Pumps & Systems

SBT

Multi-stage Oil Pump

Source Pumps & Systems Co., LTD.

www.sourcegroup.com.cn

Add: No.18 Xidian, Qian mu cheng yi, Ying cheng zi Street,Ganjingzi District, Dalian, China 116036
TEL: +86-411-66853898
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General:

Type SBT, multi-stage horizontal radial split casing centrifugal pump, is designed in accordance with API610 and VDMA24297A (heavy duty),. Ideal for applications of petroleum and LPG in Petroleum Refineries, Petrochemical and Chemical factories, as well as other inflammable, explosive and toxic liquids without solids but in high temperature and pressure conditions.

Features:

- An upgraded new product from its original model transferred from Byron Jackson, USA.
- Standard piping design in accordance with API610 and flange drilled to meet GB, DIN and ANSI Standards
- Bearing assembly constructed with advanced sliding and axial thrust bearings.
- High efficiency and energy-saving hydraulic models utilized for design of liquid contacted components, as a result efficiency increased by 3~5% than ordinary oil pumps.
- Configuration, dimensions and performance data shall be basically identical with its original type Y pumps.
- Pump components and spare parts highly interchangeable.
- Pump components materials can be selected from two standard Group II and III, more choices also available upon request for applications in cold and open locations and ocean vessels.
- All bearings shall be water cooled.

Model Nomenclature

E.G.: SBTI40Ax4

50 — Suction Dia. (mm)
x4 — Upgraded for the 1st time
SBT — Centrifugal oil pump
II — Materials Group
35 — Single stage Head (m)
7 — No. of stages
B — Impeller Variation

Materials of Construction

Code	S-1	S-4	S-6	C-6	A-8
Materials	ZG230-450	ZG230-450	ZG230-450	ZG1Cr13Ni	ZGCr18Ni12Mo2Ti
Impeller	HT250	ZG230-450	ZG1Cr13Ni	ZG1Cr13Ni	ZGCr18Ni12Mo2Ti
Casing Wear Ring	HT250	HT250	ZG1Cr13MoS	ZG1Cr13MoS	OCr18Ni12Mo2Ti
Imp Wear Ring	OT500-7	OT500-7	3Cr13	3Cr13	OCr18Ni12Mo2Ti
Shaft	45	45	45CrMo OR 35CrMo	3Cr13	Cr18Ni12Mo2Ti
Shaft Sleeve (packing)	3Cr13	1Cr13 Cladding Tungsten Carbide	1Cr13 Cladding Tungsten Carbide	1Cr13 Cladding Tungsten Carbide	Cr18Ni12Mo2Ti
Shaft Sleeve Mech Seal)	Icr18Ni9 or 3Cr13	Icr18Ni9 or 3Cr13	Icr18Ni9 or 3Cr13	Icr18Ni9 or 3Cr13	Cr18Ni12Mo2Ti

Piping System

Shaft stuffing box, bearing or pump frame shall be cooled with water according to medium temperature and pressure. Flow of cooling water in each pipe line is recommended within the range of 0.2~0.5 m^3/h, and pressure 0.2~0.3Mpa. Sealing flush fluids vary according to operating conditions such as temperature and pressure etc.

Pressure differential between flushing fluid and stuffing box needs to be 0.07~0.1Mpa as a rule. In case of calorific medium, the differential shall be min. 0.175~0.2Mpa higher than the vaporizing pressure. Steam piping, around 0.1Mpa, shall be equipped when medium temperature tends down to crystallizing point.

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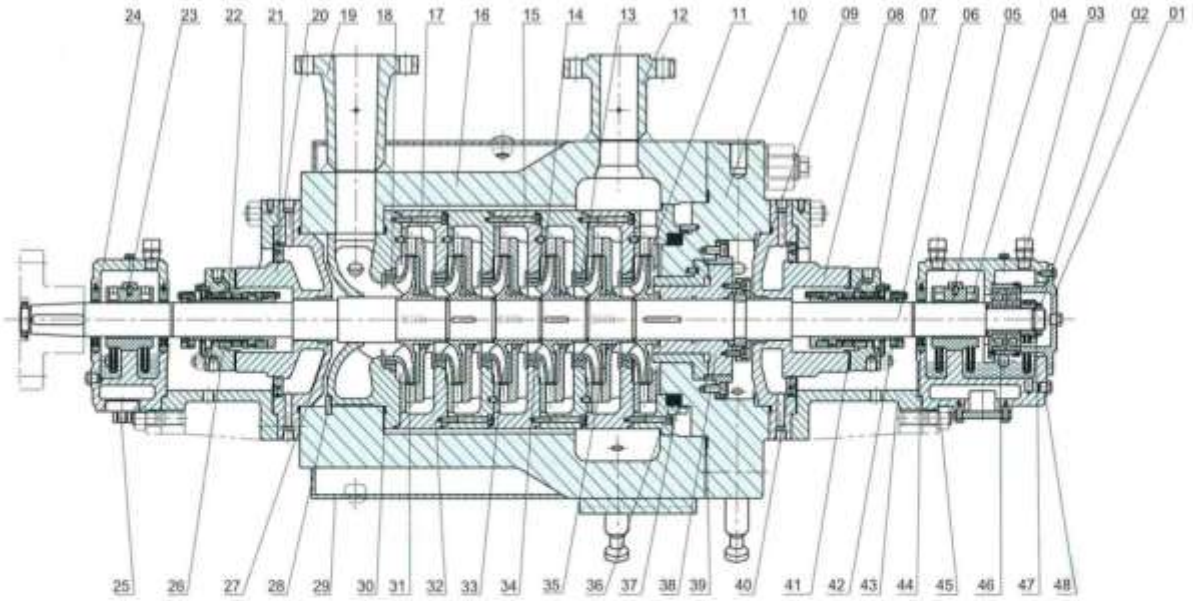
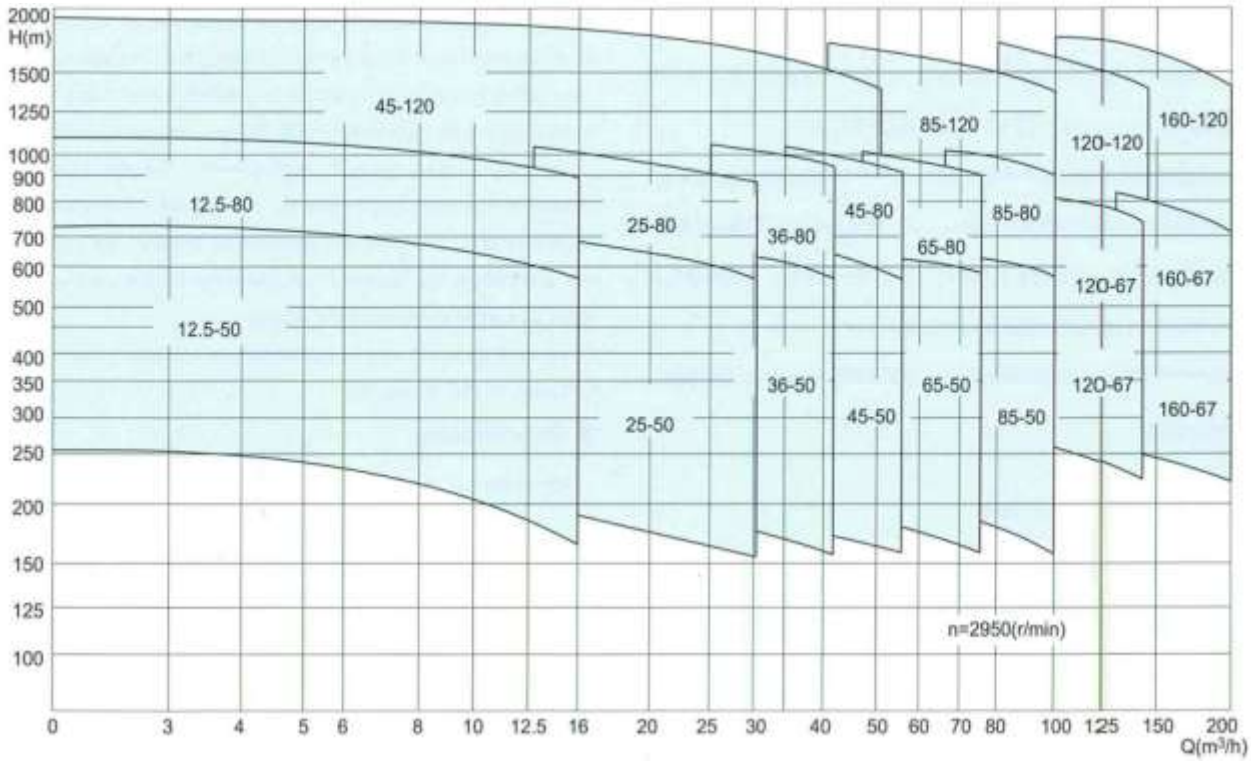
Configuration Drawings



01	Bearing Cover	09	Seal Gasket	17	Diffuser	25	Conical Plug	33	Impeller	41	Seal Gasket
02	Nut	10	Pump Cover	18	Suction Wear Ring	26	Shaft Sleeve	34	Stage Wear Ring	42	Driving Ring
03	Vent Plug	11	Last Stage Impeller	19	Suction	27	Throat Bush	35	Diffuser Wear Ring	43	Bearing Bracket
04	Lubricating Ring	12	Discharge	20	O-Ring	28	Key	36	Foot Mat	44	Deflector
05	Sliding Bearing	13	Wear Ring	21	Pump Cover	29	Heating Jacket	37	Steel Gasket	45	Bearing House (Discharge)
06	Shaft	14	O-Ring	22	Mechanical Seal	30	Gasket	38	Blance Disc	46	Bearing
07	Seal Cover	15	Stage Casing	23	Sliding Bearing	31	First Stage Impeller	39	Gasket	47	Retention Gasket
08	Mechanical Seal House	16	Pump Shell	24	Bearing House	32	Stage Casing	40	O-Ring	48	Hexagonal Plug

Family Curves



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SBT Table of Standard Performance

Performance Parameter / Pump Type	Flow	Head	Speed	Eff.	NPSHr	Input power	Motor (kW)	
	Q	H	n	η		Pa		
	(m^3/h)	m	r/min	%	m	kW	Type	Power
36-50×4	36	200	2950	55	3.4	36	YB225M-2	45
36-50×5	36	250	2950	55	3.4	45	YB250M-2	55
36-50×6	36	300	2950	55	3.4	54	YB280S-2	75
36-50×7	36	350	2950	55	3.4	63	YB280S-2	75
36-50×8	36	400	2950	55	3.4	72	YB225M-2	90
36-50×9	36	450	2950	55	3.4	81	YB315S-2	110
36-50×10	36	500	2950	55	3.4	90	YB315S-2	110
36-50×11	36	550	2950	55	3.4	98	YB315M-2	132
36-50×12	36	600	2950	55	3.4	107	YB315M-2	132
45-50×4	45	200	2950	61	4	41	YB250M-2	55
45-50×5	45	250	2950	61	4	51	YB280S-2	75
45-50×6	45	300	2950	61	4	61	YB280S-2	75
45-50×7	45	350	2950	61	4	71	YB280M-2	90
45-50×8	45	400	2950	61	4	81	YB315S-2	110
45-50×9	45	450	2950	61	4	91	YB315S-2	110
45-50×10	45	500	2950	61	4	101	YB315M-2	132
45-50×11	45	550	2950	61	4	111	YB315M-2	160
45-50×12	45	600	2950	61	4	121	YB315M-2	160
65-50×4	65	200	2950	62	4.2	57	YB280S-2	75
65-50×5	65	250	2950	62	4.2	72	YB280M-2	90
65-50×6	65	300	2950	62	4.2	86	YB315S-2	110
65-50×7	65	350	2950	62	4.2	100	YB315M-2	132
65-50×8	65	400	2950	62	4.2	115	YB315M-2	132
65-50×9	65	450	2950	62	4.2	129	YB315L1-2	160
65-50×10	65	500	2950	62	4.2	143	YB315L1-2	160
65-50×11	65	550	2950	62	4.2	152	YB315L1-2	185
65-50×12	65	600	2950	62	4.2	172	YB355S3-2	220
85-50×4	85	200	2950	70	4.5	67	YB280M-2	90
85-50×5	85	250	2950	70	4.5	83	YB315S-2	110
85-50×6	85	300	2950	70	4.5	100	YB315M-2	132
85-50×7	85	350	2950	70	4.5	116	YB315L1-2	160
85-50×8	85	400	2950	70	4.5	133	YB315L1-2	160
85-50×9	85	450	2950	70	4.5	149	YB315L2-2	185
85-50×10	85	500	2950	70	4.5	166	YB315L2-2	200
85-50×11	85	550	2950	70	4.5	182	YB355S3-2	220
85-50×12	85	600	2950	70	4.5	199	YB355S4-2	250
12.5-80×4	12.5	320	2950	30	3	37	YB225M-2	45
12.5-80×5	12.5	400	2950	30	3	46	YB250M-2	55
12.5-80×6	12.5	480	2950	30	3	55	YB280S-2	75
12.5-80×7	12.5	560	2950	30	3	64	YB280S-2	75
12.5-80×8	12.5	640	2950	30	3	73	YB280M-2	90
12.5-80×9	12.5	720	2950	30	3	82	YB315S-2	110
12.5-80×10	12.5	800	2950	30	3	91	YB315S-2	110
12.5-80×11	12.5	880	2950	30	3	100	YB315M-2	132
12.5-80×12	12.5	960	2950	30	3	109	YB315M-2	132
25-80×4	25	320	2950	38	3.2	58	YB280S-2	75
25-80×5	25	400	2950	38	3.2	72	YB280M-2	90
25-80×6	25	480	2950	38	3.2	86	YB315S-2	110
25-80×7	25	560	2950	38	3.2	101	YB315M-2	132
25-80×8	25	640	2950	38	3.2	115	YB315L1-2	160
25-80×9	25	720	2950	38	3.2	129	YB315L1-2	160
25-80×10	25	800	2950	38	3.2	144	YB315L2-2	185
25-80×11	25	880	2950	38	3.2	158	YB315L3-2	200
25-80×12	25	960	2950	38	3.2	172	YB355S3-2	220

