications

- Waste Treatment
- Pulp and Paper
- Food processing
- Agriculture
- Mining
- Manufacturing Process

● Ratings

- Capacity to : ~5 m³/min
- Head to : ~80 m
- Temperature to : ~80°C

PAGE . 34~35

Close-Coupled General Service Pumps GM



● Applications

- Water supply
- Cooling water circulation
- Cooling tower
- Building
- Irrigation
- General industry

● Ratings

- Capacity to : ~4 m³/min
- Head to : ~35 m
- Temperature to : ~80°C

PAGE . 36~37

Single Suction Pumps

It is a type of pump which sucks fluid to one side of pump wing and is widely used in small pumps.



Contents

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In-Line Pumps CLP(D)



● Applications

- Industrial
- Building
- Liquid transfer
- Pressurized
- Process

● Ratings

- Capacity to : ~30 m³/min
- Head to : ~52 m
- Temperature to : ~150°C

PAGE . 38~41

Paper Stock Process Pumps NOP



● Applications

- Chemical industry
- Food industry
- Paper industry
- Industries waste water

● Ratings

- Capacity to : ~7.5m³/min
- Head to : ~100 m
- Temperature to : ~177°C

PAGE . 42~45

ISO Standard Paper Stock Process Pumps NP



● Applications

- Chemical industry
- Food industry
- Paper industry
- Industries waste water

● Ratings

- Capacity to : ~12 m³/min
- Head to : ~40 m
- Temperature to : ~177°C

PAGE . 46~49

Horizontal Hydro-solids Pumps P



● Applications

- Pulp and paper
- Waste treatment
- Food processing
- Agriculture
- Manufacturing process

● Ratings

- Capacity to : ~60m³/min
- Head to : ~85m
- Temperature to : ~177°C

PAGE . 50~55

One Piece solid shaft Vertical Sump Pumps GV



● Applications

- Sump Drainage
- Sewage treatment
- General industry

● Ratings

- Capacity to : ~0.7 m³/min
- Head to : ~30 m
- Temperature to : ~60°C

PAGE . 56~57

Horizontal Screw Pumps SC



● Applications

- Waste treatment
- Food transfer
- Paper stock

● Ratings

- Capacity to : ~30 m³/min
- Head to : ~30 m
- Temperature to : ~80°C

PAGE . 58~59

Double Suction Pumps

This type of pump is sucked from both sides of the impeller and is mainly used when the flow rate is large.



Contents

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Double Suction Pumps DS/DSN



API Code : BB1

● Applications

- Process
- Petrochemical industry
- Pulp & Paper
- General Industry
- Marine

● Ratings

- Capacity to : ~400 m³/min
- Head to : ~400 m
- Temperature to : ~150°C

PAGE . 60~67

Radial Split Between Bearing Pump DHB



API Code : BB2

● Applications

- Petroleum refinery
- Petrochemical industry
- Other chemical
- High temperature and high pressure services

● Ratings

- Capacity to : ~100 m³/min
- Head to : ~550 m
- Temperature to : ~460°C

PAGE . 68~69

Double Suction Pumps Multi Stage Type SMD



API Code : BB3

● Applications

- Water Supply
- Utilities cooling water
- Boiler circulation
- General Industries
- Petroleum refinery
- Petrochemical industry

● Ratings

- Capacity to : ~35 m³/min
- Head to : ~400 m
- Temperature to : ~150°C

PAGE . 70~71

Double Suction Axial Split Pumps GD



● Applications

- Water supply
- Cooling water circulation
- Cooling tower
- Building
- Irrigation
- General industry
- Fire-fighting

● Ratings

- Capacity to : ~18 m³/min
- Head to : ~70 m
- Temperature to : ~135°C

PAGE . 72~73

Multistage Pumps

It is a multi-stage pump with two or more wings installed on the same rotating shaft of one pump to obtain high head or high pressure water.



Contents

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Axial Split Multi-stage Pumps SMC(H)



API Code : BB3

● Applications

- Boiler feed
- Pipeline booster
- Mine pumping
- High pressure process

● Ratings

- Capacity to : ~30 m³/min
- Head to : ~1,500 m
- Temperature to : ~200°C

PAGE . 74~77

Super High Temperature & Pressure Boiler Feed Pumps ST



API Code : BB4

● Applications

- Boiler feed
- Mine drainage
- Chemical process
- Other high pressure services

● Ratings

- Capacity to : ~20 m³/min
- Head to : ~3,000 m
- Temperature to : ~250°C

PAGE . 78~81

High Pressure Multi Stage Turbine Pumps HT



API Code : BB4

● Applications

- Boiler feed
- Processing water
- General industry
- City water and high pressure water

● Ratings

- Capacity to : ~2.5 m³/min
- Head to : ~500 m
- Temperature to : ~180°C

PAGE . 82~85

Double Casing Barrel Pumps DST



API Code : BB5

● Applications

- High Pressure & Temperature
- Steel mill Descale
- Petroleum refinery / Petrochemical industry
- Power Plant Boiler Main Water Supply System

● Ratings

- Capacity to : ~20 m³/min
- Head to : ~4,000 m
- Temperature to : ~300°C

PAGE . 86~87

High Pressure Multi Stage Turbine Pumps MTS



● Applications

- Boiler feed
- Processing water
- General industry
- City water and high pressure water

● Ratings

- Capacity to : ~10 m³/min
- Head to : ~500 m
- Temperature to : ~120°C

PAGE . 88~91

Dual Volute Multi-Stage Pumps MV



● Applications

- Boiler feed
- Booster
- Fire-fighting jockey
- Building
- General industry

● Ratings

- Capacity to : ~3 m³/min
- Head to : ~140 m
- Temperature to : ~90°C

PAGE . 92~93

Vertical Type Pumps

The pump has a vertical main shaft for rotating the wing car.



Vertical Mixed Flow Pumps VM/VMS



API Code : VS1

Applications

- General Industrial
- Factory drainage
- Rain water drainage
- Agriculture

Ratings

- Capacity to : ~400 m³/min
- Head to : ~500 m
- Temperature to : ~180°C

PAGE . 94~99

Vertical Axial Flow Pumps VA



API Code : VS3

Applications

- General Industrial
- Factory drainage
- Rain water drainage
- Agriculture

Ratings

- Capacity to : ~500 m³/min
- Head to : ~15 m
- Temperature to : ~60°C

PAGE . 100~101

Vertical One Piece Solid Shaft Pumps VISB/VISBO



API Code : VS4

Applications

- Chemical industry
- Industrial sump drainage
- Corrosive & non-corrosive liquids
- Pollution control

Ratings

- Capacity to : ~50 m³/min
- Head to : ~200 m
- Temperature to : ~150°C

PAGE . 102~105

Vertical Multi-stage Can-Type VCM



API Code : VSG

Applications

- Pipeline boosting
- Refinery blending
- Ammonia transfer
- Condensate
- LNG transfer

Ratings

- Capacity to : ~100 m³/min
- Head to : ~500 m
- Temperature to : ~180°C

PAGE . 106~109

Vertical Double Casing Volute Pumps VCMD



API Code : VS7

Applications

- Petroleum refinery
- Petrochemical industry
- General Industrial
- Industrial drainage
- Other chemical industries

Ratings

- Capacity to : ~100 m³/min
- Head to : ~500 m
- Temperature to : ~180°C

PAGE . 110~111

Vertical Cantilever Bottom Suction Pumps WNOP



Applications

- Chemical industry
- Food industry
- Paper industry
- Industries waste water

Ratings

- Capacity to : ~30 m³/min
- Head to : ~40 m
- Pit Depth to : ~1.2 m

PAGE . 112~113

Vertical Pump & Process Pumps WVP



Applications

- Industrial process
- Industrial sump drainage

Ratings

- Capacity to : ~3.5 m³/min
- Head to : ~45 m
- Temperature to : ~115°C

PAGE . 114~115

Contents

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Vacuum, Self-Priming, Horizontal Pumps

Vacuum Pumps

It is a vacuum pump that compresses the gas by the piston action of the liquid put between the two wings which gives the centrifugal force to the liquid by the impeller wheel.

Self-Priming Pumps

If the operation is restarted because the water remains in the casing even if the water in the water supply pipe is lost due to the operation stop for a long time, it is the pump that draws air in the water supply pipe and sucks the water and makes the water available.

Horizontal Pumps

It is a type of centrifugal pump, in which the impeller shaft is horizontally positioned. It is a type commonly used, and it is composed of a transverse shaft according to the direction of the impeller shaft.



Contents

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Self Priming Pumps SP



Applications

- Process
- Sump drainage
- Chemical industry
- Other Various industries

Ratings

- Capacity to : ~6 m³/min
- Head to : ~50 m
- Temperature to : ~177°C

PAGE . 116~119

ANSI Self Priming Pumps SSP



Applications

- Chemical industry
- Petroleum refinery
- Petrochemical industry
- Other various industries

Ratings

- Capacity to : ~6 m³/min
- Head to : ~50 m
- Temperature to : ~177°C

PAGE . 120~121

Liquid Ring Type Pumps CNV



Applications

- Boiling processes
- Central vacuum systems
- Condenser plants
- Deaerating systems
- Impregnating plants
- Filter Plants
- Distillation plants
- Drying system

Ratings

- Capacity to : ~150 m³/min
- Vacuum to : ~720 mmHg
- Temperature to : ~60°C

PAGE . 122~125

High Vacuum Liquid Ring Pumps E



Applications

- Deaerating
- Impregnating plants
- Drying system
- Concentrating
- Condenser Exhausting
- Filtering

Ratings

- Capacity to : ~22 m³/min
- Vacuum to : ~720 mmHg
- Temperature to : ~60°C

PAGE . 126~127

Horizontal Axial Flow Pumps HA



Applications

- General industry
- Factory Drainage
- Rain-water Drainage
- Agriculture

Ratings

- Capacity to : ~350 m³/min
- Head to : ~5 m

PAGE . 128

Horizontal Shaft Mixed Flow Pumps HM



Applications

- General industry
- Factory Drainage
- Rain-water Drainage
- Agriculture

Ratings

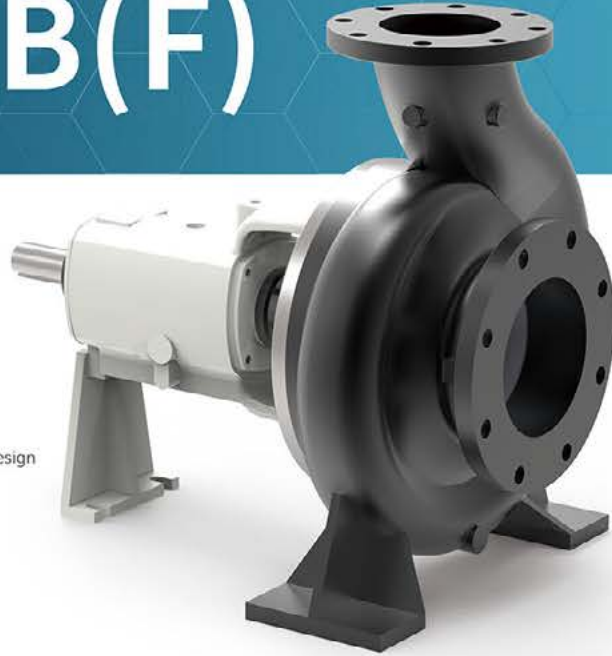
- Capacity to : ~350 m³/min
- Head to : ~15 m

PAGE . 128

ISO Standard Process Pumps



IS/ISB(F)



● Applications

- Chemical industry
- Petroleum refinery
- Petrochemical industry
- Other various industries

● Feature

- Foot support and back pull-out design
- Heavy and sturdy construction
- Compliance with ISO 2858
- High interchangeability
- Low 'NPSHr'
- Good efficiency
- Completely standardization for wide application

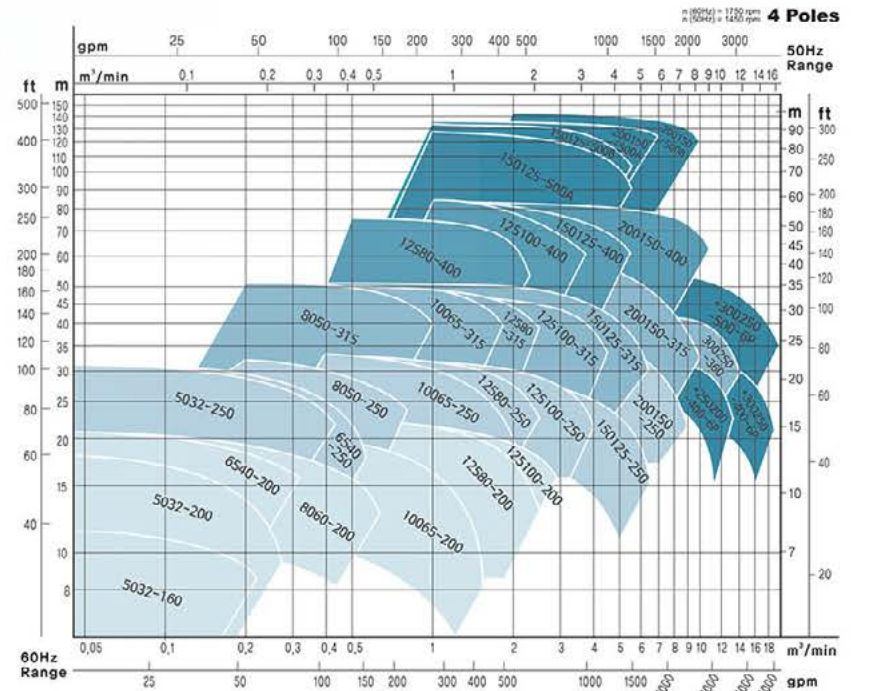
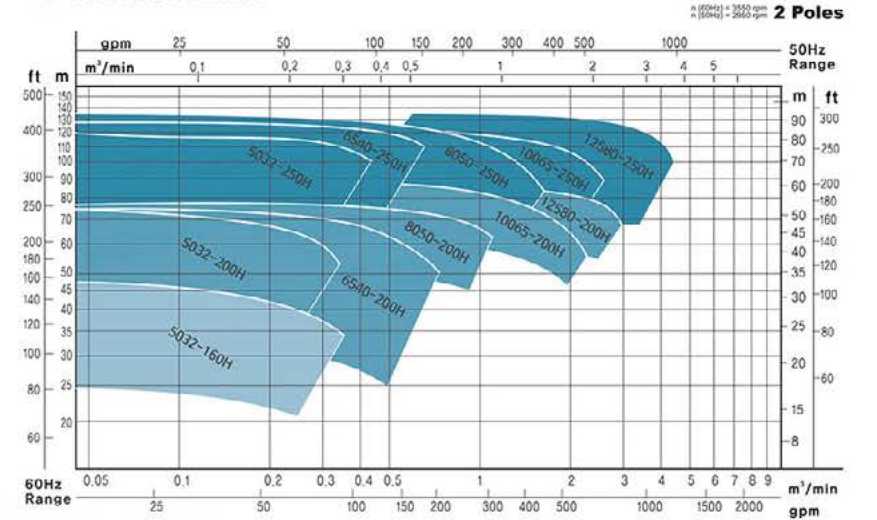
● Ratings

Capacity	Up to 50 m ³ /min (13,209 US GPM)
Head	Up to 140 m (460 ft)
Discharge Pressure	Up to 16 kgf/cm ² (227 PSIG)
Allowable Suction Pressure	Up to 9 kgf/cm ² (128 PSIG)
Revolution 60Hz (50Hz)	1750 OR 3550 min ⁻¹ (1450 or 2950 min ⁻¹)
Rotation	Clockwise viewed from coupling end
Stainless Steel Temp.	-50°C ~ 177°C (-58°F ~ 350°F)
Cast Iron Temp.	-20°C ~ 150°C (-4°F ~ 302°F)
Nozzle-Raing	Steel: ANSI CLASS150, Iron: ANSI CLASS150
Nozzle-Facing	Steel: RF Iron: FF
Nozzle-Location	End Suction: Top Discharge
Seals	Conventional Packing or Mechanical Seal

● IS Type Model.



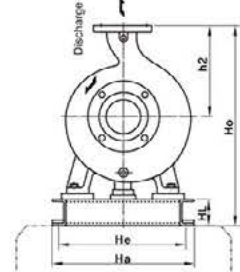
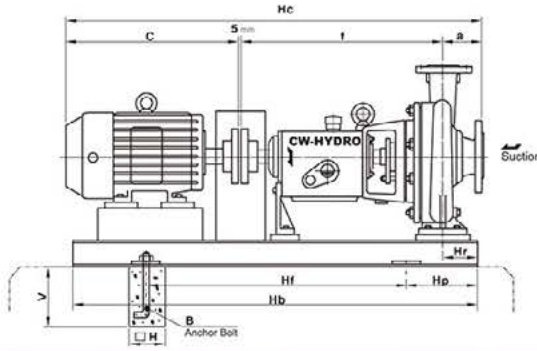
● Selection Charts



Note: *, Performance ranges shown on these charts are preliminary selection only.

● 6 Poles Models

● Installation Dimension

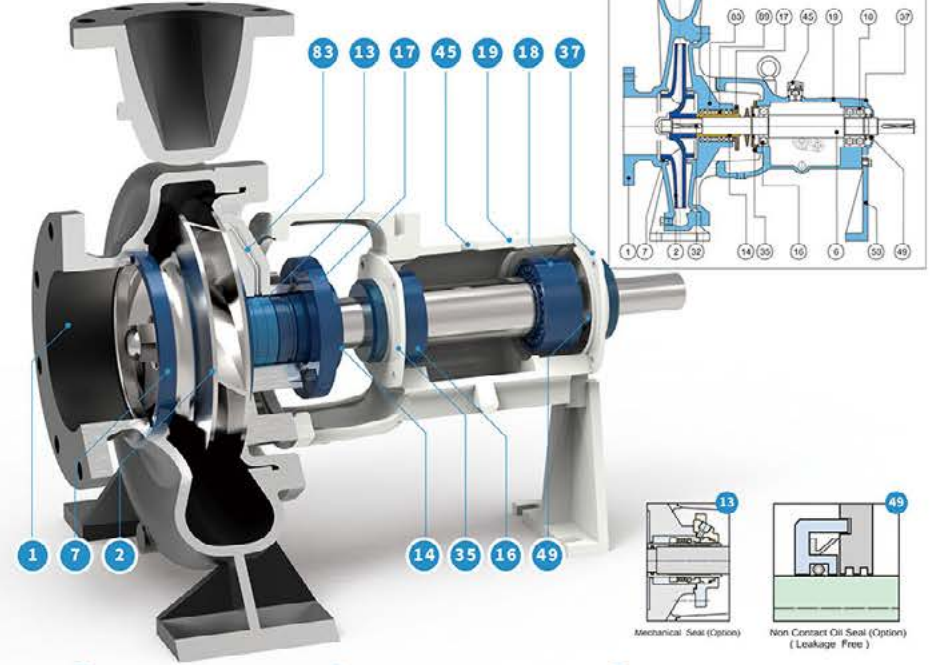


Unit : mm (inch)

Model Size	Power		a	f	h2	Baseplate Size											Anchor Bolts	Weight Pump Total			
	Frame	Kw				HP	He	C	Hb	Hf	Hg	Hh	HL	Ho	H	V					
50 32-160	90	1.5	2	80	385	160	807	337	130	490	750	70	290	320	75	382	4-M12x200L	120	200	36	95
50 32-250	132S	5.5	7.5	100	500	225	1047	442	160	630	950	85	320	350	495	4-M12x200L	120	200	68	176	
65 40-200	100L	2.2	3	100	385	180	866	376	140	520	800	70	290	320	430	4-M12x200L	120	200	40	100	
65 40-250	132S	5.5	7.5	100	500	225	1047	442	160	630	950	85	320	350	495	4-M12x200L	120	200	68	176	
80 50-200	112M	3.7	5	100	385	200	866	378	140	520	800	70	290	320	450	4-M12x200L	120	200	55	133	
80 50-250	132M	7.5	10	100	500	225	1047	442	160	630	950	85	320	350	495	4-M12x200L	120	200	75	217	
80 50-315	160L	15	20	125	530	282	1262	632	195	760	1150	100	330	360	625	4-M16x250L	150	250	90	321	
100 65-200	132S	5.5	7.5	100	385	180	866	376	140	520	800	70	290	320	430	4-M12x200L	120	200	70	201	
100 65-250	160L	15	20	125	530	282	1262	632	195	760	1150	100	330	360	625	4-M16x250L	150	250	79	283	
100 65-315	180M	22	30	150	670	355	1591	791	250	950	1450	100	330	360	685	4-M20x315L	180	315	119	375	
125 80-200	160M	11	15	100	385	180	866	376	140	520	800	70	290	320	430	4-M12x200L	120	200	85	264	
125 80-250	180L	15	20	125	530	282	1262	632	195	760	1150	100	330	360	625	4-M16x250L	150	250	96	332	
125 80-315	180L	30	40	150	670	355	1591	791	250	950	1450	100	330	360	685	4-M20x315L	180	315	120	428	
125 80-400	200L	45	60	200	900	500	2047	1047	300	1200	1700	120	400	430	725	4-M24x400L	230	400	145	443	
125 100-200	160M	11	15	100	385	180	866	376	140	520	800	70	290	320	430	4-M12x200L	120	200	100	305	
125 100-250	180M	15	20	125	530	282	1262	632	195	760	1150	100	330	360	625	4-M16x250L	150	250	110	378	
125 100-315	200L	45	60	200	900	500	2047	1047	300	1200	1700	120	400	430	725	4-M24x400L	230	400	135	533	
150 125-200	180L	30	40	150	670	355	1591	791	250	950	1450	100	330	360	685	4-M20x315L	180	315	160	660	
150 125-250	225S	55	75	200	900	500	2047	1047	300	1200	1700	120	400	430	725	4-M24x400L	230	400	185	845	
150 125-315	225S	55	75	200	900	500	2047	1047	300	1200	1700	120	400	430	725	4-M24x400L	230	400	205	905	
150 125-400	250S	75	100	250	1150	600	2447	1247	350	1400	2000	150	450	480	825	4-M28x500L	280	500	265	1310	
150 125-500A	280M	132	175	300	1350	700	2847	1447	400	1700	2400	200	500	530	975	4-M32x630L	350	630	285	1510	
150 125-500B	280M	132	175	300	1350	700	2847	1447	400	1700	2400	200	500	530	975	4-M32x630L	350	630	265	1310	
200 150-250	225S	55	75	200	900	500	2047	1047	300	1200	1700	120	400	430	725	4-M24x400L	230	400	285	1510	
200 150-315	250M	75	100	250	1150	600	2447	1247	350	1400	2000	150	450	480	825	4-M28x500L	280	500	310	1660	
200 150-400	280M	132	175	300	1350	700	2847	1447	400	1700	2400	200	500	530	975	4-M32x630L	350	630	285	1510	
200 150-500A	315L	180	240	350	1500	800	3247	1647	450	1900	2700	250	550	580	1025	4-M36x710L	400	710	315	2640	
200 150-500B	355L	315	420	400	1600	900	3647	1847	500	2100	3000	300	600	630	1175	4-M40x800L	450	800	315	2640	
250 200-400	250S	75	100	250	1150	600	2447	1247	350	1400	2000	150	450	480	825	4-M28x500L	280	500	485	1540	
300 250-360	280S	110	160	350	1500	800	3247	1647	450	1900	2700	250	550	580	1025	4-M36x710L	400	710	594	1524	
300 250-400	250M	90	120	300	1350	700	2847	1447	400	1700	2400	200	500	530	975	4-M32x630L	350	630	594	1524	
300 250-500	280L	160	220	400	1600	900	3647	1847	500	2100	3000	300	600	630	1175	4-M40x800L	450	800	602	1937	

● ISF / ISBF Models : Above 400 mm (16.75 in) of Impeller Diameter.
 ● Dimension and frame for motors differ from motor manufacture in some cases.

● Parts List and Materials



- 1 Casing
- 2 Impeller
- 6 Shaft
- 7 Casing Ring
- 13 Packing
- 14 Sleeve
- 16 Inboard Bearing
- 17 Packing Grand
- 18 Outboard Bearing
- 19 Frame
- 35 Inboard Bearing Cover
- 37 Outboard Bearing Cover
- 45 Oil Cap (Leakage free air vent)
- 49 Oil Seal
- 83 Stuffing Box

Material Code : Standard

Name of Parts	MATERIALS								
	IS(F)			ISB(F)			ISB(F)		
	KS	JIS	ASTM	KS	JIS	ASTM	KS	JIS	ASTM
1 Casing	GC200	FC20	A 48 CL30	SSC13	SCS13	A743-CF8	SSC14	SCS14	A743-CF8M
2 Impeller	GC200	FC20	A 48 CL30	SSC13	SCS13	A743-CF8	SSC14	SCS14	A743-CF8M
6 Shaft	SM45C	S45C	A576 1045	STS304	SUS304	A276 304	STS316	SUS316	A276 316
7 Casing Ring	SM6	BC6	B584 C836	SSC13	SUS13	A743-CF8	STS14	SUS14	A743-CF8M
14 Sleeve	DC6	BC6	B584 C836	STS304	SUS304	A276 304	STS316	SUS316	A276 316
83 Stuffing Box	GC200	FC20	A 48 CL30	SSC13	SCS13	A743-CF8	SSC14	SCS14	A743-CF8M

Optional Material Code
 - API Material class code.
 - Other materials are available on request. (DCI, SC, 12C, G3316L, GCM, A20, Hcr, CD4MCU, etc)

ISO Standard Process Pumps

ISBO



● Applications

- Chemical industry
- Petroleum refinery
- Petrochemical industry
- Other various industries

● Feature

- Foot support and back pull-out design
- Heavy and sturdy construction
- Compliance with ISO 2858
- High interchangeability
- Low 'NPSH'
- Good efficiency
- Completely standardization for wide application

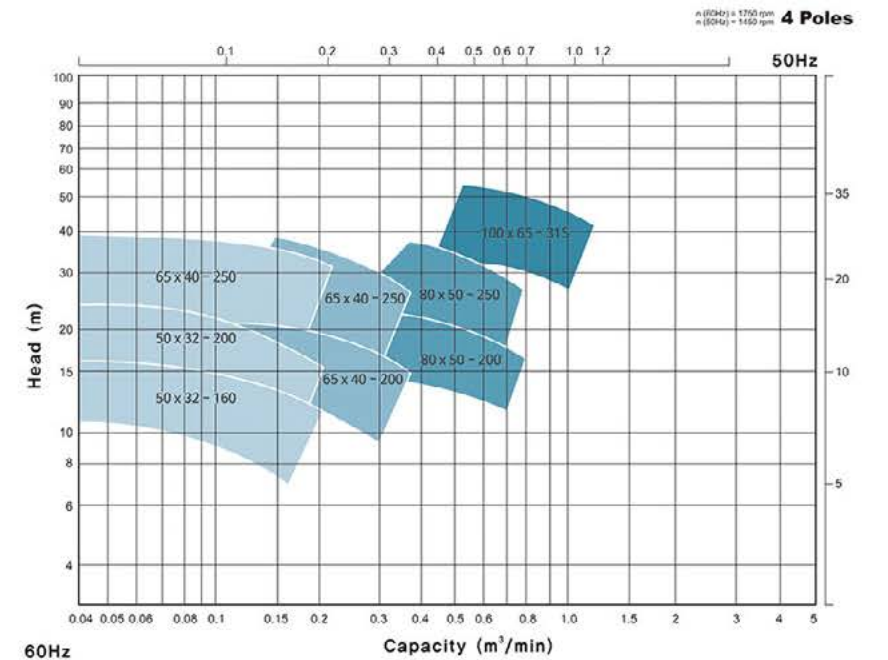
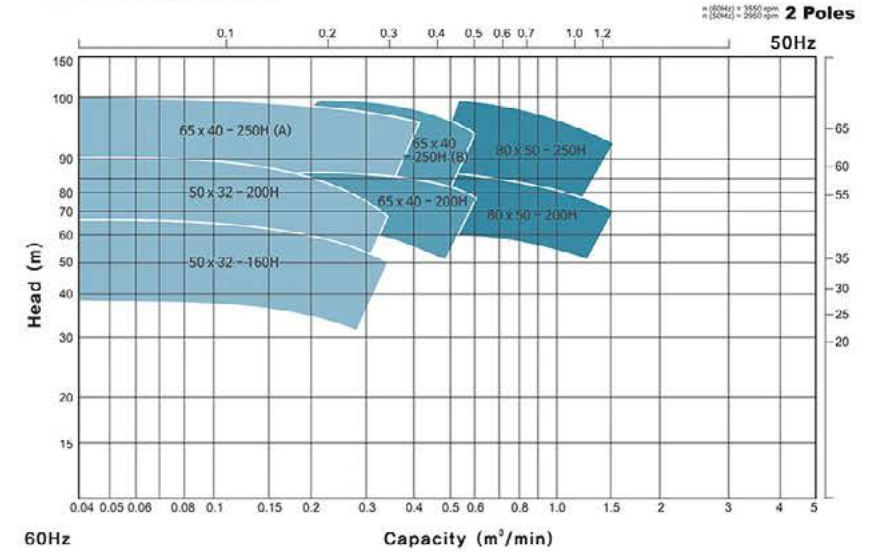
● Ratings

Capacity	Up to 5m ³ /min (1,321 US GPM)
Head	Up to 130m (426 ft)
Discharge Pressure	Up to 16 kgf/cm ² (227 PSIG)
Allowable Suction Pressure	Up to 9 kgf/cm ² (128 PSIG)
Revolution 60Hz (50Hz)	1750 OR 3550 min ⁻¹ (1450 or 2950min ⁻¹)
Rotation	Clockwise viewed from coupling end
Stainless Steel Temp.	-50°C ~ 177°C (-58°F ~ 350°F)
Cast Iron Temp.	-20°C ~ 150°C (-4°F ~ 302°F)
Nozzle - Raing	Steel : ANSI CLASS 150, Iron : ANSI CLASS 125
Nozzle - Facing	Steel : RF, Iron : FF
Nozzle - Location	End Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal

● ISBO Model.



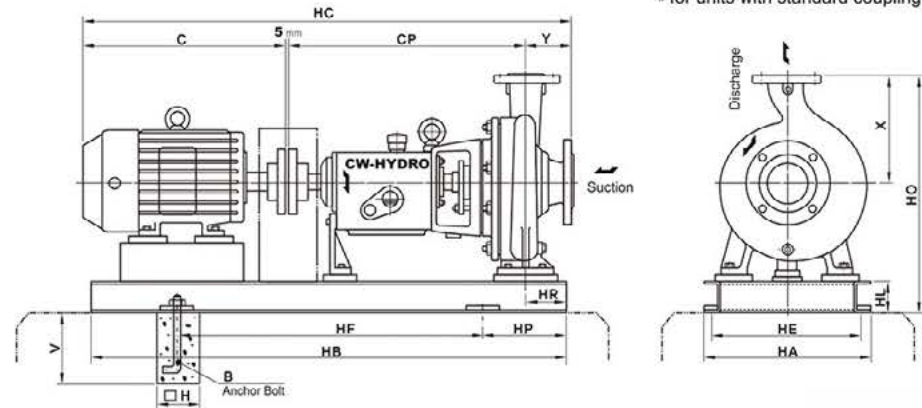
● Selection Charts



Note: *, Performance ranges shown on these charts are preliminary selection only.

ISO Standard Process Pumps
Model. ISBO

● Installation Dimension

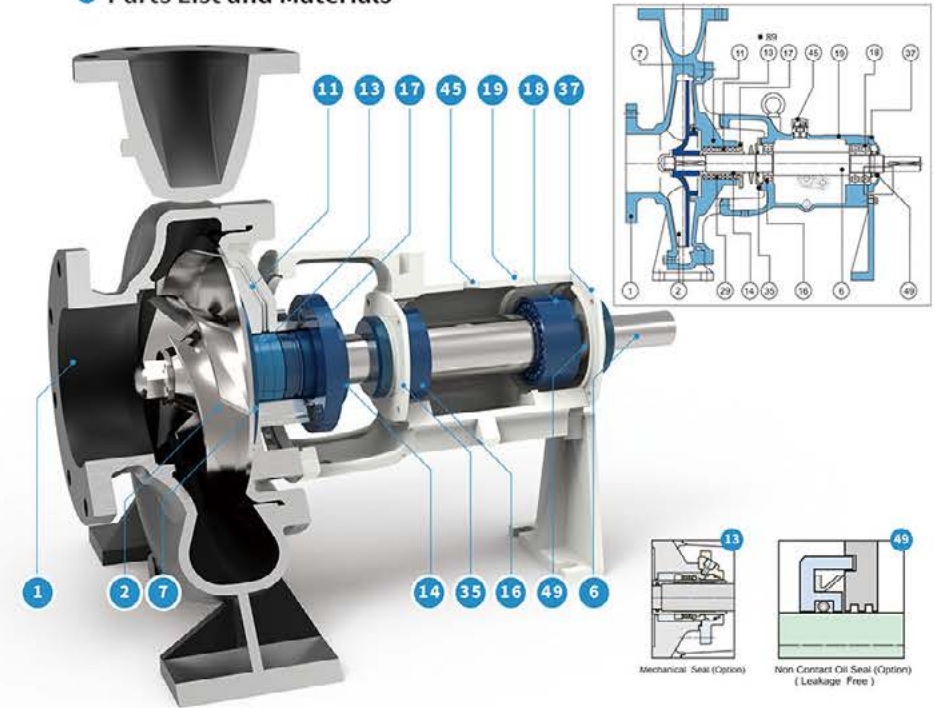


division	Pump and Motor							Baseplate							Anchor Bolt				
standard	Suc	Dis	Frame	kW	HC	C	CP	Y	X	HF	HB	HR	HP	HE	HA	HO	B	H	V
50x32-160	50	32	80	0.75	740	270	385	80	160	480	710	70	115	290	320	382	4-M12x160L	130	160
50x32-200	50	32	90L	1.5	798	328	385	80	180	480	710	70	115	290	320	402	4-M12x160L	130	160
65x40-200	65	40	112M	3.7	872	382	385	100	180	540	800	75	130	320	350	430	4-M12x160L	130	160
80x50-200	80	50	112M	3.7	872	382	385	100	200	640	800	70	130	320	350	450	4-M12x160L	130	160
65x40-250	65	40	112M	3.7	987	382	500	100	225	600	900	85	150	400	430	495	4-M16x200L	130	200
100x65-200	100	65	132S	5.5	1049	444	500	100	225	660	1000	85	170	450	480	495	4-M16x200L	130	200
80x50-250	80	50	132S	5.5	1049	444	500	100	225	660	1000	85	170	400	430	495	4-M16x200L	130	200
125x80-250	125	80	132M	7.5	1112	482	500	125	250	660	1000	85	170	460	480	620	4-M16x200L	130	200
100x65-250	100	65	132M	7.5	1112	482	500	125	250	660	1000	100	170	450	480	540	4-M16x200L	130	200
125x80-250	125	80	150M	11	1223	593	500	125	280	740	1120	85	190	490	530	625	4-M20x250L	130	200
100x65-315	100	65	160L	15	1297	637	530	125	280	840	1250	100	205	490	530	625	4-M20x250L	200	250

Note: *Dimensions are in mm.
*The content of this catalogue is to change without notice.

ISO Standard Process Pumps
Model. ISBO

● Parts List and Materials



No	Name of part	Material		
1	Casing	SSC13	SSC14	GC200
2	Impeller	SSC13	SSC14	GC200
6	Shaft	STS304	STS316	SM45C
7	Wearing Ring	SSC13	SSC14	BC6
11	Stuffing Box Cover	SSC13	SSC14	GC200
13	Packing	TEFLON	TEFLON	TEFLON
14	Packing Sleeve	STS304	STS304	BC6
16	Inboard Bearing	STEEL	STEEL	STEEL
17	Packing Gland	SSC13	SSC14	GC200
18	Outboard Bearing	STEEL	STEEL	STEEL
19	Frame	GC200	GC200	GC200
29	Lantern Ring	SSC13	SSC14	TEFLON
35	Inboard Bearing Cover	GC200	GC200	GC200
37	Outboard Bearing Cover	GC200	GC200	GC200
40	Deflector	NBR	NBR	NBR
49	Oil Seal	NBR	NBR	NBR
71	Adapter	GC200	GC200	GC200

Note: *. Other Materials are available on request

Single-stage Overhung Pumps

H(HB)

energy API CE



Applications

- Petroleum refinery
- Petrochemical industry
- Other chemical
- High temperature and high pressure services

Feature

- Completely standardization for wide application
- Back pull-out design
- Maximum efficiency
- Heavy and sturdy construction
- HB Model. API standard 610 (API Code : BB4)

Ratings

Capacity	Up to 25 m ³ /min (6,604 US GPM)
Head	Up to 300 m (984 ft)
Discharge Pressure	Up to 52 kgf/cm ² G (739 PSIG)
Allowable Suction Pressure	Up to 45 kgf/cm ² G (640 PSIG)
Revolution 60Hz (50Hz)	1750 OR 3550 min ⁻¹ (1450 or 2950 min ⁻¹)
Rotation	Clockwise viewed from coupling end
Temperature	-100°C ~ 460°C (-148°F ~ 860°F)
Nozzle	ANSI CLASS 300
Location	End Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal

*API610 latest edition is available on request

H(HB) Type Model.