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SBT Table of Standard Performance

Performance Parameter / Pump Type	Flow Q	Head H	Speed n	Eff. η	NPSHr	Input power Pa	Motor (kW)	
	(m^3/h)	m	r/min	%	m	kW	Type	Power
36-80×4	36	320	2950	46	3.6	68.2	YB280M-2	90
36-80×5	36	400	2950	46	3.6	85.3	YB315S-2	110
36-80×6	36	480	2950	46	3.6	103	YB315M-2	132
36-80×7	36	560	2950	46	3.6	120	YB315L1-2	160
36-80×8	36	640	2950	46	3.6	137	YB315L1-2	185
36-80×9	36	720	2950	46	3.6	154	YB315L2-2	200
36-80×10	36	800	2950	46	3.6	171	YB355S3-2	220
36-80×11	36	880	2950	46	3.6	188	YB355S4-2	250
36-80×12	36	960	2950	46	3.6	205	YB355S4-2	250
45-80×4	45	320	2950	55	4	71.3	YB280M-2	90
45-80×5	45	400	2950	55	4	90	YB315S-2	110
45-80×6	45	480	2950	55	4	107	YB315M-2	132
45-80×7	45	560	2950	55	4	125	YB315L1-2	160
45-80×8	45	640	2950	55	4	143	YB315L1-2	185
45-80×9	45	720	2950	55	4	161	YB315L2-2	200
45-80×10	45	800	2950	55	4	179	YB355S3-2	220
45-80×11	45	880	2950	55	4	196	YB355S4-2	250
45-80×12	45	960	2950	55	4	214	YB355S4-2	250
65-80×4	65	320	2950	62	4.2	92	YB315S-2	110
65-80×5	65	400	2950	62	4.2	115	YB315M-2	132
65-80×6	65	480	2950	62	4.2	137	YB315L1-2	160
65-80×7	65	560	2950	62	4.2	160	YB315L2-2	200
65-80×8	65	640	2950	62	4.2	183	YB355S3-2	220
65-80×9	65	720	2950	62	4.2	206	YB315S4-2	250
65-80×10	65	800	2950	62	4.2	229	YB355M-2	280
65-80×11	65	880	2950	62	4.2	252	YB355L-2	315
65-80×12	65	960	2950	62	4.2	275	YB355L-2	315
85-80×4	85	320	2950	66	4.5	113	YB315M-2	132
85-80×5	85	400	2950	66	4.5	141	YB315L1-2	185
85-80×6	85	480	2950	66	4.5	169	YB355S3-2	220
85-120×7	85	840	2950	64	4.5	304	YB450S2-2	355
85-120×8	85	960	2950	64	4.5	348	YB450S3-2	400
85-120×9	85	1080	2950	64	4.5	391	YB450M1-2	450
85-120×10	85	1200	2950	64	4.5	435	YB450M2-2	500
85-120×11	85	1320	2950	64	4.5	478	YB560S2-2	560
85-120×12	85	1440	2950	64	4.5	821	YB560M1-2	630
120-120×4	120	480	2950	72	4.6	218	YB355S4-2	250
120-120×5	120	600	2950	72	4.6	273	YB355L-2	315
120-120×6	120	720	2950	72	4.6	327	YB450S3-2	400
120-120×7	120	840	2950	72	4.6	382	YB450M1-2	450
120-120×8	120	960	2950	72	4.6	436	YB450M2-2	500
120-120×9	120	1080	2950	72	4.6	491	YB560S2-2	560
120-120×10	120	1200	2950	72	4.6	545	YB560M1-2	630
120-120×11	120	1320	2950	72	4.6	600	YB560M2-2	710
120-120×12	120	1440	2950	72	4.6	653	YB630S1-2	800
160-120×4	160	480	2950	74	5	283	YB450S2-2	355
160-120×5	160	600	2950	74	5	354	YB450M1-2	450
160-120×6	160	720	2950	74	5	424	YB450M2-2	500
160-120×7	160	840	2950	74	5	495	YB560S2-2	560
160-120×8	160	960	2950	74	5	566	YB560M1-2	630
160-120×9	160	1080	2950	74	5	636	YB560M2-2	710
160-120×10	160	1200	2950	74	5	707	YB630S1-2	800
160-120×11	160	1320	2950	74	5	778	YB630S2-2	900
160-120×12	160	1440	2950	74	5	848	YB630M1-2	1000

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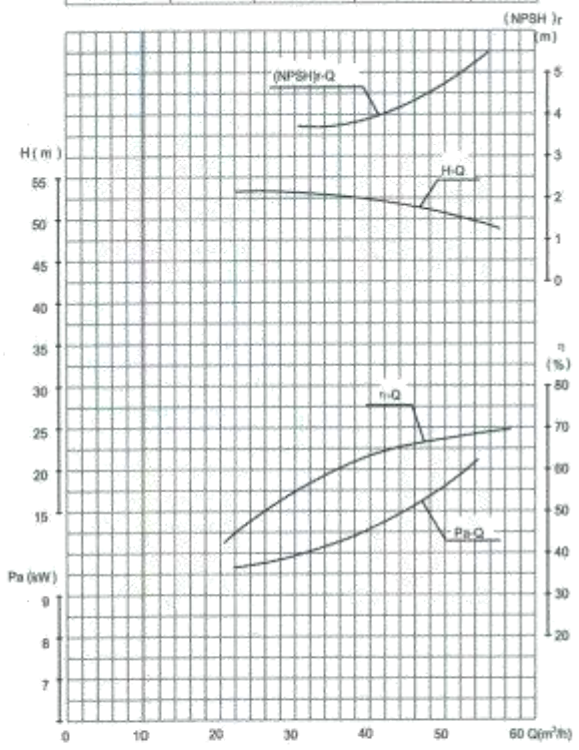
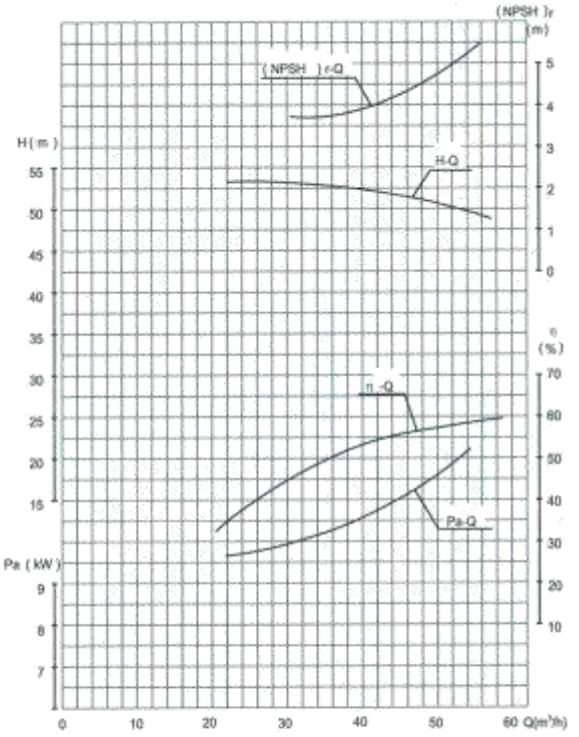
Performance Curve

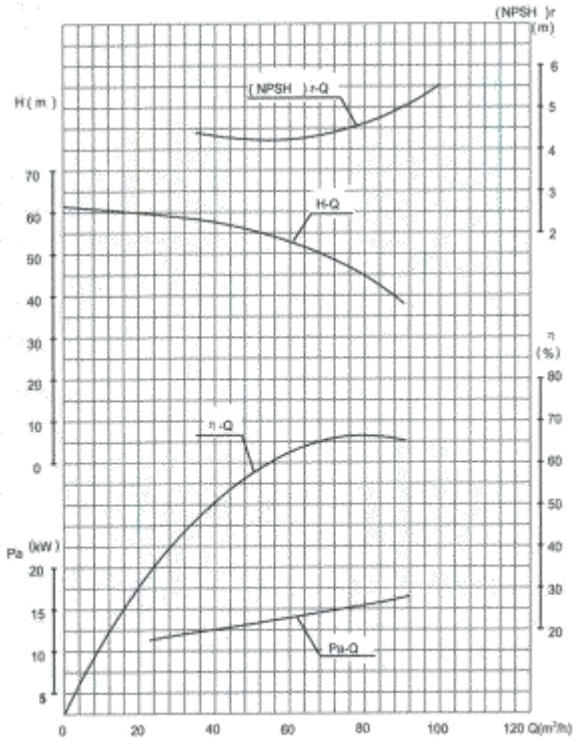
Type of Pump	Speed	Suction Branch	Discharge Branch	n_s
36-50	2950r/min	100mm	50mm	147.6



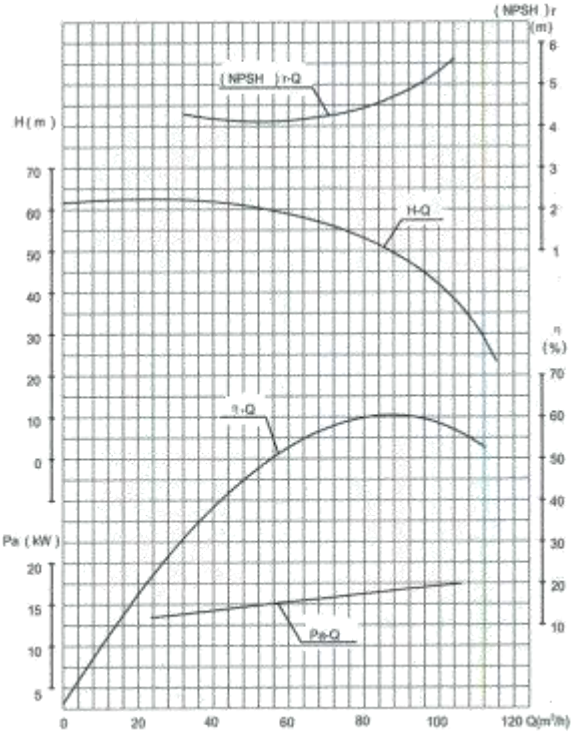
Type of Pump	Speed	Suction Branch	Discharge Branch	n_s
45-50	2950r/min	100mm	50mm	64



Type of Pump	Speed	Suction Branch	Discharge Branch	n_s
65-50	2950r/min	150mm	80mm	77



Type of Pump	Speed	Suction Branch	Discharge Branch	n_s
85-50	2950r/min	150mm	80mm	88



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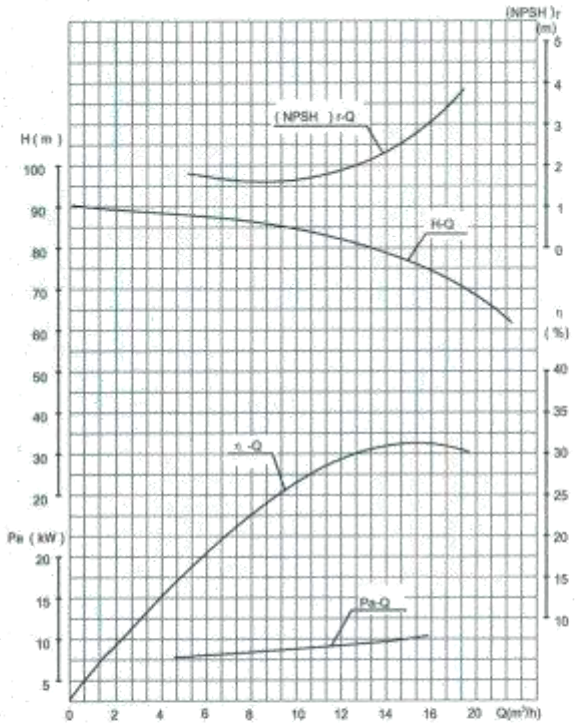
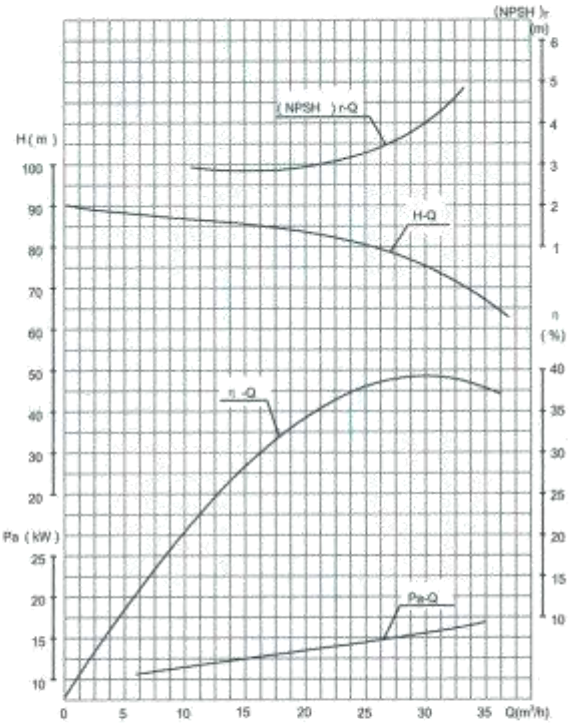
Performance Curve

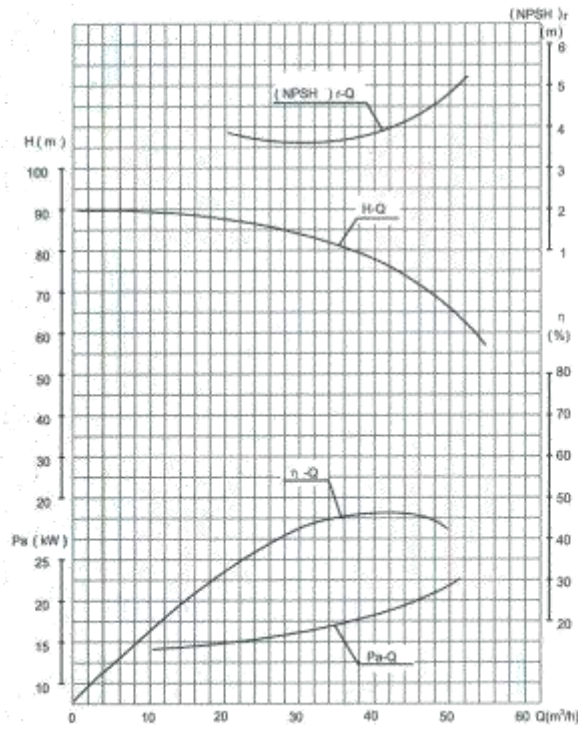
Type of Pump	Speed	Suction Branch	Discharge Branch	n_s
12.5-80	2950r/min	80mm	40mm	33.7



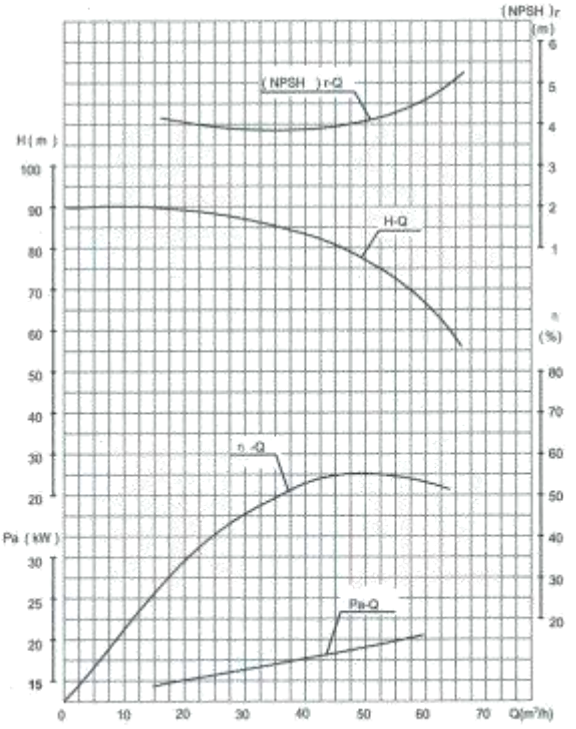
Type of Pump	Speed	Suction Branch	Discharge Branch	n_s
25-80	2950r/min	80mm	40mm	47.7



Type of Pump	Speed	Suction Branch	Discharge Branch	n_s
36-80	2950r/min	100mm	50mm	40.2



Type of Pump	Speed	Suction Branch	Discharge Branch	n_s
45-80	2950r/min	100mm	50mm	45.0



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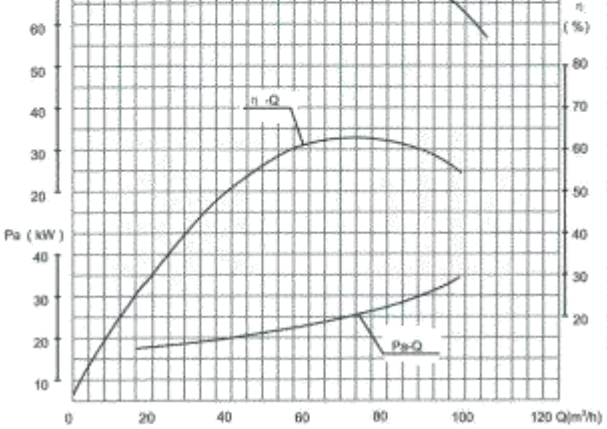
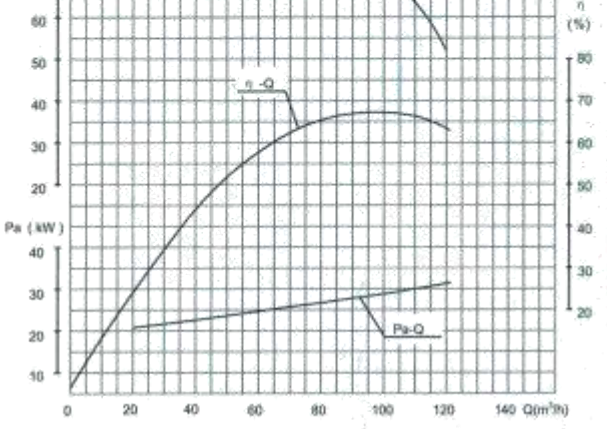
Performance Curve

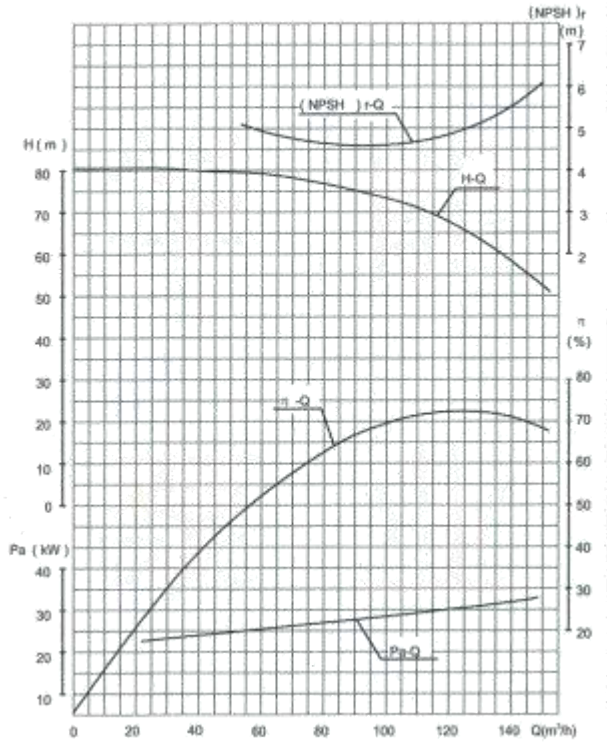
Type of Pump	Speed	Suction Branch	Discharge Branch	n_s
65-80	2950r/min	150mm	80mm	54.1



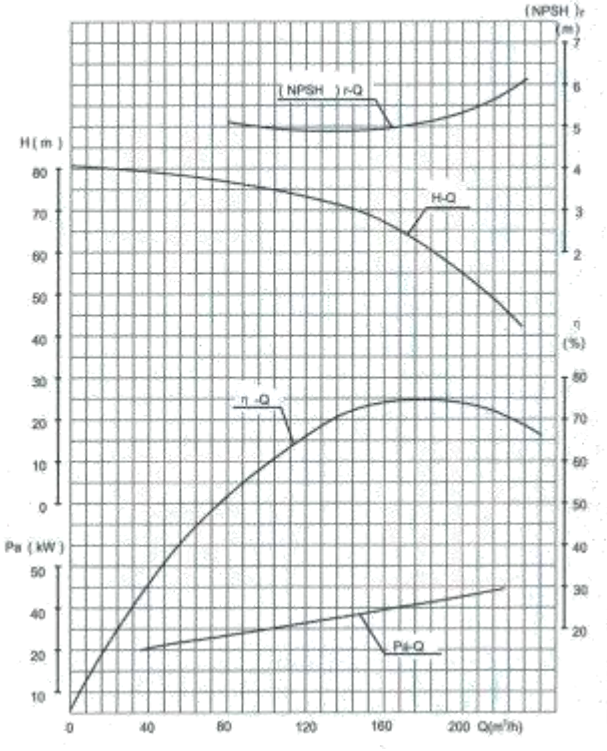
Type of Pump	Speed	Suction Branch	Discharge Branch	n_s
85-80	2950r/min	150mm	80mm	61.8



Type of Pump	Speed	Suction Branch	Discharge Branch	n_s
120-67	2950r/min	150mm	100mm	83.9



Type of Pump	Speed	Suction Branch	Discharge Branch	n_s
160-67	2950r/min	150mm	100mm	96.9



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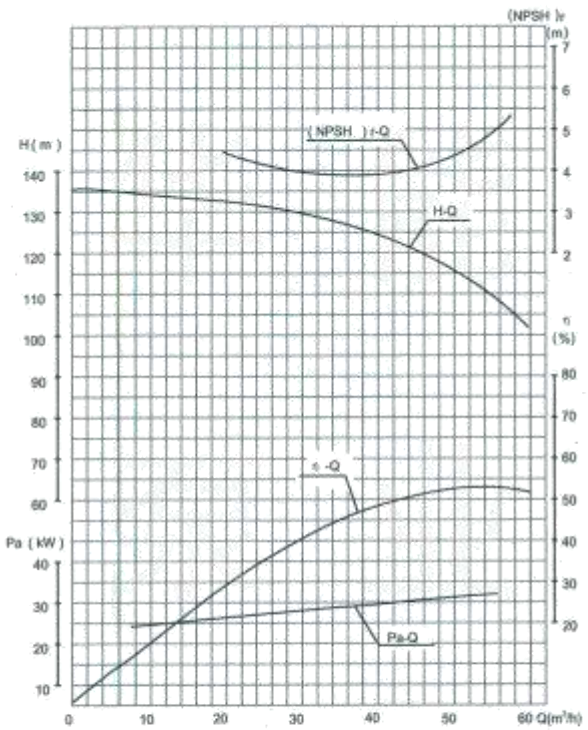
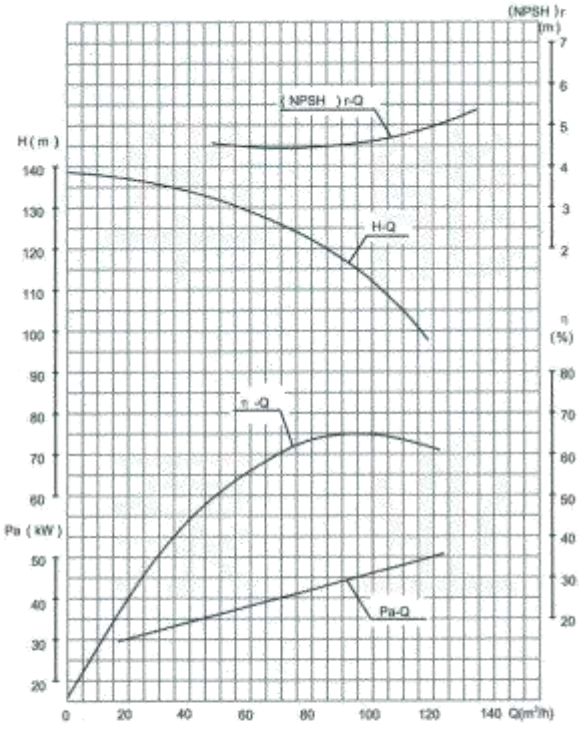
Pumps & Systems

Performance Curve

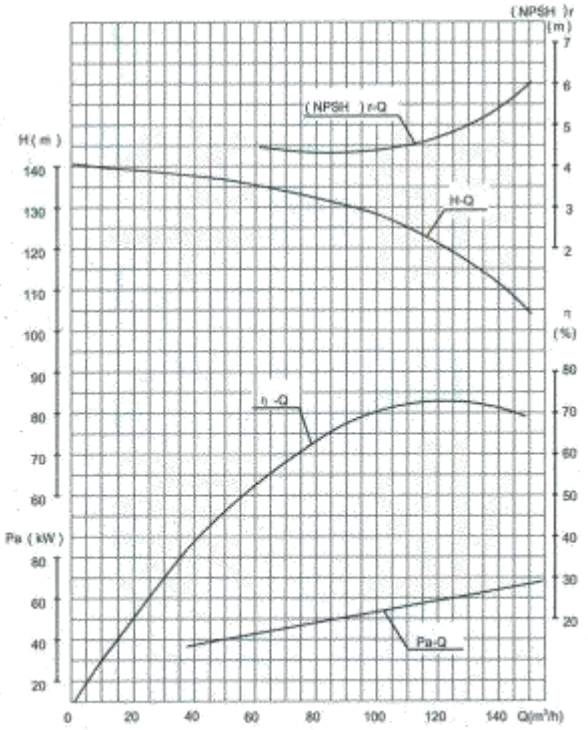
Type of Pump	Speed	Suction Branch	Discharge Branch	η_b
45-120	2950r/min	100mm	50mm	33.2