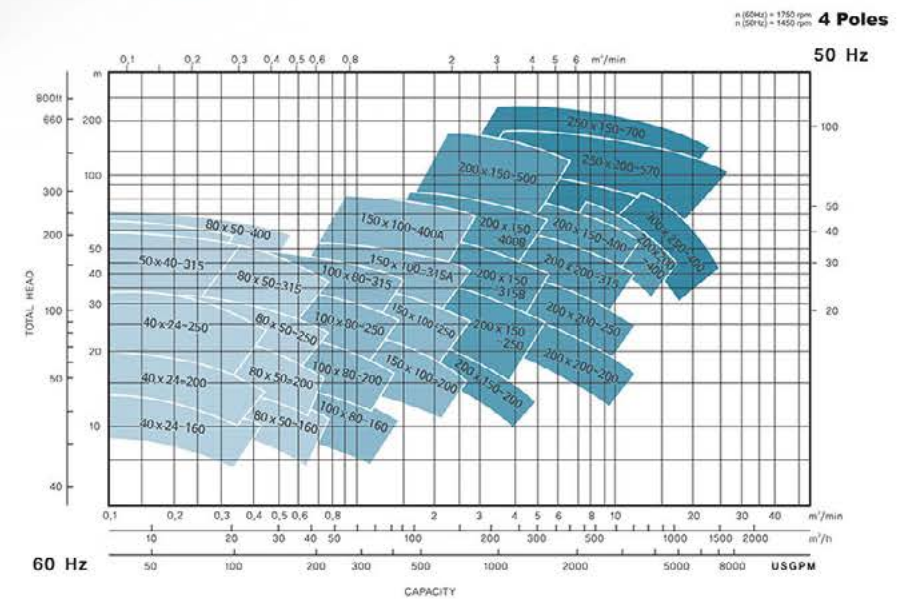
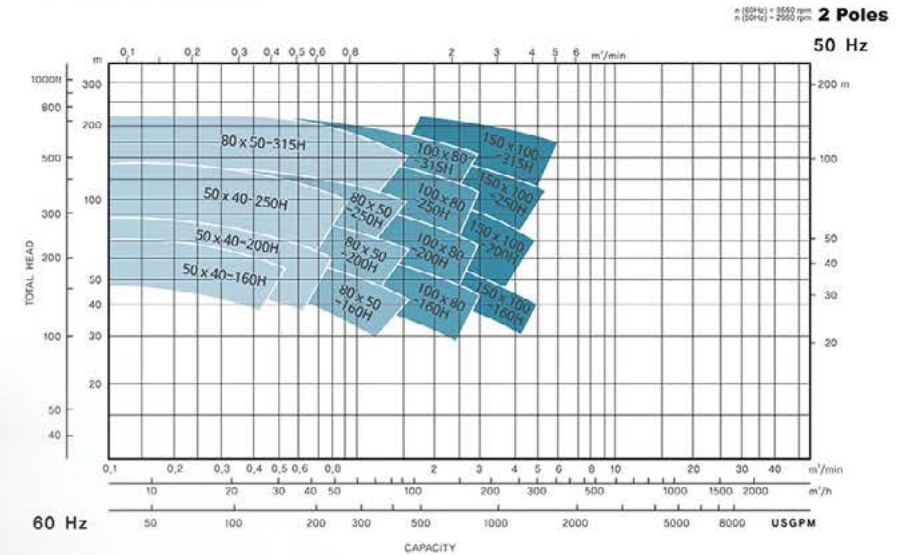
● H Model.

⊗ API 610 process not used

● HB Models.

⊗ Apply API 610 process

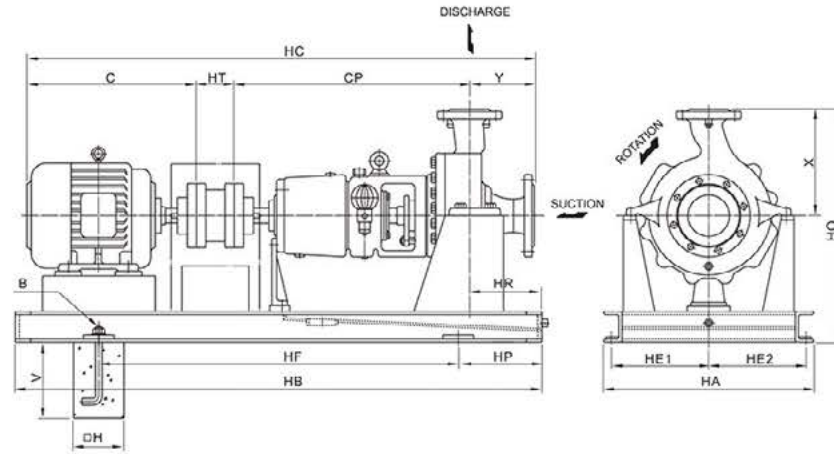
Selection Charts



Note: *, Performance ranges shown on these charts are preliminary selection only

Model. H(HB)

● Installation Dimension

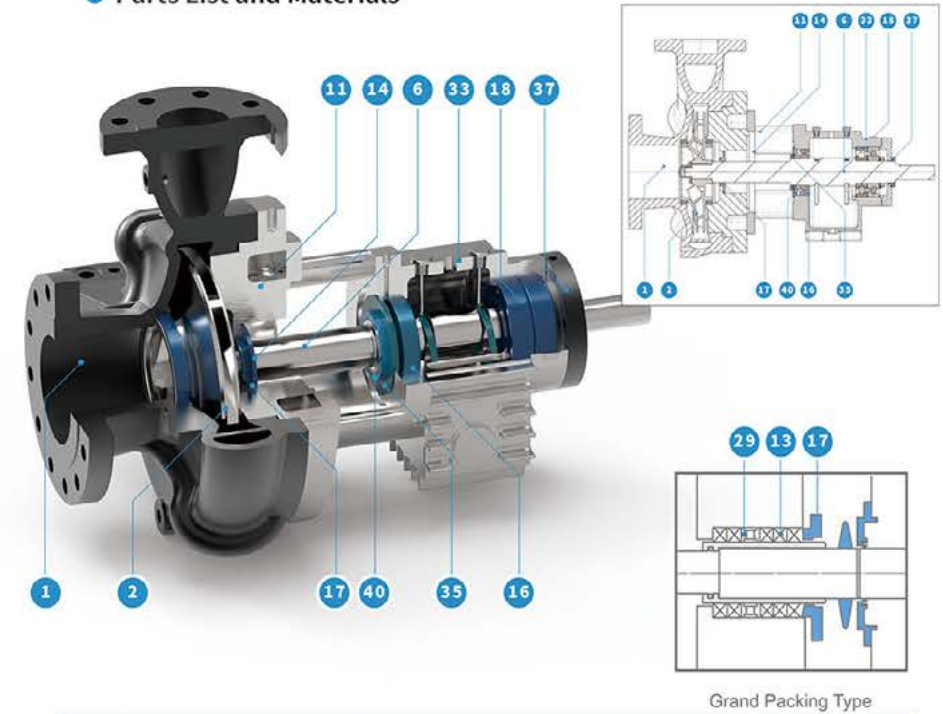


division	Pump and Motor											Baseplate					Anchor Bolt				
	Suc	Dis	Frame	kW	HC	C	HT	CP	Y	X	HR	HP	HF	HB	HO	HE1	HE2	HA	B	H	V
standard	40	25	180M	19	1507	647	140	570	140	220	85	240	920	1400	600	215	215	480	4-M20x315L	150	315
40x25-200	40	25	180M	19	1507	647	140	570	140	220	85	240	920	1400	600	215	215	480	4-M20x315L	150	315
50x40-160	50	40	200M	30	1568	708	140	580	140	225	85	240	920	1400	605	215	215	480	4-M20x315L	150	315
50x40-200	50	40	225S	45	1757	817	140	650	150	285	90	255	990	1500	710	270	270	600	4-M20x315L	150	315
50x40-250	50	40	225M	55	1802	842	140	650	170	300	100	270	1060	1600	770	270	270	600	4-M20x315L	150	315
80x50-160	80	50	200L	37	1607	747	140	580	140	225	85	240	920	1400	605	240	240	530	4-M20x315L	150	315
80x50-200	80	50	225S	45	1757	817	140	650	150	265	90	255	990	1500	685	270	270	600	4-M20x315L	150	315
80x50-250	80	50	250M	75	1935	894	140	730	170	300	90	290	1120	1700	795	300	300	660	4-M20x315L	150	315
100x80-160	100	80	225M	55	1797	842	140	650	185	250	95	270	1060	1600	655	235	235	530	4-M20x315L	150	315
100x80-250	100	80	250M	75	1934	894	140	730	170	300	95	290	1120	1700	795	270	270	600	4-M20x315L	150	315
100x80-315	100	80	280M	110	2105	1065	140	730	170	400	115	300	1200	1800	920	300	300	660	4-M20x315L	150	315
150x100-160	150	100	225M	55	1902	842	140	650	190	280	105	270	1060	1600	725	270	270	600	4-M20x315L	150	315
150x100-200	150	100	280M	100	2125	1065	140	730	190	325	105	300	1200	1800	820	280	320	600	4-M20x315L	150	315
150x100-250	150	100	280L	150	2224	1154	140	730	190	340	120	325	1250	1900	835	280	320	660	4-M20x315L	150	315
150x100-315A	150	100	280M	110	2175	1065	180	730	200	370	105	325	1250	1900	890	320	350	730	4-M20x315L	150	315
150x100-315B	150	100	225M	55	1952	842	180	730	200	370	105	290	1120	1700	890	285	315	660	4-M20x315L	150	315
200x150-250	200	150	250M	75	2004	894	180	730	200	425	130	290	1120	1700	975	375	375	810	4-M20x315L	150	315
200x150-400	200	150	280L	150	2409	1154	180	850	225	560	180	360	700x2	2120	1170	470	580	1110	6-M24x400L	150	400
250x200-570	250	200	680S	350	3273	1893	280	850	250	600	180	360	1140x2	3000	1330	475	575	1110	6-M24x400L	150	400
250x150-700	250	150	681S	450	3666	2021	280	1030	335	630	190	370	820x3	3500	1460	555	1250	1250	8-M24x400L	150	400

*Dimension and frame for motors differ from motor manufacturers in some cases.

Model. H(HB)

● Parts List and Materials



No	Name of part	Material			
1	Casing	SCP2H	SSC13	SSC14	SSC1
2	Impeller	GC200	SSC13	SSC14	SSC1
6	Shaft	SCM440	STS304	STS316	STS420J2
11	Stuffing Box Cover	SCPH2	SSC13	SSC14	SSC1
13	Packing or Seal	TEFLON	TEFLON	TEFLON	TEFLON
14	Packing Sleeve	STS304	STS304	STS316	STS420JS
16	Inboard Bearing	STEEL	STEEL	STEEL	STEEL
17	Packing Gland	SSC13	SSC13	SSC14	SSC13
18	Outboard Bearing	STEEL	STEEL	STEEL	STEEL
29	Lantern Housing	SSC13	SSC13	SSC13	SSC13
33	Bearing Housing	GC200	GC200	GC200	GC200
35	Inboard Bearing Cover	GC200	GC200	GC200	GC200
37	Outboard Bearing Cover	GC200	GC200	GC200	GC200
40	Deflector	BC6	BC6	BC6	BC6
65	Mechanical Seal	-	-	-	-
71	Adapter	GC200	GC200	GC200	GC200

*Material specification comply with API 610 Appendix E

*Other Materials are available on request

ISO Standard General Service Pumps

GB



● Applications

- Water supply
- Cooling water circulation
- Cooling tower
- Building
- Irrigation
- General industry

● Feature

- Completely standardization for wide application
- Heavy and sturdy construction
- Compliance with ISO2858 for high interchangeability
- Good efficiency and low NPSHr.
- Foot support and back pull out design and simple construction for easy maintenance

● Ratings

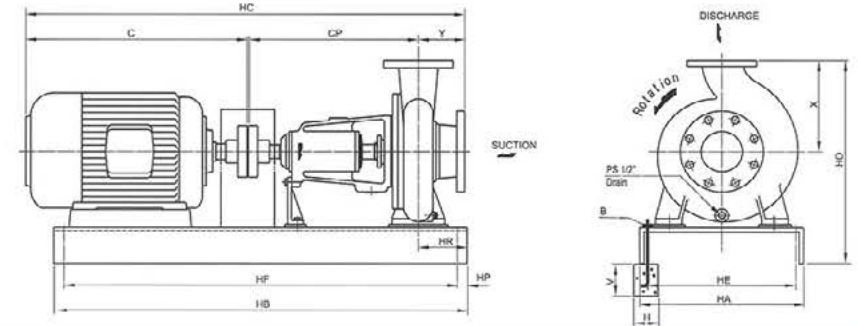
Capacity	Up to 6 m ³ /min (1,585 US GPM)
Head	Up to 60m (196 ft)
Discharge Pressure	Up to 10 kgf/cm ² (142 PSIG)
Allowable Suction Pressure	Up to 5 kgf/cm ² (71 PSIG)
Revolution 60Hz (50Hz)	1750 min ⁻¹ (1450min ⁻¹)
Rotation	Clockwise (viewed from coupling end)
Temperature	-20°C -150°C (-4°F -302°F)
Nozzle Rating	KS 10 Kgf/cm ² - FF
Nozzle Location	End Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal

● Specification

Spec	CAPACITY / HEAD						
	POWER	CAPACITY	HEAD	CAPACITY	HEAD	CAPACITY	
Model	(m ³ /min)	(m)	(m ³ /min)	(m)	(m ³ /min)	(m)	
GB3220	1.5	0.1	9	0.15	6	0.2	6
	1.5	0.1	19	0.2	12	0.25	10
	2.2	0.1	18.5	0.2	14.5	0.3	12
GB4020	1.5	0.15	12	0.2	66.3	0.3	10
	1.5	0.15	13	0.2	13	0.3	11
	2.2	0.15	17	0.2	15	0.4	12
GB4025	3.7	0.1	18	0.25	17	0.4	13
	3.7	0.1	25	0.3	24	0.45	20
	5.5	0.1	31	0.3	30	0.5	25
GB5020	3.7	0.3	11	0.25	10	0.7	6
	3.7	0.3	19	0.6	16	0.8	12
	3.7	0.3	19	0.6	16	0.75	19
GB5025	5.5	0.3	30	0.6	27	0.8	21
	7.5	0.3	30	0.5	29	0.7	26
	7.5	0.3	33	0.4	38	0.7	29
GB5031	11	0.3	50	0.6	47	0.8	44
	5.5	0.7	14	0.9	13	1.1	11
	5.5	0.7	18	1.0	16	1.2	14
GB6525	5.5	0.7	25	1.0	23	1.3	19
	11	0.5	32	1.2	28	1.5	25
	11	0.5	30	1.0	27	1.3	24
GB6531	15	0.5	37	1.0	33	1.3	29
	19	0.5	50	1.0	45	1.5	39
	7.5	1.0	18	1.6	15	1.9	13
GB8025	11	1.0	25	1.8	21	2.2	18
	15	1.0	31	1.8	27	2.4	19
	19	0.7	37	1.5	34	2.0	30
GB8036	22	0.7	45	1.8	40	2.2	34
	30	0.7	52	1.8	47	2.5	40
	37	0.7	64	2.0	58	2.7	48
GB1025	15	1.6	20	2.5	18	3.0	15
	15	1.6	25	2.5	23	3.2	18
	19	1.6	25	2.5	23	3.5	20
GB1036	22	1.6	31	3.0	27	3.8	23
	30	1.4	38	2.0	37	2.8	32
	30	1.4	42	2.0	40	2.8	35
GB1225	37	1.4	50	2.2	48	3.1	41
	55	1.4	58	2.5	54	3.5	48
	55	1.4	67	2.5	64	3.5	58
GB1231	19	2.0	50	3.0	18	4.5	14
	22	2.0	23	4.0	20	5.0	16
	30	2.0	30	4.5	25	6.0	18
GB1231	30	3.0	28	4.0	23	5.0	14
	30	3.0	32	4.5	24	5.2	18
	37	3.0	38	4.5	29	5.5	22
GB1231	45	3.0	45	4.5	40	6.0	26
	45	3.0	45	4.5	40	6.0	26
	45	3.0	45	4.5	40	6.0	26

Note: The content of this catalogue is to change without notice.

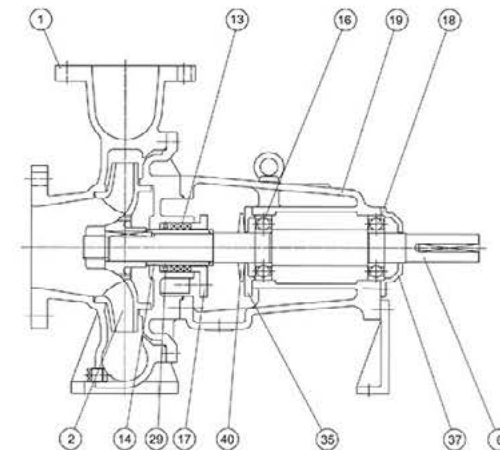
● Installation Dimension



Spec	Pump and motor										Baseplate				Anchor Bolt				
Model	Suc	Dis	Frame	kW	HC	C	CP	Y	X	HR	HF	HP	HB	HE	HA	HO	B	H	V
50x32-200	50	32	90L	1.5	738	328	385	80	160	100	750	25	800	210	200	400	4-M16x315L	150	250
65x40-200	65	40	90L	1.5	819	328	385	100	180	100	750	25	800	235	285	400	4-M16x315L	150	250
65x40-200	65	40	112M	3.7	987	382	500	100	225	110	900	25	950	290	340	485	4-M16x315L	150	250
80x50-200	80	50	112S	2.2	646	356	385	100	200	100	750	25	800	235	285	440	4-M16x315L	150	250
80x50-250	80	50	102G	5.5	1049	444	500	100	225	110	950	25	1000	290	340	465	4-M16x315L	150	250
80x50-315	80	50	160M	11	1223	503	500	125	280	110	1070	25	1120	315	385	505	4-M16x315L	150	250
100x65-250	100	65	160M	11	1218	693	495	125	250	130	1090	25	1140	330	380	525	4-M16x315L	150	250
100x65-315	100	65	160L	15	1302	637	535	125	280	130	1200	25	1250	370	420	580	4-M16x315L	150	250
125x80-250	125	80	180L	15	1267	637	500	125	280	130	1130	25	1180	370	420	580	4-M16x315L	150	250
125x80-360	125	80	200M	30	1568	708	530	125	355	130	1270	25	1320	405	455	710	4-M16x315L	150	250
125x100-250	125	100	180L	22	1355	685	525	140	280	130	1200	25	1250	370	420	580	4-M16x315L	150	250
125x100-360	125	100	225M	55	1512	842	575	140	355	150	1350	25	1400	470	420	710	4-M16x315L	200	315
150x125-250	150	125	200M	30	1383	708	530	140	355	130	1270	25	1320	390	440	650	4-M16x315L	150	250
150x125-315	150	125	225S	45	1492	817	530	140	355	150	1350	25	1400	470	520	710	4-M16x315L	200	315

Note: *. Dimensions are in mm.
*. The content of this catalogue is to change without notice.

● Parts List and Materials



NO	Name of part	MATERIAL	
1	Casing	GC200	GCD450
2	Impeller	GC200	BC6
6	Shaft	SM45C	SM45C
13	Gland Packing	TEFLON	TEFLON
14	Sleeve	GC200	GC200
16	Inboard Bearing	STEEL	STEEL
17	Gland	GC200	GC200
18	Outboard Bearing	STEEL	STEEL
19	Frame	GC200	GC200
29	Lantern Ring	TEFLON	TEFLON
35	Inboard Bearing	GC200	GC200
37	Outboard Bearing	GC200	GC200
40	Deflector	NBR	NBR

Note: *. Other Materials are available on request

Vortex Paper Stock Solid Process Pumps

GIV



● Applications

- Waste Treatment
- Pulp and Paper
- Food processing
- Agriculture
- Mining
- Manufacturing Process

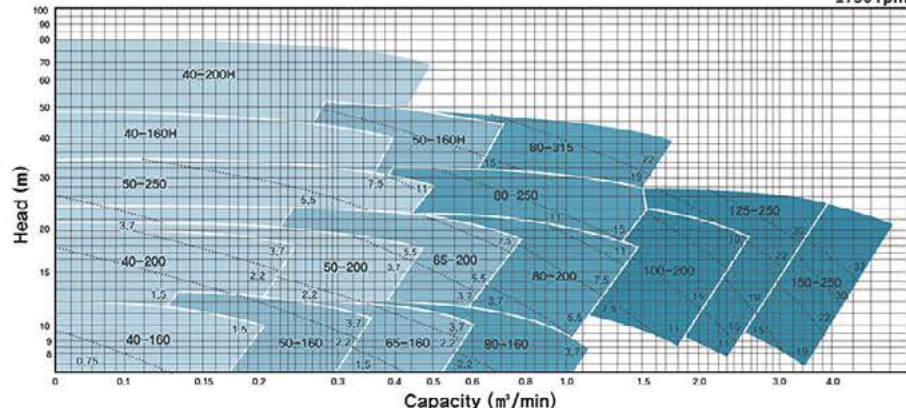
● Feature

- Non-clog
- Back pull-out design
- Extra thick casing and impeller

● Ratings

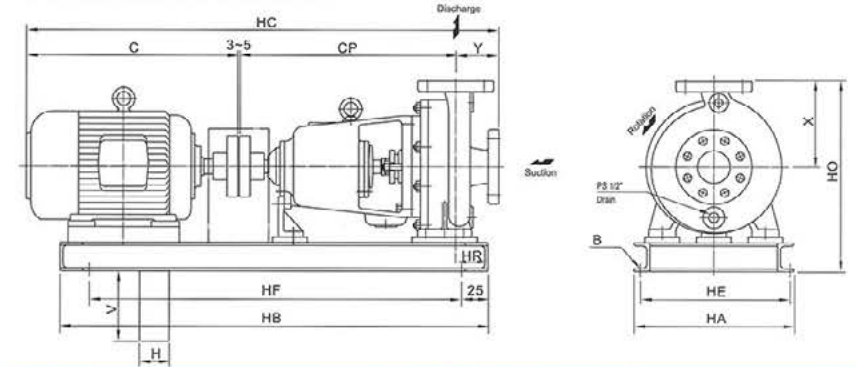
Capacity	UP to 5m ³ /min (1,321 US GPM)
Head	UP to 80m (262 ft)
Temperature	UP to 80°C (176°F)

● Selection Chart



Note: *. Performance ranges shown on these charts are preliminary selection only.

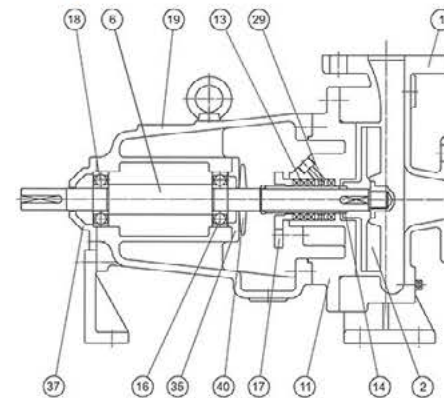
● Installation Dimension



Spec	Pump and motor								Baseplate					Anchor Bolt			
	Model	Disc.	Frame	kW	HC	C	CP	Y	X	HR	HF	HB	HE	HA	HO	B	H
40-160	40	90L	1.5	813	328	400	80	160	80	750	800	210	260	352	4-M16x315L	150	250
50-160	50	112S	2.2	841	356	400	80	160	80	750	800	210	260	352	4-M16x315L	150	250
65-160	65	112M	3.7	887	382	400	100	180	80	800	850	235	285	400	4-M16x315L	150	250
80-160	80	112M	3.7	887	382	510	100	200	90	900	950	235	285	420	4-M16x315L	150	250
40-200	40	112M	3.7	997	382	510	100	200	90	900	950	235	285	420	4-M16x315L	150	250
50-200	50	132S	5.5	1059	444	510	100	200	90	950	1000	235	285	420	4-M16x315L	150	250
65-200	65	132M	7.5	1097	482	510	125	200	90	1000	1050	235	285	420	4-M16x315L	150	250
80-200	80	160M	11	1243	593	520	125	225	95	1100	1150	290	340	465	4-M16x315L	150	250
50-250	50	160M	11	1223	593	500	125	225	95	1050	1100	290	340	465	4-M16x315L	150	250
80-250	80	160L	15	1267	637	500	125	280	110	1150	1200	370	420	580	4-M16x315L	150	250
100-200	100	160L	15	1287	637	520	125	225	95	1150	1200	315	365	500	4-M16x315L	150	250
80-315	80	180M	19	1327	649	550	125	280	110	1200	1250	370	420	580	4-M16x315L	150	250
125-250	125	200M	30	1403	708	550	140	280	110	1250	1300	370	420	580	4-M16x315L	150	250
150-250	150	200L	37	1442	747	550	140	280	110	1250	1300	370	420	605	4-M16x315L	150	250

Note: *. Dimensions are in mm.
*. The content of this catalogue is to change without notice.

● Parts List and Materials



No	Name of part	MATERIAL
1	Casing	GC200
2	Impeller	GC200
6	Shaft	SM45C
11	Stuffing Box Cover	TEFLON
13	Packing	TEFLON
14	Sleeve	GC200
16	Inboard Bearing	STEEL
17	Gland	GC200
18	Outboard Bearing	STEEL
19	Frame	GC200
29	Lantern Ring	TEFLON
35A	Inboard Bearing Cover	GC200
37	Outboard Bearing Cover	GC200
40	Deflector	NBR

Note: *. Other Materials are available on request

Close-Coupled General Service Pumps

GM



Applications

- Water supply
- Cooling water circulation
- Cooling tower
- Building
- Irrigation
- General Industry

Feature

- Small size, compact and stable construction
- Back pullout design for easy maintenance
- Mechanical seal is provided as a standard
- Easy installation, no aligning as close coupled type
- Minimized floor space

Ratings

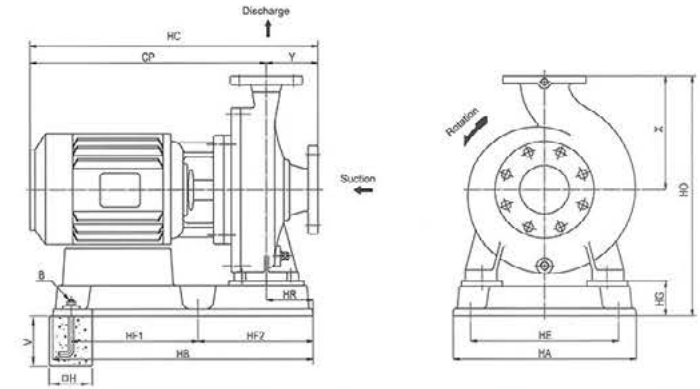
Capacity	Up to 4 m ³ /min (1,057 US GPM)
Head	Up to 35m (115 ft)
Discharge Pressure	Up to 10 kgf/cm ² (142 PSIG)
Allowable Suction Pressure	Up to 5 kgf/cm ² (71 PSIG)
Revolution 60Hz (50Hz)	1750 min ⁻¹ (1450min ⁻¹)
Rotation	Clockwise viewed from coupling end
Temperature	-20°C - 80°C (-4°F - 176°F)
Nozzle Rating	KS 10 Kg/ cm ² - FF
Nozzle Location	End Suction : Top Discharge
Seals	Mechanical Seal

Specification

Spec Model	CAPACITY / HEAD								
	POWER				CAPACITY / HEAD				
	CAPACITY (m ³ /min)	HEAD (m)	CAPACITY (m ³ /min)	HEAD (m)	CAPACITY (m ³ /min)	HEAD (m)	CAPACITY (m ³ /min)	HEAD (m)	
GM3220	1.3	0.1	9	0.15	9	0.2	9	0.2	9
	1.5	0.1	13	0.2	12	0.2	12	0.2	10
	2.2	0.1	16.5	0.2	14.5	0.2	14.5	0.2	12
GM4020	1.5	0.15	12	0.2	11.5	0.2	10	0.2	10
	2.2	0.15	17	0.2	15	0.2	14	0.2	12
	3.7	0.1	18	0.25	17	0.4	13	0.4	13
GM4025	3.7	0.1	25	0.3	24	0.45	20	0.45	20
	5.5	0.1	31	0.3	30	0.5	25	0.5	25
	7.5	0.3	11	0.5	10	0.7	9	0.7	9
GM5020	3.7	0.3	19	0.6	16	0.8	12	0.8	12
	5.5	0.3	30	0.6	27	0.8	13	0.8	13
	7.5	0.7	14	0.8	13	1.1	11	1.1	11
GM5025	5.5	0.7	18	1.0	16	1.2	14	1.2	14
	7.5	0.7	25	1.0	23	1.6	19	1.6	19
	11	0.7	32	1.2	28	1.6	25	1.6	25
GM8025	7.5	1.1	18	0.6	15	1.9	13	1.9	13
	11	1.1	25	1.8	21	2.9	16	2.9	16
	15	1	31	1.9	27	3.4	19	3.4	19
GM1025	15	1.6	20	2.5	16	3.0	15	3.0	15
	15	1.6	23	2.5	20	3.2	18	3.2	18
	19	1.6	25	2.5	23	3.5	20	3.5	20
	22	1.6	21	3.0	27	3.8	23	3.8	23

Note: The content of this catalogue is to change without notice.

Installation Dimension

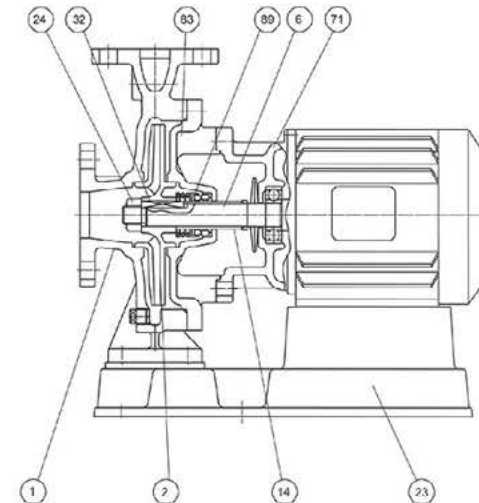


Spec Model	Pump and motor										Baseplate						Anchor Bolt				
	Suc	Dis	Frame	kW	HC	CP	Y	X	E	HP	HF1	HF2	HB	HR	HE	HA	HG	HO	B	H	V
50x32-200	50	32	90L	1.5	452	372	80	180	160	25	200	175	400	75	210	280	60	400	4-M12x160L	130	160
65x40-200	65	40	112S	2.2	488	388	100	180	160	25	225	180	430	75	235	305	60	400	4-M12x160L	130	160
65x40-200	65	40	112S	2.2	537	437	100	225	180	25	245	220	490	88	240	360	60	465	4-M12x160L	130	160
80x50-200	80	50	112M	3.7	518	418	100	200	160	25	225	180	430	75	235	305	60	420	4-M12x160L	130	160
80x50-250	80	50	112M	3.7	567	467	100	225	180	25	245	200	490	88	240	360	60	465	4-M12x160L	130	160
100x65-250	100	65	132M	7.5	661	536	125	250	200	25	285	250	560	105	275	400	60	510	4-M12x160L	130	160
125x80-250	125	80	160M	11	710	585	125	280	225	25	335	250	610	105	320	440	60	565	4-M12x160L	130	160
125x100-250	125	100	160L	15	773	633	140	280	225	25	375	260	660	105	320	440	60	565	4-M12x160L	130	160

Note: *, Dimensions are in mm.

*, The content of this catalogue is to change without notice.

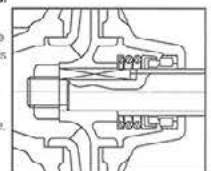
Parts List and Materials



NO	Name of part	MATERIAL	
1	Casing	GC200	GCD450
2	Impeller	GC200	BC6
6	Shaft	SM45C	SM45C
14	Sleeve	GC200	GC200
23	Baseplate	GC200	GC200
24	Impeller Nut	SS400	SS400
32	Impeller Key	SM45C	SM45C
71	Adapter	GC200	GC200
83	Stuffing Box	GC200	GCD450
89	Mechanical Seal	-	-

Note: *, Other Materials are available on request

• Standard Mechanical Seal
Bellcup type Mono spring type with packing box structure with DIN standard dimensions is used as a standard. so it is safe for foreign matter, has a long life and is simple in structure and easy to handle.



In-Line Pumps

CLP(D)



Applications

- Industrial
- Building
- Liquid transfer
- Pressurized
- Process

Feature

- Back full out Design
- Close Impeller
- ANSI,KS (JIS) FLANGE
- Split Coupling
- Possible to set Cartridge Mechanical Seal

Ratings

Capacity	0.2 ~ 30m ³ /min (52 ~ 7,925 US GPM)
Head	5 ~ 52m (16 ~ 170ft)
RPM	1750rpm (1180rpm)
Design Pressure	below 16 bar
Temperature	-10°C ~ 150°C (14 ~ 302°F)
Fluid	Clean Water

CLP(D) Type Model.



CLP Model.

- Single suction Type.

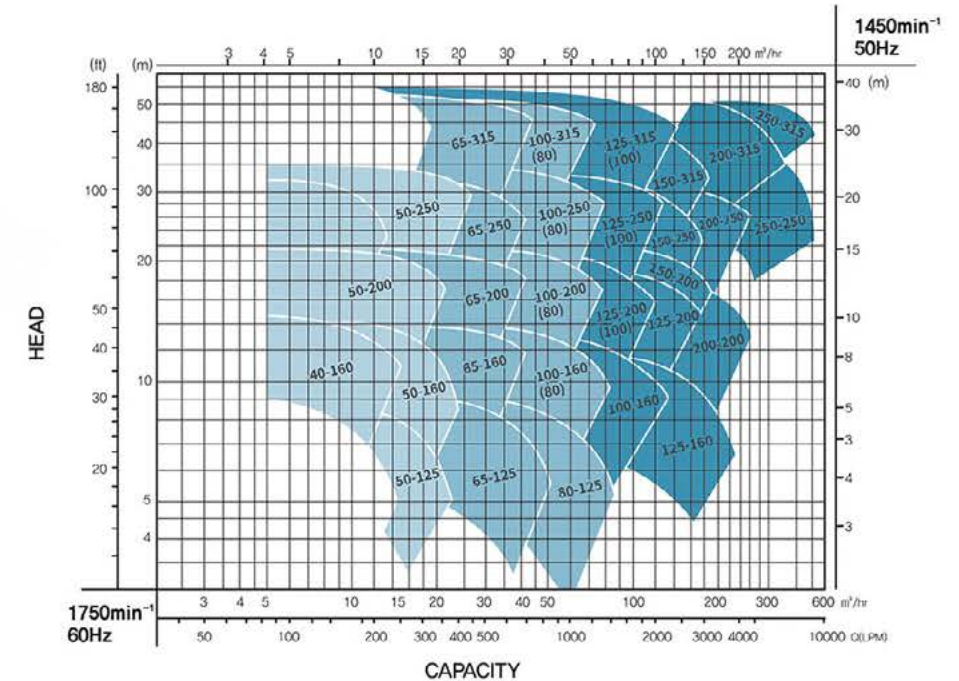
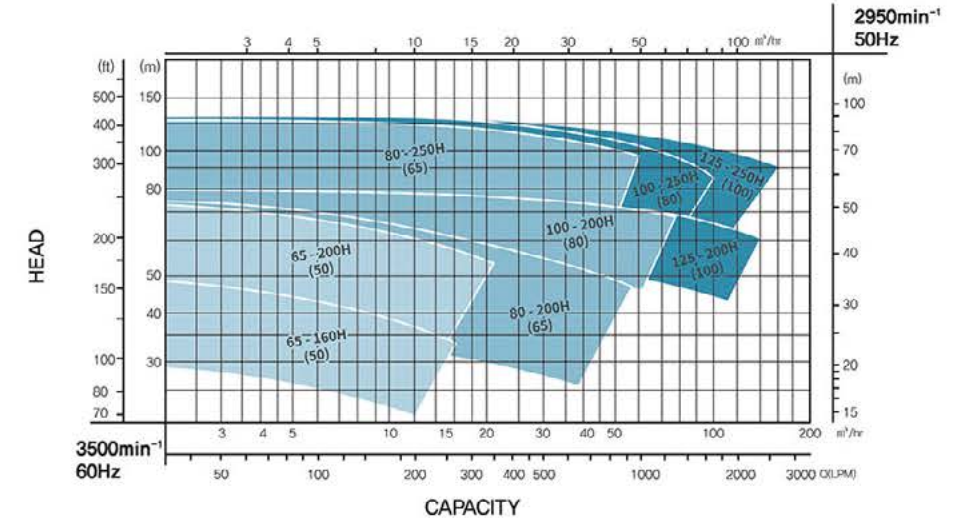


CLP(D) Model.

- Double suction Type.



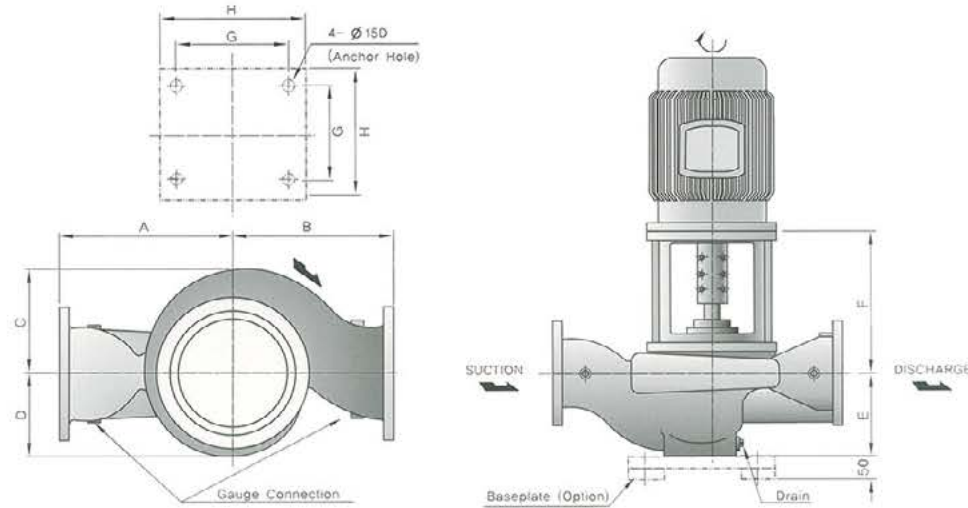
Selection Charts



Note: *. Performance ranges shown on these charts are preliminary selection only.