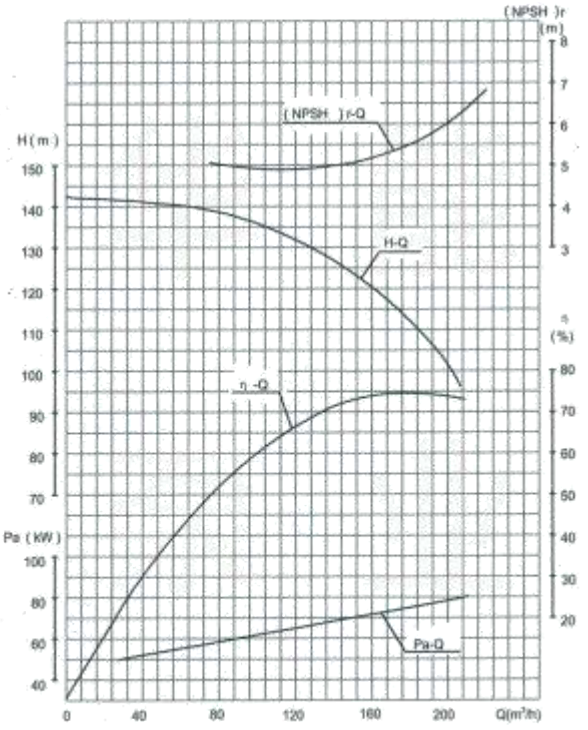
Type of Pump	Speed	Suction Branch	Discharge Branch	η_b
85-120	2950r/min	150mm	80mm	45.6



Type of Pump	Speed	Suction Branch	Discharge Branch	η_b
120-120	2950r/min	150mm	100mm	54.2



Type of Pump	Speed	Suction Branch	Discharge Branch	η_b
160-120	2950r/min	150mm	100mm	62.6



Pumps & Systems

SOURCE PUMPS & SYSTEMS CO.,LTD

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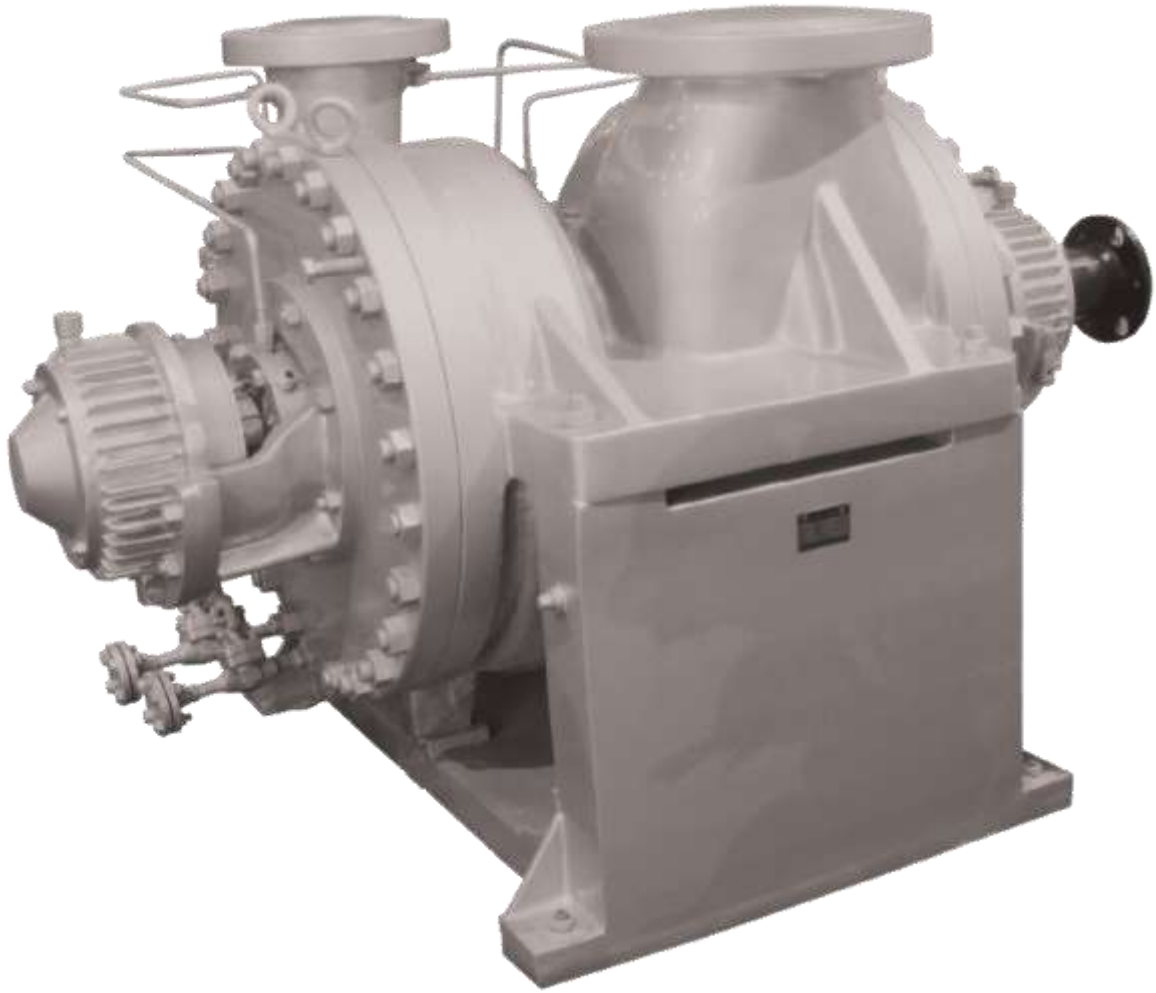
Pumps & Systems

SBR

Single Stage Double Suction Centrifugal pumps
(API610 BB2)



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Overview

Series SBR is a horizontal between bearings radially-split double-volute single-, two- or three-stage centrifugal pump. Two hydraulic powers of high efficiency and anti-cavitation can be selected for the impeller depending on the operation condition so that it can be used for a broader range of operation conditions.
Series HR pumps comply with the design requirements in API 61010th and API 61011th. The product was designed by reference with the design and hydraulic performance of the most excellent similar products at home and abroad and by use of the advanced hydraulic power and strength analysis software. The strict international quality control system was applied in the process control of product to ensure that the overall performance of the product reaches the China-leading and world-advanced level.

Application range

Widely used for recovering excessive hydraulic pressure energy from petroleum refining, petrochemical, CTL, coal chemical, natural gas processing, polycrystalline silicon, platforming, heating and other plants. Typically used as hydraulic desulfurization and decarburization turbines in synthetic ammonia plants, hydraulic hydrogenation turbines in petroleum refining plants, hydraulic circulating water recovery turbines in polycrystalline silicon plants, turbine expansion engines in liquefied natural gas stations, hydraulic high-pressure water recovery turbines in sea water desalinization, etc.

Materials

Main materials: S-5, S-6, S-8, C-6, A-7, A-8, D-1, D-2 and other materials to API610, or designed according to the requirement of the customers.

Sealing

The sealing system designed completely according to API 682 Standard 3rd Edition "Pumps-Shaft Sealing Systems for Centrifugal and Rotary Pumps" can be configured with different types of seals and seal flushing and cooling modes, or as required by the customer.

Technical

◎ **Capacity** **Q: 20 ~ 4500 m3/h**
◎ **Head** **H: ~ 660 m**
◎ **Pressure** **P: 5, 10, 15 MPa**
◎ **Temperature** **T: -80℃ ~ +450℃**

● Direction of rotation

In section of hydraulic turbines, the direction of rotation can be selected according to the setting of drive units.

● Configurations

There are three typical configurations for the unit, as below:
Turbine + pump
Turbine + clutch + motor + pump
Turbine + clutch + motor + gearbox + pump
Technical innovation on the unit:
Turbine + asynchronous motor + current processor
The innovative technology makes the turbine directly drive the asynchronous motor to generate electricity and ensure that the electricity quality meets the state's requirement for grid electricity so that the field operation, unit arrangement and energy recovery are optimized.

● Key technologies

The technology for solving the axial and radial forces of a large amount of gas onto the rotor as the hydraulic energy is being relieved, the lubrication and other problems.
The technology for ensuring the turbine stability upon fluctuation of the unit pressure.
The overspeed protection technology for hydraulic turbine.
The technology of clutch selection.
The technology for rationally configuring and completing the unit.
The reliable and safe field commission technology.

Materials of Wet Parts

Material grade / Parts	S - 1	S - 4	S - 6	C - 6	A - 8
Casing and Cover	ZG25 II	ZG25 II	ZG25 II	ZG1Cr13Ni	ZG1Cr18Ni12Mo2Ti
Impeller	HT25 - 47	ZG25 II	ZG1Cr13Ni	ZG1Cr13Ni	ZG1Cr18Ni12Mo2Ti
Casing Wear Ring	HT25 - 47	HT25 - 47	ZG1Cr13MoS	ZG1Cr13MoS	0Cr18Ni12Mo2Ti
Impeller Wear Ring	3Cr13	3Cr13	3Cr13	3Cr13	0Cr18Ni12Mo2Ti
Shaft	45	45	42CrMo or 3Cr13	3Cr13	0Cr18Ni12Mo2Ti
Sleeve (Mech. Seal)	1Cr18Ni9 or 3Cr13	1Cr18Ni9 or 3Cr13	1Cr18Ni9 or 3Cr13	1Cr18Ni9 or 3Cr13	1Cr18Ni12Mo2Ti

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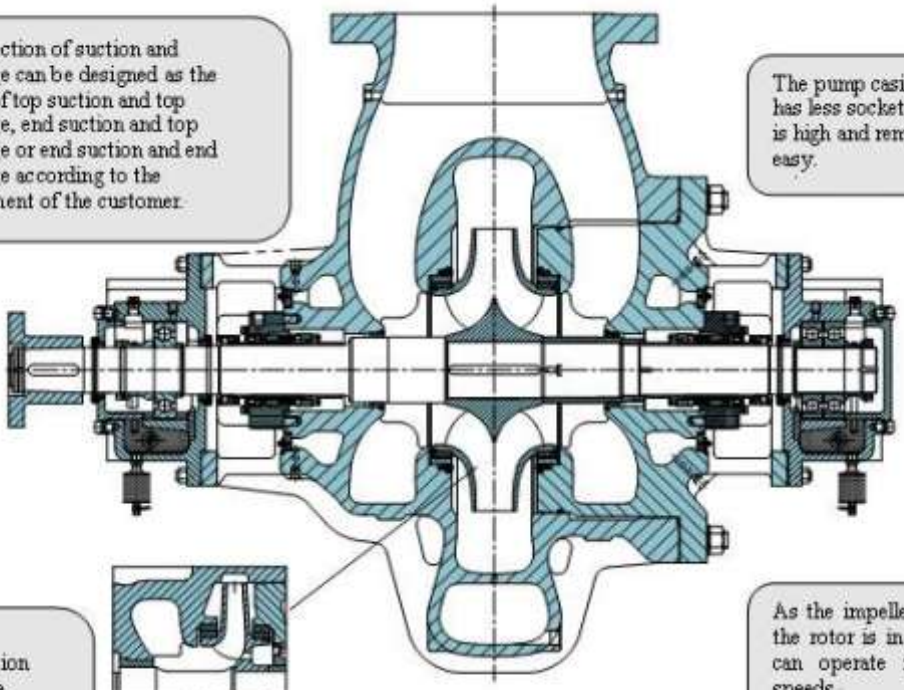
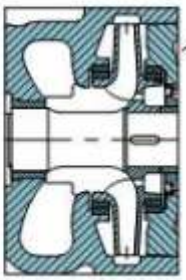
Sectional View----Construction of SBR single-stage pump

The direction of suction and discharge can be designed as the layout of top suction and top discharge, end suction and top discharge or end suction and end discharge according to the requirement of the customer.

The pump casing is integrally cast and has less socket fit so that the reliability is high and removal and installation is easy.



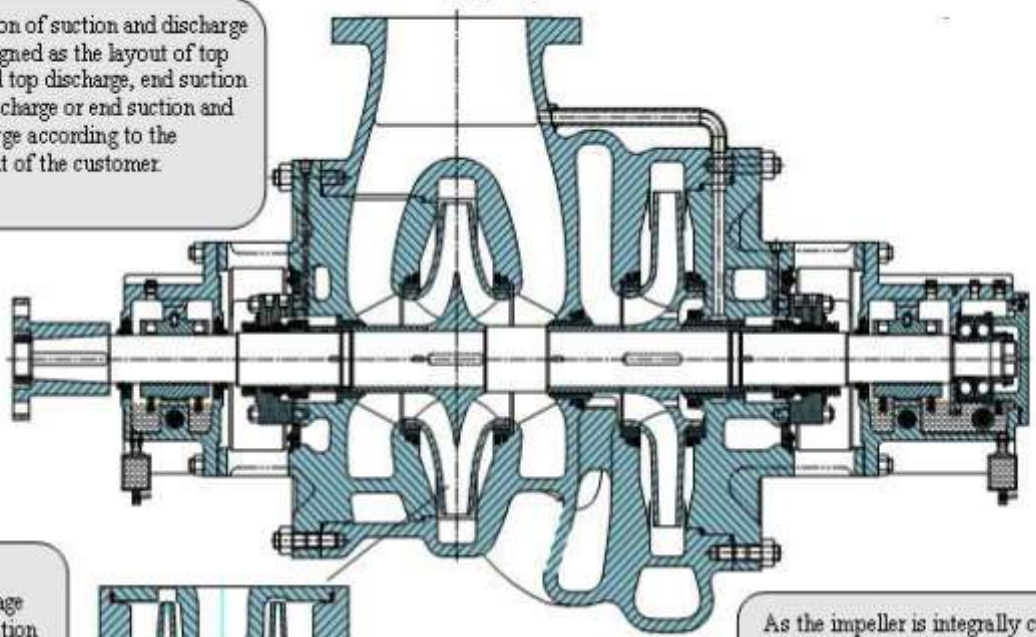


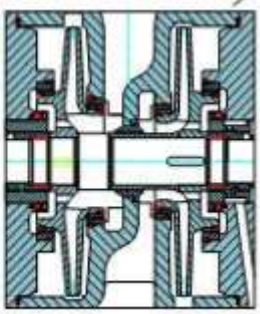
The single-suction type can be selected as low capacity pumps with high suction pressure

As the impeller is integrally cast and the rotor is in rigid design, the pump can operate in a range of higher speeds.

Sectional View ---- Construction of SBR double-stage pump

The direction of suction and discharge can be designed as the layout of top suction and top discharge, end suction and top discharge or end suction and end discharge according to the requirement of the customer.





The double-stage single-suction type can be selected as low-capacity high-head pumps with high suction pressure.

As the impeller is integrally cast and the rotor is in rigid design, the pump can operate in a range of higher speeds.

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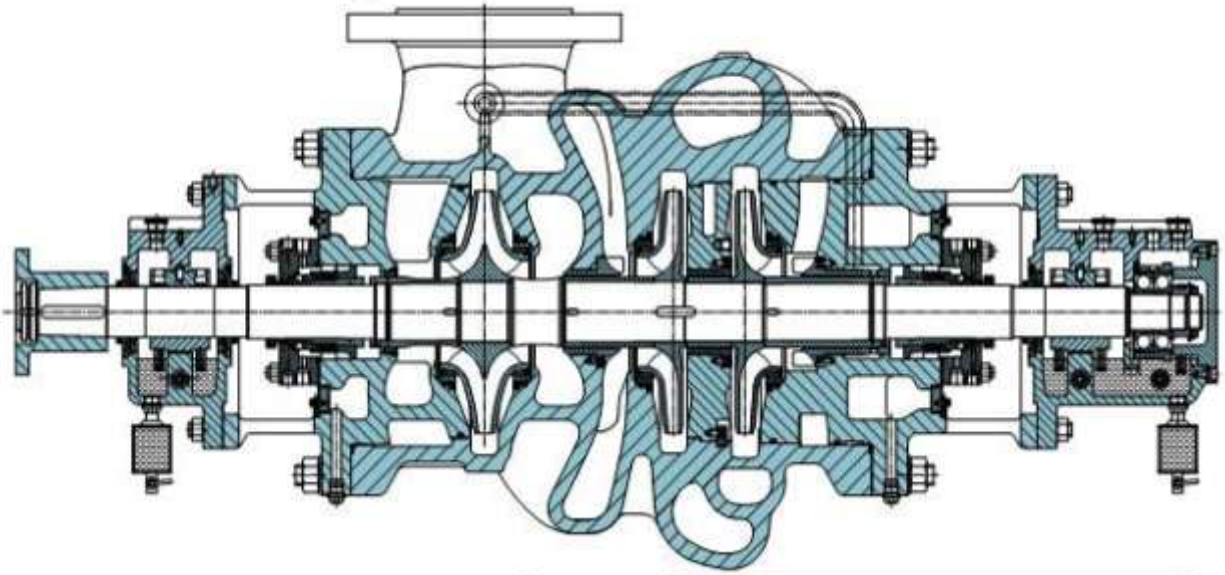
Sectional View----Construction of SBR three-stage pump

The direction of suction and discharge can be designed as the layout of top suction and top discharge, end suction and top discharge or end suction and end discharge according to the requirement of the customer.

As the bracket for pump cover is in the integral structure and has less socket fit, there is no leakage at the internal balancing pipe and the pump is safe and reliable.

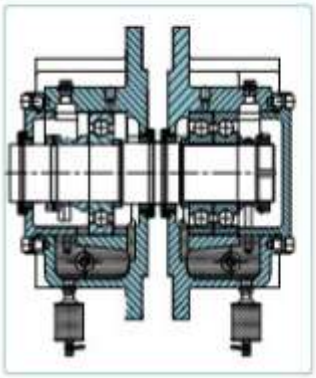


Typically used as the heavy tar pump in the 20,000,000-ton/y refining plant.

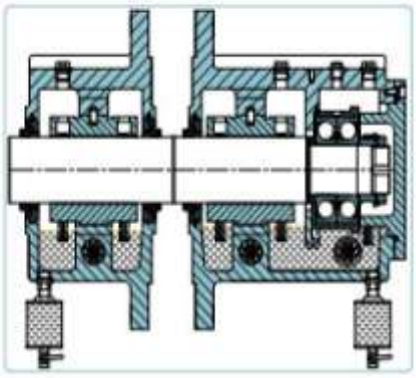
As the impellers are integrally cast and arranged to cause self-balance of axial force, and the rotor is in rigid design, the pump can operate in a range of higher speeds.

- **Bearing configurations**

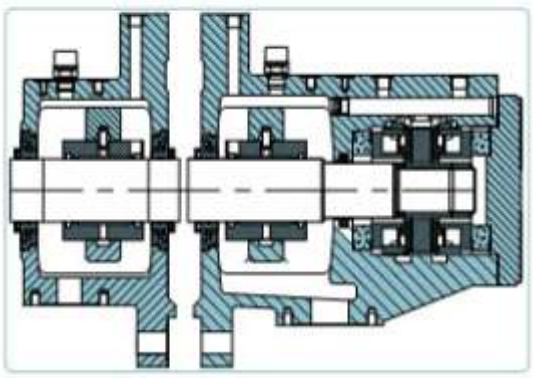
All of the above pump types can be supplied with the following standard bearing configurations:



Self-lubricated rolling bearing



Self-lubricated plain bearing



Forcibly lubricated bearing

Basis for section of bearings: Table 10 in 6.10.1 of API 610 11th edition.

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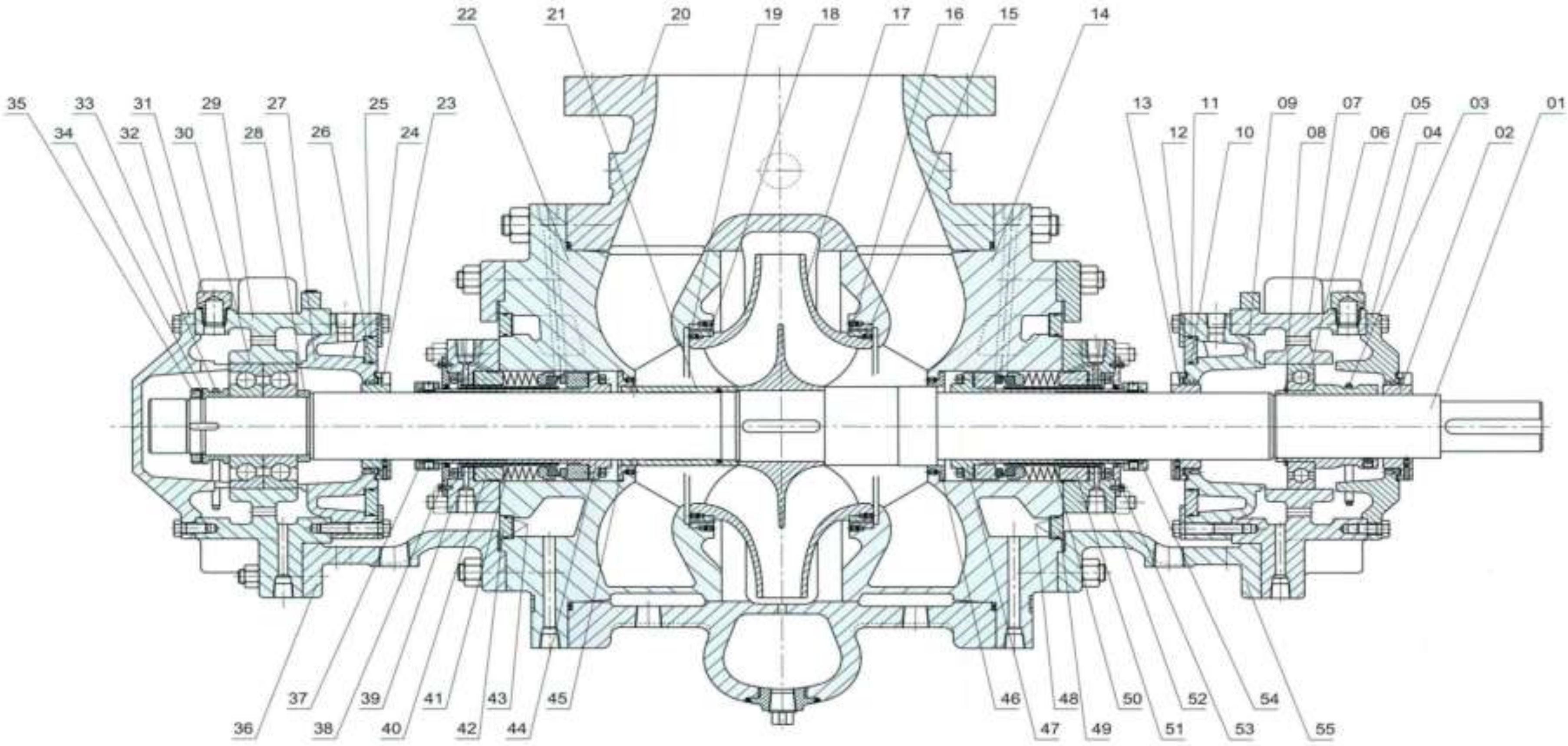
SBR Section Drawing



01	Shaft	06	Bearing	11	O-Ring	16	Impeller Wear Ring	21	Impeller Nut	26	O-Ring	31	Oil Ring Sleeve	36	Bracket	41	Shaft Sleeve	46	Throating Bushing	51	Mech. Seals
02	Deflector	07	Bearing Housing	12	Inboard	17	Impeller	22	Pump Cover	27	Bearing Cover	32	Bearing Cover	37	Driving Ring	42	Cooling Water Cover	47	Shaft Sleeve	52	Seal Cover
03	Lubricating Ring	08	Circlip	13	Deflector	18	Impeller Wear Ring	23	Deflector	28	Circlip	33	Lubricating Ring	38	Inboard	43	O-Ring	48	O-Ring	53	Distant Board
04	Bearing Cover	09	Bearing Cover	14	Pump Cover	19	Casing Wear Ring	24	Inboard	29	Bearing Housing	34	Washer	39	Seal Cover	44	Shaft Sleeve	49	Cooling Water Cover	54	Driving Ring
05	Oil Ring Sleeve	10	O-Ring	15	Casing Wear Ring	20	Pump Casing	25	O-Ring	30	Bearing	35	Locking Nut	40	Mech. Seals	45	Throating Bushing	50	Shaft Sleeve	55	Bracket