Model. CLP(D)

● Installation Dimension

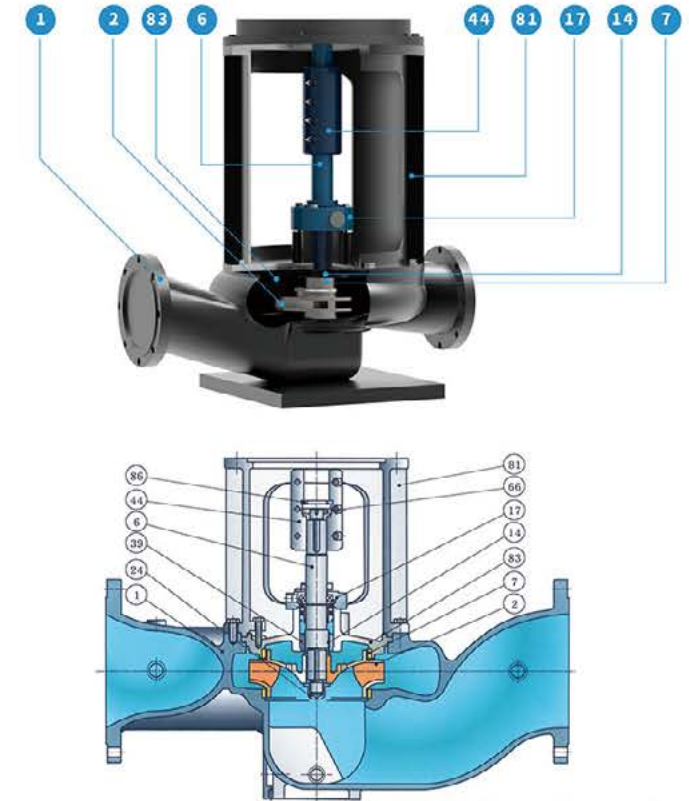


Model	Bore Size		PUMP								
	Suction	Discharge	A	B	C	D	E	F	G	H	Drain
CLP 40-160	40	40	200	200	145	140	120	-	-	-	PS 1/2"
CLP 50-160	50	50	200	200	145	140	125	-	-	-	PS 1/2"
CLP 50-200	50	50	240	210	145	140	130	-	-	-	PS 1/2"
CLP 65-200	65	65	230	200	145	140	130	-	-	-	PS 1/2"
CLP 65-250	65	65	260	230	160	150	130	-	-	-	PS 1/2"
CLP 80-200	80	80	240	210	150	140	160	-	-	-	PS 1/2"
CLP 80-250	80	80	300	250	160	150	160	-	-	-	PS 1/2"
CLP 100-200	100	100	300	280	200	160	175	-	-	-	PS 1/2"
CLP 100-250	100	100	330	300	220	180	175	-	-	-	PS 1/2"
CLP 125-200	125	125	330	280	200	160	175	420	350	430	PS 1/2"
CLP 125-250	125	125	350	300	220	180	175	420	350	430	PS 1/2"
CLP 150-200	150	150	380	330	210	160	195	420	350	430	PS 3/4"
CLP 150-250	150	150	380	330	220	180	195	432	350	430	PS 3/4"
CLP 200-250	200	200	450	380	260	210	240	445	350	430	PS 3/4"
CLP 200-315	200	200	510	430	285	235	250	502	350	430	PS 3/4"
CLP 250-250	250	250	550	460	315	245	285	470	400	480	PS 3/4"
CLP 250-315	250	250	600	500	335	270	290	580	400	480	PS 3/4"

Note: Subject to modification without notice to incorporate technical improvements.

Model. CLP(D)

● Parts List and Materials



*Some models are little differ with above structure (Subject to modification without notice)

NO	Part	MATERIALS	Part	MATERIALS
1	Casing	GCD450/SSC13	Impeller	GC200 / BC6 / SSC13 / SSC1
2	Impeller	BC6/SSC13	Casing	GC200 / GCD450 / SSC13 / SSC1
6	Shaft	SM45C/STS304	Shaft	SM45C / SCM440 / STS304 / STS420J2
7	Casing Ring	GCD450/SSC1	Casing Ring	GCD450 / SSC1
14	Sleeve	STS304		
17	Mechanical Seal	STS304/STS316		
24	Impeller Nut	GCD450/SSC13		
39	Neck Bush	LBC5/CARBON		
44	Coupling	GCD450		
66	Control Nut	SS400		
81	Motor Plate	GC200		
83	Stuffing Box	GCD450/SSC13		
86	Split Ring	SS400		

Note: *. Other Materials are available on request

Paper Stock Process Pumps

NO P



Applications

- Chemical industry
- Food industry
- Paper industry
- Industries waste water

Feature

- Non-clog
- Completely standardization for wide application
- Foot support and back pull-out design
- Heavy and sturdy construction
- Compliance with ISO 2858.
- High Interchangeability
- Good efficiency
- Low NPSHr.

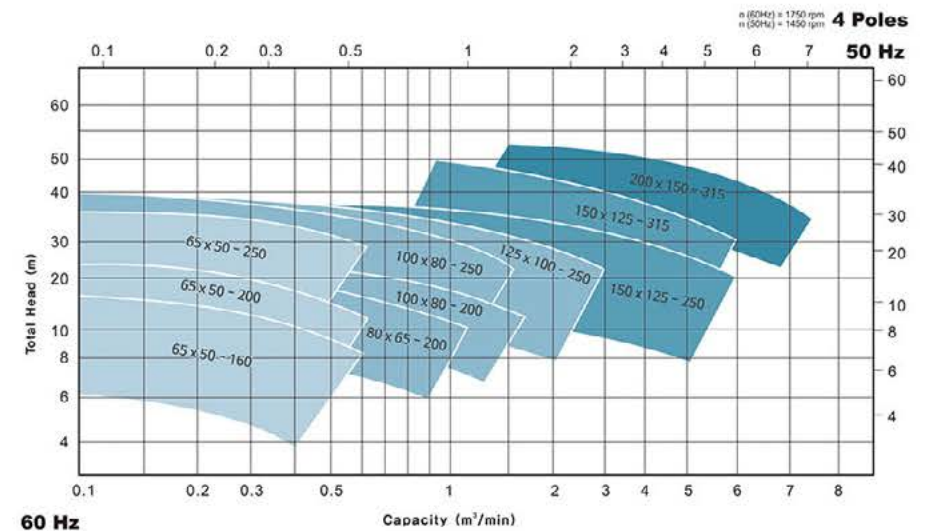
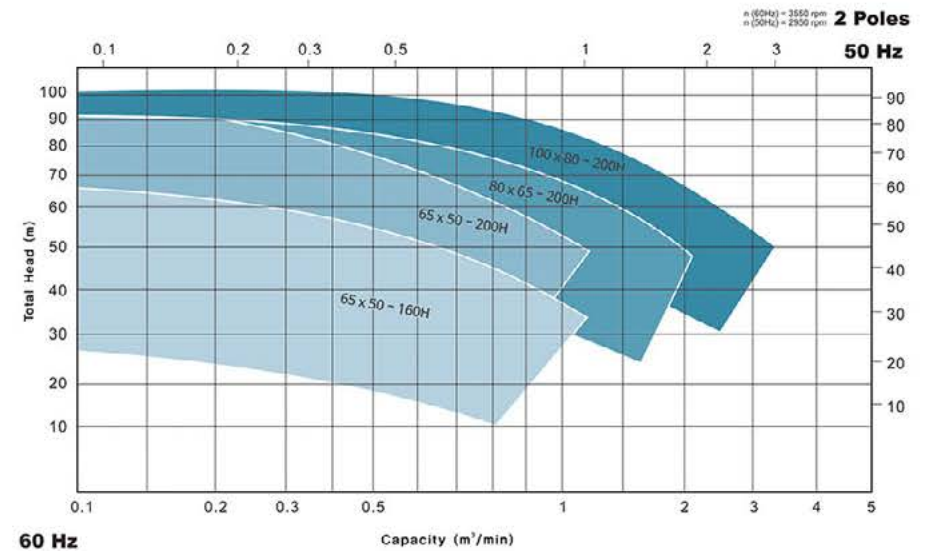
Ratings

Capacity	Up to 7.5m ³ /min (1,981 US GPM)
Head	Up to 100m (328ft)
Discharge Pressure	Up to 12 kgf/cm ² (170 PSIG)
Allowable Suction Pressure	Up to 7 kgf/cm ² (99 PSIG)
Revolution 60Hz (50Hz)	1750 or 3550 min ⁻¹ (1450 or 2950min ⁻¹)
Rotation	Clockwise viewed from coupling end
Temperature Stainless Steel	-50°C - 177°C (-58°F - 350°F)
Temperature Cast Iron	-20°C - 150°C (-4°F - 302°F)
Nozzle Rating	KS 10 kgf/cm ²
Nozzle Facing	Steel : RF, Iron : FF
Nozzle Location	End Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal

Pulp & Paper

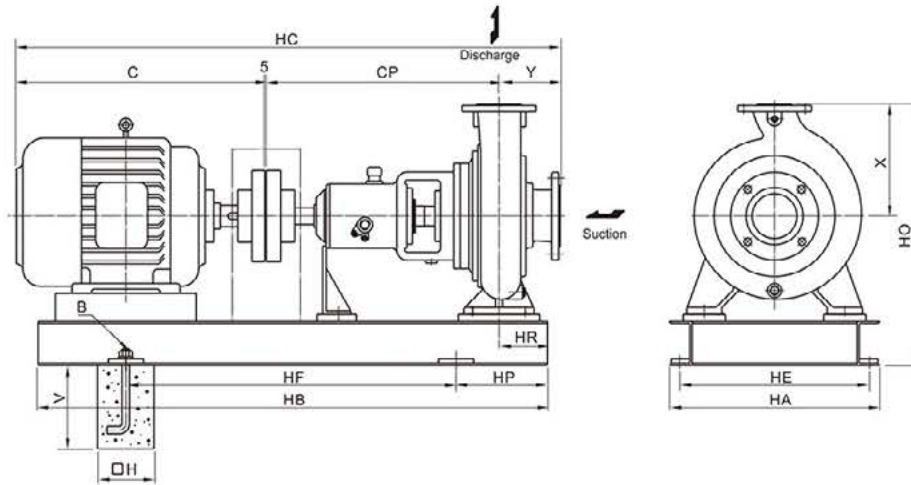
- Paper stock thru 6% consistency
- Black liquor to 68% solids
- Hydropulper and broke service
- Low NPSH digester circulation
- Blow tank to screens
- Primary screens rejects
- High-density chlorine tower to washer

Selection Charts



Note: Performance ranges shown on these charts are preliminary selection only.

● Installation Dimension

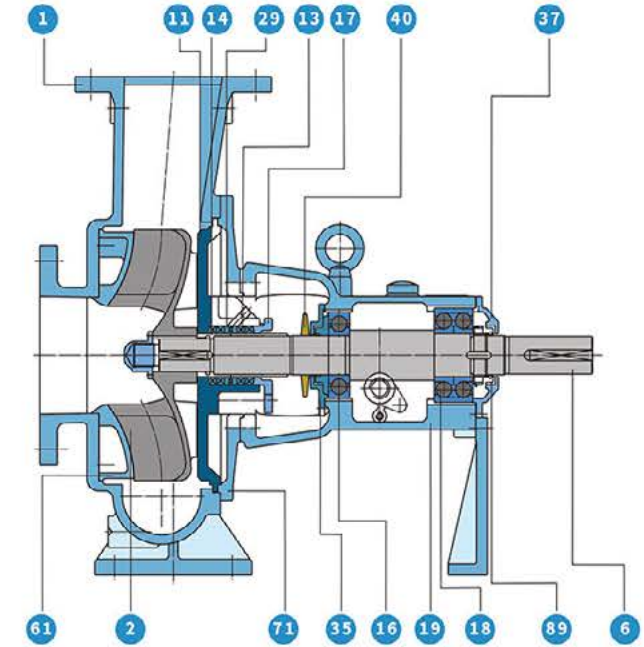


Spec Model	Pump and Motor								Baseplate								Anchor Bolt		
	Suc	Dis	Frame	kW	HC	C	CP	Y	X	HP	HR	HB	HF	HO	HE	HA	B	H	V
65×50-160	65	50	90L	1.5	817	328	385	100	132	115	80	710	480	354	290	320	4-M16x300L	150	300
65×50-200	65	50	112M	3.7	1011	382	500	125	160	150	80	900	600	410	350	380	4-M20x250L	200	250
80×65-200	80	65	132S	5.5	1088	444	500	140	160	170	80	1000	660	410	400	430	4-M20x250L	200	250
100×80-200	100	80	132M	7.5	1126	482	500	1740	180	170	95	1000	660	450	400	430	4-M20x250L	200	250
125×100-250	125	100	180M	19	1311	647	500	160	225	205	110	1250	840	570	490	530	4-M20x250L	200	250
150×125-315	150	125	180L	22	1369	685	530	180	250	205	110	1250	840	620	490	530	4-M20x250L	200	250
150×125-315	150	125	225S	45	1521	817	530	170	280	230	110	1400	940	705	550	600	4-M20x250L	200	250
200×150-315	200	150	250M	75	1768	894	670	200	315	270	130	1600	1080	800	670	730	4-M20x250L	200	250

Note: *. Dimensions are in mm.

*. The content of this catalogue is to change without notice.

● Parts List and Materials



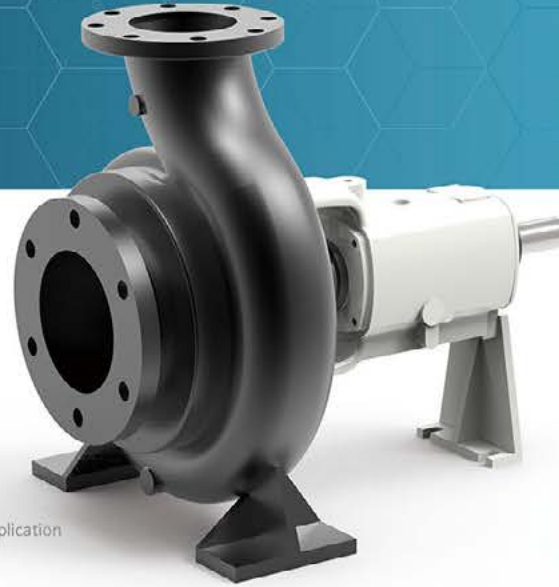
No	Name of part	Material	
1	Casing	GCD450	SSC13
2	Impeller	SSC13	SSC13
6	Shaft	SM45C	STS304
11	Stuffing Box Cover	SSC13	SSC13
13	Packing	TEFLON	TEFLON
14	Packing Sleeve	STS304	STS304
16	Inboard Bearing	STEEL	STEEL
17	Packing Gland	GC200	SSC13
18	Outboard Bearing	STEEL	STEEL
19	Frame	GC200	GC200
29	Lantern Ring	BC6	SSC13
35	Inboard Bearing Cover	GC200	GC200
37	Outboard Bearing Cover	GC200	GC200
40	Deflector	NBR	NBR
61	Front Plate	SSC13	SSC13
71	Adapter	GC200	GC200
89	Oil Seal	NBR	NBR

Note: *. Other Materials are available on request

ISO Standard Paper Stock Process Pumps



NP



Applications

- Chemical industry
- Food industry
- Paper industry
- Industries waste water

Feature

- Non-clog
- Completely standardization for wide application
- Foot support and back pull-out design
- Heavy and sturdy construction
- Compliance with ISO 2858.
- High Interchangeability
- Good efficiency
- Low NPSHr.

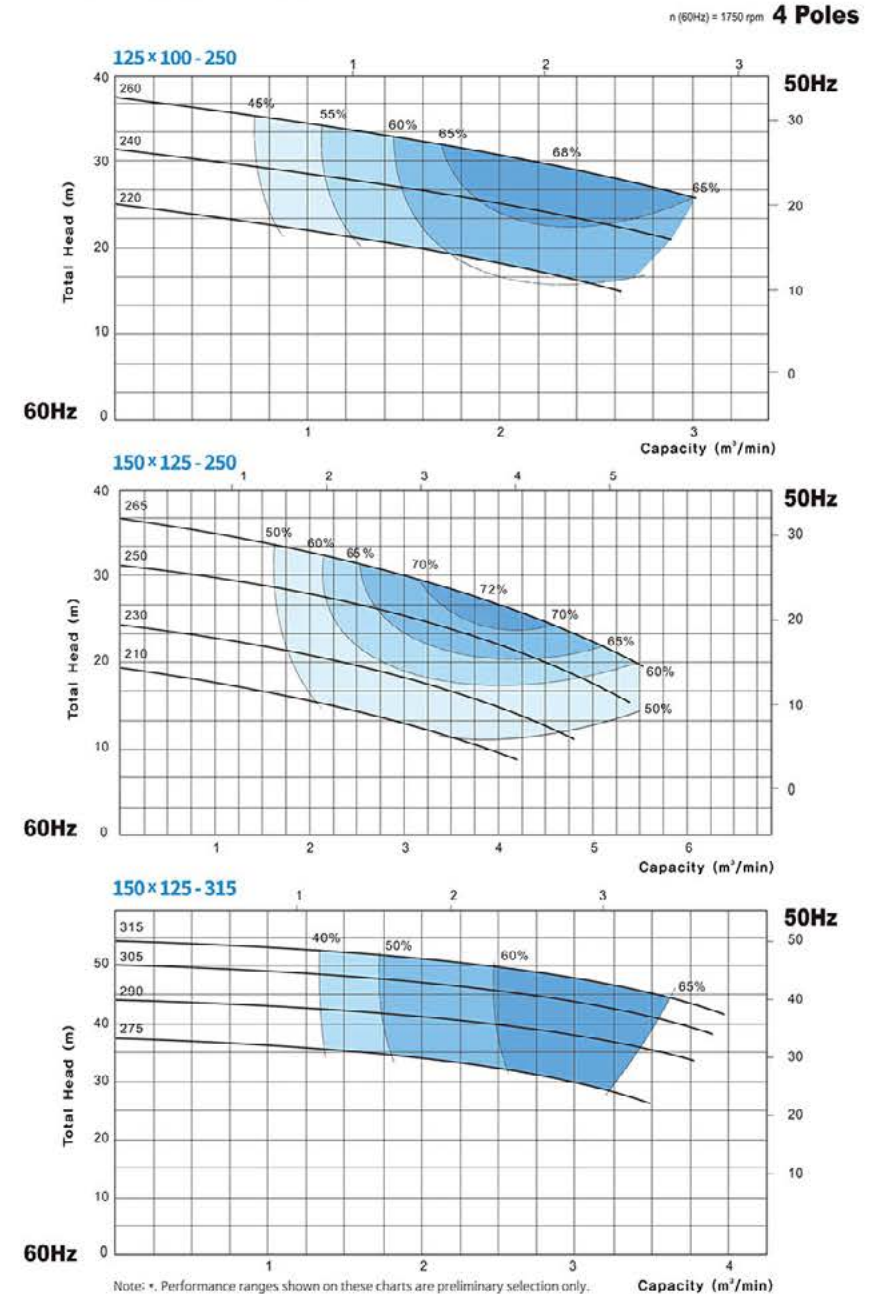
Ratings

Capacity	Up to 12m ³ /min (3,170 US GPM)
Head	Up to 40m (131ft)
Discharge Pressure	Up to 16 kgf/cm ² (227 PSIG)
Allowable Suction Pressure	Up to 9 kgf/cm ² (128 PSIG)
Revolution 60Hz (50Hz)	1750 or 3550 min ⁻¹ (1450 or 2950min ⁻¹)
Rotation	Clockwise viewed from coupling end
Temperature Stainless Steel	-50°C ~ 177°C (-58°F ~ 350°F)
Temperature Cast Iron	-20°C ~ 150°C (-4°F ~ 302°F)
Nozzle Rating	KS 10 kgf/cm ²
Nozzle Facing	Steel : RF, Iron : FF
Nozzle Location	End Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal

Pulp & Paper

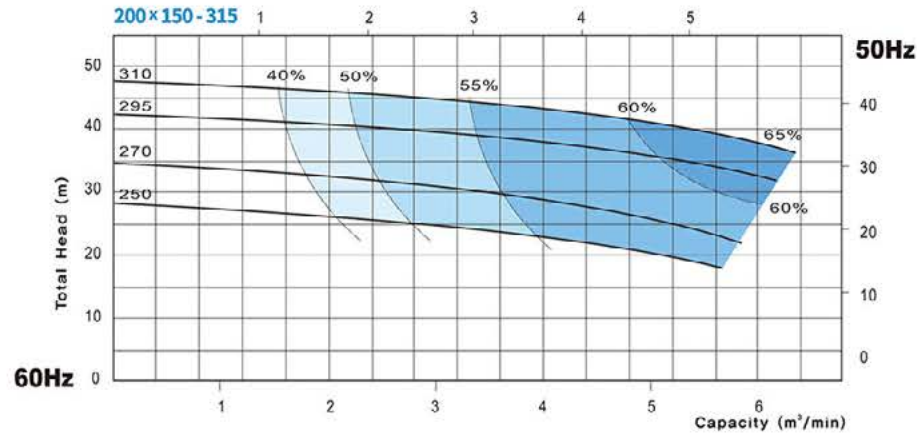
- Paper stock thru 6% consistency
- Black liquor to 68% solids
- Hydropulper and broke service
- Low NPSH digester circulation
- Blow tank to screens
- Primary screens rejects
- High-density chlorine tower to washer

Performance Curve

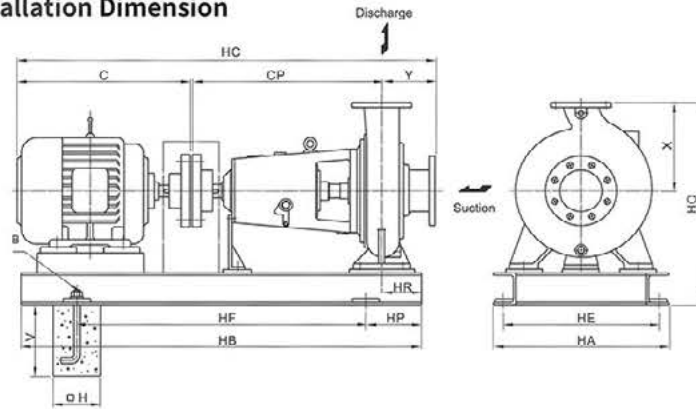


Model. NP

● Performance Curve



● Installation Dimension

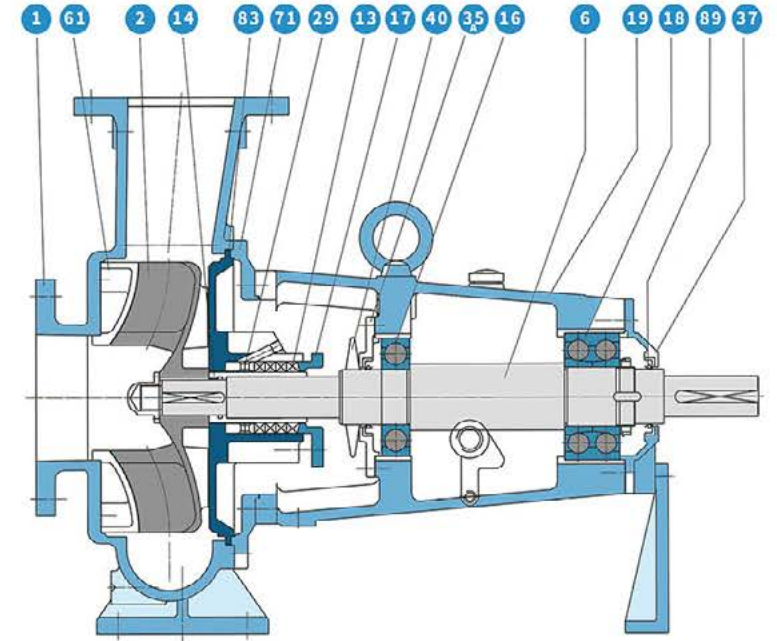


Spec	Pump and Motor								Baseplate						Anchor Bolt				
	Suc	Dis	Frame	KW	HC	C	CP	Y	X	HP	HR	HB	HF	HO	HE	HA	B	H	V
1210-250	125	100	160L	15	1401	637	600	160	280	205	100	1250	840	625	440	480	4-M20x315L	180	315
1512-250	150	125	200M	30	1492	708	630	180	315	230	100	1400	940	710	440	480	4-M20x315L	180	315
1512-315	150	125	225S	45	1661	817	670	170	355	230	120	1400	940	780	490	530	4-M20x315L	180	315
2015-315	200	150	250M	75	1793	894	695	200	400	270	120	1600	1060	885	490	530	4-M20x315L	180	315

Note: *, Dimensions are in mm.
 *, The content of this catalogue is to change without notice.

Model. NP

● Parts List and Materials



No	Name of part	Material	
1	Casing	GCD450	SSC13
2	Impeller	SSC13	SSC13
6	Shaft	SM45C	STS304
11	Stuffing Box Cover	SSC13	SSC13
13	Packing	TEFLON	TEFLON
14	Packing Sleeve	STS304	STS304
16	Inboard Bearing	STEEL	STEEL
17	Packing Gland	GC200	SSC13
18	Outboard Bearing	STEEL	STEEL
19	Frame	GC200	GC200
29	Lantern Ring	BC6	SSC13
35A	Inboard Bearing Cover	GC200	GC200
37	Outboard Bearing Cover	GC200	GC200
40	Deflector	NBR	NBR
61	Front Plate	SSC13	SSC13
71	Adapter	GC200	GC200
89	Oil Seal	NBR	NBR

Note: *, Other Materials are available on request

Horizontal Hydro-solids Pumps

P



Applications

- Pulp and paper
- Waste treatment
- Food processing
- Agriculture
- Manufacturing process

Feature

- Non-clog
- Back pull-out design
- Thick casing and impeller
- Good efficiency

Ratings

Capacity	Up to 60m ³ /min (15,850 US GPM)
Head	Up to 85m (278ft)
Discharge Pressure	Up to 16 kgf/cm ² (227 PSIG)
Allowable Suction Pressure	Up to 9 kgf/cm ² (128 PSIG)
Revolution 60Hz (50Hz)	1750 or 3550 min ⁻¹ (1450 or 2950min ⁻¹)
Rotation	Clockwise viewed from coupling end
Temperature Stainless Steel	-50°C -177°C (-58°F -350°F)
Temperature Cast Iron	-20°C -150°C (-4°F -302°F)
Nozzle Rating	KS 10 kgf/cm ²
Nozzle Facing	Steel : RF, Iron : FF
Nozzle Location	End Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal

Advantage

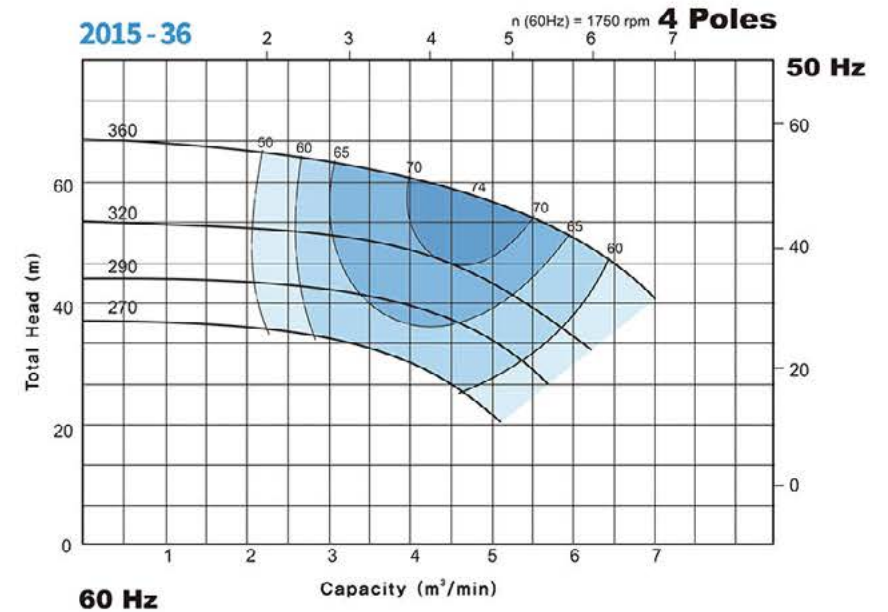
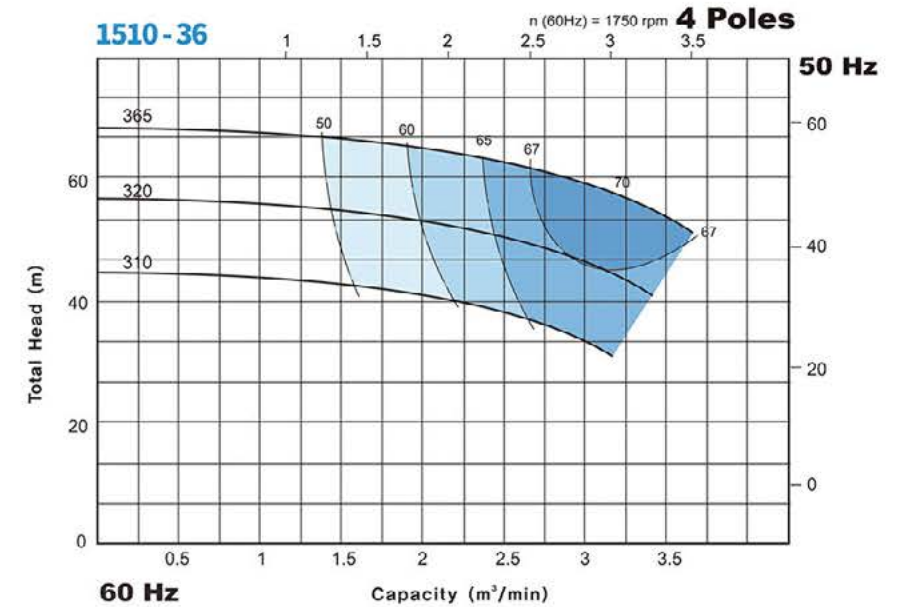


- Eliminates clogging problems encountered with conventional centrifugal pumps.

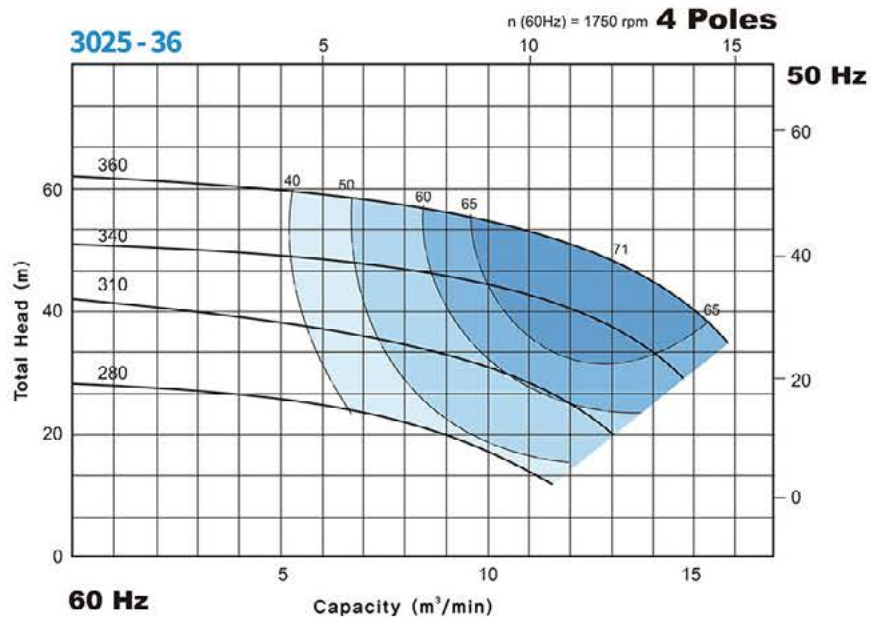
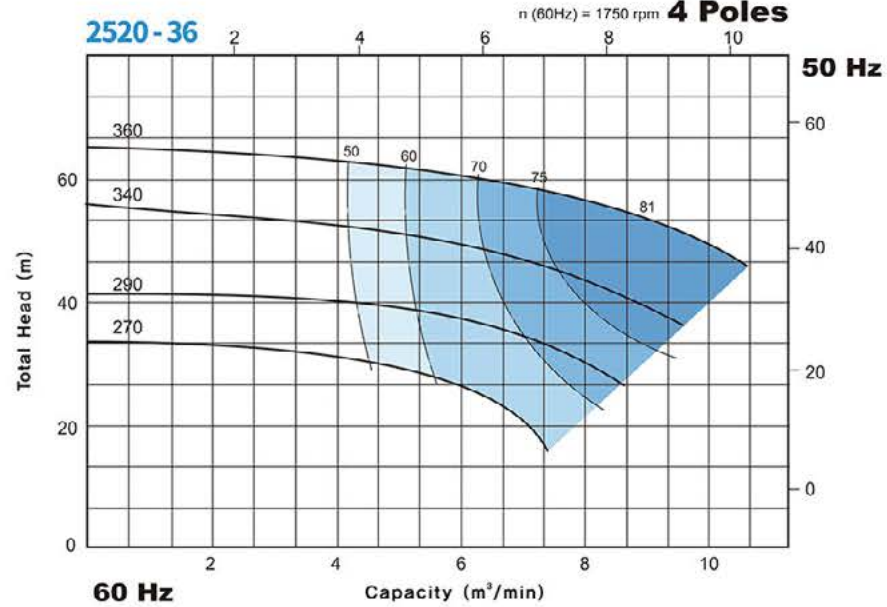


- The special impeller design handles large particle solids and fibrous/stringy materials.

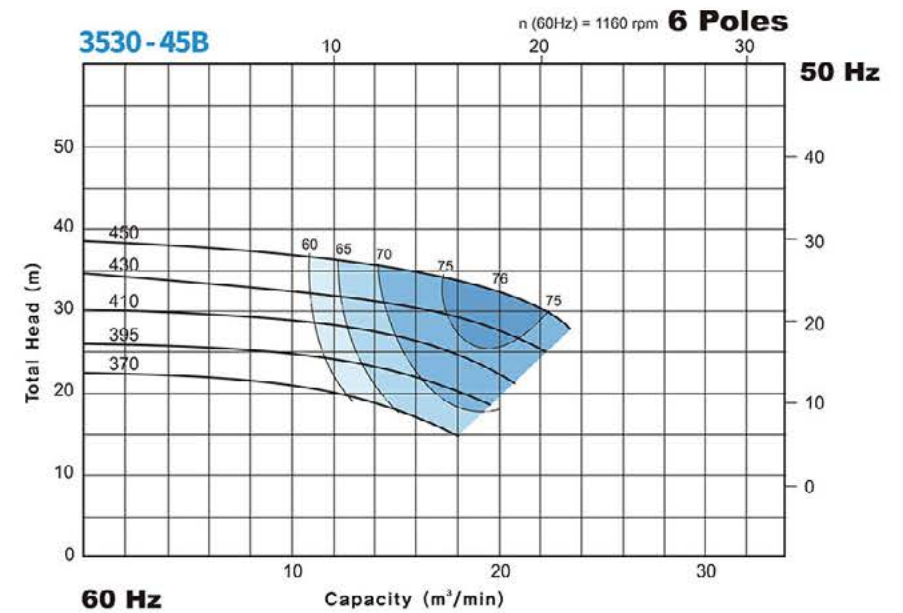
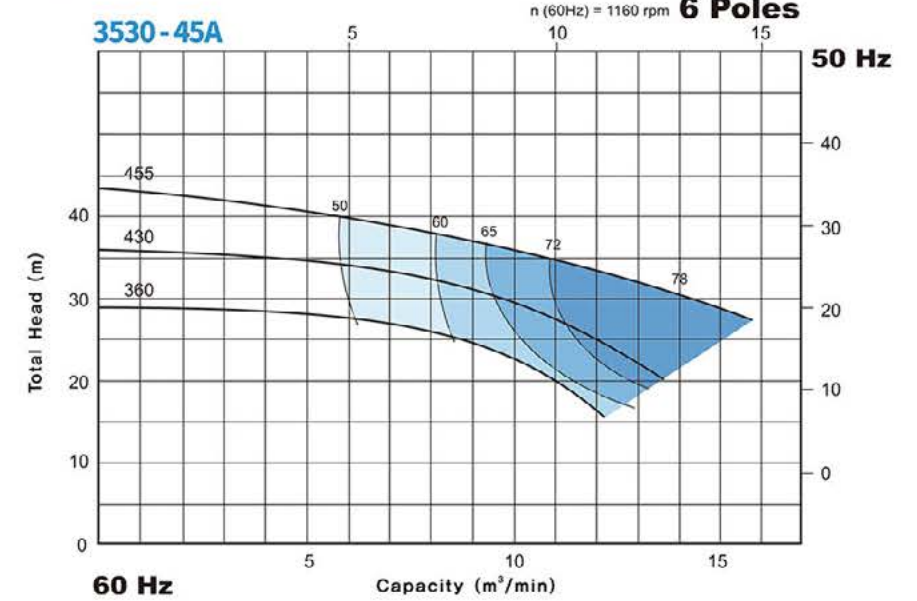
Performance Curve



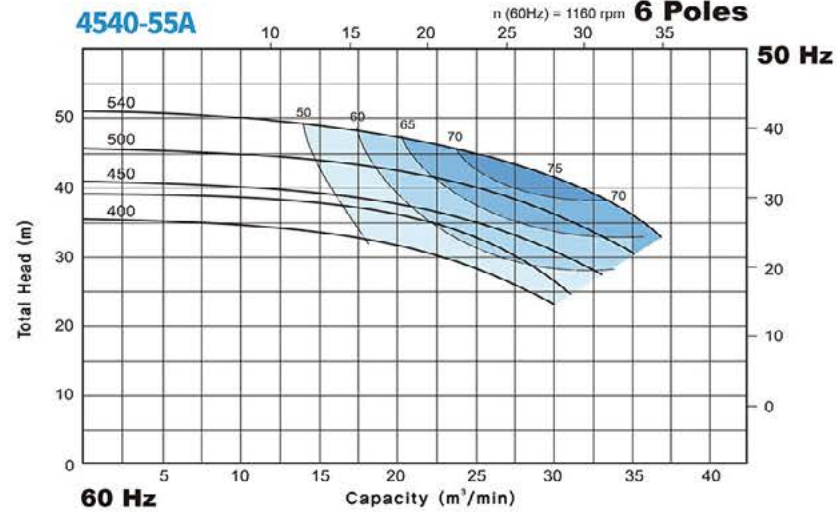
● Performance Curve



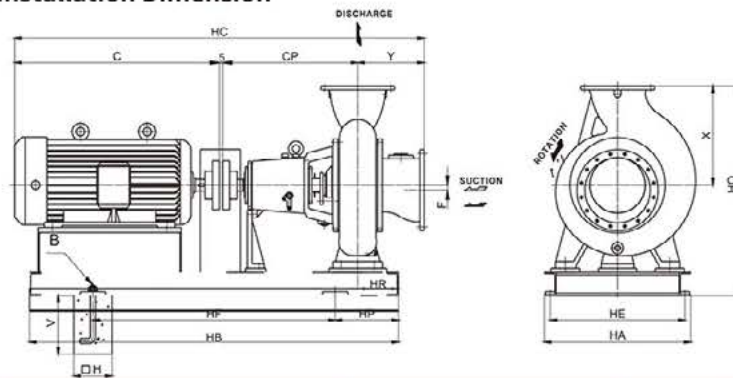
● Performance Curve



● Performance Curve



● Installation Dimension

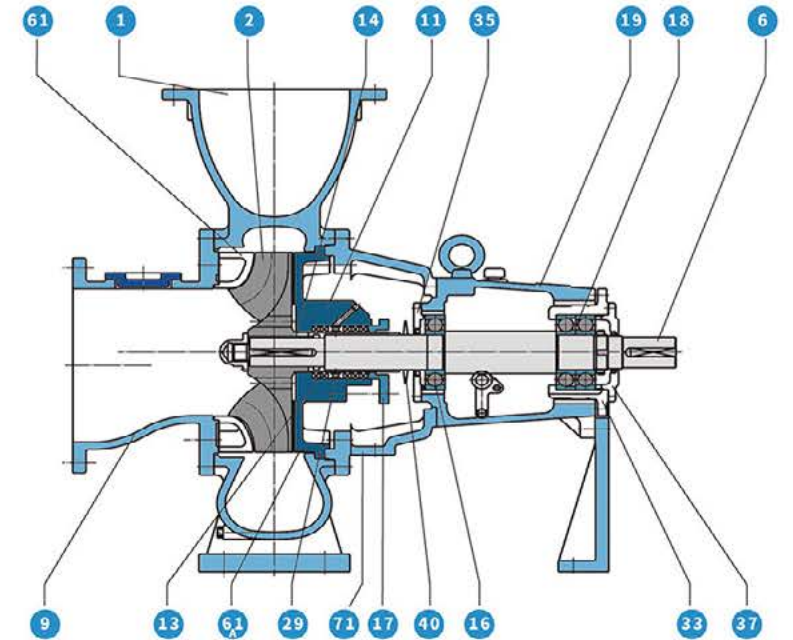


Spec Model	Pump and Motor				Baseplate								Anchor Bolt						
	Suc	Dis	Frame	kW	HC	C	CP	Y	X	HP	HR	HB	HF	HO	HE	HA	B	H	V
1510-360	150	100	225S	45	1012	817	790	300	355	255	80	1500	990	780	430	480	4-M20×315L	180	315
2015-360	200	150	250M	75	2034	894	795	340	400	270	90	1600	1060	885	540	600	4-M20×315L	180	315
2520-360	250	200	200L	37	1902	747	800	350	450	270	100	1600	1060	955	540	800	4-M20×315L	180	315
3025-360	300	250	250M	75	2359	894	800	400	500	270	120	1600	1060	1025	540	600	4-M20×315L	180	315
3530-450A	350	300	280L	150	1259	1154	800	400	600	325	170	1900	1250	1370	750	810	4-M20×315L	180	315
3530-450B	350	300	280L	150	2439	1154	880	400	600	340	170	2000	1320	1370	750	810	4-M20×315L	180	315
4540-550	450	400	5810L	300	3417	1717	1250	450	820	360	250	3000	1140×2	1170	1050	1110	6-M24×400L	230	400

Note: *, Dimensions are in mm.