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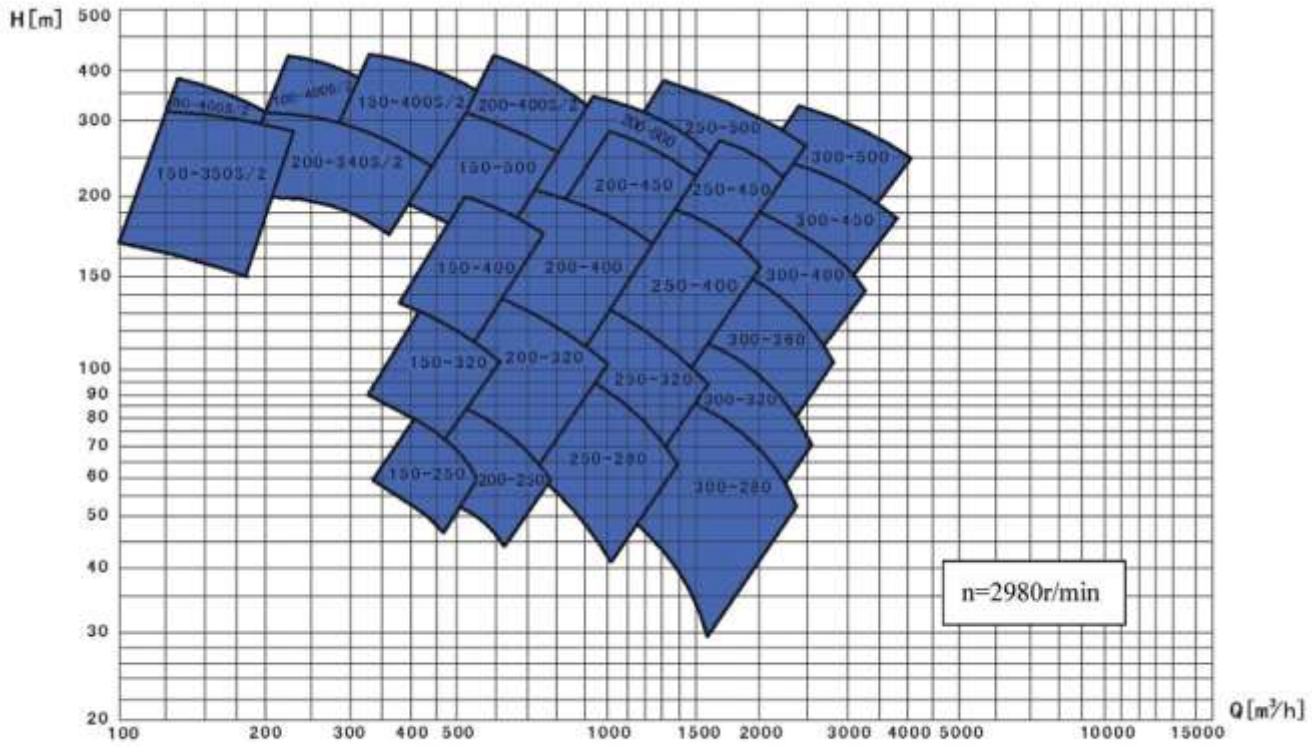
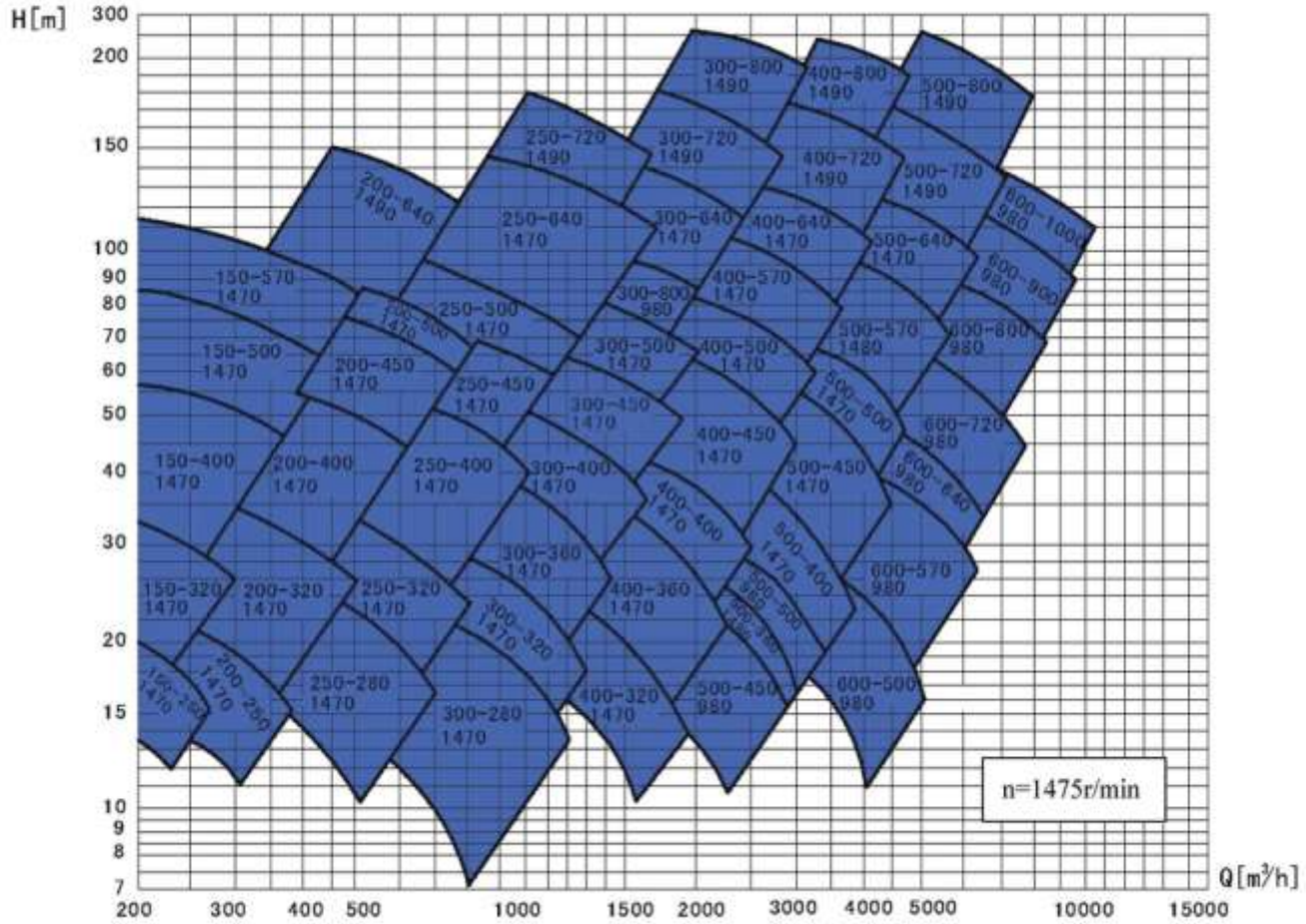
Range of Performance





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SBR Table of Standard Performance

Performance Parameter / Pump Type	Capacity Q (m³/h)	Head H (m)	Speed n (r/min)	Eff. η (%)	(NPSH)r (m)	Input-power Pa (kW)	Power (kW)	Impeller dia. (mm)	Suction area (mm²)	Minimum continuous Stable capacity (m³/h)	Pump weight (kg)
150-75	186	76	2970	73	2.5	52.7	75	270	2×19355	45.4	670
150-75A	180	72		72		49	75	262			
150-75B	175	67		72		44.3	75	254			
150-75C	170	62		72		39.9	55	246			
150-75D	165	56		72		35	55	238			
150-75E	160	52		71		31.9	45	230			
150-75F	155	47		71		27.9	45	222			
150-75G	150	42		69		24.9	37	214			
150-75H	145	38		69		21.7	37	206			
150-100	206	106	2970	68	3	87.5	110	337	2×24839	45.4	620
150-100A	200	101		67.5	2.9	81.5	110	329			
150-100B	196	96		67.5	2.9	76	110	321			
150-100C	191	92		67	2.7	71.4	90	313			
150-100D	186	87		66.5	2.7	66.3	90	305			
150-100E	180	82		66.5	2.7	60.4	90	296			
150-100F	174	76		66	2.6	54.6	75	286			
150-100G	169	71		65.5	2.5	49.9	75	276			
150-100H	162	66		65	2.5	44.8	75	265			
150-100I	153	61		64	2.5	39.7	55	254			
150-130	265.5	130	2970	71	3	132.5	160	337	2×28516	56.8	620
150-130A	259	124		70.5	2.9	126.1	160	329			
150-130B	253	118		70.5	2.8	115.4	160	321			
150-130C	247	112		70	2.6	107.7	132	313			
150-130D	239	106		70	2.5	98.6	132	305			
150-130E	233	100		69.5	2.4	91.4	132	296			
150-130F	225	94		69	2.4	83.5	110	286			
150-130G	217	87		68	2.3	75.7	110	276			
150-130H	210	80		67.5	2.2	67.8	90	265			
150-130I	203	74		67	2.2	61.1	90	254			
200-65	306.5	67	2970	83	4	67.4	90	257	2×2.3×10⁴	68.1	700
200-65A	297	63		82		62.1	90	250			
200-65B	287	59		80		57.6	75	243			
200-65C	280	56		78		54.8	75	236			
200-65D	270	53		76		51.3	75	229			
200-65E	260	49		75		46.3	75	222			
200-65F	247	44		74		40	55	212			
200-65G	234	38		73		33.2	45	202			
200-65H	220	33		72		27.5	45	191			
200-95	488	94	2970	82	5.5	152.4	200	279	2×29677	181.6	700
200-95A	472	88		82	5.3	138	185	270			
200-95B	457	82		81.5	5	125.3	185	261			
200-95C	439	76		81	4.8	112.2	160	251			
200-95D	422	70		80	4.7	100.6	132	241			
200-95E	404	64		79	4.3	89.2	132	231			
200-95F	387	59		78	4	79.8	110	221			
200-95G	367	53		77	3.8	68.8	110	210			

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SBR Table of Standard Performance

Performance Parameter / Pump Type	Capacity Q (m^3/h)	Head H (m)	Speed n (r/min)	Eff. η (%)	(NPSH)r (m)	Input-power Pa (kW)	Power (kW)	Impeller dia. (mm)	Suction area (mm^2)	Minimum continuous Stable capacity (m^3/h)	泵重 Pump weight (kg)
200-130	399.5	132	2970	75	4.5	191.6	250	343	2×26774	181.6	800
200-130A	389	125		75	4.3	176.7	220	334			
200-130B	379	119		75	4.1	163.9	220	325			
200-130C	367	112		74.5	3.9	150.3	200	315			
200-130D	355	104		74.5	3.8	135	185	305			
200-130E	345	98		74	3.7	124.5	185	296			
200-130F	334	92		73	3.5	114.7	160	287			
200-130G	323	86		72.5	3.2	104.4	160	277			
200-130H	311	80		72.5	3.1	93.5	132	267			
250-60	545	73	1480	83	2.5	130.5	160	484	$2\times4.9\times10^4$	227	1180
250-60A	525	70		82		122.1	160	466			
250-60B	505	65		82		109	160	448			
250-60C	480	60		81.5		96.2	132	429			
250-60D	455	55		81.5		83.6	110	409			
250-60E	425	49		79		71.8	110	389			
250-60F	395	43		78		59.3	90	368			
250-140	790	140	2970	80	6.4	376.7	500	343	2×48645	363.2	930
250-140A	769	133		79.5	6.2	350.6	450	334			
250-140B	749	126		79.5	6	323.5	400	325			
250-140C	726	118		79	5.8	295.5	355	315			
250-140D	702	111		78.5	5.5	270.5	355	305			
250-140E	682	104		78	5.4	247.8	315	296			
250-140F	661	98		77.5	5.3	227.8	280	287			
250-140G	638	89		76.5	5	202.1	250	277			
250-140H	620	83		75	4.9	187	250	267			
250-175	418	177	2970	76	5.3	265.3	355	394	2×297097	170.3	950
250-175A	407	169		75.5	5.1	246.1	315	384			
250-175B	397	161		75.5	4.9	230	315	374			
250-175C	386	152		75.5	4.9	211.6	280	364			
250-175D	376	143		75	4.8	195.4	250	354			
250-175E	364	135		75	4.7	178.4	220	343			
250-175F	352	126		75	4.4	161.1	200	332			
250-175G	341	117		74.5	4.2	145.9	185	321			
250-175H	329	109		74	4	132	185	310			
250-175I	318	102		72	4	122.7	160	298			
250-180	624	183	2970	77	5.5	404	500	387	2×40903	272.4	950
250-180A	608	174		77	5.2	374	450	377			
250-180B	592	164.5		76	5	349	450	367			
250-180C	574	155		76	4.8	319	400	356			
250-180D	555	144.5		75	4.6	291	355	344			
250-180E	534	134		74	4.5	264	355	331			
250-180F	513	123.5		73	4.4	236	315	318			
250-180G	492	112		73	4.4	205.6	315	305			
250-200	482	201	2970	76	5.5	347.4	450	408	2×29677	170.3	950
250-200A	470	191		76	5.3	321.9	400	398			
250-200B	458	182		75.5	5	300.9	400	388			
250-200C	447	173		75.5	4.9	279.1	355	378			
250-200D	435	164		75	4.8	259.2	315	368			

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SBR Table of Standard Performance

Performance Parameter / Pump Type	Capacity Q (m^3/h)	Head H (m)	Speed n (r/min)	Eff. η (%)	(NPSH)r (m)	Input-power Pa (kW)	Power (kW)	Impeller dia. (mm)	Suction area (mm^2)	Minimum continuous Stable capacity (m^3/h)	Pump weight (kg)
250-200E	423	155	2970	74.5	4.6	239.8	315	358	2×29677	170.3	950
250-200F	412	147		74.5	4.5	221.5	280	349			
250-200G	400	139		74	4.3	204.7	250	339			
250-200H	389	131		73	4.1	190.2	250	329			
250-200I	378	121		73	4.1	172	250	319			
250-220	794.5	233	2970	79	8	610.8	800	457	$2\times4.3\times10^4$	227	1230
250-220A	770	213		78		572.6	800	448			
250-220B	745	203		78		528	710	439			
250-220C	720	194		76		500.5	710	430			
250-220D	695	185		76		460.7	630	420			
250-220E	670	176		76		422.5	560	410			
250-220F	645	166		75		388.8	560	397			
250-220G	620	156		75		351.2	450	384			
250-220H	595	146		72		328.6	450	371			
250-220I	570	137		72		295.4	400	357			
250-220J	545	127		72		261.8	355	343			
250-250	874	250	2970	83	6	716.9	900	457	$2\times4.5\times10^4$	473	1230
250-250A	850	237		82		669	900	446			
250-250B	825	223		82		611	800	435			
250-250C	800	210		81		564.8	800	424			
250-250D	775	197		81		513.3	710	413			
250-250E	750	183		81		461.5	630	403			
250-250F	725	172		79		429.9	560	391			
250-250G	700	157		79		378.9	500	379			
250-250H	670	143		79		330.3	450	367			
250-250I	640	129		77		292	400	343			
250-250J	610	113		77		243.8	355	355			
300-190	1135	192	2970	85		698.2	900	394	$2\times5.8\times10^4$	605	1530
300-190A	1115	183		84		661.5	900	386			
300-190B	1095	174		84		617.7	800	377			
300-190C	1075	165		83		582	800	368			
300-190D	1055	154		82		540	710	358			
300-190E	1030	144		81		498.7	710	348			
300-190F	1005	133		80		455	630	337			
300-190G	980	122		80		407	560	327			
300-190H	955	111		78		370.1	500	316			
300-190I	930	101		75		341.1	450	305			
300-200	1248.5	206	2970	87	10.5	805.1	1000	394	$2\times5.2\times10^4$	590	1530
300-200A	1220	194		86		749.5	1000	386			
300-200B	1190	185		85		705.3	900	377			
300-200C	1160	176		85		654.1	900	368			
300-200D	1130	167		84		611.8	800	358			
300-200E	1100	158		83		570.3	800	348			
300-200F	1070	149		82		529.5	710	337			
300-200G	1040	140		82		483.6	630	327			
300-200H	1010	131		81		444.8	630	316			
300-200I	980	122		81		402	560	305			

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SBR Table of Standard Performance

Performance Parameter / Pump Type	Capacity Q (m³/h)	Head H (m)	Speed n (r/min)	Eff. η (%)	(NPSH)r (m)	Input-power Pa (kW)	Power (kW)	Impeller dia. (mm)	Suction area (mm²)	Minimum continuous Stable capacity (m³/h)	Pump weight (kg)
350-75	1089.5	75	1480	86	4.5	258.8	315	495	$2\times7.7\times10^4$	520	1850
350-75A	1060	70		85		237.7	315	479			
350-75B	1030	65		84		217.1	280	462			
350-75C	1000	60		83		196.9	250	445			
350-75D	960	54		82		172.2	220	424			
350-75E	920	47		82		143.6	185	403			
350-75F	870	40		81		117	160	318			
350-80	1282.5	75	1480	85	5	308.2	400	495	$2\times9.6\times10^4$	567	1850
350-80A	1240	68		84		273.4	400	479			
350-80B	1200	63		82		251.1	400	462			
350-80C	1150	57		82		217.7	315	445			
350-80D	1080	53		80		194.9	315	424			
350-80E	1000	47		78		164.1	250	403			
350-80F	920	40		78		128.5	200	381			
400-95	1271	95	1480	85	4	386.7	500	570	$2\times10.6\times10^4$	624	2100
400-95A	1200	88		84		342.4	450	552			
400-95B	1130	82		84		300.4	400	534			
400-95C	1060	77		83		267.8	400	516			
400-95D	1060	72		83		233.9	315	498			
400-95E	990	67		81		209.5	285	480			
400-95F	870	62		81		181.4	250	462			
400-95G	820	58		78		166.1	250	444			
400-95H	770	53		78		142.5	200	426			
400-100	1702.5	108	1480	85	6.5	589.1	710	600	$2\times11.6\times10^4$	851	2165
400-100A	1640	102		84.5		539.1	710	585			
400-100B	1580	97		84.5		493.9	630	570			
400-100C	1520	92		83		458.8	630	555			
400-100D	1460	86		83		412	560	540			
400-100E	1400	82		83		376.7	560	525			
400-100F	1340	76		80		346.7	500	505			
400-100G	1280	70		80		305	450	485			
400-100H	1220	64		75		283.5	450	470			
400-100I	1160	58		75		244.3	400	450			
400-110	1203	113	1480	84.5	3.5	438.1	560	600	$2\times8.8\times10^4$	586	2165
400-110A	1160	105		84		394.9	560	580			
400-110B	1120	98		83		360.1	500	560			
400-110C	1080	92		83		326	450	540			
400-110D	1050	87		81		307.1	400	525			
400-110E	1010	79		81		268.3	400	505			
400-110F	970	73		81		238.1	315	485			
400-110G	930	67		79		214.8	315	465			
400-110H	890	58		79		178	250	445			

Pumps & Systems

SOURCE PUMPS & SYSTEMS CO.,LTD

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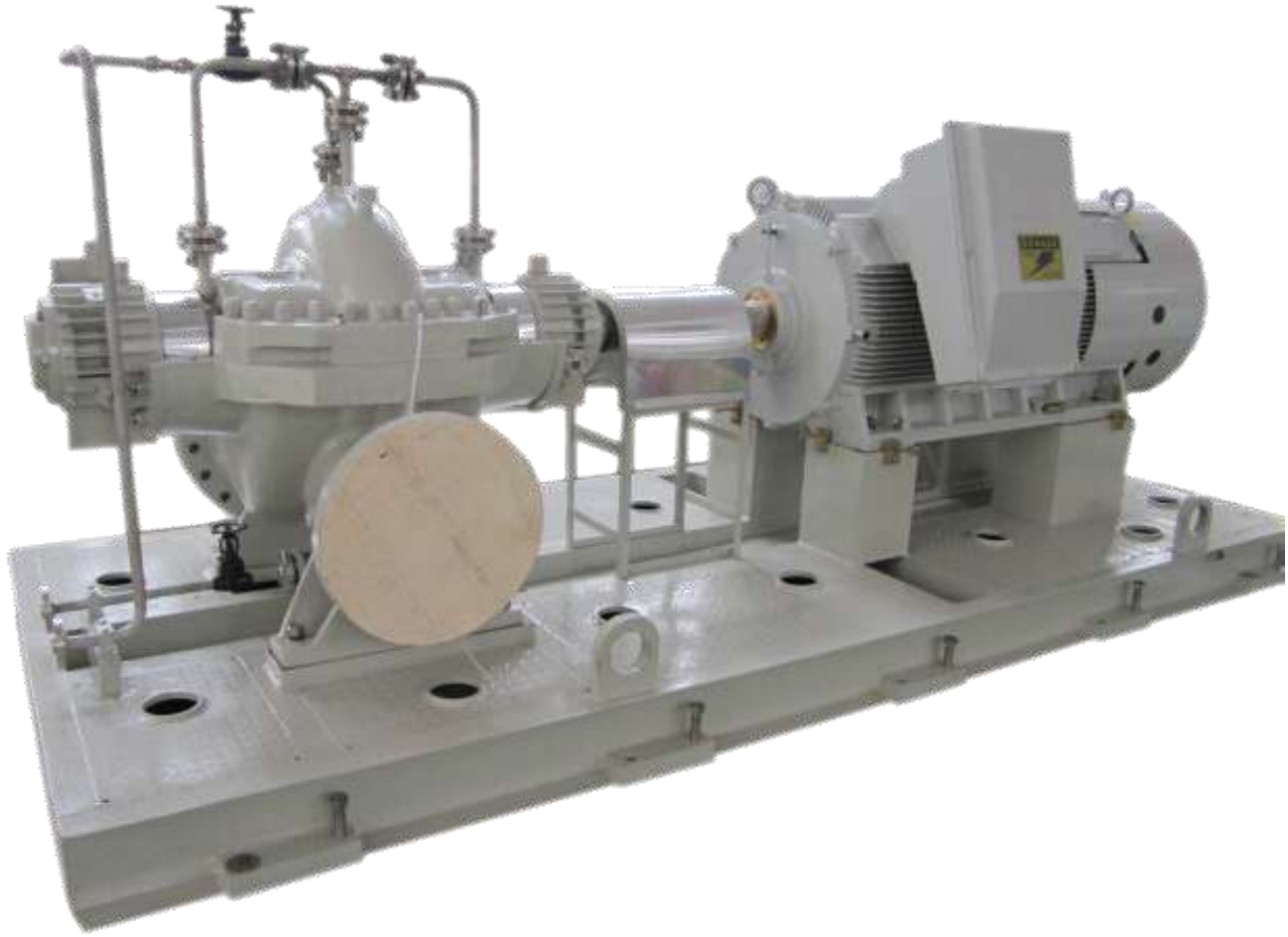
Tel: +86-411-39082835/+86-411-66853898
Fax: +86-411-86715305
E-mail: export@sourcegroup.com.cn
http://www.sourcegroup.com.cn http://www.sourcepump.com

Pumps & Systems

SBM

Horizontal Split Case Centrifugal Pump

(API610 BB 1)



Source Pumps & Systems Co., LTD.

www.sourcegroup.com.cn

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SBM Series pumps, are single-stage double suction split case centrifugal pumps designed for applications of clean water or similar liquids without solids in water works, municipal and industrial projects, as well as mines, power plants and agricultural irrigations etc.

The horizontal installation constructed with the suction and discharge nozzles located in the lower part and in right angle to the pump shaft central line, makes it convenient to pull out the rotor after removing the pump cover when maintaining and repairing without disturbing the inlet and outlet piping. Medium contacted parts are selectable from ductile cast iron, cast steel and stainless steel upon request.

- Standardized design with generalized products series.
- Double volute casing construction perfectly balances the radial forces, ensuring minimal shaft deflection lowered bearing loads.
- Double suction impeller design appropriately balances the axial forces with each impeller balanced statically and dynamically in accordance with ISO1940.
- Flanges are drilled to meet GB, ISO, DIN, BS or ANSI standards.

- Deep groove ball bearings are grease lubricated and sealed for life with optional oil lubrication available upon request.
- Shaft sealing with uncoiled soft packing or single-action unbalanced mechanical seal in accordance with DIN 24960, independent of rotation direction. Balanced mechanical seal shall be applied for operating pressures higher than 16 Bar.

Performance Data

Pump Size:	DN	80 ~ 800
Flow Range:	Q	up to 2800l/s
Head Range:	H	up to 220m
Operating Pressure:	P	up to 25 Bar
Liquid Temperature:	T	up to 105 ℃

E.G. SBM 300-125-290

SBM — Split Case Centrifugal Pump
300 — Suction Dia. (mm)
125 — Discharge Dia. (mm)
290 — Impeller DN (mm)

Materials of Construction

	GB	DIN
Volute Casing & Cover		
Cast iron	HT250	GG-25
Ductile Cast Iron	QT400-18	GGG-40
Cast Steel	ZG230-450	GS-C25
Impeller		
Cast iron	HT250	GG-25
Bronze	ZCuSn10Si2	G-CUSn10Zn
Brass	ZCuSn16Si4	G-CuZn15Si4
Stainless Steel	ZG1Cr18Ni12Mo2Ti	1.4581
Shaft		
Carbon Steel	45#	C45N
Cr Steel	2Cr13	1.4021
Casing Wear Ring		
Cast iron	HT250	GG-25
Bronze	ZCuSn10Si2	G-CUSn10Zn
Brass	ZCuSn16Si4	G-CuZn15Si4

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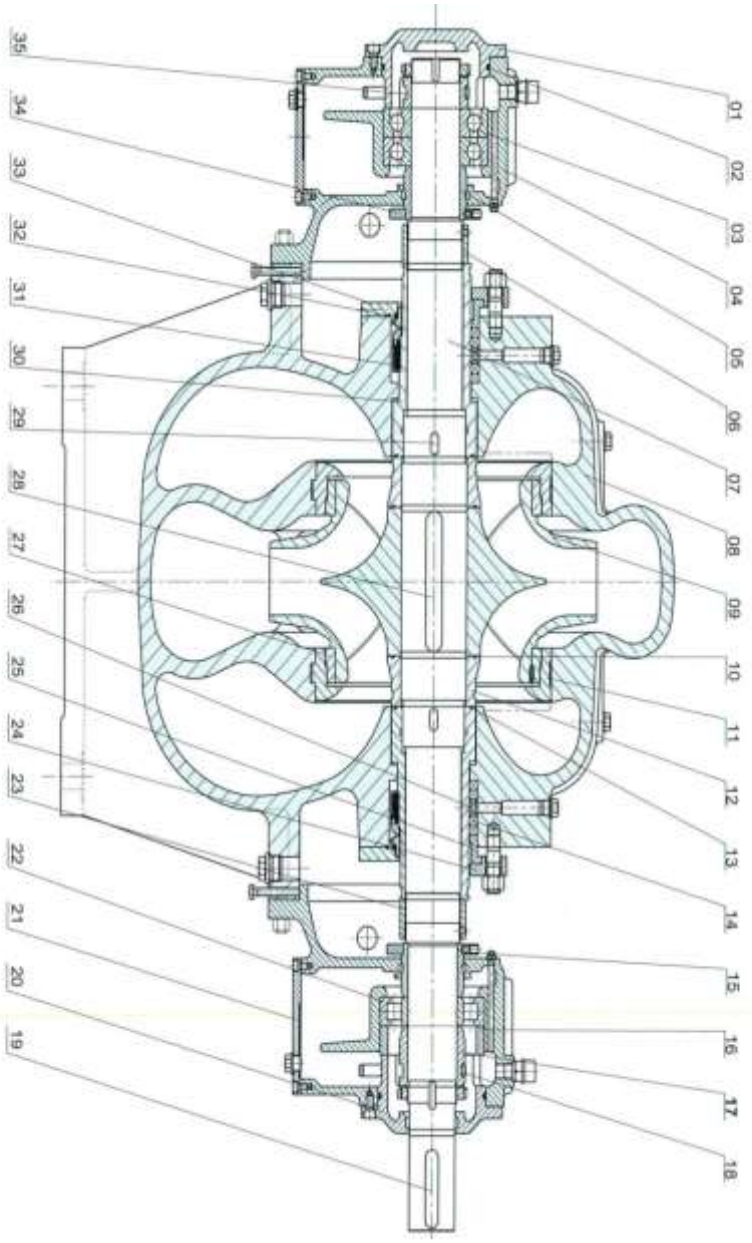
Pumps & Systems

Section Drawing



01 Bearing Cover (non-drive end)
02 O-Ring
03 Bearing
04 Bearing Housing
05 Adjust Sleeve (non-drive end)
06 Locking Nut (non-drive end)
07 Shaft
08 Casing
09 Impeller
10 O-Ring
11 Casing Wear Ring
12 Isolating Sleeve
13 O-Ring
14 Stuffing Seal
15 Adjust Sleeve(non-drive end)
16 Outer Ring Sleeve
17 Inner Ring Sleeve(drive end)
18 Lubricating Ring
19 Key
20 Bearing Cover (drive end)
21 Down Cover
22 Bearing
23 Locking Nut(drive end)
24 Stuffing Cover
25 Stuffing Ring
26 Stuffing Ring
27 Impeller Wear Ring
28 Key
29 Key
30 Sleeve
31 Mechanical Seal
32 O-Ring
33 Seal Cover
34 Deflector
35 Inner Ring Sleeve(drive end)