*, The content of this catalogue is to change without notice.

● Parts List and Materials



No	Name of part	Material	
1	Casing	GCD450	SSC13
2	Impeller	SSC13	SSC13
6	Shaft	SM45C	STS304
9	Suction Cover	GCD450	SSC13
11	Stuffing Box Cover	SSC13	SSC13
13	Packing	TEFLON	TEFLON
14	Packing Sleeve	STS304	STS304
16	Inboard Bearing	STEEL	STEEL
17	Packing Gland	GC200	GC200
18	Outboard Bearing	STEEL	STEEL
19	Frame	GC200	GC200
29	Lantern Ring	BC6	SSC13
33	Bearing Housing	GC200	GC200
35	In Bearing Cover	GC200	GC200
37	Out Bearing Cover	GC200	GC200
40	Deflector	NBR	NBR
61	Front Plate	SSC13	SSC13
71	Adapter	GC200	GC200

Note: *, Other Materials are available on request

One Piece solid shaft Vertical Sump Pumps

GV



Applications

- Sump Drainage
- Sewage treatment
- General industry

Feature

- ✓ Heavy duty one-piece solid shaft
- ✓ Simple construction for easy maintenance interchangeability
- ✓ Completely standardization for high interchangeability
- ✓ Not need priming and foot valve
- ✓ Rugged, heavy duty construction

Ratings

Capacity	Up to 0.7 m ³ /min (184 US GPM)
Head	Up to 30m (98ft)
Revolution 60Hz	1750 min ⁻¹
Rotation	Clockwise (viewed from coupling end)
Temperature	-60°C (140°F)
Nozzle Rating	KS 10 Kg/ cm ² - FF
Nozzle Location	Side Discharge
Max. Pump length	1.8m (5.9ft)

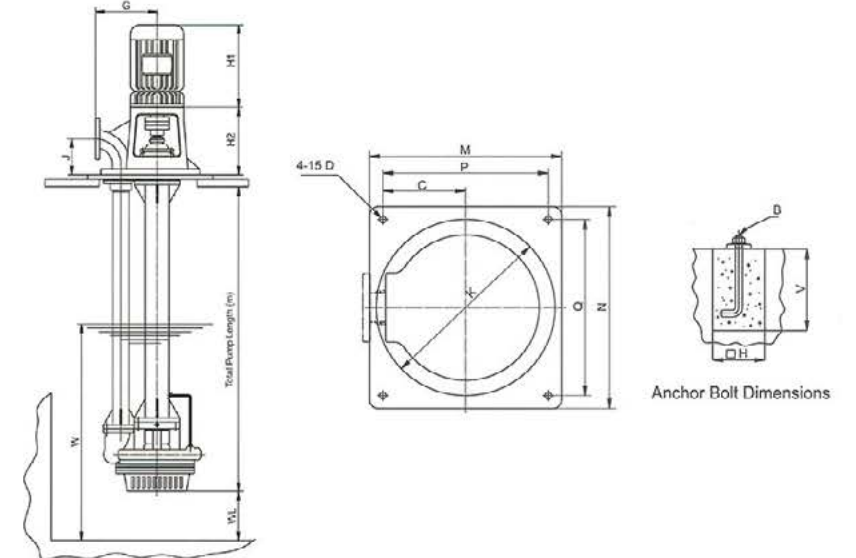
Specification

Spec Model	POWER	CAPACITY / HEAD							
		CAPACITY (m ³ /min)		HEAD (m)		CAPACITY (m ³ /min)		HEAD (m)	
GV5015	0.75	0.1	9	0.2	7	0.3	4		
GV5023	1.5	0.1	15	0.2	13.5	0.33	10		
GV6516	2.2	0.1	22	0.2	20	0.35	15		
GV6516	2.2	0.2	11	0.3	10	0.4	8		
GV6526	2.2	0.2	16.5	0.3	15	0.45	12.5		
GV6526	3.7	0.2	23.5	0.4	20	0.5	18		
GV8015	2.2	0.3	10	0.45	9	0.6	8		
GV8015	3.7	0.3	19	0.5	17	0.7	14		
GV8023	5.5	0.3	23	0.6	20	0.8	16		

Note: The content of this catalogue is to change without notice.



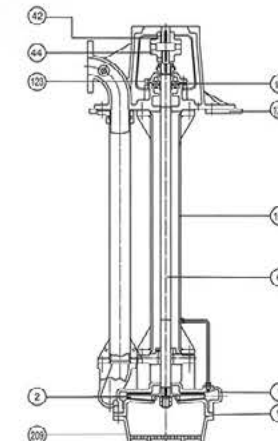
Installation Dimension



Spec Model	Pump and motor							Baseplate					Anchor Bolt				
	Frame	kW	H1	H2	WL	G	J	W	M	P	C	Q	N	K	B	H	V
5023	112S	2.2	315	253	100	230	130	370	430	370	185	400	460	400	4-M12x200L	120	200
6526	112M	3.7	340	265	100	240	160	370	450	390	205	420	490	420	4-M12x200L	120	200
8023	132S	5.5	382	265	100	250	160	370	450	390	205	440	490	420	4-M12x200L	120	200

Note: *, Dimensions are in mm.
*, The content of this catalogue is to change without notice.

Parts List and Materials



No	Name of part	MATERIAL
1	Casing	GC200
2	Impeller	GC200
6	Shaft	SM45C
9	Suction Cover	GC200
18	Bearing	STEEL
42	Motor Coupling	GC200
44	Pump Coupling	GC200
101	Column Pipe	SPPS38
123	Bearing Cover	GC200
129	Sole Plate	GC200
209	Strainer	GC200

Note: *, Other Materials are available on request

Horizontal Screw Pumps

SC



Applications

- Waste treatment
- Food transfer
- Paper stock

Feature

- No tangles in vinyl or fibers
- High efficiency, low NPSHr.
- Suitable for transferring high concentration pulp liquid and sludge
- It is easy to control the flow rate because there is little change in the flow rate relative to the change of the head

Ratings

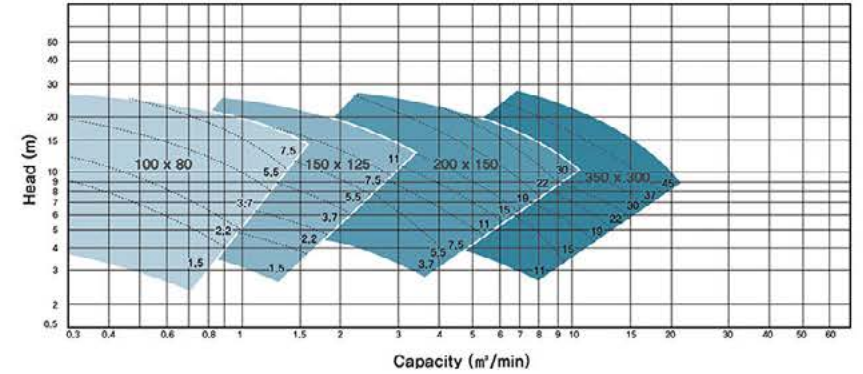
Capacity	0.2~30 m ³ /min (52 ~ 7,925 US GPM)	Temperature	~80°C (176°F)
Head	3~30m (9.8ft - 98ft)	Nozzle Rating	KS 10 Kgf/cm ² - FF
Discharge Pressure	Up to 10 kgf/cm ² (142 PSIG)	Nozzle Location	End Suction : Top Discharge
Revolution 60Hz	1750 min ⁻¹ & pulley type	Seals	Conventional Packing or Mechanical Seal
Rotation	Clockwise (viewed from coupling end)		

Mixed liquid specific gravity

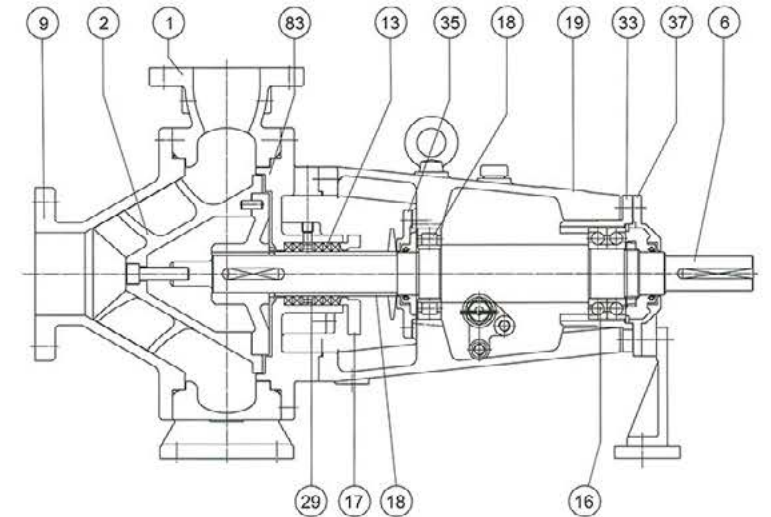
Head (m)	Mixed liquid specific gravity							
	5%	10%	15%	20%	25%	30%	40%	50%
1.5	1.03	1.05	1.08	1.10	1.13	1.15	1.20	1.25
2.0	1.02	1.03	1.05	1.07	1.09	1.11	1.15	1.2
2.5	1.05	1.10	1.15	1.20	1.25	1.30	1.40	1.5
3.0	1.03	1.05	1.08	1.11	1.14	1.17	1.25	1.33
3.5	1.06	1.15	1.23	1.30	1.38	1.45	1.60	1.75
4.0	1.03	1.06	1.10	1.14	1.18	1.22	1.32	1.43
4.5	1.10	1.20	1.30	1.40	1.50	1.60	1.80	2.0
5.0	1.03	1.07	1.11	1.15	1.20	1.25	1.36	1.5
6.0	1.14	1.25	1.38	1.50	1.63	1.75	2.0	2.25
7.0	1.04	1.09	1.12	1.17	1.22	1.27	1.44	1.56
8.0	1.14	1.30	1.45	1.60	1.75	1.90	2.2	2.5
9.0	1.08	1.08	1.13	1.18	1.23	1.29	1.43	1.6
10.0	1.18	1.35	1.53	1.70	1.88	2.05	2.4	2.75
11.0	1.04	1.08	1.13	1.18	1.24	1.30	1.45	1.64
12.0	1.21	1.40	1.60	1.80	2.0	2.20	2.6	3.0
13.0	1.05	1.09	1.14	1.19	1.25	1.32	1.47	1.67
14.0	1.25	1.50	1.75	2.0	2.25	2.50	3.0	-
15.0	1.04	1.08	1.14	1.2	1.26	1.33	1.5	1.71
16.0	1.30	1.60	1.90	2.2	2.50	2.80	-	-
17.0	1.04	1.09	1.15	1.21	1.27	1.35	1.52	1.75
18.0	1.36	1.70	2.05	2.4	2.75	-	-	-
19.0	1.05	1.10	1.15	1.21	1.28	1.36	1.54	1.78

* Most used range

Installation Dimension



Parts List and Materials



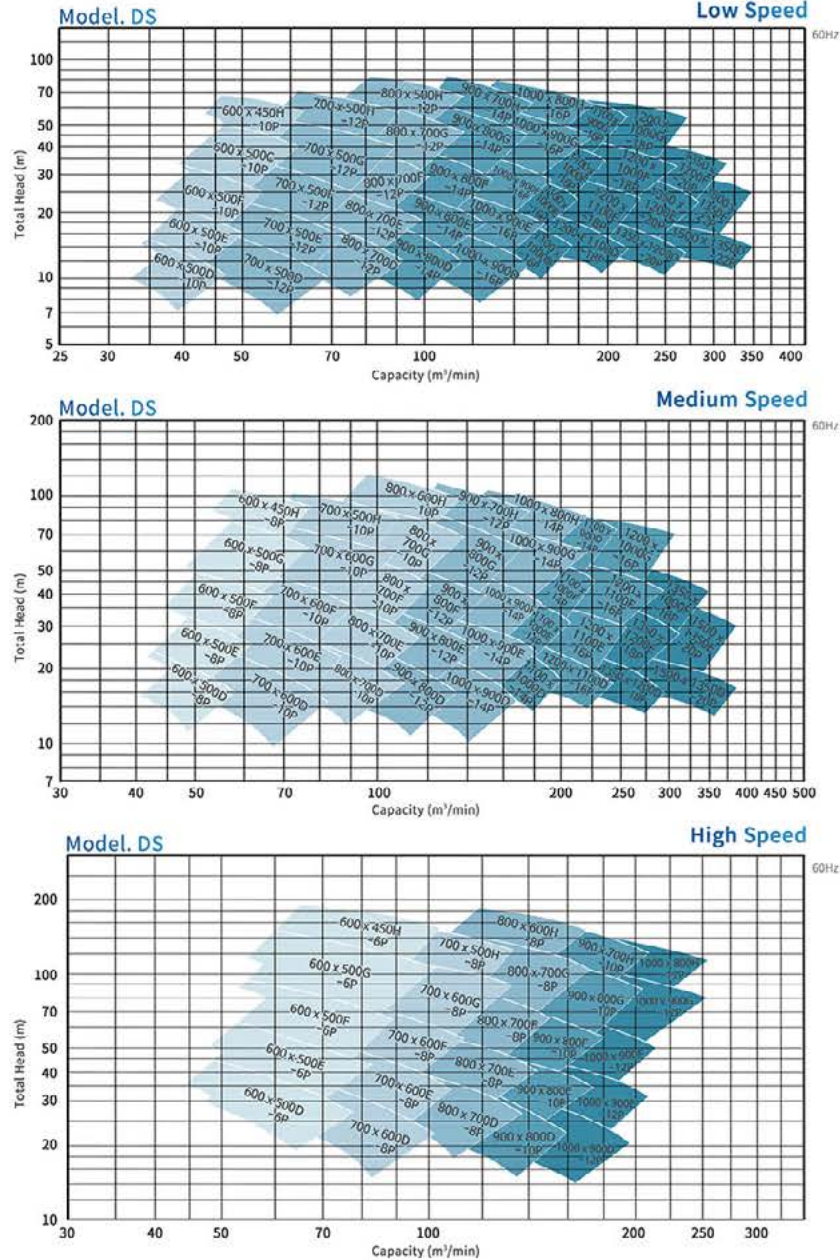
No	Name of part	MATERIAL	No	Name of part	MATERIAL
1	Casing	GC200 SSC13	17	Packing Gland	GC200 SSC13
2	Impeller	SSC13 SSC13	18	Inboard Bearing	STEEL STEEL
6	Shaft	SM45C STS304	19	Frame	GC200 GC200
9	Suction Cover	GC200 SSC13	29	Lantern Ring	BC6 SSC13
13	Packing	TEFLON TEFLON	33	Bearing Housing	GC200 GC200
14	Shaft Sleeve	BC6 STS304	35	Inboard Bearing Cover	GC200 GC200
16	Outboard Bearing	STEEL STEEL	37	Outboard Bearing Cover	GC200 GC200
			83	Stuffing Box	GC200 SSC13

Note : *. Other Materials are available on request

Model. DS/DSN

● Selection Charts

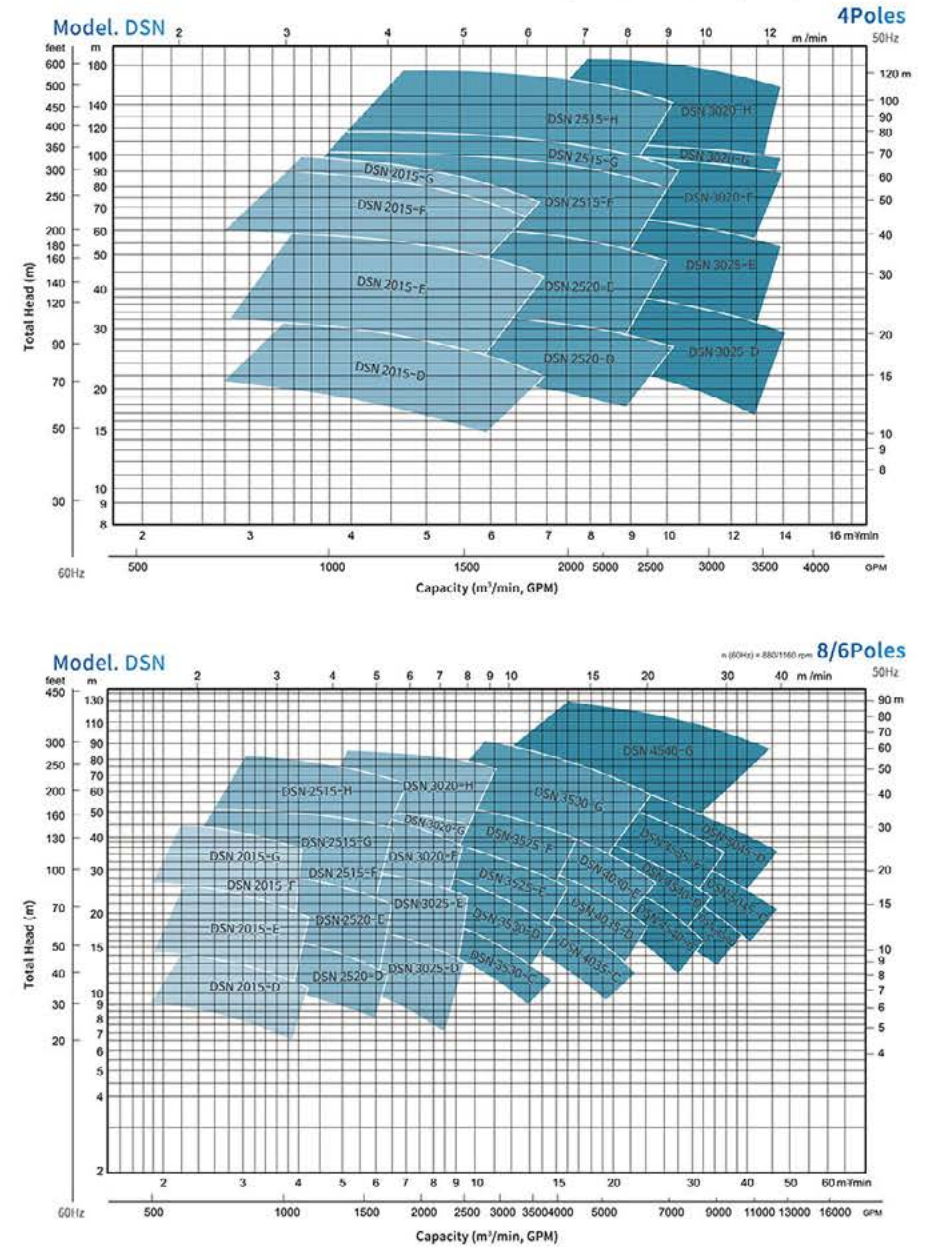
Note: * Performance ranges shown on these charts are preliminary selection only.



Model. DS/DSN

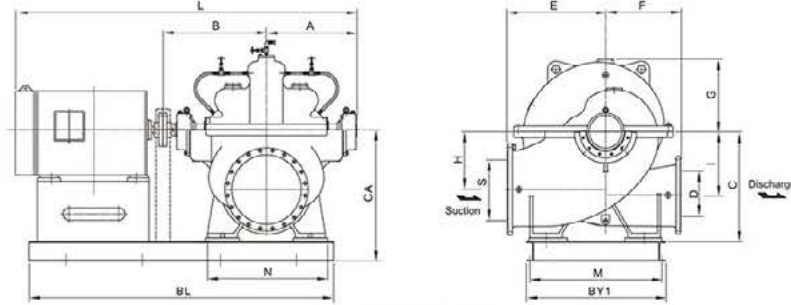
● Selection Charts

Note: * Performance ranges shown on these charts are preliminary selection only.



Model. DS/DSN

● Installation Dimension



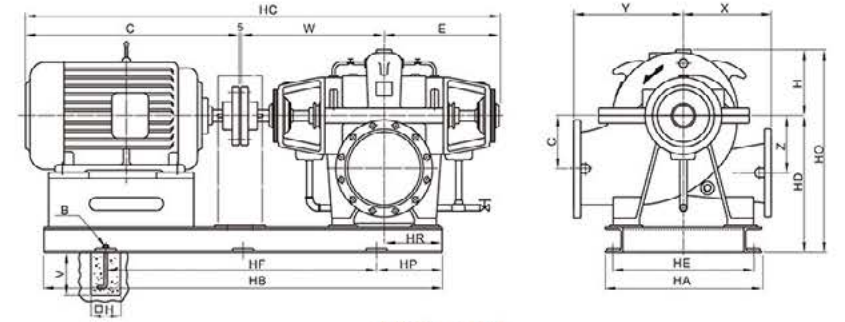
MODEL : DS

MODEL	SØ	DØ	E	F	H	I	C	G	A	B	CA	M	N	BY1	BL	L
600x500D	600	500	850	650	500	500	940	570	840	1020	1170	1000	1200	1130	3050	3400
600x500E	600	500	850	650	500	500	940	570	924	1170	1000	1200	1130	3150	3500	
600x500F	600	500	850	650	500	550	940	610	914	1125	1170	1000	1200	1130	3300	3700
600x500G	600	500	850	700	500	600	940	670	917	1150	1170	1000	1200	1130	3500	3900
600x450H	600	450	1000	750	550	700	970	750	1108	1325	1200	1100	1200	1230	3900	4200
700x600D	700	600	950	750	600	600	1100	670	964	1165	1330	1100	1200	1230	3350	3700
700x600E	700	600	950	750	600	600	1100	670	994	1205	1330	1100	1200	130	3400	3800
700x600F	700	600	950	750	600	650	1100	710	957	1190	1330	1100	1200	1230	3600	4000
700x600G	700	600	950	750	600	700	1100	775	1138	1355	1330	1100	1200	1230	3800	4200
700x500H	700	500	1100	800	650	820	1150	860	1170	1385	1380	1200	1200	1330	4100	4500
800x700D	800	700	1050	850	630	630	1160	720	1024	1225	1390	1300	1400	1430	3500	3900
800x700E	800	700	1050	850	630	630	1160	720	1054	1265	1390	1300	1400	1430	3600	4000
800x700F	800	700	1050	850	630	700	1160	770	987	1220	1390	1300	1400	1430	3800	4200
800x700G	800	700	1050	900	630	760	1160	840	1210	1425	1390	1300	1400	1430	4000	4400
800x600H	800	600	1250	900	710	890	1260	950	1248	1470	1490	1400	1400	1540	4250	4700
900x800D	900	800	1200	950	740	740	1340	835	1119	1330	1630	1400	1600	1540	-	-
900x800E	900	800	1200	950	740	740	1340	835	1122	1355	1630	1400	1600	1540	-	-
900x800F	900	800	1200	950	740	800	1340	890	1248	1465	1630	1400	1600	1540	-	-
900x800G	900	800	1200	1000	740	880	1340	970	1318	1540	1630	1400	1600	1540	-	-
900x700H	900	700	1400	1000	820	1040	1440	1090	1389	1610	1730	1600	1600	-	-	-
1000x900D	1000	900	1400	1100	850	850	1500	940	1222	1455	1790	1600	1700	1740	-	-
1000x900E	1000	900	1400	1100	850	850	1500	940	1413	1630	1790	1600	1700	1740	-	-
1000x900F	1000	900	1400	1100	850	930	1500	1010	1345	1560	1790	1600	1700	-	-	-
1000x900G	1000	900	1400	1200	850	1000	1500	1100	1439	1660	1790	1600	1700	-	-	-
1000x800H	1000	800	1600	1200	930	1170	1600	1240	1465	1685	1890	1800	1700	-	-	-
1100x1000D	1100	1000	1500	1150	900	900	1650	1010	1390	1590	-	1900	2300	-	-	-
1100x1000E	1100	1000	1500	1150	900	900	1650	1010	1490	1660	-	1900	2300	-	-	-
1100x1000F	1100	1000	1500	1150	900	1000	1650	1080	1540	1740	-	1900	2200	-	-	-
1100x1000G	1100	1000	1500	1250	900	1050	1650	1190	1610	1810	-	1900	2200	-	-	-
1100x900H	1100	900	1700	1250	1000	1250	1700	1320	1670	1870	-	2000	2200	-	-	-
1200x1100D	1200	100	1700	1300	1000	1000	1880	1130	1620	1820	-	2000	2500	-	-	-
1200x1100E	1200	1100	1700	1300	1000	1000	1880	1130	1690	1890	-	2000	2500	-	-	-
1200x1100F	1200	1100	1700	1300	1000	1100	1880	1210	1660	1860	-	2000	2400	-	-	-
1200x1000G	1200	1000	1700	1400	1000	1200	1880	1330	1720	1920	-	2000	2400	-	-	-
1350x1200D	1350	1200	1900	1450	1100	1100	2100	1150	1740	1940	-	2300	2700	-	-	-
1350x1200E	1350	1200	1900	1450	1100	1100	2100	1150	1810	2010	-	2300	2700	-	-	-
1350x1200F	1350	1200	1900	1450	1100	1200	2100	1340	1840	2020	-	2300	2600	-	-	-
1500x1350D	1500	1350	2100	1600	1200	1200	2300	1400	1900	2100	-	2600	2950	-	-	-
1500x1350E	1500	1350	2100	1600	1200	1200	2300	1400	1630	1830	-	2600	2950	-	-	-

*) 1) L, BL, BY2, CA Dimensions vary according to motor type and output.
2) Above dimension is approximate

Model. DS/DSN

● Parts List and Materials



MODEL : DSN

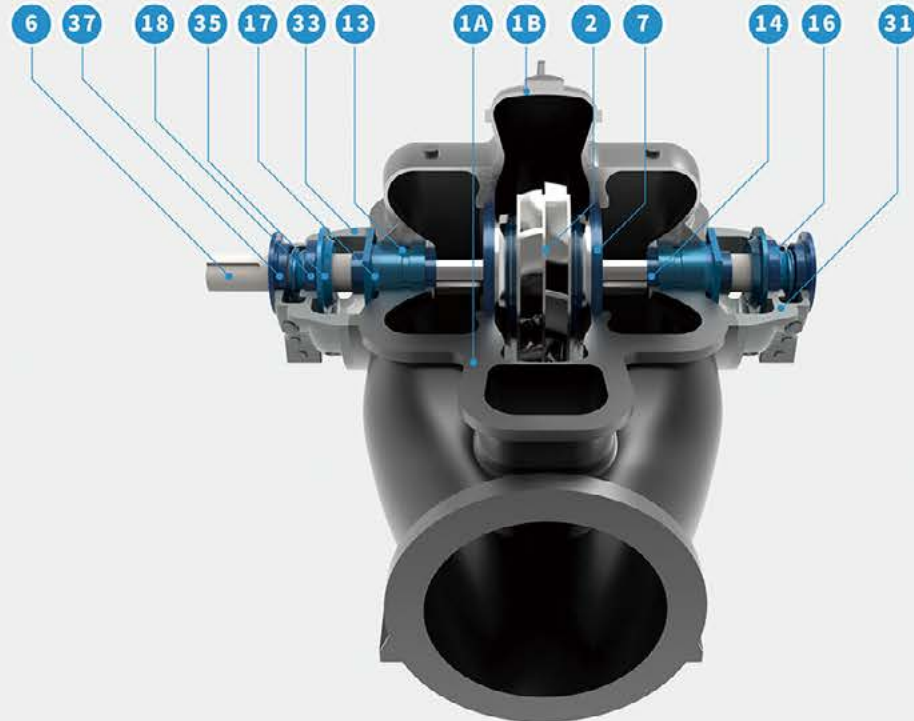
Unit : mm (inch)

RPM	MODEL	Pump and Motor													Baseplate					Anchor Bolt				
		Suc	Dis	Frame	Kw	HC	C	W	E	Y	X	S	HD	Z	HR	HF	HP	HB	HE	HA	HO	B	H	V
1750 rpm	2015D	200	150	180L	30	1775	708	590	475	375	280	180	726	200	230	920	240	1400	450	480	455	4-M20x315L	200	315
	2015E	200	150	200L	45	1926	791	620	510	375	300	200	810	230	230	990	255	1500	430	480	545	4-M20x315L	200	315
	2015F	200	150	250M	93	2139	939	655	540	425	355	290	920	270	260	1060	270	1600	540	600	620	4-M20x315L	200	315
	2015G	200	150	280M	132	2268	1068	655	540	425	355	290	920	270	260	1200	300	1800	540	600	620	4-M20x315L	200	315
	2520D	250	200	225S	55	1942	812	620	510	425	355	210	885	230	200	1060	270	1600	540	600	620	4-M20x315L	200	315
	2520E	250	200	280M	93	2134	939	655	540	425	355	210	905	255	280	1120	200	1700	540	600	620	4-M20x315L	200	315
	2515F	250	150	280M	132	2378	1068	725	580	500	400	210	1010	300	270	1200	300	1800	670	730	670	4-M20x315L	200	315
	2515G	250	150	280L	180	2678	1368	725	580	500	400	210	1010	300	270	1600	360	2120	670	730	670	4-M20x315L	200	315
	3025D	300	250	250S	75	2139	939	655	540	500	400	240	1010	280	270	1060	270	1600	670	730	670	4-M20x315L	200	315
	3025E	300	250	280M	132	2378	1068	725	580	500	400	250	995	285	280	1250	325	1900	670	730	670	4-M20x315L	200	315
	3020F	300	200	5809S	220	2970	1590	760	615	530	425	240	1120	325	280	820G	380	2360	670	730	760	6-M24x400L	200	400
	3020G	300	200	5810S	300	3072	1692	760	615	530	425	240	1120	325	280	890G	380	2900	670	730	760	6-M24x400L	200	400
3020H	300	200	6810S	450	3521	2021	820	675	630	500	280	1230	345	350	1140G	380	3000	730	810	800	6-M24x400L	200	400	
3530D	350	300	250S	75	2249	939	725	590	550	450	290	1091	315	300	1200	300	1600	670	730	720	4-M20x315L	200	315	
3525F	350	250	280L	180	2868	1368	820	675	630	475	280	1300	370	350	1600	360	2240	750	810	800	6-M24x400L	200	400	
3525G	350	250	280L	180	2868	1368	820	675	670	560	375	1385	400	350	890G	380	2500	830	890	900	6-M24x400L	200	400	
4035D	400	350	280S	93	2823	1668	840	710	630	475	325	1285	385	390	1000G	380	2120	750	810	860	6-M24x400L	200	400	
4035E	400	350	280M	110	2282	1668	820	689	545	442	375	1365	375	350	890G	380	2100	830	890	900	6-M24x400L	200	400	
4540D	450	400	280L	150	2983	1668	875	735	680	550	365	1390	400	400	820G	380	2360	930	990	900	6-M24x400L	200	400	
4540G	450	400	8911L	300	3879	2174	980	720	780	710	400	1600	500	380	1060G	370	3380	820	880	1030	8-M24x400L	200	400	
5045C	500	450	280L	150	3098	1368	935	790	850	600	425	1600	480	430	1040G	430	2800	1080	1110	1030	6-M24x400L	200	400	
5045D	500	450	280L	180	3245	1368	1010	865	710	650	425	1600	460	530	1140G	360	3000	1080	1110	1030	8-M24x400L	200	400	

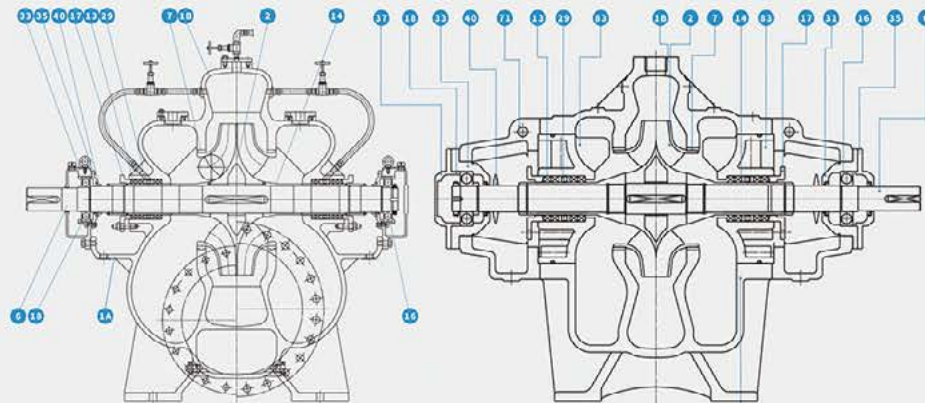
Note: Dimensions are in mm / inch
The content of this catalogue is to change without notice.

Model. DS/DSN

● Parts List and Materials



DS Model. 3D drawing



DS Model.

2D drawing

DSN Model.

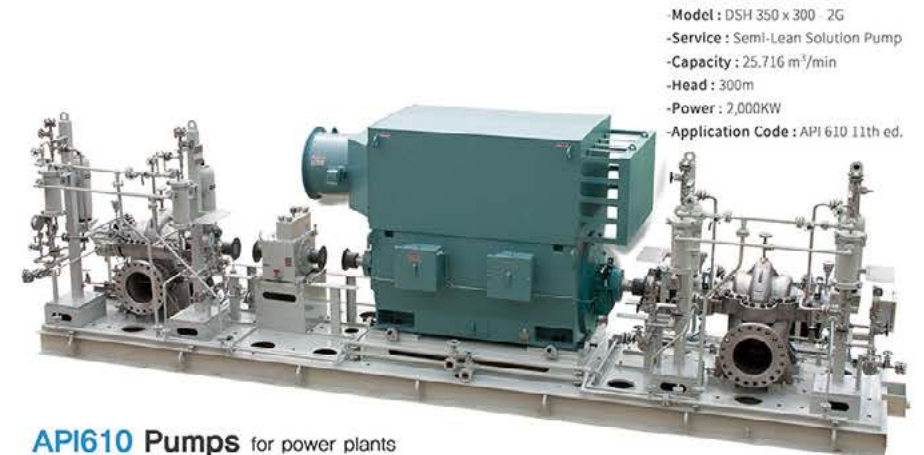
Model. DS/DSN

● Parts List and Materials

No	Name of part	Material		
1A	Lower Casing	SSC13	GC200	GC200
1B	Upper Casing	SSC13	GC200	GC200
2	Impeller	SSC13	GC200	BC6
6	Shaft	STS304	SM45C	SM45C
7	Casing Ring	SSC13	BC6	BC6
13	Packing	TEFLON	TEFLON	TEFLON
14	Shaft Sleeve	STS304	BC6	BC6
16	Inboard Bearing	STEEL	STEEL	STEEL
17	Packing Gland	SSC13	BC6	BC6
18	Outboard Bearing	STEEL	STEEL	STEEL
29	Lantern Ring	TEFLON	TEFLON	TEFLON
31	Inboard Bear. Housing	GC200	GC200	GC200
33	Outboard Bear. Housing	GC200	GC200	GC200
35	Inboard Bear. Cover	GC200	GC200	GC200
37	Outboard Bear. Cover	GC200	GC200	GC200
40	Deflector	NBR	NBR	NBR
71	Adapter	SSC13	SSC14	SSC13
83	Stuffing Box	SSC13	GC200	GC200

Note : *, Other Materials are available on request

● Photo Resources



API610 Pumps for power plants

Radial Split Between Bearing Pump

energy API CE

DHB



● Applications

- Petroleum Refinery
- Petrochemical Industry
- Other Chemical
- High Temperature / Pressure Services

● Feature

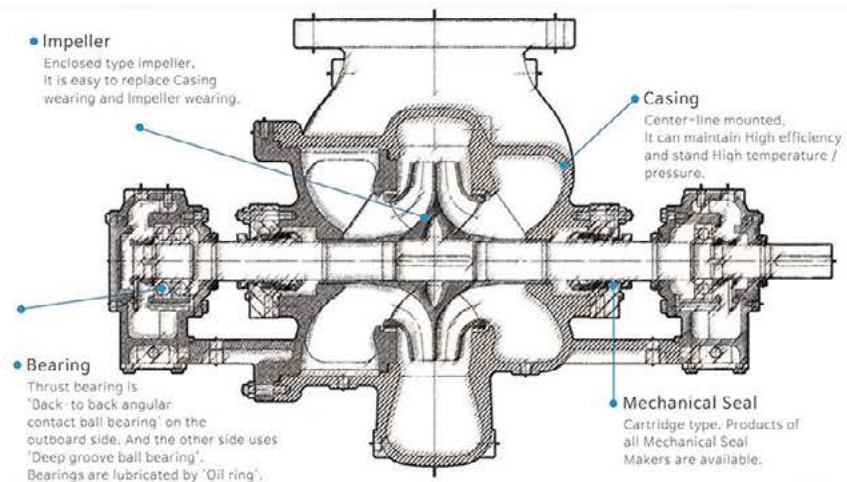
- ☑ Centerline supported and heavy duty design
- ☑ High efficiency
- ☑ Completely standardization for wide application
- ☑ API610 Latest edition is available on request
- ☑ API standard 610 (API Code : BB2)

● Ratings

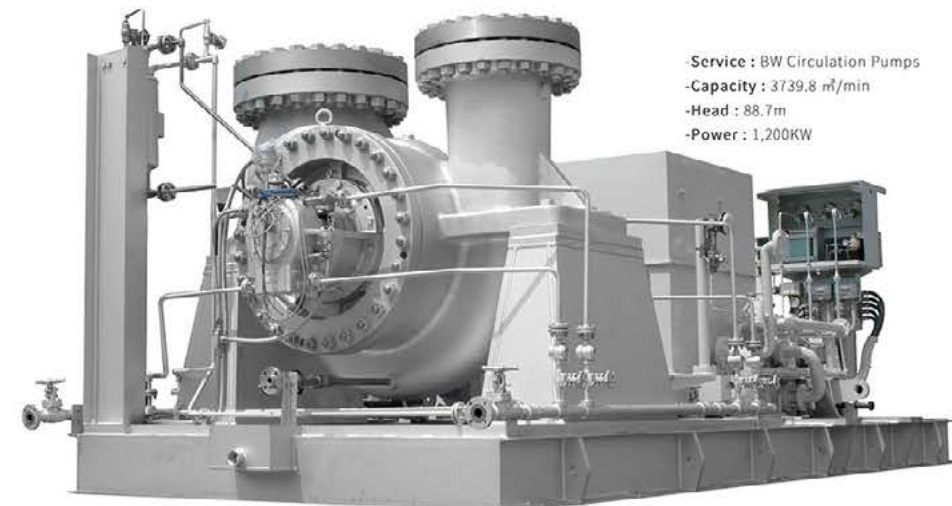
Capacity	Up to 100 m ³ /min (26,417 US GPM)
Head	Up to 550 m (1,804 ft)
Discharge Pressure	Up to 50 kgf/cm ² G (711 PSIG)
Allowable Suction Pressure	Up to 40 kgf/cm ² G (568 PSIG)
Impeller type	Enclosed
Temperature	-100°C ~ 460°C (-148°F ~ 860°F)
Flanges	ANSI, other standards also available
Location	Top Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal and Throttle bushing
Materials	According to API 610 Material code *API610 latest edition is available on request



● 2D Model Drawing



● Photo Resources

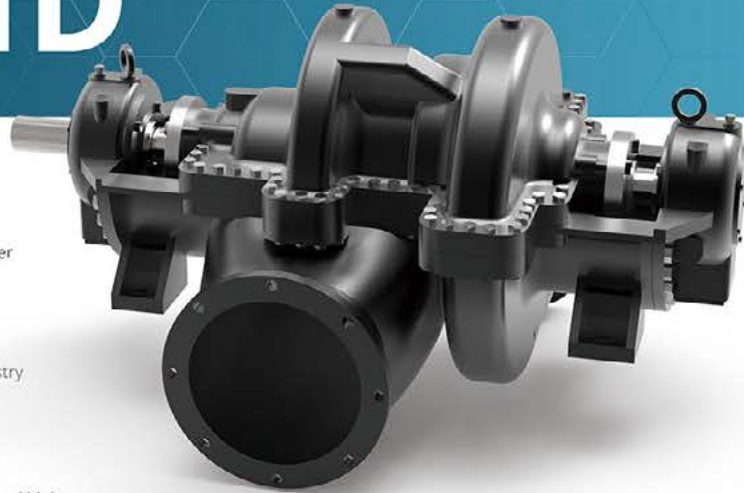


API610 Pumps for power plants

Double Suction Pumps Multi Stage Type

energy API CE

SMD



● Applications

- Water Supply
- Utilities cooling water
- Boiler circulation
- General Industries
- Petroleum refinery
- Petrochemical industry

● Feature

- ✓ Improved capacity and high pressure
- ✓ Assures axial balance :long-life, low-maintenance cost
- ✓ High efficiency, Heavy and sturdy construction
- ✓ Completely standardization for wide application
- ✓ API standard 610 (API Code : BB3)

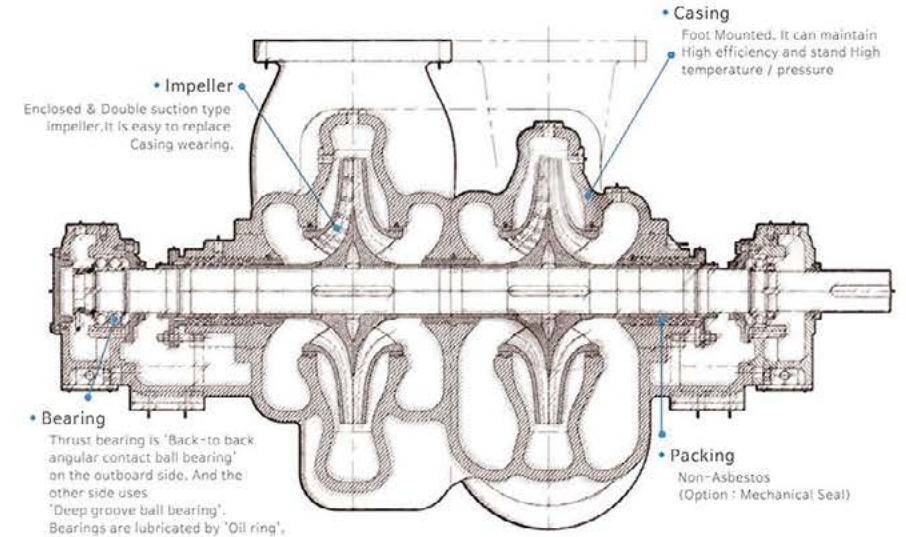
● Ratings

Capacity	Up to 35m ³ /min (9,246 US GPM)
Head	Up to 400m (1,312ft)
Discharge Pressure	Up to 60 kgf/cm ² (853 PSIG)
Allowable Suction Pressure	Up to 20 kgf/cm ² (284 PSIG)
Impeller	Enclosed
Temperature	-50°C ~ 150°C (-58°F ~ 302°F)
Flanges	ANSI, other standards also available
Materials	According to API 610 Material code

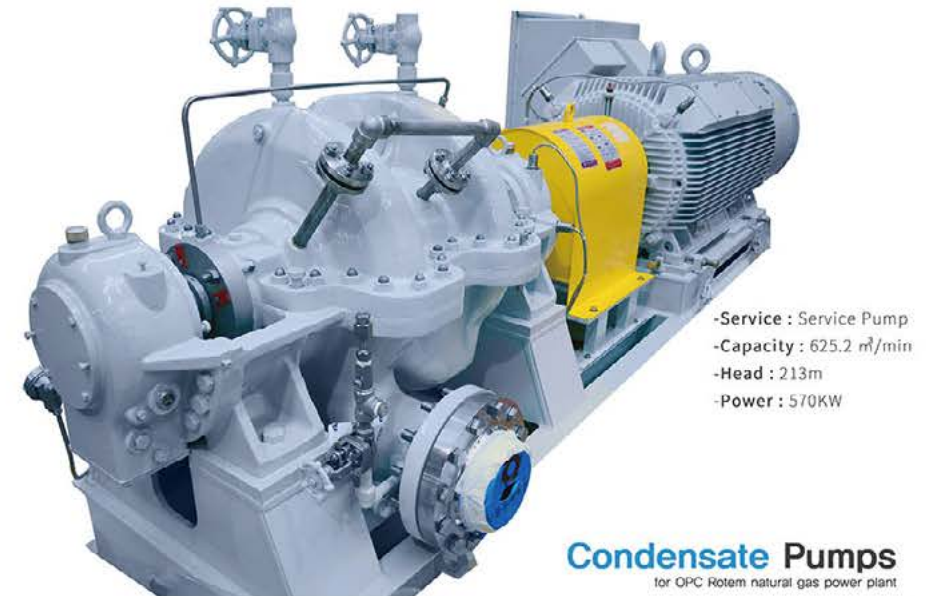
*API610 latest edition is available on request



● Design drawing



● Photo Resources



Condensate Pumps
for OPC Rotem natural gas power plant

Double Suction Axial Split Pumps

GD



Applications

- Water supply
- Cooling water circulation
- Cooling tower
- Building
- Irrigation
- General Industry
- Fire-fighting

Feature

- Completely standardization for wide application
- Compliance with ISO2858 for high interchangeability
- Good efficiency and low NPSHr.
- Axial split casing construction for easy maintenance without disturbing piping

Ratings

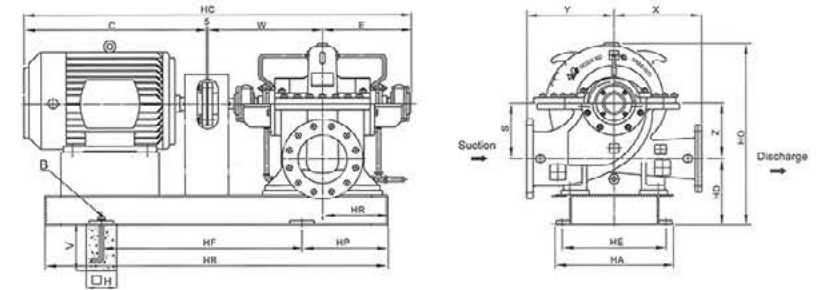
Capacity	3~18 m ³ /min (792 ~ 4,755 US GPM)
Head	Up to 70m (229ft)
Discharge Pressure	Up to 10 kgf/cm ² (142 PSIG)
Allowable Suction Pressure	Up to 5 kgf/cm ² (71 PSIG)
Revolution 60Hz (50Hz)	1750 min ⁻¹ (1180min ⁻¹)
Rotation 4P (6P)	CW or CCW
Temperature	-20°C ~ 135°C (-4°F ~ 275°F)
Nozzle Rating	KS 10 Kg/ cm ² ~ FF
Nozzle Location	Side Suction : Side Discharge
Seals	Conventional Packing or Mechanical Seal

Specification

Spec	CAPACITY / HEAD													
	POWER		CAPACITY		HEAD		CAPACITY		HEAD					
Model			m ³ /min	(m ³ /min)	(m)	(m ³ /min)	(m)	(m ³ /min)	(m)	(m)				
GD2015-300	30	3.0	29	4.5	24	6.0	13	30	3.0	31	4.5	25	6.0	15
	37	3.0	35	4.5	30	6.0	21	45	3.0	43	5.0	38	6.5	27
	45	3.0	43	5.0	38	6.5	27	55	3.0	46	4.5	41	5.5	36
GD2015-430	45	3.0	46	4.5	41	5.5	36	55	3.0	53	4.5	48	6.0	37
	55	3.0	55	4.5	48	6.0	47	75	3.0	65	5.0	59	6.5	47
	75	3.0	65	5.0	59	6.5	47	95	3.0	77	6.0	71	10.5	53
GD2520-300	55	5.0	39	6.0	25	11.0	14	75	5.0	39	6.0	25	12.0	18
	90	5.0	49	8.0	34	11.0	20	110	5.0	53	6.0	47	12.0	32
	135	5.0	61	10	50	12.5	39	150	5.0	69	10	60	13.0	47
GD2520-430	90	5.0	49	8.0	34	11.0	20	110	5.0	53	6.0	47	12.0	32
	135	5.0	61	10	50	12.5	39	150	5.0	69	10	60	13.0	47
	192	5.0	80	10	67	13.0	47	210	5.0	87	10	75	14.0	53
GD3025-300	75	7.5	25	9.0	22	11	16	100	7.5	32	10	28	12	20
	90	7.5	38	11	32	13.5	24	110	7.5	42	12	37	14.0	26
	110	7.5	47	13	37	14.0	26	132	7.5	55	14	43	15	30
GD3025-430	132	10	50	13	42	16	28	150	10	63	14	43	17	30
	150	10	61	14	43	17	30	180	10	75	14	55	18	35
	190	10	81	14	55	18	35	220	10	95	14	67	18	40

Note: The content of this catalogue is to change without notice.

Installation Dimension

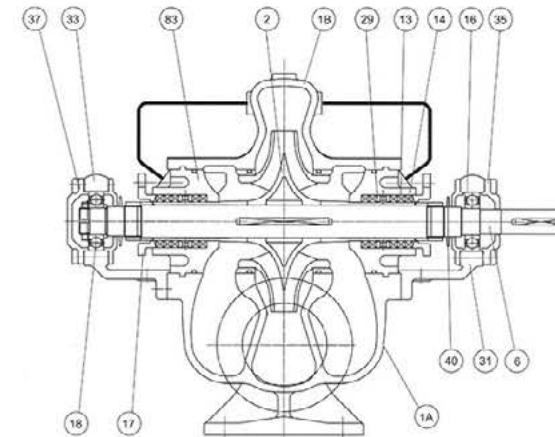


Spec	Pump and motor													Baseplate					Anchor Bolt				
Model	Suc	Dis	Frame	kW	HC	C	W	E	Y	X	HO	S	Z	HR	HP	HF	HB	HE	HA	HD	B	H	V
200x150-300	200	150	200L	37	620	747	488	380	356	356	755	230	230	270	230	940	1400	430	480	275	4-M20x315L	150	315
200x150-430	200	150	225M	55	1774	042	517	410	410	356	817	230	230	270	250	1000	1500	430	480	275	4-M20x315L	150	315
250x200-300	250	200	250M	75	1981	894	585	476	432	356	817	216	216	305	270	1060	1600	470	530	324	4-M20x315L	150	315
250x200-430	250	200	280M	110	2132	1065	586	476	457	410	955	254	254	305	300	1200	1800	540	600	351	4-M20x315L	150	315
300x250-300	300	250	200S	93	2163	1014	627	517	403	410	905	254	254	325	300	1200	1000	540	600	351	4-M20x315L	150	315
300x250-430	300	250	280L	150	2303	1154	627	517	508	517	991	280	280	325	340	1320	2000	540	600	380	4-M24x400L	150	400

Note: *, Dimensions are in mm.

*. The content of this catalogue is to change without notice.

Parts List and Materials



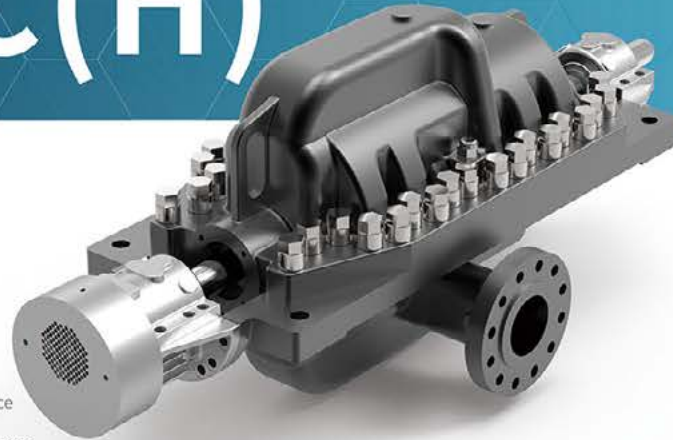
NO	Name of part	MATERIAL
1A	Lower Casing	GC200
1B	Upper Casing	GC200
2	Impeller	GC200 BC6
6	Shaft	SM45C
13	Packing	TEFLON
14	Shaft Sleeve	GC200
16	Inboard Bearing	STEEL
17	Packing Gland	GC200
18	Outboard Bearing	STEEL
29	Lantern Ring	TEFLON
31	Inboard Bearing Hous.	GC200
33	Outboard Bearing Hous.	GC200
35	Inboard Bearing Cover	GC200
37	Inboard Bearing Cover	GC200
40	Deflector	NBR
80	Stuffing Box	GC200

Note: *, Other Materials are available on request

Axial Split Multi-stage Pumps



SMC(H)



● Applications

- Boiler feed
- Pipeline booster
- Mine pumping
- High pressure process

● Feature

- ☑ Double volute for radial balance
- ☑ Opposed impeller for axial balance
- ☑ Impeller each impeller statically and dynamic balanced
- ☑ Stuffing boxes cartridge type to provide maximum packed box or mechanical seal flexibility
- ☑ API standard 610 (API Code : BB3)

● Ratings

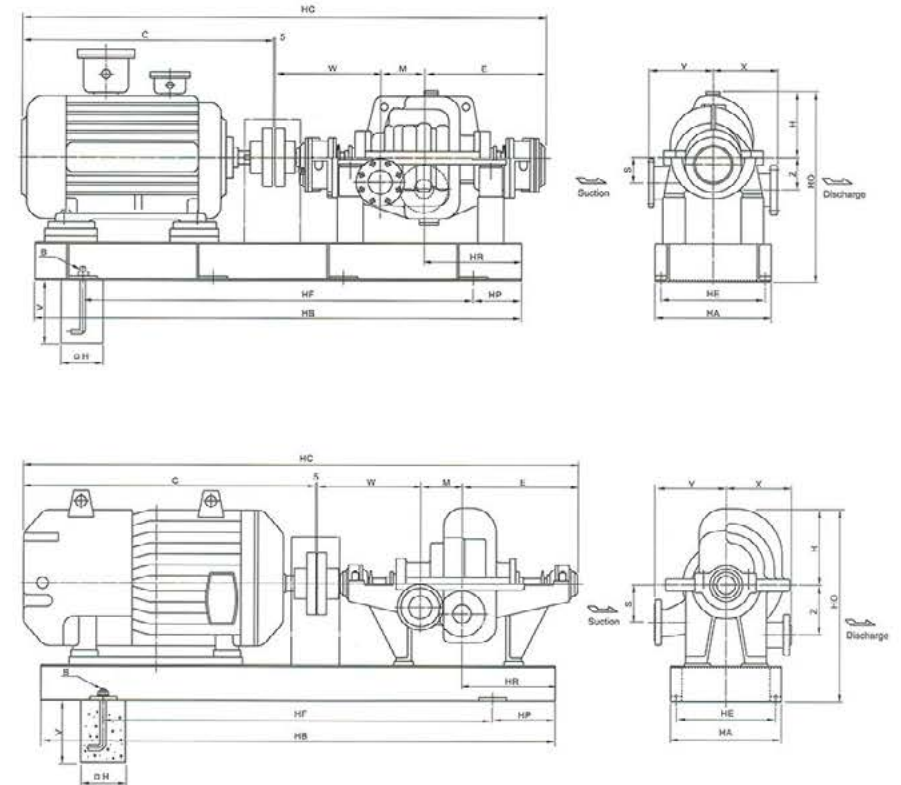
Capacity	Up to 30 m ³ /min (7,925 US GPM)
Head	Up to 1,500 m (4,920 ft)
Discharge Pressure	Up to 150 kgf/cm ² G (2,133 PSIG)
Hydrostatic test Pressure	Up to 225 kgf/cm ² G (3,200 PSIG)
Max. allowable Speed	Up to 3,600 min ⁻¹
Temperature	~200°C (~392°F)
Flanges	-ANSI to 2500 lb (other standards also available)
Location	Side Suction : Side Discharge
Seals	Conventional Packing or Mechanical Seal Floating Seal & Thrust Bushing
Materials	According to API610 Material code

Model	Size	Stage	Capacity (m ³ /min)	Head (m)	Power (kW)	Revolutions (rpm)
6540 4-2	65x40	4	0.6	200	43	3200
8050 2-2	80x50	2	0.88	200	75	2900
8090 4-2	80x50	4	0.9	280	75	3000
8060 6-2	80x50	6	0.9	420	132	2900
1080 2-2	100x80	2	1.2	220	93	3000
1210 4-2	125x100	2	1.5	450	95	3000
1512 2-4	150x125	2	3	100	95	1700
1512 4-4	150x125	4	3	240	220	1750
1512 5-4	150x125	5	0	300	230	1700
2015 2-4	200x150	2	4	150	180	1750
2015 4-4	200x150	4	5.0	280	200	1750
2015 6-4	200x150	6	5.6	420	450	1750
2520 4-4	250x150	4	7.5	200	070	1750

☑ SMC(H) : 2Poles (High speed)



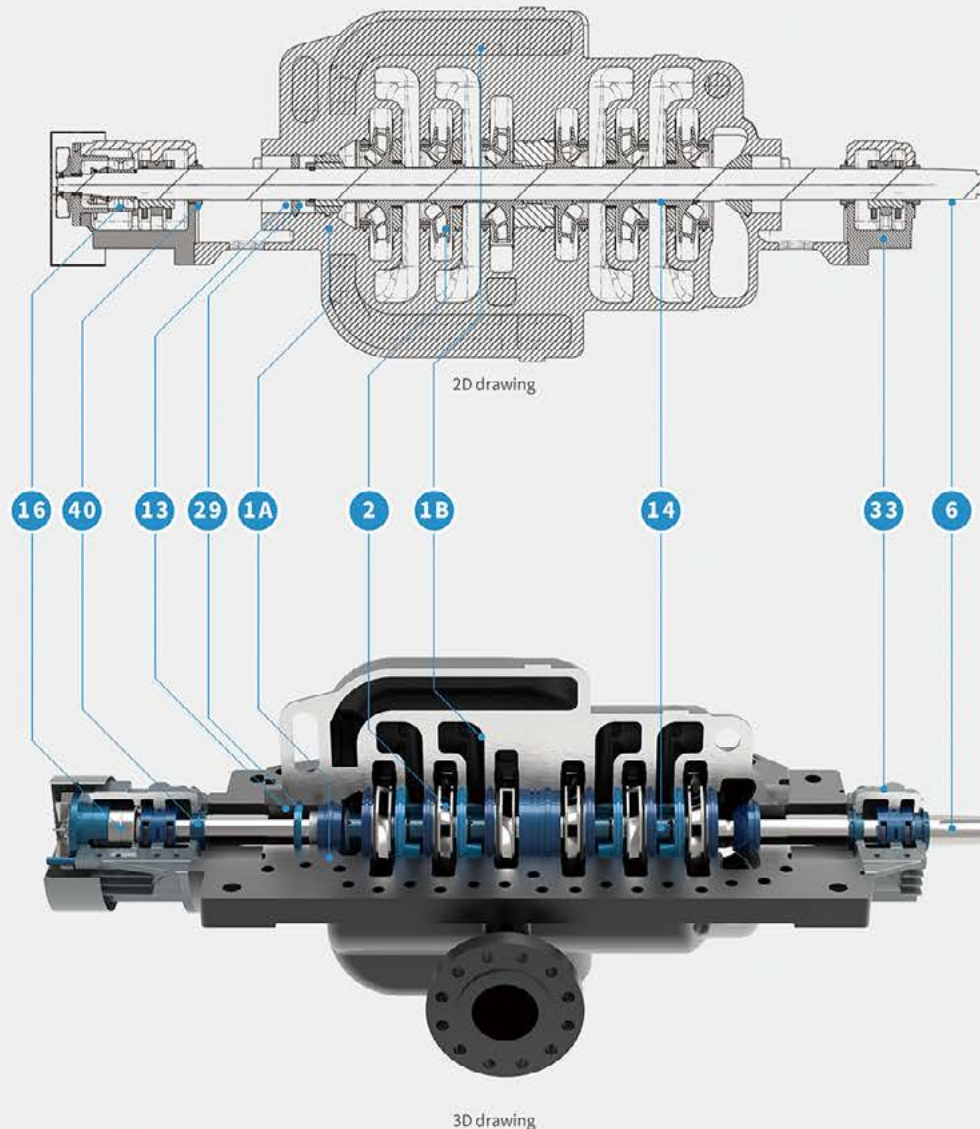
● Installation Dimension



Spec Model	Pump and Motor											Baseplate					Anchor Bolt					
	Frame	kW	BC	C	W	M	E	X	Y	S	H	Z	HP	HR	HB	HF	HO	HE	HA	B	H	V
65404	225L	45	1072	617	395	190	485	200	235	110	230	125	270	305	1600	1060	435	440	460	4-M20x315L	180	315
80502	250M	75	1689	894	390	95	305	220	220	115	230	155	255	260	1500	990	430	490	530	4-M20x315L	100	315
80504	280M	75	2054	894	450	225	480	240	240	125	285	125	325	450	1900	1250	425	550	610	4-M24x315L	180	315
80506	280L	132	2464	1154	450	300	555	250	250	125	285	125	360	520	2240	760x2	505	550	610	6-M24x400L	230	400
12104	280LL	190	2419	1281	550	225	625	290	320	130	315	165	360	460	2380	820x2	565	550	610	6-M24x400L	230	400
15122	280S	95	2359	1014	600	190	550	400	375	200	460	250	360	540	2120	700	700	550	610	6-M24x400L	230	400
15124	580RS	220	3510	1590	685	350	880	400	400	200	480	250	370	850	3350	870x3	750	750	810	8-M24x400L	230	400
15125	580RS	250	3680	1590	685	500	880	400	400	225	435	260	370	850	3350	870x3	750	830	900	8-M24x400L	230	400
20152	280LL	190	2581	1281	490	275	530	500	500	280	510	225	360	530	2650	905x2	700	550	610	6-M24x400L	230	400
20154	5010S	300	3042	1692	700	420	945	450	450	200	485	275	360	900	3750	1010x3	1335	630	990	6-M24x400L	230	400
20156	6010S	450	4531	2021	700	600	1125	450	450	200	485	275	355	1100	4250	1180x3	1335	630	990	6-M24x400L	230	400
25204	680RS	370	2768	1893	830	300	840	450	450	250	605	280	365	850	3500	040x3	800	1050	1110	8-M24x400L	230	400

Model. SMC(H)

● Parts List and Materials



2D drawing

3D drawing

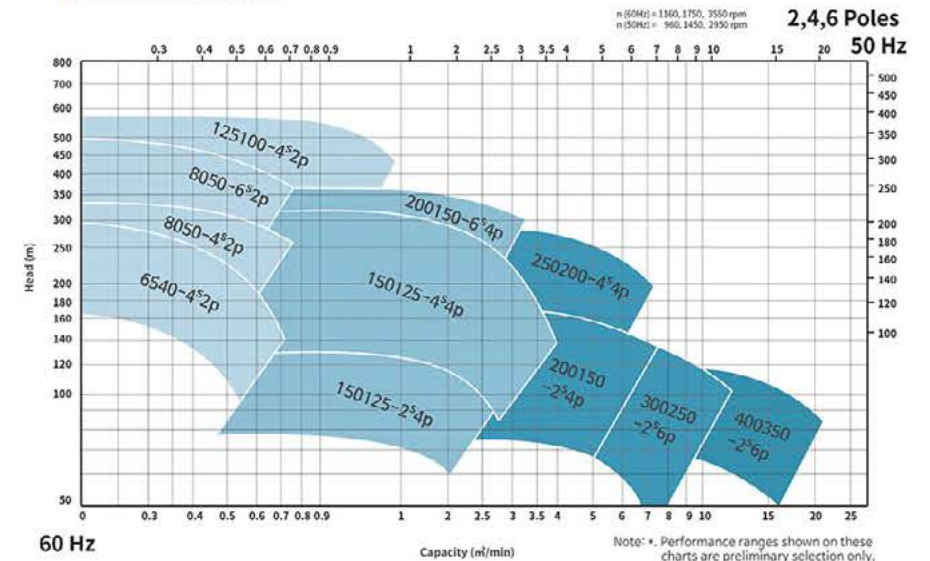
Model. SMC(H)

● Parts List and Materials

No	Name of part	Material	
1A	Lower Casing	GCD450	SSC13
1B	Upper Casing	GCD450	SSC13
2	Impeller	BC6	SSC13
6	Shaft	SM45C	STS410
13	Packing	TEFLON	TEFLON
14	Sleeve	BC6	STS304
16	Inboard Bearing	STEEL	STEEL
17	Packing Gland	GC200	SSC13
18	Outboard Bearing	STEEL	STEEL
29	Lantern Ring	BC6	SSC13
33	Bearing Housing	GC200	GC200
35	In Bearing Cover	GC200	GC200
37	Out Bearing Cover	GC200	GC200
40	Deflector	NBR	NBR
83	Stuffing Box	GCD450	SSC13

Note : *. Other Materials are available on request

● Selection Charts

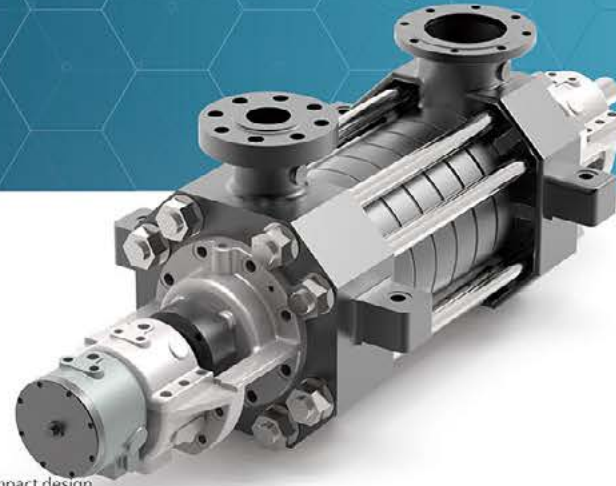


Note: *. Performance ranges shown on these charts are preliminary selection only.

Super High Temperature & Pressure Boiler Feed Pumps



ST



Applications

- Boiler feed
- Mine drainage
- Chemical process
- Other high pressure services

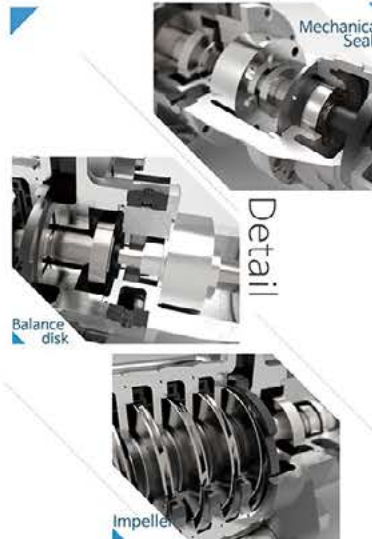
Feature

- Centerline supported and compact design
- High efficiency, high reliability
- Flexibility of design handles wide range of liquids
- All components have been designed for High interchangeability
- Low NPSHr. Performance
- API standard 610 (API Code : BB4)

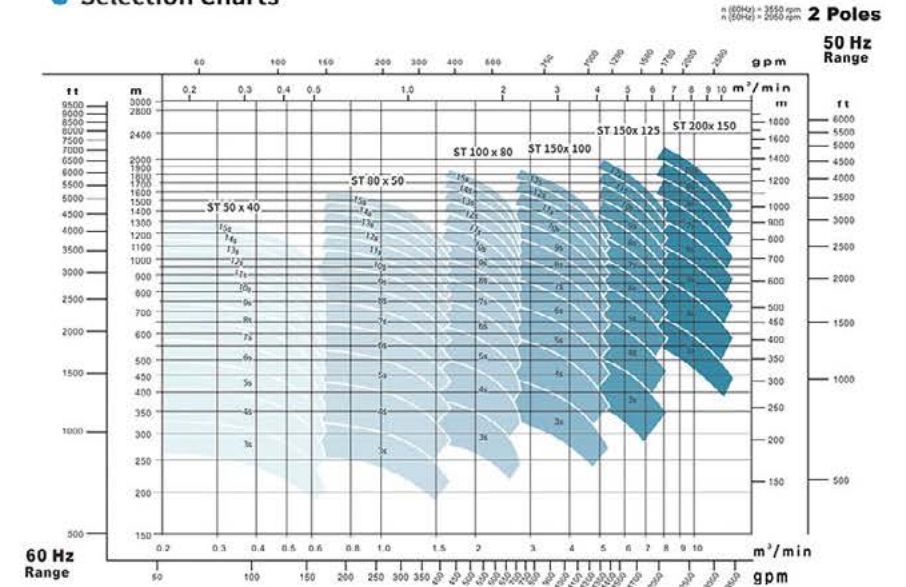
Ratings

Capacity	Up to 20 m ³ /min (5,283 US GPM)
Head	Up to 3,000m (9,842ft)
Discharge Pressure	Up to 200 kgf/cm ² (2844 PSIG)
Allowable Suction Pressure	Up to 300 kgf/cm ² (4267 PSIG)
Revolution 60Hz (50Hz)	3550 min ⁻¹ (2950min ⁻¹)
Rotation	Clockwise viewed from inboard side
Temperature	250°C (482°F)
Nozzle-Rating	ANSI 1500 Class other standards also available
Nozzle-Facing	Raised Face
Nozzle-Location	Top Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal

*API610 latest edition is available on request

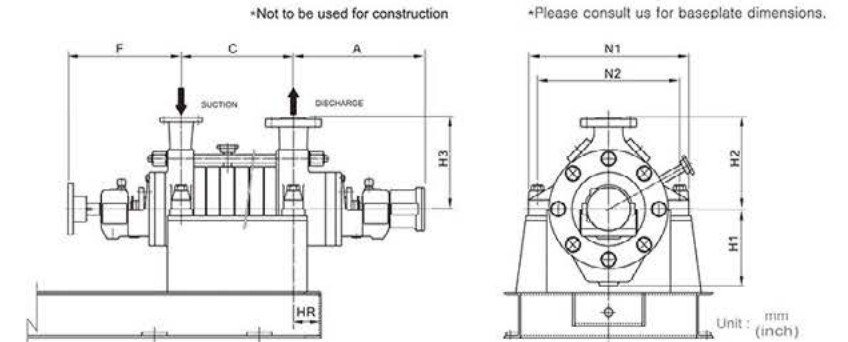


Selection Charts



Note: * Performance ranges shown on these charts are preliminary selection only.

Installation Dimension

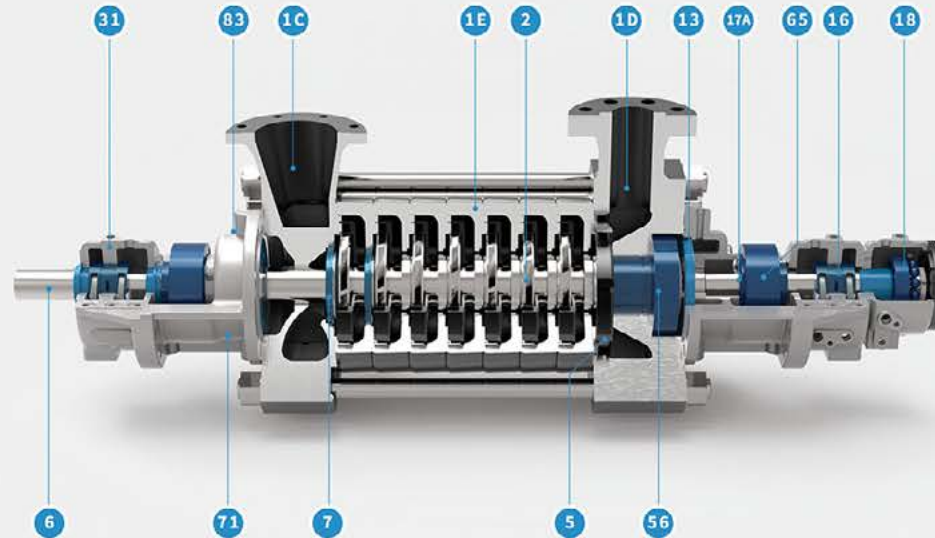


Model	A	C	F	N1	N2	H1	H2	H3
50x40	522	35+(SX50)	430	380	300	200	250	224
	(20.55)	(1.38+(SX1.97))	(16.93)	(14.96)	(11.81)	(7.87)	(9.84)	(8.82)
80x50	695	89+(SX68)	460	405	360	165	270	270
	(23.43)	(3.50+(SX2.68))	(18.11)	(15.94)	(14.17)	(6.50)	(10.63)	(10.63)
100x80	660	65+(SX72)	510	680	600	267	410	360
	(25.98)	(2.56+(SX2.83))	(20.08)	(26.77)	(23.62)	(10.51)	(16.14)	(14.17)
150x100	810	95+(SX90)	730	820	700	310	450	400
	(31.89)	(3.74+(SX3.54))	(28.74)	(32.28)	(27.66)	(12.20)	(17.72)	(15.75)
150x125	820	110+(SX105)	740	1010	850	365	520	455
	(32.28)	(4.33+(SX4.13))	(29.13)	(39.76)	(33.46)	(14.37)	(20.47)	(17.91)
200x150	960	120+(SX115)	950	1200	1000	425	580	520
	(37.80)	(4.72+(SX4.53))	(37.40)	(47.24)	(39.37)	(16.73)	(22.83)	(20.47)

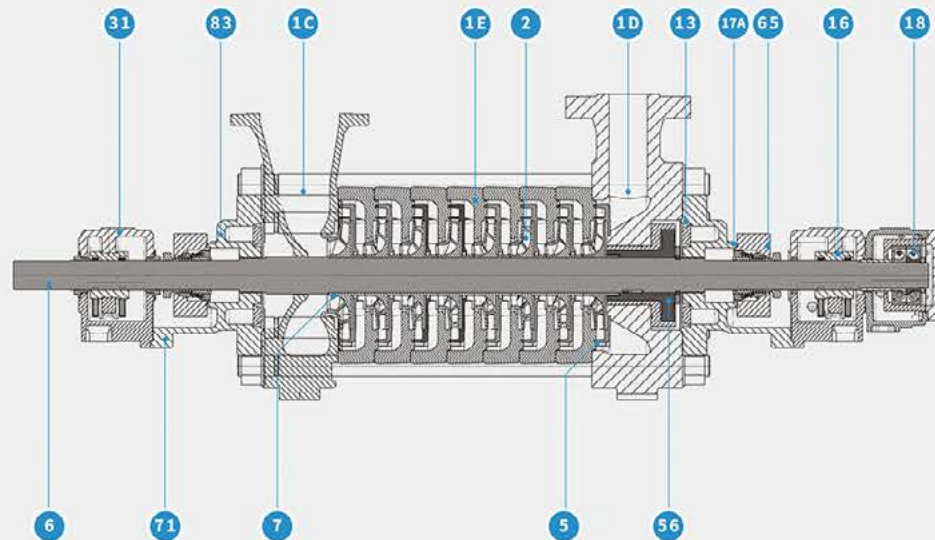
ST 125x100 is available. Other flange sizes are available upon request.

* S : Stage Number,

Parts List and Materials



3D drawing



2D drawing

Parts List

Name of Parts	Materials		
	KS	JIS	ASTM
1C Suction Casing	SCPH2	SCPH2	A216 WCB
1D Discharge Casing	SCPH2	SCPH2	A216 WCB
1E Stage Casing	SCPH2	SCPH2	A216 WCB
2 Impeller	SSC1	SCS1	A743 CA15
5 Diffuser	SSC1	SCS1	A743 CA15
6 Pump Shaft	STS410	SUS410	A276 410
7 Casing Ring	STS420J2	SUS420J2	A276 420
13 Packing or Seal	TEFLON	TEFLON	TEFLON
14 Shaft sleeve	STS420J2	SUS420J2	A276 420
16 Bearing	BABBIT	BABBIT	BABBIT
17 Packing Gland	SSC13	SCS13	A743 CFB
17A Seal Gland	SSC13	SCS13	A743 CFB
18 Thrust Bearing	STEEL	STEEL	STEEL
31 Bearing Housing	GC200	FC200	A48 CL30
56 Balance Drum Bushing/ Balance Disk Seat	STS420J2	SUS420J2	A276 420
65 Mechanical Seal	-	-	-
71 Drip Pocket	GC200	FC200	A48 CL30
83 Stuffing Box	SCPH2	SCPH2	A216 WCB
115 Balance Drum/ Balance Disk	STS420J2	SUS420J2	A276 420

Optional Material Code

- API Material class code.
- Other materials are available on request. (DCI, 12% Cr., 304SS, 316SS, 316LSS, etc)

Construction



High Pressure Multi Stage Turbine Pumps

HT



Applications

- Boiler feed
- Processing water
- General Industry
- City water and high pressure water

Feature

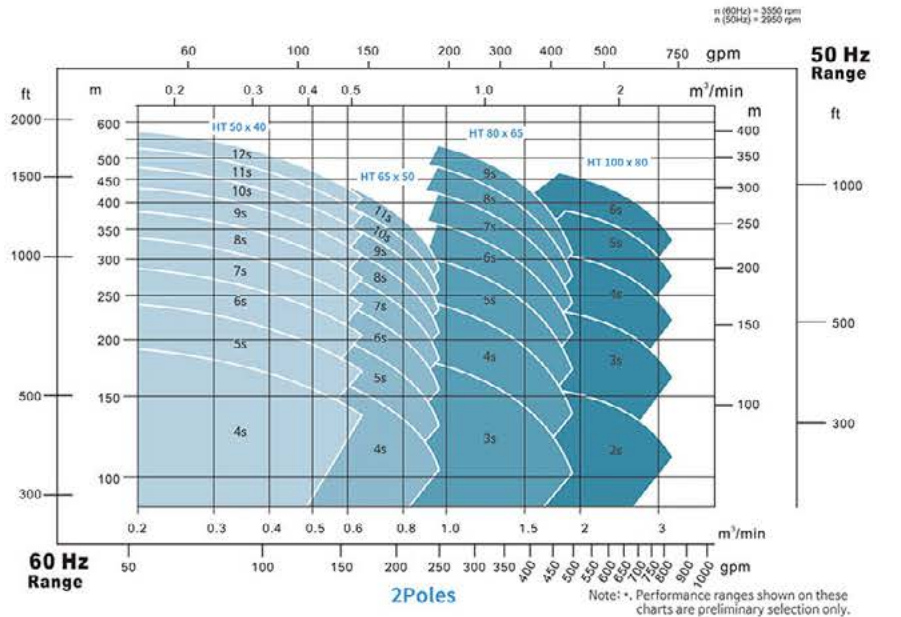
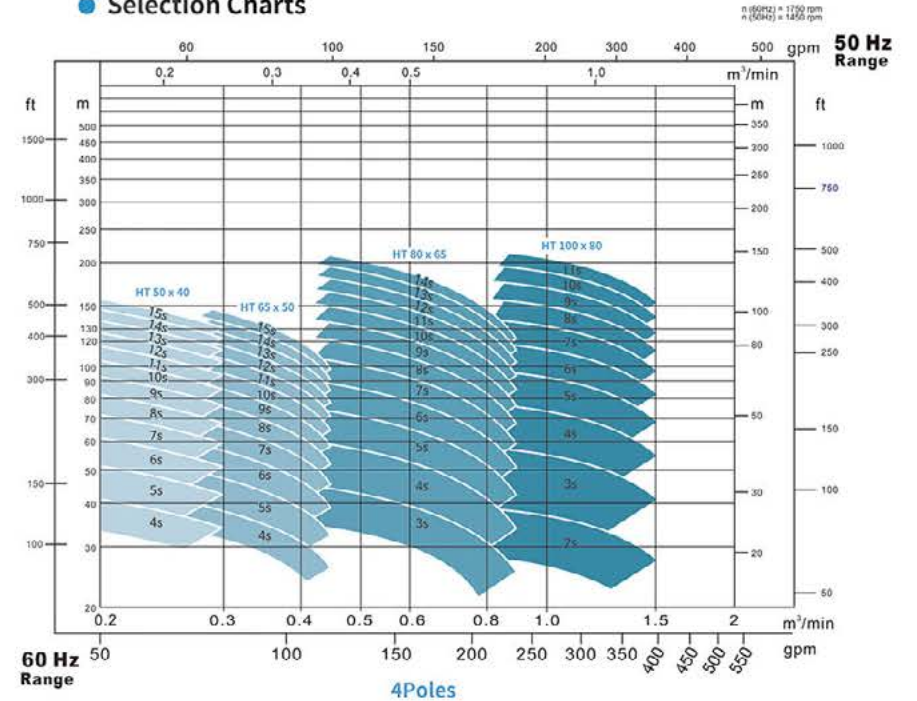
- High efficiency over a wide range
- Highly reliable components
- Simple construction permits easy maintenance
- Suitable for low NPSHr operation.
- Compact and inexpensive
- Sort-term delivery

Ratings

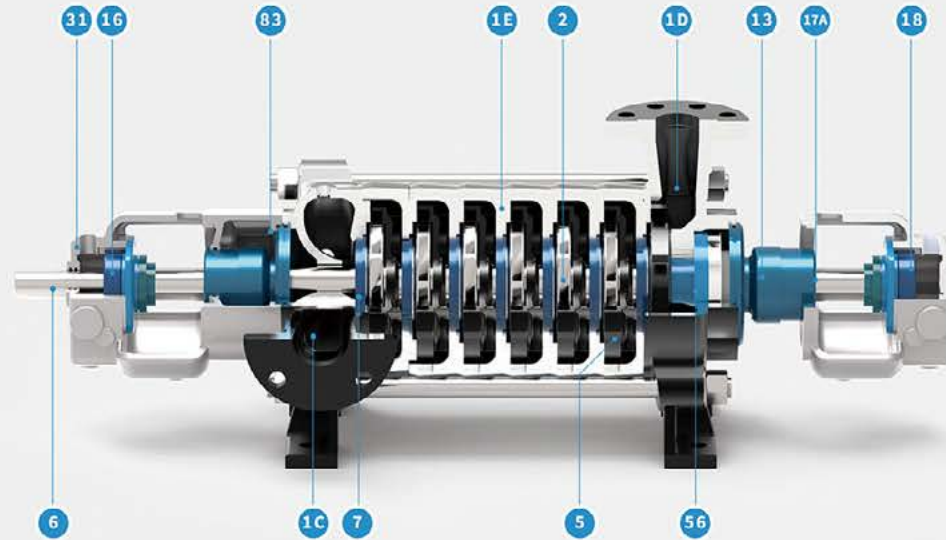
Capacity	Up to 2.5 m ³ /min (660 US GPM)
Head	Up to 500m (1,640ft)
Discharge Pressure	Up to 60 kgf/cm ² (853 PSIG)
Allowable Suction Pressure	Up to 25 kgf/cm ² (355 PSIG)
Revolution 60Hz (50Hz)	1750 or 3550 min ⁻¹ (1450 or 2950min ⁻¹)
Rotation	Clockwise viewed from inboard side
Temperature	~180°C (356°F)
Nozzle-Rating	Suction : KS 10 Kgf/cm ² Discharge KS40 kgf/cm ²
Nozzle-Facing	Raised Face
Nozzle-Location	Side Suction : Top Discharge
	Top Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal



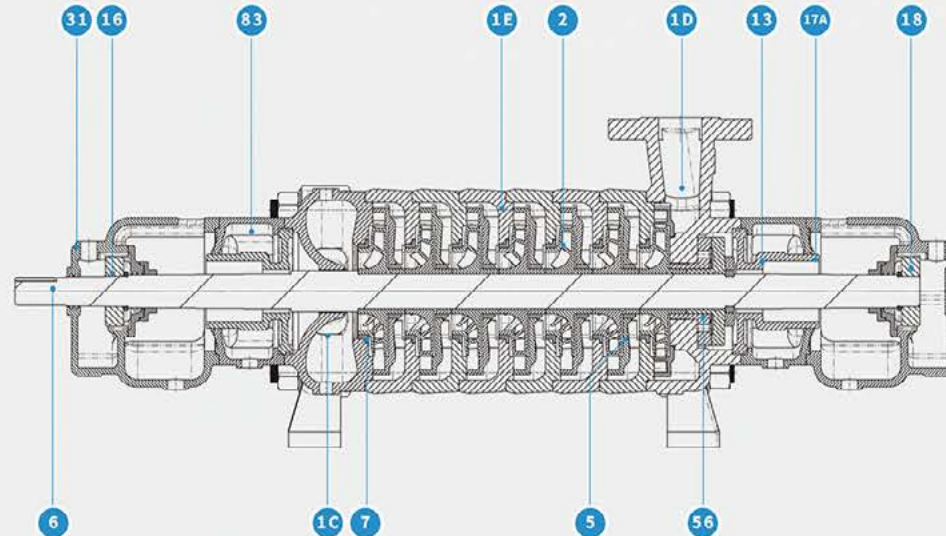
Selection Charts



Parts List and Materials



3D drawing



2D drawing

Parts List

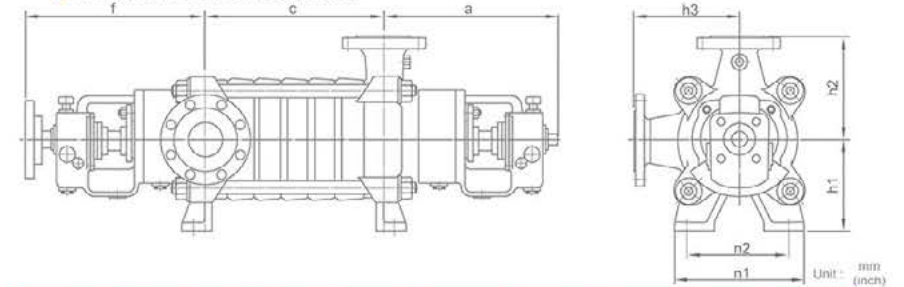
Name of Parts	Materials		
	KS	JIS	ASTM
1C Suction Casing	SCPH2	SCPH2	A216 WCB
1D Discharge Casing	SCPH2	SCPH2	A216 WCB
1E Stage Casing	SCPH2	SCPH2	A216 WCB
2 Impeller	SSC1	SCS1	A743 CA15
5 Diffuser	SSC1	SCS1	A743 CA15
6 Pump Shaft	SCM440	SCM440	A322 4140
7 Casing Ring	STS420J2	SUS420J2	A276 420
13 Packing or Seal	TEFLON	TEFLON	TEFLON
14 Shaft sleeve	STS420J2	SUS420J2	A276 420
16 Bearing	STEEL	STEEL	STEEL
17 Packing Gland	SSC13	SCS13	A743 CFB
17A Seal Gland	SSC13	SCS13	A743 CFB
18 Thrust Bearing	STEEL	STEEL	STEEL
31 Bearing Housing	GC200	FC200	A48 CL30
56 Balance Drum Bushing/ Balance Disk Seat	STS420J2	SUS420J2	A276 420
65 Mechanical Seal	-	-	-
71 Drip Pocket	GC200	FC200	A48 CL30
83 Stuffing Box	SCPH2	SCPH2	A216 WCB
115 Balance Drum/ Balance Disk	STS420J2	SUS420J2	A276 420

Optional Material Code

- API Material class code.

- Other materials are available on request.(DCI, 12% Cr., 304SS, 316SS, 316LSS, etc)

Installation Dimension



Model	a	c	f	n1	n2	h1	h2	h3
50X40	338 (17.72)	20+(SX50) (0.79+(SX1.97))	350 (13.78)	265 (10.43)	200 (7.87)	180 (7.09)	180 (7.09)	180 (7.09)
65X50	343 (13.50)	28+(SX54) (1.10+(SX2.13))	360 (14.17)	265 (10.43)	200 (7.87)	180 (7.09)	200 (7.87)	200 (7.87)
80X65	386 (15.20)	35+(SX70) (1.38+(SX2.76))	428 (16.85)	300 (11.81)	236 (9.29)	210 (8.27)	224 (8.82)	224 (8.82)
100X80	403 (15.87)	50+(SX76) (1.97+(SX2.99))	453 (17.83)	400 (15.75)	320 (12.60)	250 (9.84)	280 (11.02)	280 (11.02)

No cooling jacket type (HP model) is available. Subject to modification without notice to incorporate technical improvements. * S : Stage Number

Double Casing Barrel Pumps

DST

energy API CE

● Applications

- High Pressure & Temperature
- Steel mill Descale
- Petroleum refinery
/ Petrochemical industry
- Power Plant Boiler Main
Water Supply System

● Feature

- ☑ Centerline support and heavy duty design.
- ☑ Double casing, permits removal of the inner casing.
- ☑ Flexibility of design handles wide range of liquids.
- ☑ All components have been designed for High interchangeability.
- ☑ Low NPSH performance.
- ☑ API standard 610 (API Code : BB5)

● Ratings

Capacity	Up to 20 m ³ /min (5,283 US GPM)
Head	Up to 4,000 m (13,123 ft)
Suction/Discharge Pressure	Up to 40 kgf/cm ² / Up to 400 kgf/cm ² (568 / 5689 PSIG)
Hydrostatic Test Pressure	Up to 600 kgf/cm ² (8,534 PSIG)
Max. Allowable Revolution	7,000min ⁻¹
Temperatures	~300°C (~572°F)
Impeller type	Enclosed
Nozzles	Top-Top
Flanges	~ANSI 2500 lb, other standards also available
Shaft Seals	Mechanical Seal, Conventional Packing, Floating Seal & Throttle Bushing
Materials	According to API 610 Material code

*API610 latest edition is available on request.



● Exploded view



DST 250*200-6S

● Photo Resources

API610 Pumps for power plants

- Service : Startup feed pump
- Capacity : 545.1 m³/min
- Head : 883.92m
- Power : 1,828KW



High Pressure Multi Stage Turbine Pumps

MTS



Applications

- Boiler feed
- Processing water
- General Industry
- City water and high pressure water

Feature

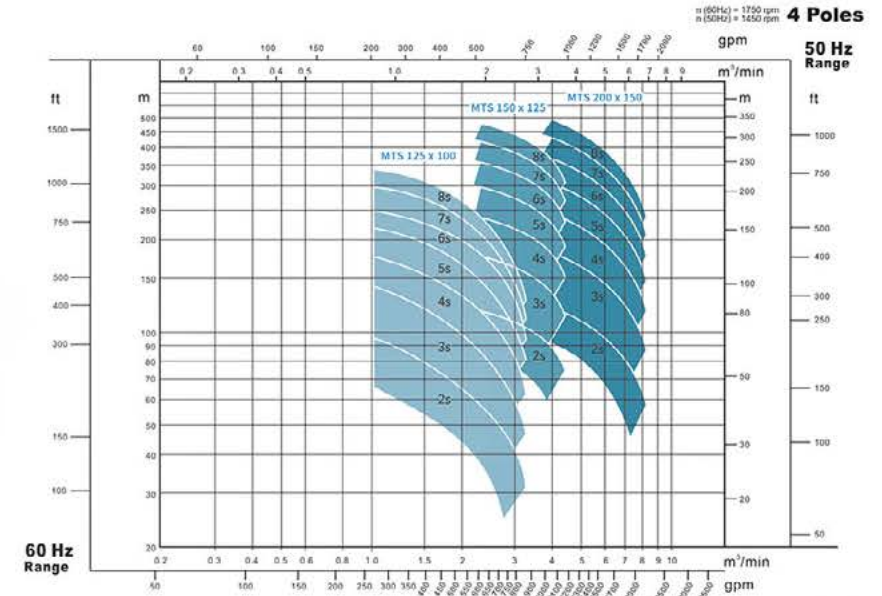
- High efficiency over a wide range
- Highly reliable components
- Simple construction permits easy maintenance
- Suitable for low NPSHr operation.
- Compact and inexpensive
- Sort-term delivery

Ratings

Capacity	Up to 10m ³ /min (2,642 US GPM)
Head	Up to 500m (1,640ft)
Discharge Pressure	Up to 60 kgf/cm ² (853 PSIG)
Allowable Suction Pressure	Up to 20 kgf/cm ² (284 PSIG)
Revolution 60Hz (50Hz)	1750 min ⁻¹ (1180 min ⁻¹)
Rotation	Clockwise viewed from coupling end
Temperature	~120°C (~248°F)
Nozzle-Rating	ANSI 1500 Class other standards also available
Nozzle-Facing	Raised Face
Nozzle-Location	Top Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal

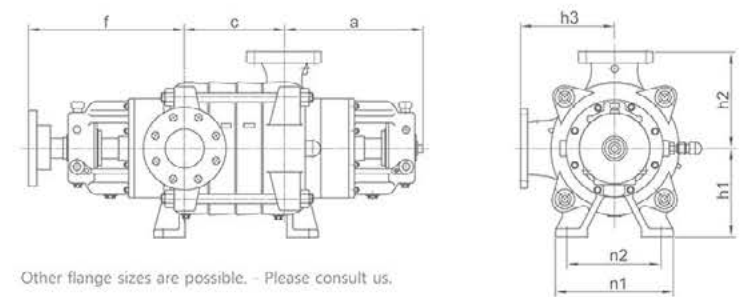


Selection Charts



Note: * Performance ranges shown on these charts are preliminary selection only.

Installation Dimension



Other flange sizes are possible. - Please consult us.

Unit : mm (inch)

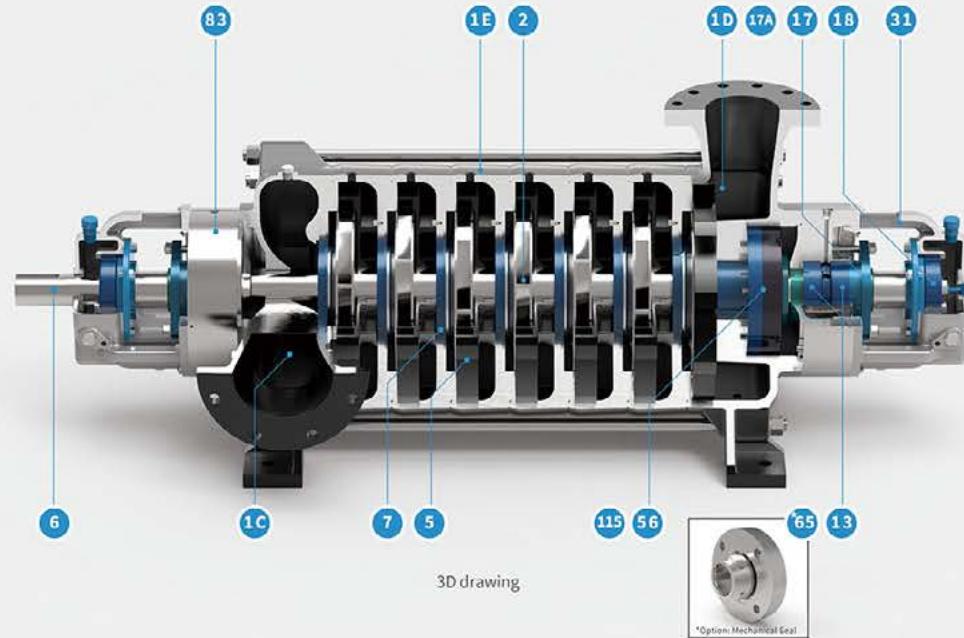
Model	a	c	f	n1	n2	h1	h2	h3
120x100	450 (17.72)	45+(SX90) (1.77+(SX3.54))	505 (19.88)	375 (14.76)	300 (11.81)	280 (11.02)	300 (11.81)	300 (11.81)
150x125	442 (17.40)	55+(SX105) (2.17+(SX4.13))	525 (20.67)	540 (21.26)	450 (17.72)	300 (11.81)	355 (13.98)	355 (13.98)
200x150	490 (19.29)	80+(SX120) (3.15+(SX4.72))	560 (22.05)	550 (21.65)	450 (17.72)	315 (12.41)	400 (15.75)	400 (15.75)

Other flange sizes (65x50 / 100x80 / 100x100 / etc.) are available.
Other options are available upon request.

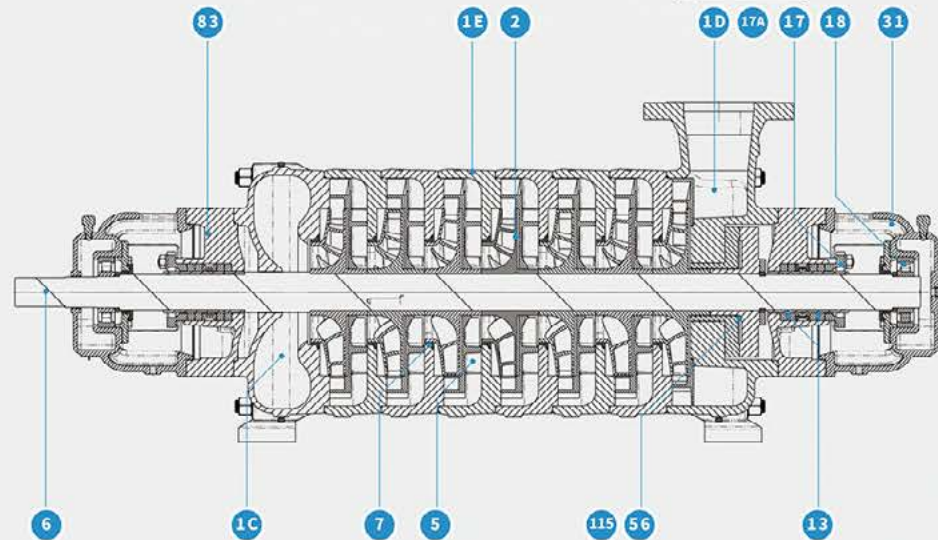
* S : Stage Number.

Model. MTS

● Parts List and Materials



3D drawing



2D drawing

Model. MTS

● Parts List

Name of Parts	Materials		
	KS	JIS	ASTM
1C Suction Casing	SCPH2	SCPH2	A216 WCB
1D Discharge Casing	SCPH2	SCPH2	A216 WCB
1E Stage Casing	SCPH2	SCPH2	A216 WCB
2 Impeller	SSC1	SCS1	A743 CA15
5 Diffuser	SSC1	SCS1	A743 CA15
6 Pump Shaft	SCM440	SCM440	A322 4140
7 Casing Ring	STS420J2	SUS420J2	A276 420
13 Packing	TEFLON	TEFLON	TEFLON
14 Shaft sleeve	STS420J2	SUS420J2	A276 420
16 Bearing	STEEL	STEEL	STEEL
17 Packing Gland	SSC13	SCS13	A743 CF8
17A Seal Gland	SSC13	SCS13	A743 CF8
18 Thrust Bearing	STEEL	STEEL	STEEL
31 Bearing Housing	GC200	FC200	A48 CL30
56 Balance Drum Bushing/ Balance Disk Seat	STS420J2	SUS420J2	A276 420
65 Mechanical Seal	-	-	-
71 Drip Pocket	GC200	FC200	A48 CL30
83 Stuffing Box	SCPH2	SCPH2	A216 WCB
115 Balance Drum/ Balance Disk	STS420J2	SUS420J2	A276 420

Optional Material Code

- API Material class code.

- Other materials are available on request.(DCI, 12% Cr., 304SS, 316SS, 316LSS, etc)

● Construction



Dual Volute Multi-Stage Pumps

MV



Applications

- Boiler feed
- Booster
- Fire-fighting jockey
- Building
- General industry

Feature

- Simple construction
- Good efficiency, low NPSHR.
- Heavy and sturdy construction

Ratings

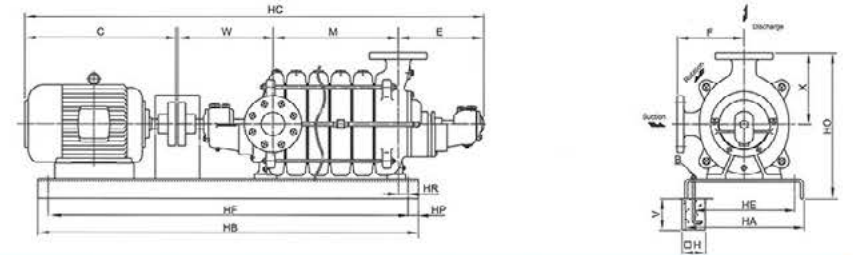
Capacity	UP to 3m ³ /min (792 US GPM)
Head	UP to 140m (459ft)
Temperature	UP to 90°C (194°F)

Specification

140m																
135																
130																
125																
120																
115																
110																
105																
100																
95																
90																
85																
80																
75																
70																
65																
60																
55																
50																
45																
40																
35																
30																
25																
20																
H(m)	15	18	22	26	30	40	50	60	70	80	90	100	120	140	160	180
Size (mm)	050	065	080	0100			0125			0150						

Stage Power
2 / 37
1750 RPM

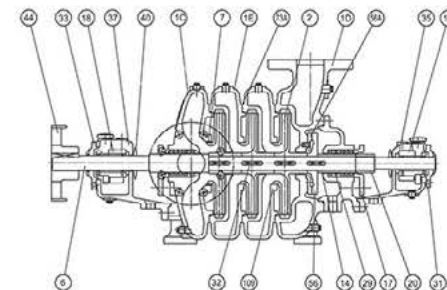
Installation Dimension



Model	Suc	Dis	Frame	kW	HC	C	W	M	E	F	X	HR	HF	HB	HP	HO	HE	HA	B	H	V
502	50	50	112S	2.2	1017	356	255	158	243	180	195	75	750	800	25	405	215	265	4-M16x400L	150	400
503	50	50	112M	3.7	1103	382	255	210	243	180	195	40	850	900	25	405	215	265	4-M16x400L	150	400
504	50	50	132S	5.5	1225	444	255	278	243	180	195	40	950	1000	25	405	255	305	4-M16x400L	150	400
505	50	50	132M	7.5	1323	482	255	338	243	180	195	40	1000	1050	25	405	255	305	4-M16x400L	150	400
506	50	50	132M	7.5	1383	482	255	390	243	180	195	40	1100	1150	25	405	255	305	4-M16x400L	150	400
507	50	50	160M	11	1564	593	255	458	243	180	195	40	1250	1300	25	430	305	355	4-M16x400L	150	400
508	50	50	160M	11	1614	593	255	518	243	180	195	40	1300	1350	25	430	305	355	4-M16x400L	150	400
652	65	65	132S	5.5	1202	444	300	176	277	200	210	90	900	950	25	440	255	305	4-M16x400L	150	400
653	65	65	123M	7.5	1311	482	300	247	277	200	210	90	950	1000	25	440	255	305	4-M16x400L	150	400
654	65	65	160M	11	1493	593	300	318	277	200	210	50	1150	1200	25	455	305	355	4-M16x400L	150	400
655	65	65	160M	11	1564	593	300	389	277	200	210	50	1200	1250	25	455	305	355	4-M16x400L	150	400
656	65	65	160L	15	1679	637	300	460	277	200	210	50	1350	1400	25	455	305	355	4-M20x500L	150	500
657	65	65	180M	19	1760	647	300	531	277	200	210	50	1400	1450	25	465	350	400	4-M16x400L	150	400
802	80	80	132M	7.5	1205	482	262	198	258	210	210	80	950	1000	25	450	255	305	4-M16x400L	150	400
803	80	80	160M	11	1386	503	262	268	258	210	210	40	1050	1100	25	450	305	355	4-M16x400L	150	400
804	80	80	160L	15	1500	637	262	338	268	210	210	40	1150	1200	25	465	305	355	4-M16x400L	150	400
805	80	80	180L	22	1618	685	262	406	258	210	210	40	1250	1300	25	465	350	400	4-M16x400L	150	400
806	80	80	180L	22	1098	685	272	478	258	210	210	40	1350	1400	25	465	350	400	4-M20x500L	150	500
807	80	80	200M	30	1791	708	272	548	258	210	210	40	1450	1500	25	485	390	440	4-M20x500L	150	500
102	100	100	160L	15	1518	637	325	225	326	250	270	80	1150	1200	25	555	305	355	4-M16x400L	150	400
103	100	100	180L	22	1651	685	325	310	326	250	270	80	1300	1350	25	555	350	400	4-M16x400L	150	400
104	100	100	200M	30	1750	708	325	395	326	250	270	40	1350	1400	25	555	390	440	4-M20x500L	150	500
105	100	100	200L	37	1883	747	325	480	326	250	270	40	1452	1500	25	555	390	440	4-M20x500L	150	500

Note: *. Dimensions are in mm.
*. The content of this catalogue is to change without notice.

Parts List and Materials



No	Name of part	MATERIAL	No	Name of part	MATERIAL
1C	Suct. Casing	GC200	31	Inboard Housing	GC200
1D	Dis. Casing	GC200	32	Impeller Key	SM45C
1E	Stage Casing	GC200	33	Outboard Housing	GC200
2	Impeller	BC6	35	In Bear. Cover	GC200
6	Shaft	SM45C	37	Out Bear. Cover	GC200
7	Casing Ring	BC6	40	Deflector	NBR
14	Sleeve	BC6	44	Pump Coupling	GC200
16	Inboard Bear	WHITE METAL	56	Balance Disk	BC6
17	Packing Gland	GC200	56A	Balance Seal	BC6
18	Outboard Bear	WHITE METAL	60	Oil Ring	BC6
20	Sleeve Nut	BC6	73A	Casing Gasket	NBR
29	Lantern Ring	TFEON	83	Stuffing Box	GC200

Note: *. Other Materials are available on request

Vertical Mixed Flow Pumps

VM/VMS



● Applications

- General Industrial
- Factory drainage
- Rain water drainage
- Agriculture

● Feature

- ✓ High efficiency / Heavy and sturdy construction
- ✓ Completely standardization for wide application
- ✓ Maximum parts interchangeability
- ✓ API standard 610 (API Code : VS1)

● Ratings

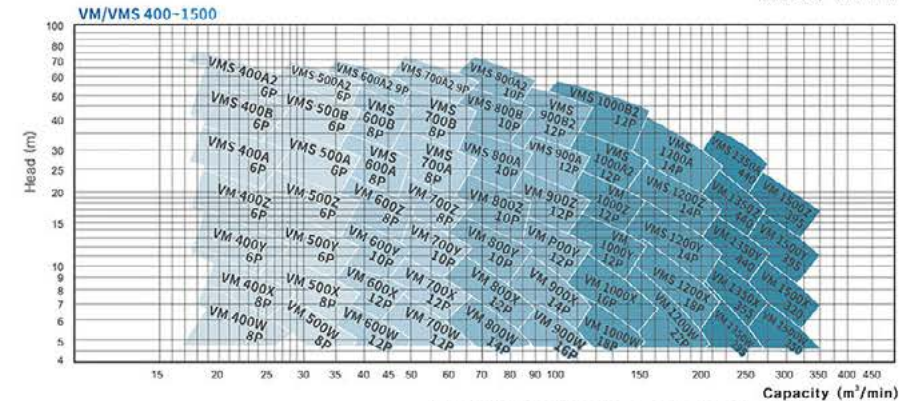
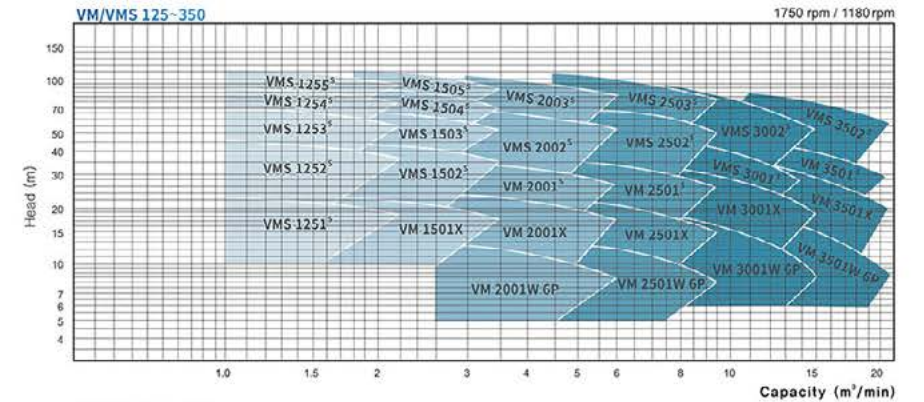
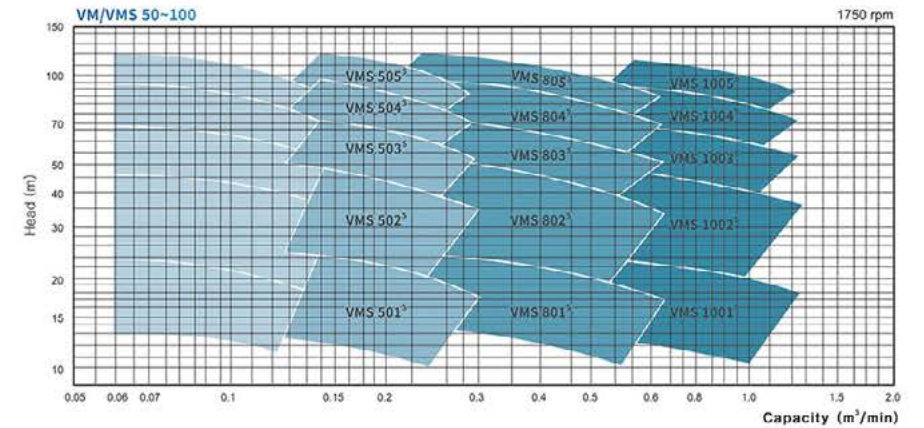
Capacity	Up to 400 m ³ /min (105,669 US GPM)
Head	Up to 500 m (1,640ft)
Discharge Pressure	Up to 60 kgf/cm ² G (853 PSIG)
Hydrostatic test Pressure	Up to 90 kgf/cm ² G (1,280 PSIG)
Max. allowable Speed	Up to 3,600 min
Temperature	-180°C (-356°F)
Flanges	ANSI (other standards also available)
Nozzles Location	Bottom Suction : Side Discharge
Seals	Conventional Packing or Mechanical Seal
Materials	According to API 610 Material code

*API610 latest edition is available on request



Detail

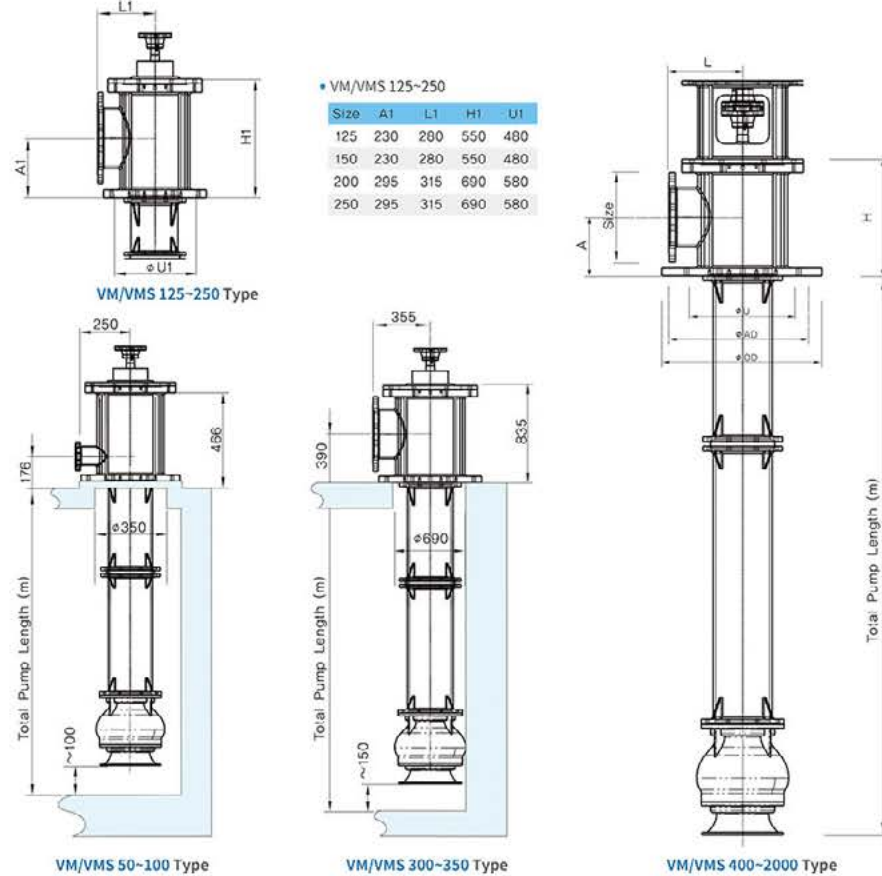
● Selection Charts



Note: * Performance ranges shown on these charts are preliminary selection only.

Model. VM/VMS

● Installation Dimension



● VM/VMS 400-2000 (Discharge Head Dimensions)

(Unit: mm)

Discharge Size	A	L	H	U	OD	AD
400	450	400	900	650	950	850
450	525	425	970	800	1100	1000
500	550	450	1020	900	1200	1100
600	600	500	1150	1050	1350	1250
700	750	650	1400	1200	1500	1400
800	800	700	1550	1300	1700	1550
900	1000	900	1800	1550	1950	1800
1000	1050	950	1900	1700	2100	1950
1100	1100	1000	2050	1850	2250	2100
1200	1150	1050	2150	2000	2400	2250
1350	1375	1275	2450	2225	2725	2525
1500	1450	1350	2500	2450	2950	2750
1600	1500	1400	2600	2600	3100	2950
1700	1550	1450	2700	2750	3250	3050
1800	1600	1550	2800	2950	3500	3250
1900	1650	1550	2950	3050	3650	3400
2000	1700	1600	3000	3200	3800	3500

Model. VM/VMS

● Parts Feature

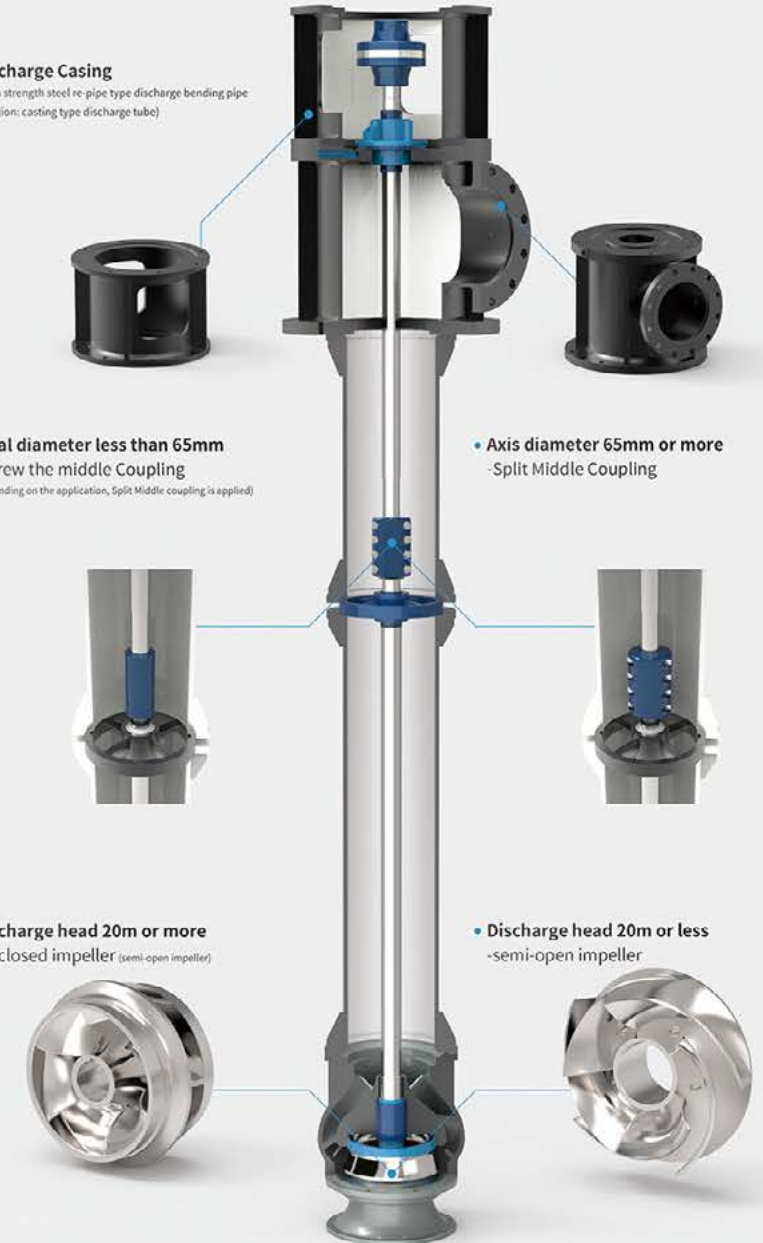
- Discharge Casing
 - High strength steel re-pipe type discharge bending pipe
 - (Option: casting type discharge tube)

- Axial diameter less than 65mm
 - Screw the middle Coupling
 - (Depending on the application, Split Middle coupling is applied)

- Axis diameter 65mm or more
 - Split Middle Coupling

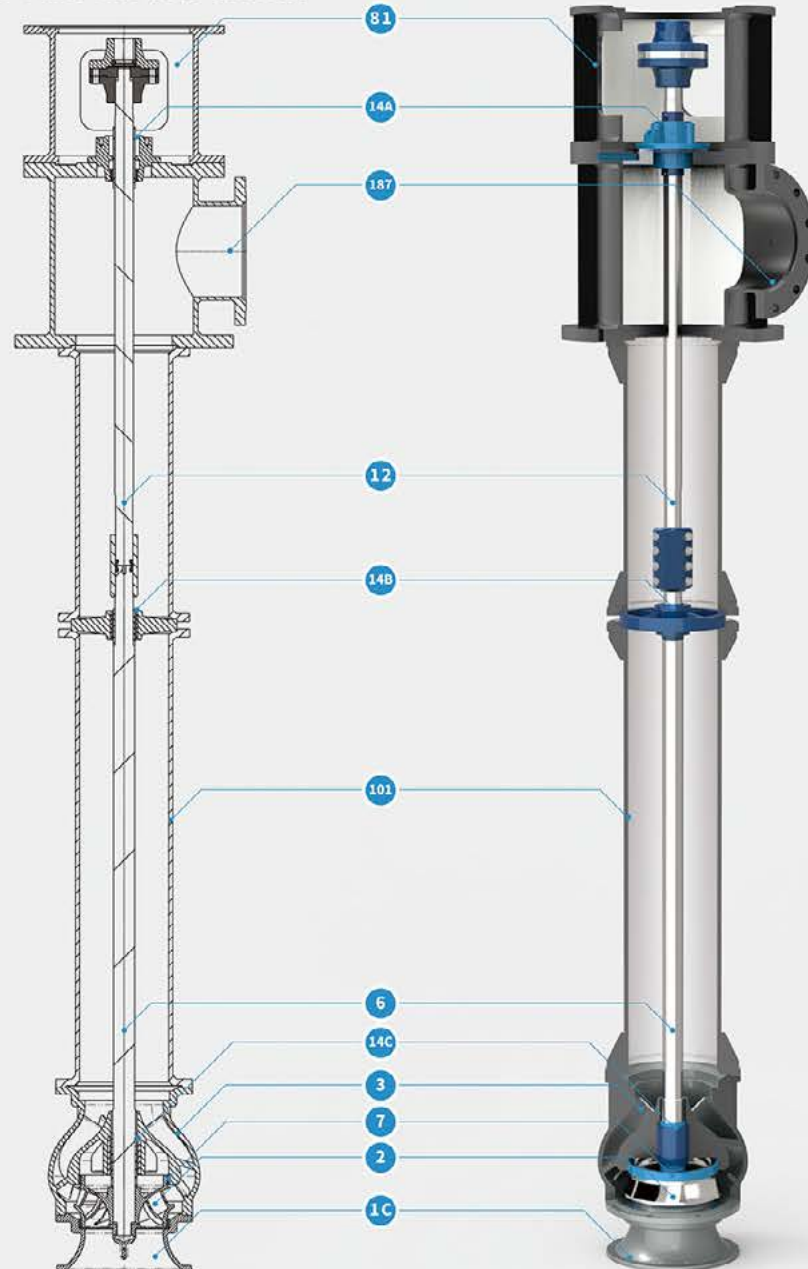
- Discharge head 20m or more
 - Enclosed impeller (semi-open impeller)

- Discharge head 20m or less
 - semi-open impeller



Model. VM/VMS

● Parts List and Materials



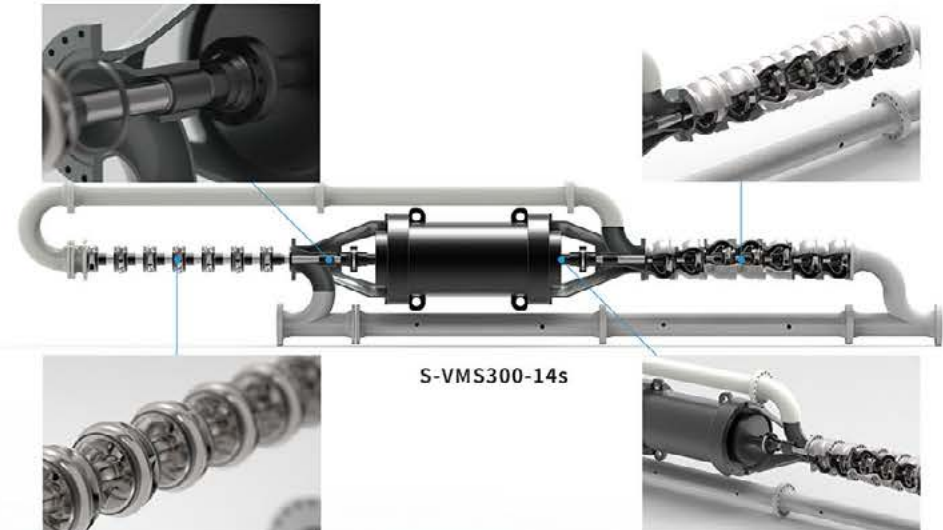
Model. VM/VMS

● Parts List

No	Name of part	Material
1C	Suction Casing	GC200
2	Impeller	GC200 BC6
3	Bowl	GC200
6	Pump Shaft	SM45C STS304
7	Casing Ring	BC6
10	Head Shaft	SM45C STS304
12	Line Shaft	SM45C STS304
14A	Packing Sleeve	STS304
14B	Retainer Sleeve	STS304
14C	Impeller Sleeve	STS304
37	Bear. Housing Cover	GC200
39	Bearing Holder	GC200
72	Thrust Bearing	STEEL
81	Driver Pedestal	SPPS38
99	Bearing Housing	GC200
101	Column Pipe	SPPS38
129	Baseplate	SS400
187	Discharge Head	SPPS38 GC200
209	Strainer	SS400

Note: *. Other Materials are available on request

● Special Pumps



S-VMS300-14s

Vertical Axial Flow Pumps

energy API CE

VA

● Applications

- General Industrial
- Factory drainage
- Rain water drainage
- Agriculture

● Feature

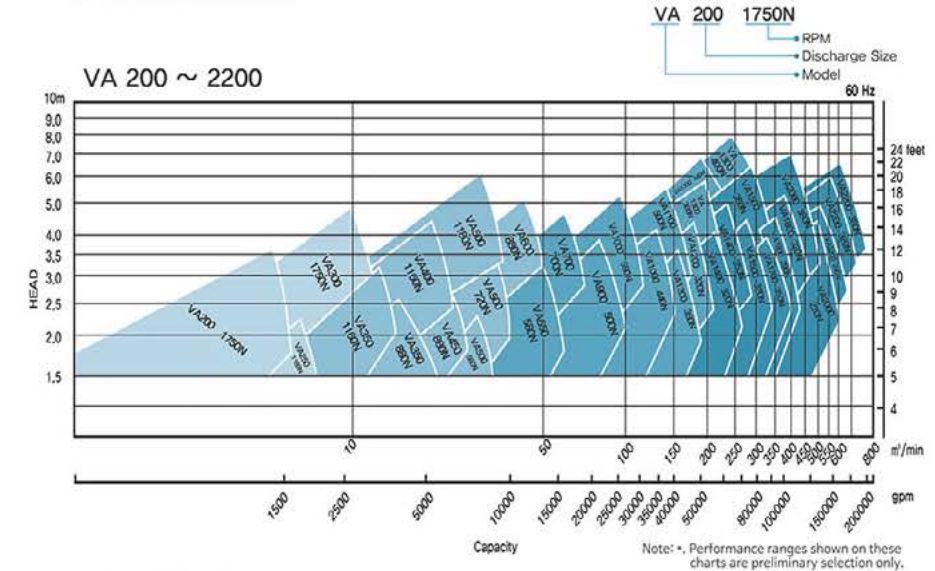
- ✓ Maximum parts interchangeability
- ✓ High efficiency / Heavy and sturdy construction
- ✓ Completely standardization for wide application
- ✓ API610 Latest edition is available on request
- ✓ API standard 610 (API Code : VS3)

● Ratings

Capacity	Up to 500 m ³ /min (132,086 US GPM)
Head	Up to 15 m (49ft)
Discharge Pressure	Up to 5 kgf/cm ² G (71 PSIG)
Hydrostatic test Pressure	Up to 7.5 kgf/cm ² G (106 PSIG)
Max. allowable Speed	Up to 900 min ⁻¹
Temperature	~60°C (~ 140°F)
Flanges	~ANSI to (other standards also available)
Nozzles Location	Bottom Suction : Side Discharge
Seals	Conventional Packing or Mechanical Seal
Materials	According to API 610 Material code *API610 latest edition is available on request



● Selection charts



● Specification

Spec Model	POWER	CAPACITY (m ³ /min)	HEAD (m)	RPM (rpm)	Spec Model	POWER	CAPACITY (m ³ /min)	HEAD (m)	RPM (rpm)
400	7.1	15	1.5	520	1200	49.6	125	1.5	170
	10.7	19	2	580		68	145	2	200
	14.7	22	2.5	650		94	170	2.5	220
	17.2	24	3	720		120	190	3	240
500	9.5	21	1.5	420	56	145	1.5	180	
	12.7	24	2	480	79.5	170	2	180	
	17	27	2.5	550	108	195	2.5	210	
	22	32	3	600	140	220	3	230	
600	12.8	29	1.5	360	63	163	1.5	150	
	17.8	34	2	460	91	195	2	170	
	23.5	39	2.5	410	121	220	2.5	190	
	29.5	44	3	510	156	250	3	210	
700	17	40	1.5	300	72	190	1.5	140	
	23	46	2	350	101	220	2	160	
	31	52	2.5	400	135	250	2.5	180	
	39	60	3	440	174	275	3	200	
800	22	53	1.5	260	80	210	1.5	130	
	31	62	2	310	115	250	2	150	
	40	70	2.5	350	154	280	2.5	170	
	51	80	3	380	200	320	3	190	
900	29	70	1.5	230	86	230	1.5	120	
	39	80	2	270	126	280	2	140	
	51	90	2.5	300	172	320	2.5	160	
	65	100	3	330	225	360	3	180	
1000	35.5	90	1.5	200	100	270	1.5	120	
	48	100	2	240	143	315	2	140	
	65	115	2.5	270	192	360	2.5	140	
	82	130	3	300	250	400	3	170	
1100	42.5	105	1.5	190	123	325	1.5	110	
	59	125	2	220	171	380	2	120	
	78	140	2.5	240	235	440	2.5	130	
	101	160	3	270	303	490	3	150	

Note: *, Dimensions are in mm.

*, The content of this catalogue is to change without notice.

Vertical One Piece Solid Shaft Pumps

energy API CE

VISB/VISBO

● Applications

- Chemical industry
- Industrial sump drainage
- Corrosive & none-corrosive liquids
- Pollution control

● Feature

- ✓ Maximum parts interchangeability
- ✓ High efficiency / Heavy and sturdy construction
- ✓ Completely standardization for wide application
- ✓ API610 Latest edition is available on request
- ✓ API standard 610 (API Code : VS4)

● Ratings

Capacity	Up to 50 m ³ /min (13,209 US GPM)
Head	Up to 200 m (656ft)
Discharge Pressure	Up to 25 kgf/cm ² (355 PSIG)
Hydrostatic test Pressure	Up to 40 kgf/cm ² (568 PSIG)
Max. allowable Speed	Up to 3,600 min ⁻¹
Temperature	~150°C (~302°F)
Flanges	ANSI (other standards also available)
Nozzles Location	Bottom Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal
Materials	According to API 610 Material code

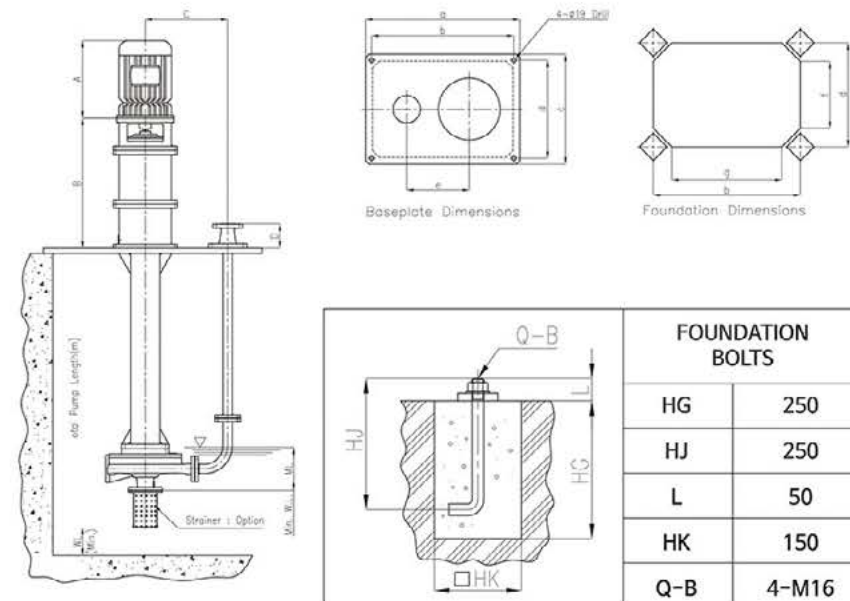
*API610 latest edition is available on request

● VISBO Model.

● VISBO Model.
Open type impeller.● VISB Model.
Close type impeller.

CW-Hydro, Inc.

● Installation Dimension



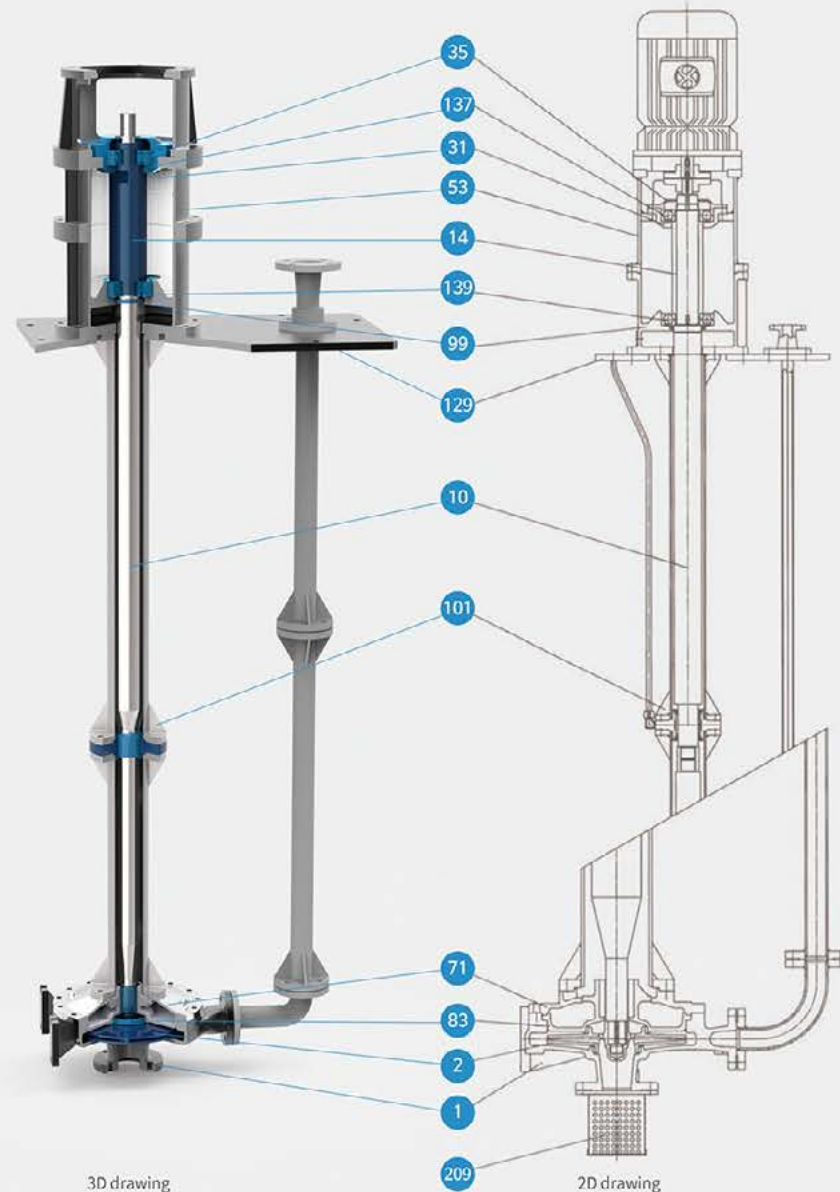
Spec	Pump and Motor							Baseplate							Anchor Bolt				
	Model	Frame	kW	H1	H2	WL	MF	J	A	B	C	D	E	F	G	H	B	H	V
	3216	80	0.75	233	344	100	310	100	755	665	600	510	80	310	50	440	4-M16x200L	150	200
	3220	90L	1.5	313	354	100	330	100	755	685	600	510	90	330	50	440	4-M16x200L	150	200
	4020	90L	1.5	313	354	100	341	100	790	700	600	510	95	241	60	440	4-M16x200L	150	200
	5020	112M	3.7	340	364	100	397	100	850	760	600	510	125	397	70	440	4-M16x200L	150	200
	4025	112M	3.7	340	364	100	386	100	840	750	600	510	120	386	80	440	4-M16x200L	150	200
	5025	132G	5.5	382	384	100	422	100	880	790	600	510	140	422	70	440	4-M16x200L	150	200
	5031	132M	7.5	420	384	100	477	100	930	840	700	600	165	477	70	530	4-M16x200L	150	200
	6520	132G	5.5	382	384	100	482	100	945	855	600	510	175	482	85	530	4-M16x200L	150	200
	6525	160M	11	492	414	100	507	100	970	880	700	600	185	507	85	530	4-M16x200L	150	200
	8025	180M	19	537	444	100	583	100	1050	950	700	600	225	583	95	530	4-M16x200L	150	200
	8020	160M	11	492	414	100	553	100	1020	920	700	600	210	553	95	530	4-M16x200L	150	200
	1020	160L	15	536	414	250	644	130	1140	1040	700	600	225	644	125	530	4-M16x200L	150	200
	6531	160L	15	536	414	100	537	100	1000	980	700	600	200	537	85	530	4-M16x200L	150	200
	1025	180L	22	575	444	250	644	130	1140	1040	700	600	235	644	125	530	4-M16x200L	150	200

Note: * Dimensions are in mm. (Approximate)

* The content of this catalogue is to change without notice.

Model. VISB/VISBO

● Parts List and Materials



3D drawing

2D drawing

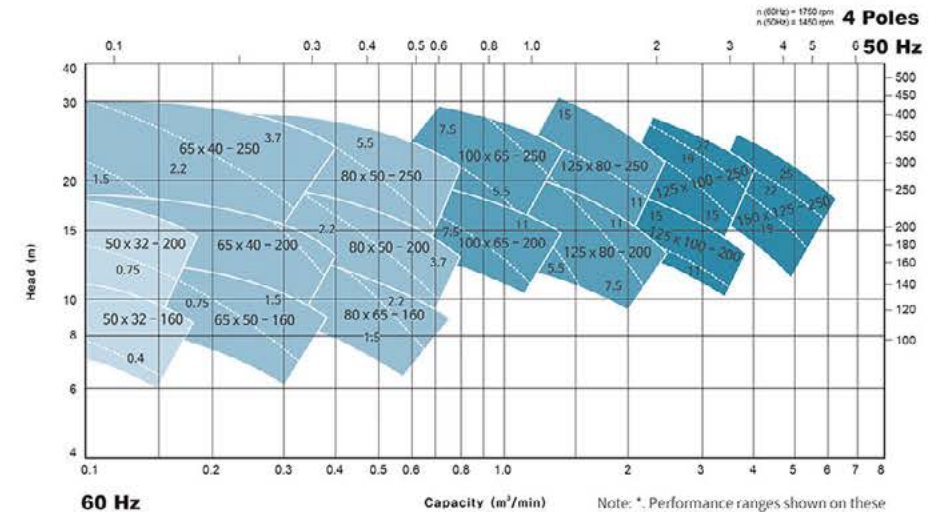
Model. VISB/VISBO

● Parts List

NO	Name of part	MATERIAL	
1	Casing	GC200	SSC13
2	Impeller	GC200	SSC13
10	Shaft	SM45C	STS304
14	Sleeve	GC200	SSC13
31	Bearing Housing	GC200	GC200
35	Bearing Cover	GC200	GC200
53	Motor Pedestal	GC200	GC200
71	Adapter	GC200	SSC13
83	Stuffing Box	GC200	SSC13
99	Bearing Housing	GC200	GC200
101	Column Pipe	SPPS38	STS304
129	Sole Plate	SS400	SS400
137	Upper Bearing	STEEL	STEEL
139	Lower Bearing	STEEL	STEEL
209	Strainer	SS400	STS304

Note : *, Other Materials are available on request

● Selection Charts



Vertical Multi-stage Can-Type

VCM

energy API CE



● Applications

- Pipeline boosting
- Refinery blending
- Ammonia transfer
- Condensate
- LNG transfer

● Feature

- ✓ In-line suction and discharge simplifies installation
- ✓ Optional suction in can for flexibility
- ✓ Allow efficient operation at any NPSHr. Available
- ✓ API standard 610 (API Code : VS6)

● Ratings

Capacity	Up to 100 m ³ /min (26,417 US GPM)
Head	Up to 500 m (1,640 ft)
Discharge Pressure	Up to 60 kgf/cm ² G (853 PSIG)
Hydrostatic test Pressure	Up to 90 kgf/cm ² G (1,280 PSIG)
Max. allowable Speed	Up to 3,600 min ⁻¹
Temperature	-180°C (-356°F)
Flanges	ANSI (other standards also available)
Nozzles Location	Bottom Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal
Materials	According to API 610 Material code

*API610 latest edition is available on request

● Material

BOWL	GCD450 / SCPH2 / SSC13
IMPELLER	SSC13 / SSC14
SHAFT	STS420 / SCM440

● Specification

Model	Spec Size	Capacity (m ³ /min)	Head (m)	Power (kW)	Revolution (rpm)
101~110	50x40	0.12	11.5~115	0.75~115	3500
201~208	50x40	0.25	18~144	2.2~15	3500
301~308	80x40	0.40	18~143	3.7~22	3500
401~408	80x50	0.60	26~208	5.5~37	3500
501~508	100x80	1.10	26~208	11~75	3500
601~609	150x100	2.0	30~180	15~90	3500
701~706	200x150	3.5	16~105	15~90	1750

Note: * The content of this catalogue is to change without notice.

● Construction



● Casing

-Vertically suspended, Double-Casing Diffuser type pumps. Hydraulically efficient casing design. Based on many years experience, minimizes pump friction losses.



● Impeller

-Enclosed type impeller. It is easy to replace Casing wearing and Impeller wearing.



● Bearing

-Thrust bearings are "Spherical thrust bearings" Having ample capacity to withstand axial thrust loads. The Bearings are oil-lubricated.



● Mechanical Seal

-Cartridge type. Products of all Mechanical Seal Makers are available.

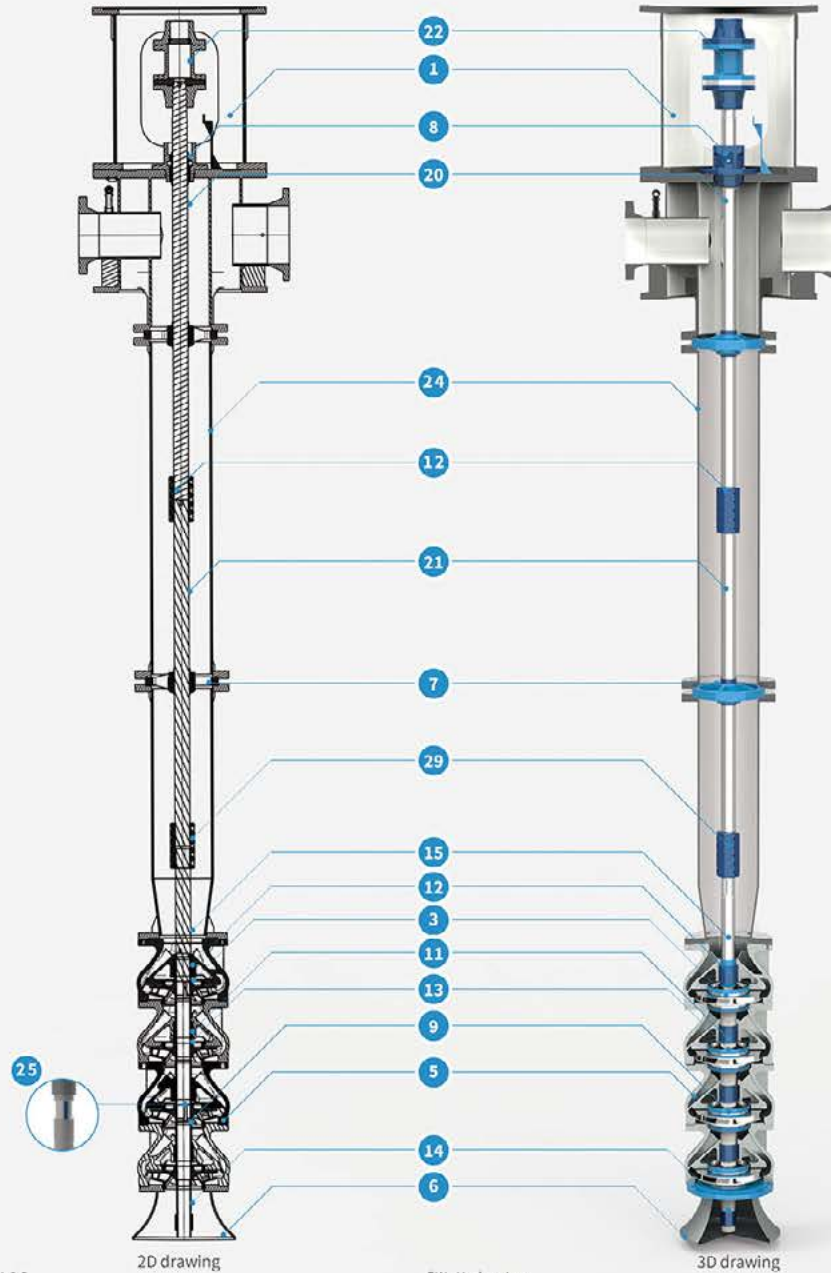


● Intermediate Bearing

-Bearing materials, composition of which is determined according to the liquid handled, is retained inside cast casings. Number of bearings is determined by critical pump speed and shaft length.

Model. VCM

● Parts List and Materials



Model. VCM

● Parts List

No	Name of part	Material	No	Name of part	Material
1	Discharge Head	SPPS38	16	Sleeve	STS304
2	Suction Can	SPPS38	18	Packing Gland	BC6
3	Impeller	SSC1	19	Packing	TEFLON
4	Inducer	SSC1	20	Head Shaft	STS304
5	Bowl	SCPH2	21	Pump Shaft	STS304
6	Suction Cover	SCPH2	22	Coupling	SM45C
7	Bearing Retainer	SCPH2	23	Packing Sleeve	STS304
8	Stuffing Box	SCPH2	24	Column Pipe	SPPS38
9	Casing Ring	STS420J2	25	Impeller & Inducer Key	STS304
10	Impeller Ring	STS420J2	26	O-Ring	NBR
11	Bearing Bush	CARBON	27	O-Ring	NBR
12	Bearing Bush	CARBON	28	Gasket	NON ASBESTOR
13	Sleeve	STS304	29	Shaft Coupling	STS304
14	Sleeve	STS304	30	Bearing Bush	CARBON
15	Discharge Casing	SCPH2			

Note : Other Materials are available on request.

● Photo Resources



Vertical Double Casing Volute Pumps

VCMD

energy API CE

Applications

- Petroleum refinery
- Petrochemical industry
- General industrial
- Industrial drainage
- Other chemical industries

Feature

- ✓ High efficiency / Heavy and sturdy construction
- ✓ Completely standardization for wide application
- ✓ Maximum parts interchangeability
- ✓ API standard 610 (API Code : VS7)

Ratings

Capacity	Up to 100m ³ /min (26,417 US GPM)
Head	Up to 500m (1,640ft)
Discharge Pressure	Up to 60 kgf/cm ² (853 PSIG)
Hydrostatic Pressure	Up to 90 kgf/cm ² (1,280 PSIG)
Max. allowable Speed	Up to 3600min ⁻¹
Temperature	-180°C (356°F)
Flanges	ANSI, other standards also available
Location	Bottom Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal
Materials	According to API 610 Material code

*API610 latest edition is available on request.

VCMD Model.



• VCM

• VCMD

- Suction Casing
The lower suction casing is a double casing.

CW-Hydro, Inc.



Design drawing

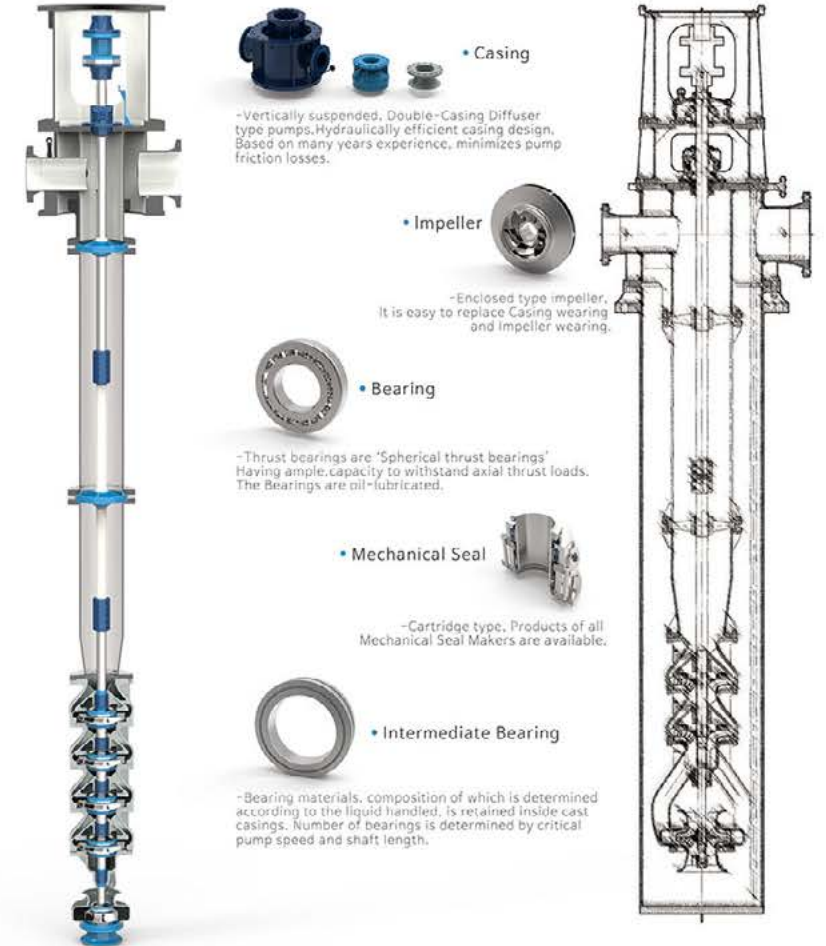


Photo Resources



Vertical Cantilever Bottom Suction Pumps

WNOP



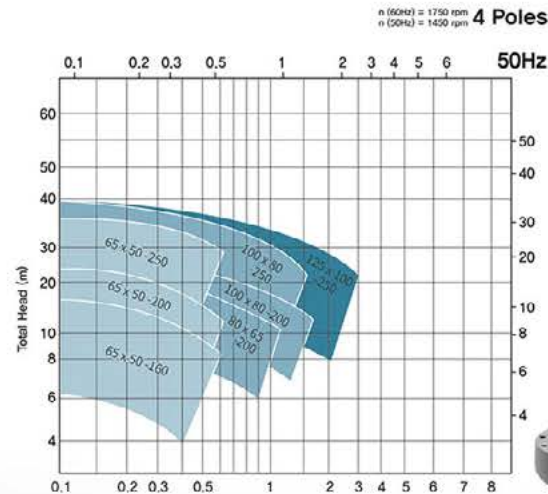
● Applications

- Chemical industry
- Food industry
- Paper industry
- Industries waste water

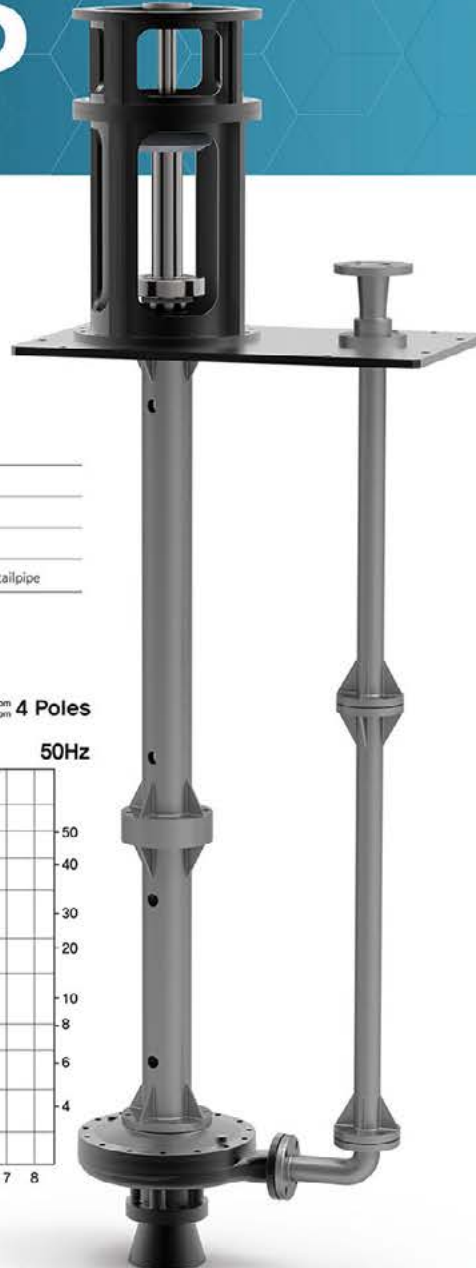
● Ratings

Capacity	UP to 3m ³ /min (792 US GPM)
Head	UP to 40m (131ft)
Pit Depths	to 1.2m (3.9ft)
	Depths to 2.8 meter (9.1ft) with tailpipe

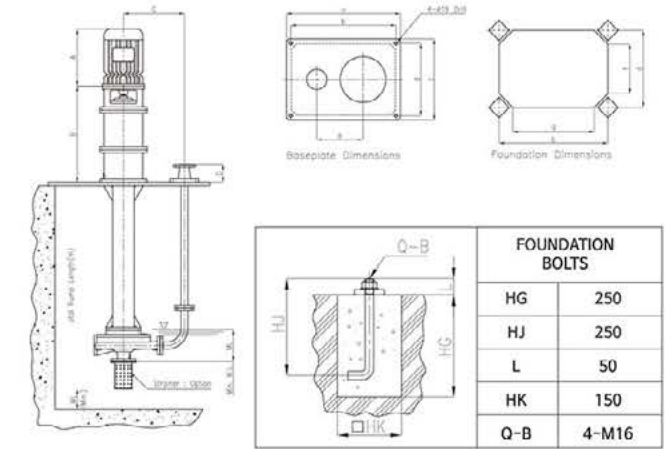
● Selection Charts



60Hz Capacity (m³/min)
 Note: *, Performance ranges shown on these charts are preliminary selection only.

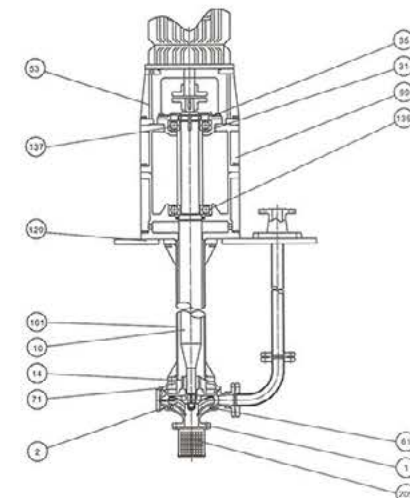


● Installation Dimension



Spec Model	Pump and Motor							Baseplate							Anchor Bolt			
	Frame	kW	H1	H2	WL	MF	J	A	B	C	D	E	F	G	H	B	H	V
5016	90L	1.5	313	354	100	357	100	820	730	600	510	110	357	70	440	4-M16x200L	150	200
5020	112M	3.7	340	364	100	397	100	860	770	600	510	130	397	70	440	4-M16x200L	150	200
6520	132S	5.5	382	384	100	457	100	920	830	600	510	160	457	85	440	4-M16x200L	150	200
8020	132M	7.5	420	384	100	526	100	900	900	600	510	195	526	95	440	4-M16x200L	150	200
1080	100M	19	537	444	130	644	130	1040	1040	600	510	255	644	125	440	4-M16x200L	150	200

● Parts List and Materials



No	Name of part	Material	
1	Casing	GCD450	SSC13
2	Impeller	SSC13	SSC13
10	Shaft	SM45C	STS304
14	Sleeve	GC200	GC200
31	Bearing Housing	GC200	GC200
35	Bearing Cover	GC200	GC200
53	Motor Pedestal	GC200	GC200
61	Front Plate	SSC13	SSC13
71	Adapter	GC200	GC200
99	Bearing Housing	GC200	GC200
101	Column Pipe	SPPS38	STS304
129	Sole Plate	SS400	SS400
137	Upper Bearing	STEEL	STEEL
139	Lower Bearing	STEEL	STEEL
209	Strainer	SS400	SS400

Note: *, Other Materials are available on request

Vertical Pump & Process Pumps

WVP



Applications

- Industrial process
- Industrial sump drainage

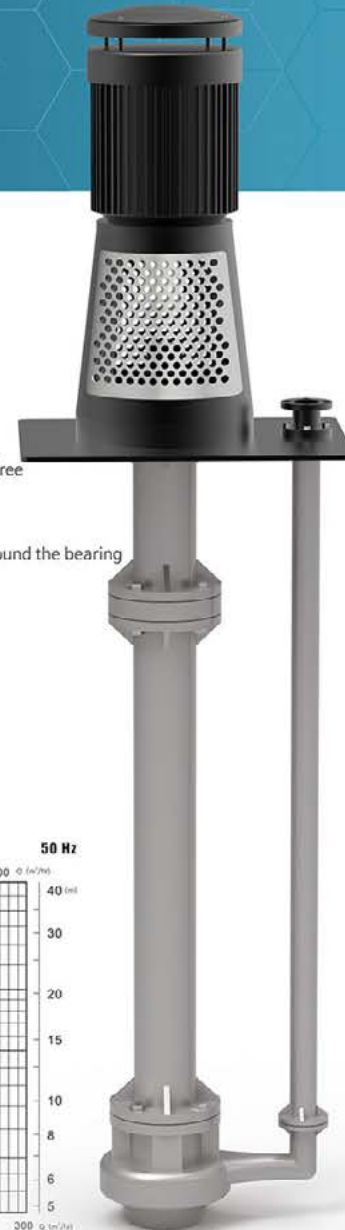
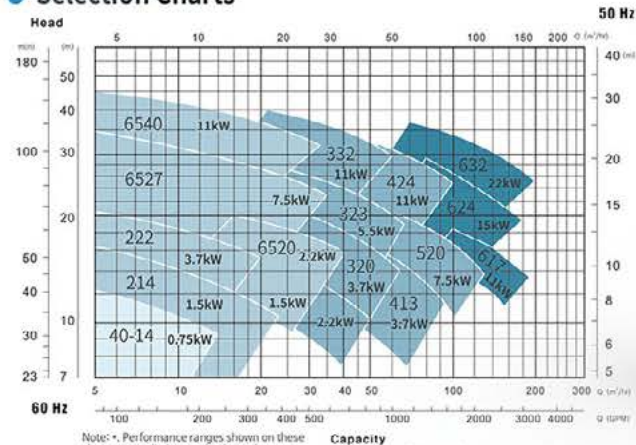
Feature

- ✓ The pump is self-soaked in the water
- ✓ The foot valve is not necessary and maintenance is easy and trouble-free
- ✓ The impeller is semi-open type
- ✓ The gland packing is not required and dirty water does not flow around the bearing
- ✓ Suitable for automatic drainage

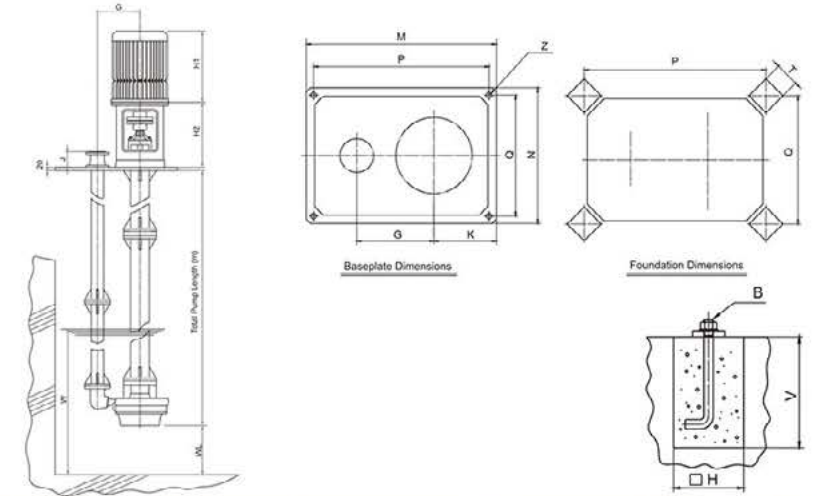
Ratings

Capacity	1.7 to 3.5 m ³ /min (449 to 924 US GPM)
Head	45m (147ft)
Temperature	-115°C (239°F)

Selection Charts



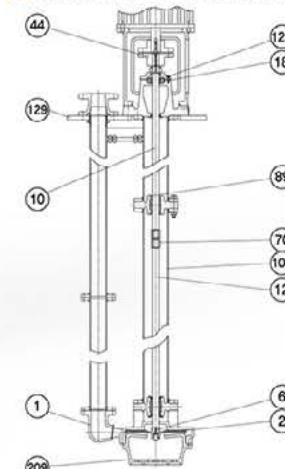
Installation Dimension



Spec	Pump and Motor							Baseplate							Anchor Bolt			
Model	Frame	kW	H1	H2	J	W	WL	G	K	M	N	P	Q	T	Z	B	H	V
214	112S	2.2	315	345	100	370	100	260	230	630	400	500	410	130	4-Ø15D	4-M12x160L	120	160
222	112M	3.7	340	355	100	370	100	260	230	630	480	560	410	130	4-Ø15D	4-M12x160L	120	160
6515	100L	2.2	315	345	100	370	100	260	230	630	480	560	410	130	4-Ø15D	4-M12x160L	120	160
6527	132S	5.5	382	375	100	400	100	260	230	630	460	590	410	130	4-Ø15D	4-M12x160L	120	160
6532	132M	7.5	420	375	100	400	100	260	230	630	480	560	410	130	4-Ø15D	4-M12x160L	120	160
413	132M	7.5	420	417	130	500	250	330	300	810	620	710	520	165	4-Ø19D	4-M16x200L	150	200
424	160M	11	492	447	130	500	250	330	300	810	620	710	520	165	4-Ø19D	4-M16x200L	150	200
520	160M	11	492	447	130	600	300	360	305	860	600	760	500	165	4-Ø19D	4-M16x200L	150	200
526	160L	15	536	447	130	600	300	360	305	860	600	760	500	165	4-Ø19D	4-M16x200L	150	200
617	160M	15	536	447	130	620	300	460	325	1000	680	900	580	200	4-Ø24D	4-M20x315L	180	315
632	160M	22	575	447	130	650	300	490	400	1100	790	1000	690	200	4-Ø24D	4-M20x315L	180	315

Note: * Dimensions are in mm.
 *. The content of this catalogue is to change without notice.

Parts List and Materials



No	Name of part	Material		
1	Casing	GC200	SSC13	SSC14
2	Impeller	BC6	SSC13	SSC14
6	Pump Shaft	SM45C	STS304	STS316
9	Suction Cover	GC200	SSC13	SSC14
10	Head Shaft	SM45C	STS304	STS316
12	Ling Shaft	SM45C	STS304	STS316
18	Bearing	STEEL	STEEL	STEEL
44	Coupling	GC200	GC200	GC200
53	Motor Pedestal	GC200	GC200	GC200
70	Line Shaft Coupling	SM45C	STS304	STS316
89	Oil Seal	NBR	NBR	NBR
101	Column Pipe	SPP	STS304	STS316
123	Bearing Cover	GC200	GC200	GC200
129	Base plate	SS400	SS400	SS400
209	Strainer	GC200	SSC13	SSC14

Note: *. Other Materials are available on request

Self Priming Pumps

SP



Applications

- Process
- Sump drainage
- Chemical industry
- Other Various industries

Feature

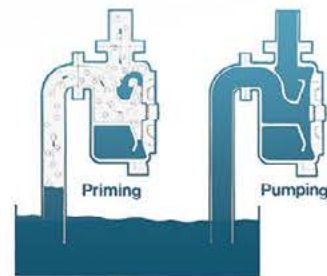
- Completely standardization for wide application
- Foot support and back pull-out design
- Good efficiency
- Heavy and sturdy construction



Ratings

Capacity	Up to 6m ³ /min (1,585 US GPM)
Head	Up to 50m (164ft)
Discharge Pressure	Up to 10kgf/cm ² (142 PSIG)
Allowable Suction Pressure	Up to 5 kgf/cm ² (71 PSIG)
Revolution 60Hz (50Hz)	1750 or 3550 min ⁻¹ (1450 or 2950min ⁻¹)
Rotation	Clockwise viewed from coupling end
Temperature	-50°C - 177°C (-58°F - 350.6°F)
Nozzle Rating	Steel: ANSI CLASS 150, Iron: ANSI CLASS 125
Nozzle Facing	Steel: RF, Iron: FF
Nozzle Location	End Suction: Top Discharge
Impeller Type	OPEN
Seals	Conventional Packing or Mechanical Seal

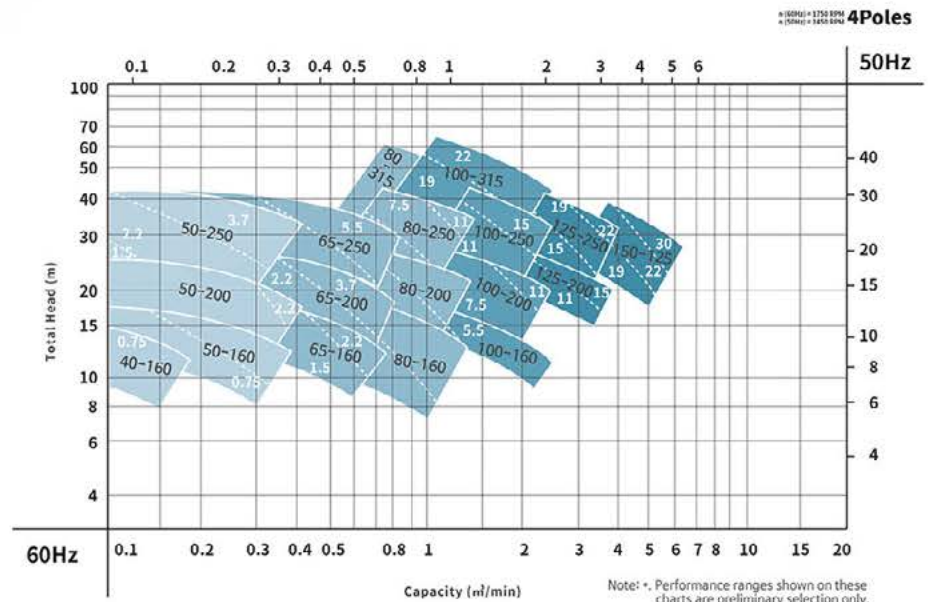
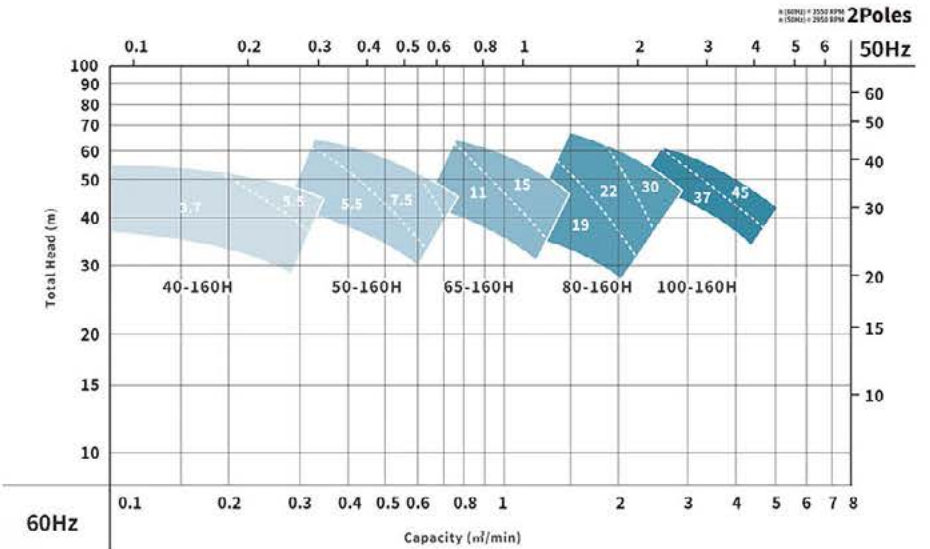
Reliable Self-Priming Operation



- Priming and Air Separation Accomplished Within Casing

Twin volute design exhausts suction with only an initial priming charge of liquid in casing. During priming cycle, lower volute functions as intake while upper volute discharge liquid and entrained air into separation chamber. Air is separated and expelled through pump discharge while liquid recirculates into lower volute. Once air is completely exhausted from suction and liquid fills impeller eye, pump is primed and functions as discharge. Casing is designed so that an adequate volume of liquid for repriming is always retained in pump even if liquid is allowed to drain back to source or supply from discharge and suction.

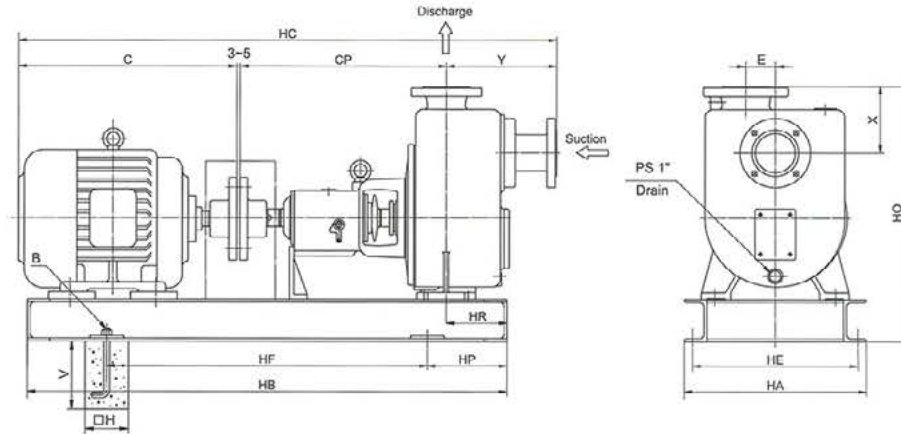
Selection Charts



Note: * Performance ranges shown on these charts are preliminary selection only.

Model. SP

● Installation Dimension

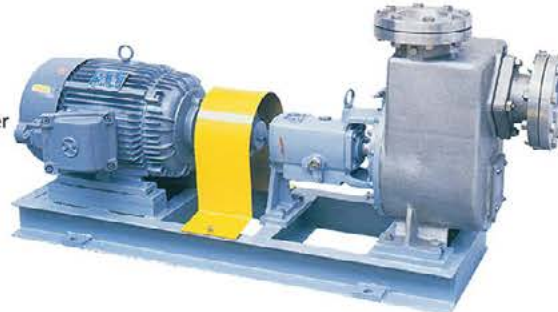


Spec	Pump and Motor										Baseplate						Anchor Bolt			
	Model	Suc	Dis	Frame	kW	HC	C	CP	Y	E	X	HR	HF	HP	HB	HE	HA	HO	B	H
50-200	50	50	112S	2.2	1121	356	510	250	57	160	110	590	155	900	290	320	540	4-M16x250L	150	250
50-250	50	50	132M	7.5	1222	482	510	225	100	155	95	660	170	1000	350	380	585	4-M16x250L	150	250
65-200	65	65	112M	3.7	1147	382	510	250	57	160	110	630	160	950	290	320	540	4-M16x250L	150	250
80-315	80	80	160L	15	1472	593	560	270	80	180	110	830	210	1250	390	430	705	4-M16x250L	150	250
100-250	100	100	112M	3.7	1172	382	515	270	80	175	110	630	160	950	400	430	640	4-M16x250L	150	250
100-315	100	100	160L	15	1472	593	560	270	80	180	110	830	210	1250	390	430	705	4-M16x250L	150	250
125-250	125	125	180L	22	1520	685	565	265	75	195	110	830	210	1250	390	430	715	4-M16x250L	160	250

Note: *. Dimensions are in mm.
 *. The content of this catalogue is to change without notice.

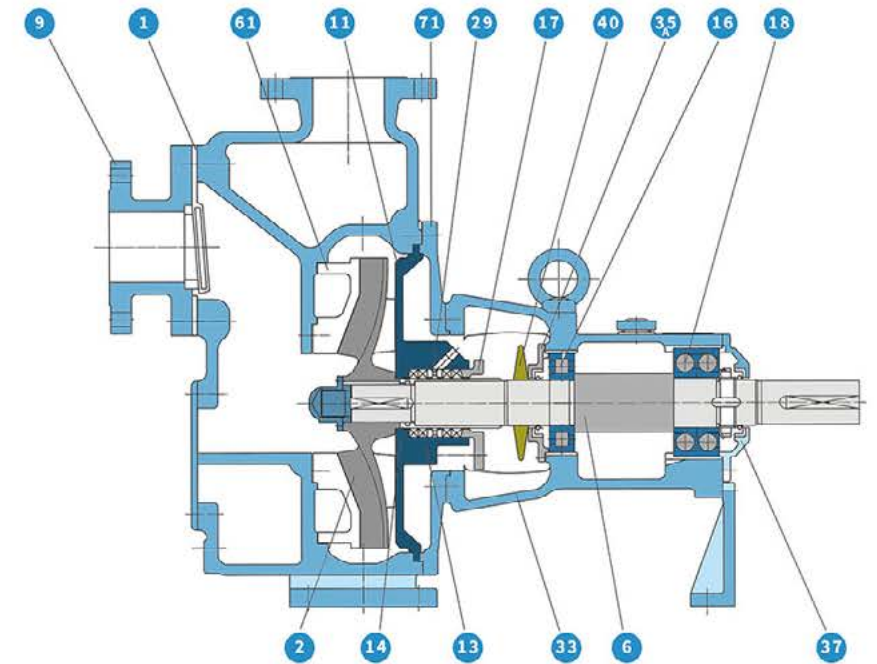
● Photo Resources

**Self Priming Pumps
 for Water purification center**
 -Service : Portable drainage pump
 -Capacity : 180 m³/min
 -Head : 15m
 -Power : 22KW



Model. SP

● Parts List and Materials



No	Name of part	Material		
1	Casing	SSC13	SSC14	GC200
2	Impeller	SSC13	SSC14	SSC13
6	Shaft	STS304	STS316	SM45C
7	Wearing Ring	SSC13	SSC14	GC200
11	Stuffing Box Cover	SSC13	SSC14	GC200
13	Packing	TEFLON	TEFLON	TEFLON
14	Packing Sleeve	STS304	STS316	STS304
16	Inboard Bearing	STEEL	STEEL	STEEL
17	Packing Gland	SSC13	SSC14	GC200
18	Outboard Bearing	STEEL	STEEL	STEEL
29	Lantern Ring	SSC13	SSC14	TEFLON
33	Frame	GC200	GC200	GC200
35A	Inboard Bearing Cover	GC200	GC200	GC200
37	Outboard Bearing Cover	GC200	GC200	GC200
40	Deflector	NBR	NBR	NBR
61	Front Plate	SSC13	SSC14	SSC13
71	Adapter	GC200	GC200	GC200

Note: *. Other Materials are available on request

ANSI Self Priming Pumps

SSP



Applications

- Process
- Sump drainage
- Chemical industry
- Other Various industries

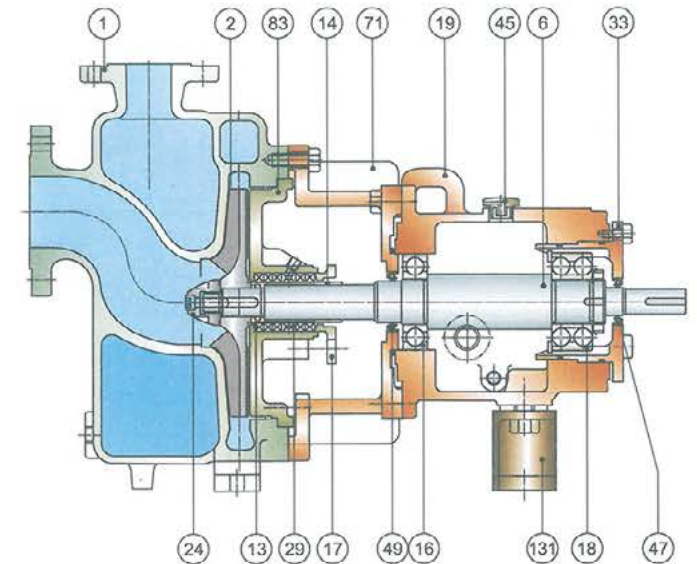
Ratings

Capacity	UP to 6m ³ /min (1,585 US GPM)
Head	UP to 50m (164ft)
Temperature	UP to 177°C (350°F)

Technical Data

Bearing size/Rec. Fit-up	Inboard: MRC (SKF) 310 S/L0 (6310/C3) Outboard: MRC (SKF) 5310(CG/LO)(5310 NR/Std.)
Shaft end play Maximum	0.001"(0.03mm)
Corrosion allowance	1/8"(3mm)
Casing flange	Class 150 raised face is available
Horizontal seal ring radial clearance	0.015~0.025"(0.38~0.64mm)
Impeller setting (Cover plate to impeller)	0.018" min. (0.46mm)
Minimum liquid temperature	-20°F (-29°C) (2)
Maximum liquid temperature without cooling	350°F (177°C)
Maximum liquid temperature with cooling	500°F (260°C) (1)
Maximum allowable horsepower (at 1150 RPM)	50hp (37kW)
Maximum allowable horsepower (at 1750 RPM)	75hp (55kW)
Maximum allowable horsepower (at 3500 RPM)	150hp (110kW)
Maximum RMS finish of shaft at stuffing box	16"(0.4m)

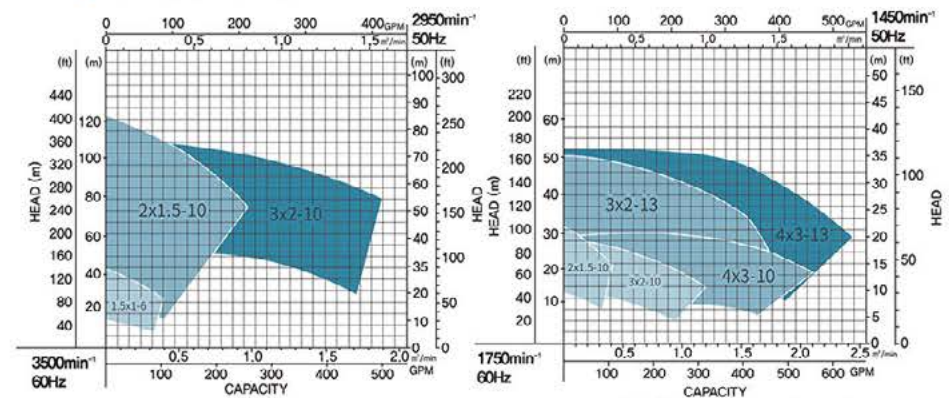
Parts List and Materials



1 Casing	17 Packing Gland	45 Oil Cap (Leakage free air vent)
2 Impeller	18 Outboard Bearing	47 Oil Seal
6 Shaft	19 Frame	49 Oil Seal
13 Packing	24 Impeller Nut	71 Adapter
14 Sleeve	29 Lantern Ring	83 Stuffing Box
16 Inboard Bearing	33 Outboard Bearing Cover	131 Supporter

Note : * Other Materials are available on request

Selection Charts



Note: * Performance ranges shown on these charts are preliminary selection only.

Liquid Ring Type Pumps

CNV

CE



● Applications

- Boiling processes
- Central vacuum systems
- Condenser plants
- Deaerating systems
- Impregnating plants
- Filter Plants
- Distillation plants
- Drying system

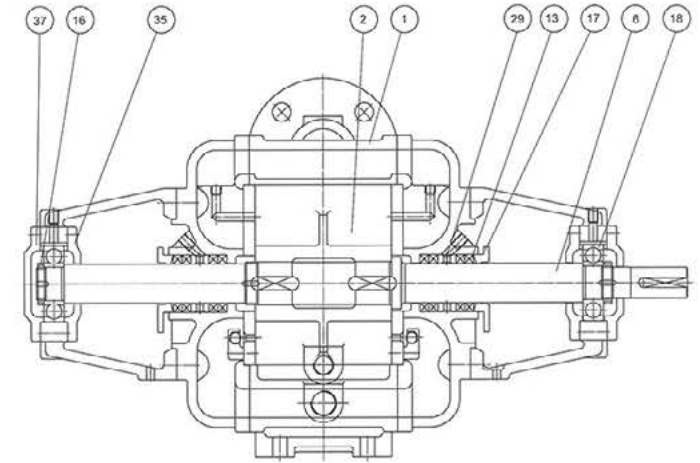
● Feature

- Reliability
- Non-pulsating
- Compact

● Ratings

SIZE	Maximum Vacuum (mmHg)	Maximum Vacuum (m ³ /min)	Pump Revolution (rpm)	Power (kW)	Motor Revolution (rpm)	Power Transmission Devices	Type×Number of Belt	V-Belt PULLY	
								Pith Diameter Motor×Pump	Outside Diameter Motor×Pump
.40	630	1.60		3.7					
50		2.50	1750	5.5		Coupling			
65		3.55		7.5					
80A		6.0	1160	11	1750		B×4	150×224	161×235
80B		8.0		15			B×5		
80C		6.0		11			B×4	150×300	161×311
100A		11.2	880	22			C×4	158×355	194×369
100B		14.0	1160	30			C×4	236×355	250×369
125A	720	17.0	760	30			C×5	250×375	264×389
125B		19.0	854	37			C×5	280×375	294×389
150A		22.0	464	37			C×7	212×375	226×389
150B		24.0	700	45	1160	V-Belt	C×7	224×375	238×389
150C		26.0	770	55			C×7	250×375	264×389
200A		38.0	493	75			D×6	315×745	334×764
200B		44.0	580	93			D×6	375×745	394×764
200C		52.0	660	110			D×6	425×745	444×764

● Parts List and Materials



No	Name of part	MATERIAL	
1	Casing	GC200	SSC13
2	Impeller	SSC13	SSC13
6	Shaft	SM45C	ST5304
13	Gland Packing	TEFLON	TEFLON
16	Inboard Bearing	STEEL	STEEL
17	Packing Gland	GC200	SSC13
18	Outboard Bearing	STEEL	STEEL
29	Lantern Ring	GC200	GC200
35	Inboard Bearing Cover	GC200	GC200
37	Outboard Bearing Cover	GC200	GC200

Note: *. Other Materials are available on request

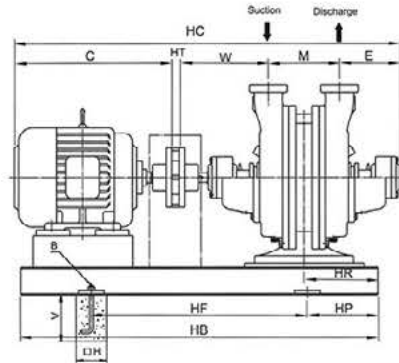
● CNV Pumps

A vacuum pump is a Nash type vacuum pump that circulates a certain amount of water and sucks in air. It is suitable for dehydration and drying dehydrator of well pump, paper factory, chemical factory, etc.

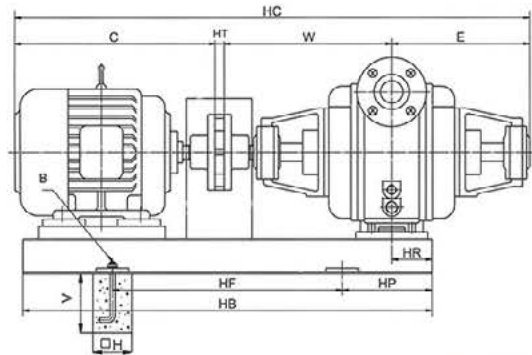


Model. CNV

● Installation Dimension



MODEL : CNV40



MODEL : CNV 50,65,80,100,125

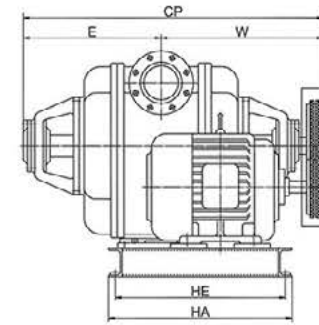
● PUMP & MOTOR Direct connection type

Spec	Pump and motor													Baseplate					Anchor Bolt				
	Suc	Dis	Frame	kW	HC	C	HT	W	E	Y	X	S	M	HF	HP	HB	HR	HO	HE	HA	B	H	V
40	40	40	112M	3.7	870	382	20	190	150	-	200	-	150	500	125	750	135	275	350	380	4-M16x250L	130	250
50	50	50	132S	5.5	1152	444	25	372	311	175	175	123	-	590	155	900	90	408	290	320	4-M16x250L	130	250
65	65	65	132M	7.5	1228	482	30	393	328	200	200	134	-	600	155	910	105	439	320	350	4-M16x250L	130	250
80	80	80	180M	11	1506	593	5	495	413	240	240	180	-	780	200	1180	145	550	390	430	4-M16x250L	130	250
100	100	100	200M	22	1824	747	5	470	482	285	285	194	-	920	240	1400	170	665	450	500	4-M20x3150L	150	315
125	125	125	225M	37	2205	842	5	745	593	330	330	250	-	1120	290	1700	230	820	510	560	4-M20x3150L	150	315

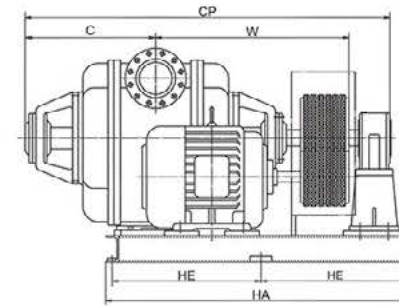
Note: *. Bigger sizes are available on request.

Model. CNV

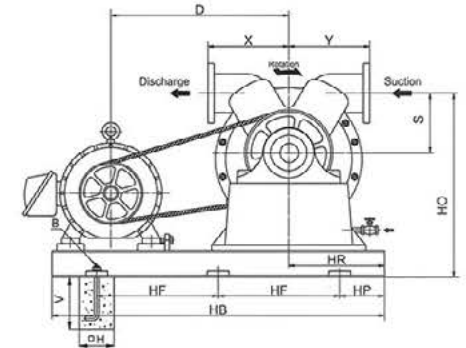
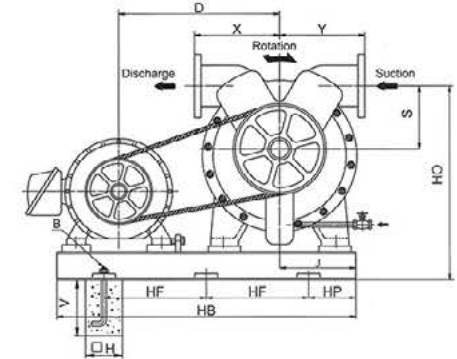
● Installation Dimension



MODEL : CNV 100,125,150



MODEL : CNV 200



● V-BELT type

Spec	Pump and motor													Baseplate					Anchor Bolt		
	Suc	Dis	Frame	kW	CP	E	W	D	X	Y	S	HO	HR	HP	HF	HB	HE	HA	B	H	V
100	100	100	200L	22	1052	482	570	841	285	285	194	665	245	175	500	1350	490	540	6-M20x315L	150	315
125	125	125	225M	37	1338	593	745	985	330	330	250	820	280	260	515	1550	660	720	6-M20x315L	150	315
150	150	150	250S	45	1385	600	785	1055	370	370	280	880	330	280	545	1650	700	750	6-M20x315L	150	315
200	200	200	280M	93	1960	710	990	1238	450	450	380	1170	440	340	710	2100	740	1550	6-M24x400L	200	400

Note: *. Bigger sizes are available on request.

High Vacuum Liquid Ring Pumps

E



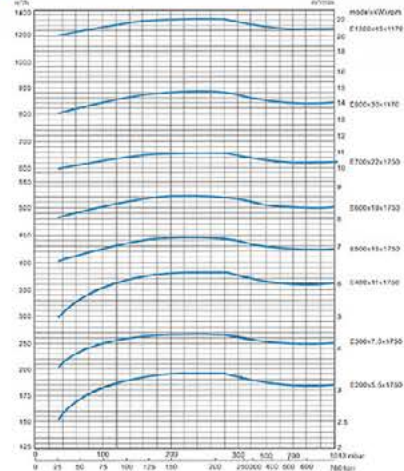
● Applications

- Deaerating
- Impregnating plants
- Drying system
- Concentrating
- Condenser Exhausting
- Filtering

● Feature

- High efficiency
- High Vacuum
- Low Noise and Vibration
- Standardization
- Easy Maintenance

● Selection Chart

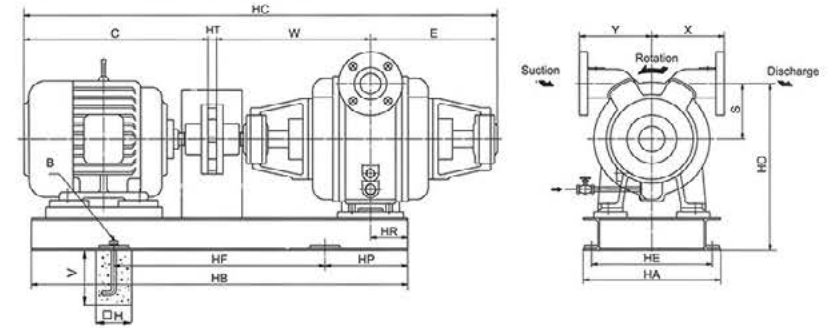


● Ratings

Capacity	UP to 22m ³ /min (5,812 US GPM)
Vacuum	UP to 720 mmHg
Temperature	UP to 60°C (140°F)

These performance curves are based on operating conditions with saturated air at a temperature of 20°C, operating water at a temperature of 15°C, and discharge pressure of 760mmHg abs (With a tolerance of ±10%). Air ejector of the series type AJ are available for suction pressure which are less than 25 Torr (735mmHg abs)

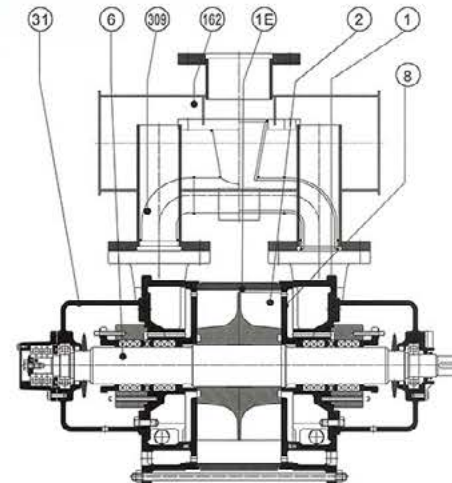
● Installation Dimension



Spec Model	Dis. (mm)	HC	CP	W	X	S	Z	HA	HE	HB	HF1	HP1	HR	HH	C
E200	50	1081	637	414	210	585	765	390	350	1000	800	100	100	20	444
E300	65	1192	710	367	210	585	765	390	350	1000	800	100	150	20	482
E400	65	1363	770	397	210	585	765	390	350	1120	900	110	150	20	583
E500	100	1412	775	399	250	720	895	440	400	1250	1000	125	180	20	637
E600	100	1462	815	419	250	720	895	440	400	1250	1000	125	180	20	647
E700	100	1530	845	434	250	720	895	440	400	1250	1000	125	180	20	685
E900	125	1792	975	507	310	1010	1195	610	550	1600	1250	175	180	28	817
E1300	125	1951	1095	567	310	1010	1195	610	550	1600	1250	175	200	28	856

Note: *. Bigger sizes are available on request.

● Parts List and Materials



No	NAME OF PART	MATERIAL		
1	Casing	GC200	SSC13	SSC14
2	Impeller	GCD450	SSC13	SSC14
6	Shaft	STS420	STS304	STS316
8	Port Plate	GCD450	SSC13	SSC14
1E	Inter Casing	SS400	SSC13	SSC14
31	Bearing Housing	GC200	GC200	GC200
309	Suction Manifold	GC200	SSC13	SSC14
162	Separator	SS400	STS304	STS304

Note: *. Other Materials are available on request

Horizontal Axial Flow Pumps

HA

CE

● Applications

- General industry
- Factory Drainage
- Rain-water Drainage
- Agriculture

● Ratings

Capacity	7.5 to 350 m ³ /min (1,981 to 92,460 US GPM)
Head	1.5 to 5m (4.9 to 16.4ft)
Size	400 to 1500mm (15.74 to 59inch)



Horizontal Shaft Mixed Flow Pumps

HM

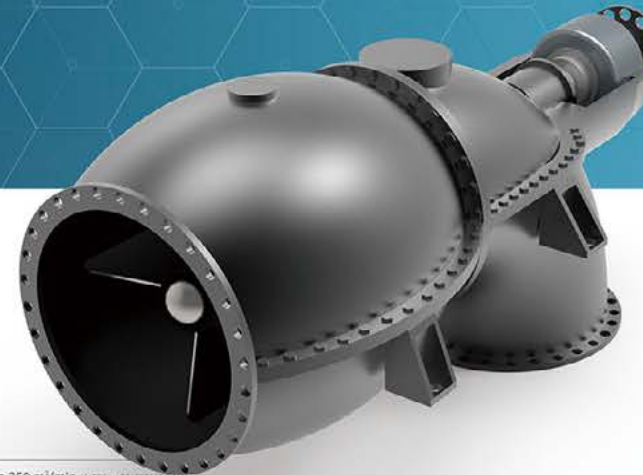
CE

● Applications

- General industry
- Factory Drainage
- Rain-water Drainage
- Agriculture

● Ratings

Capacity	7.5 to 350 m ³ /min (1,981 to 92,460 US GPM)
Head	1.5 to 5m (4.9 to 16.4ft)
Size	400 to 1500mm (15.74 to 59inch)



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