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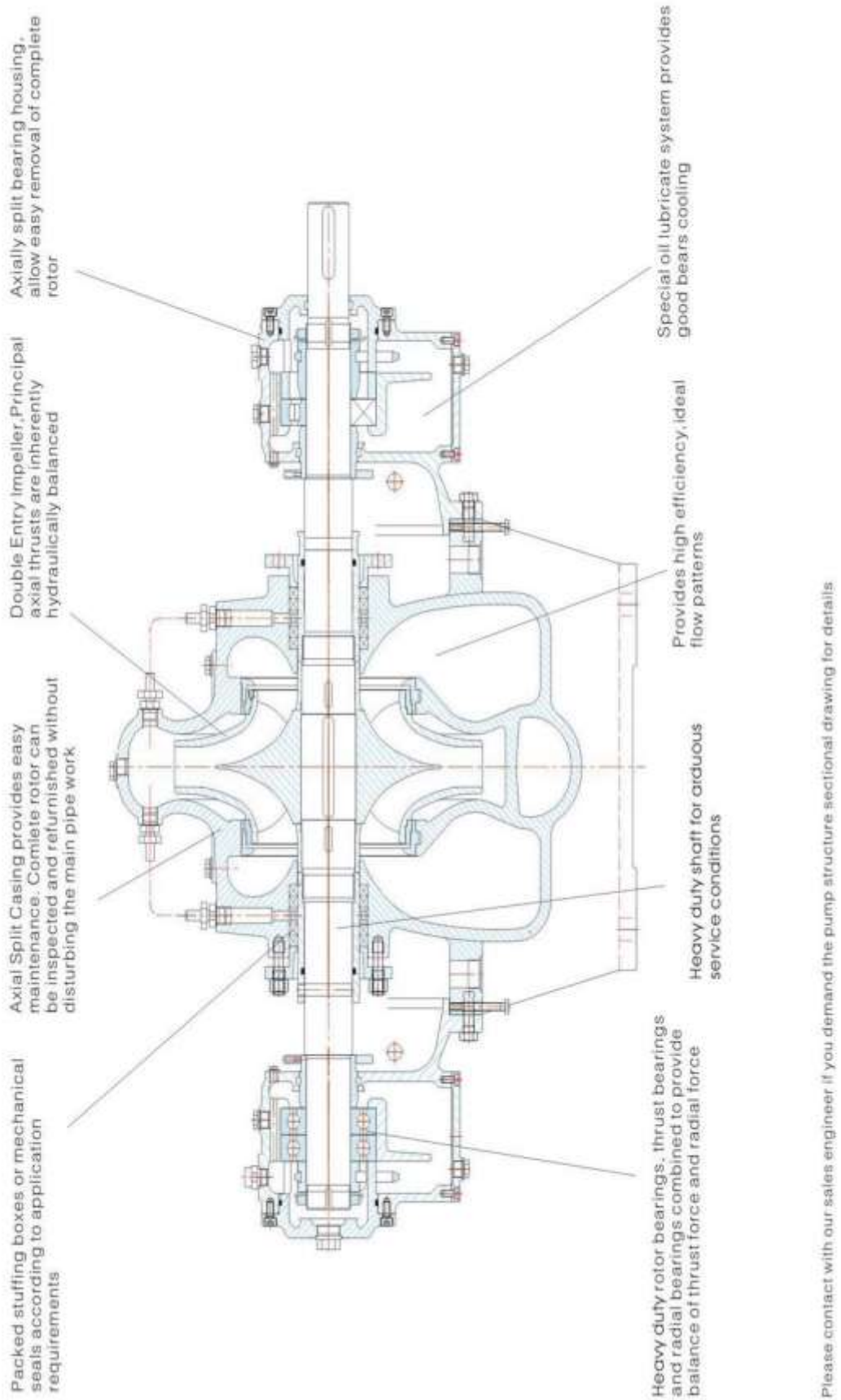
Sectional Drawing (Horizontally Arrangement)



Please contact with our sales engineer if you demand the pump structure sectional drawing for details

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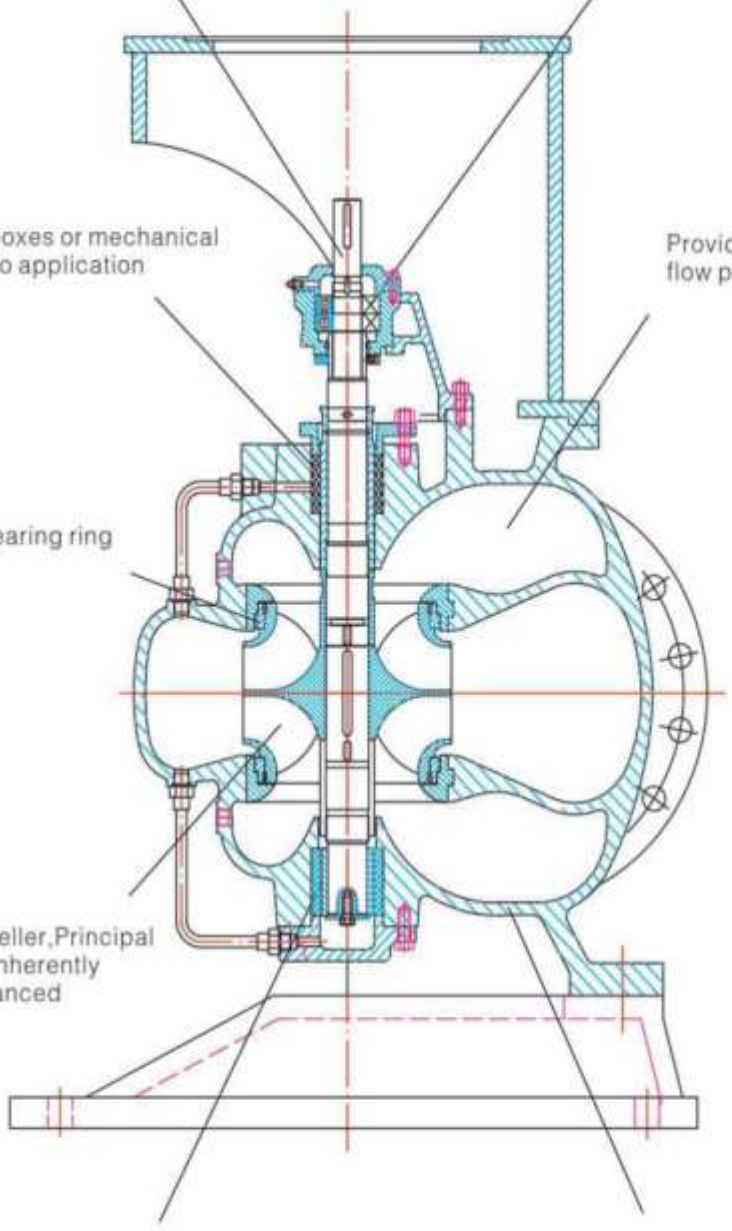
Sectional Drawing (Vertically Arrangement)



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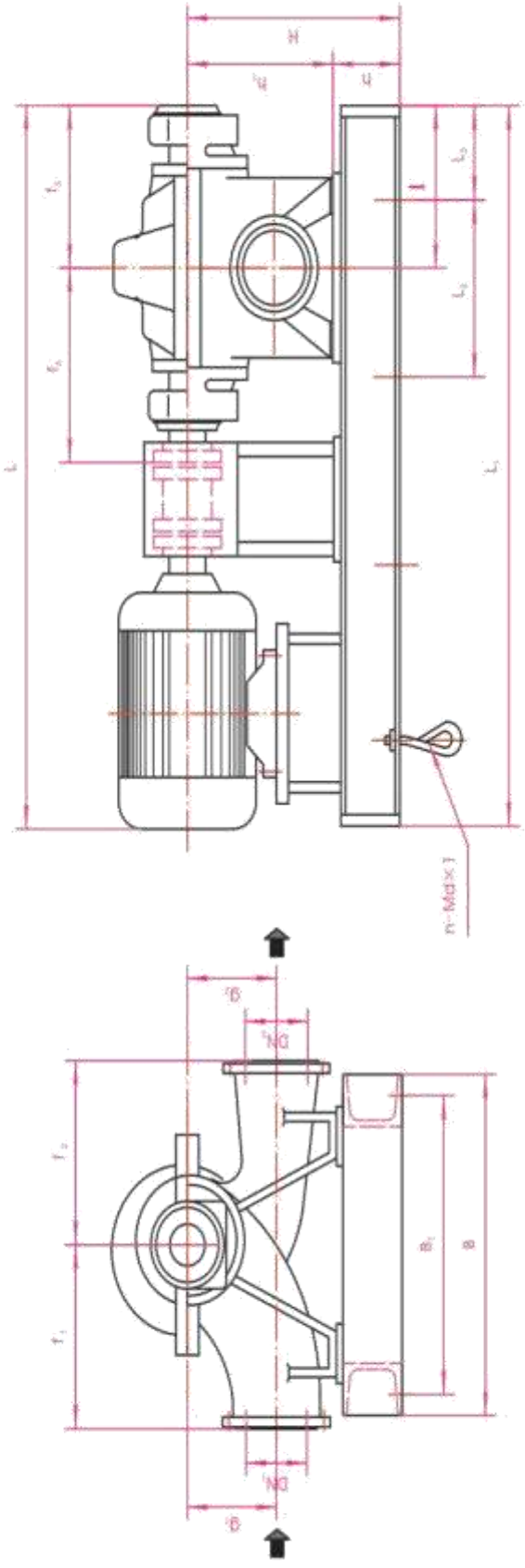
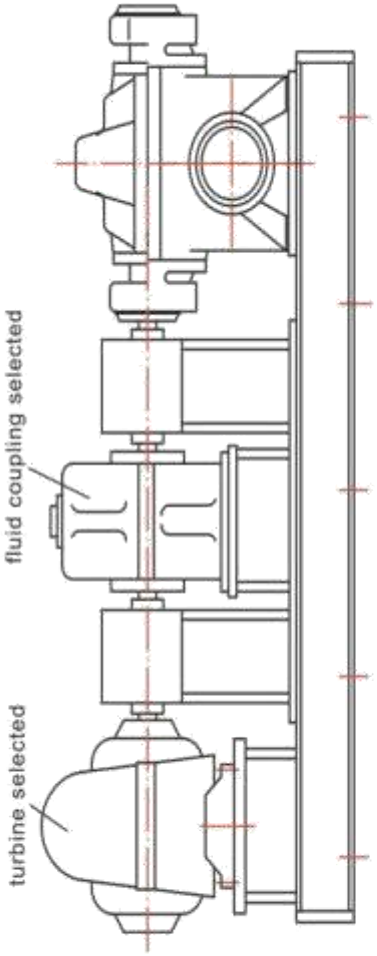
Outline Dimension Drawing (Horizontally Arrangement)





Other Arrangement Type

When specified,other driver such as turbine can be used and other coulping such as fluid coulping can be used as well.

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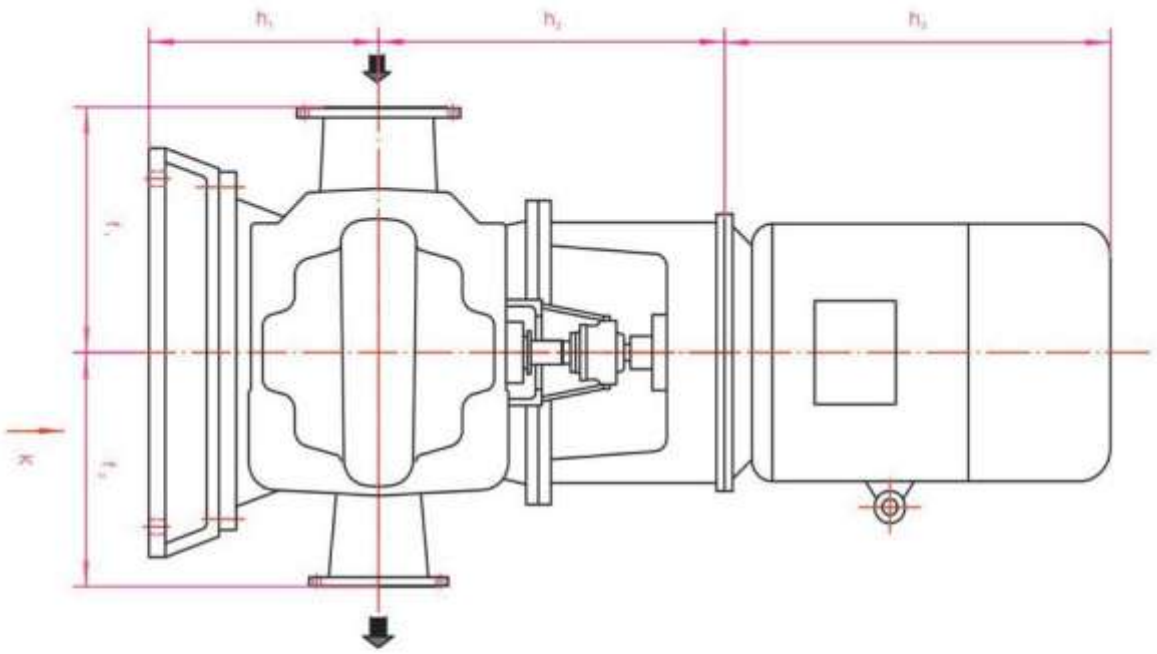
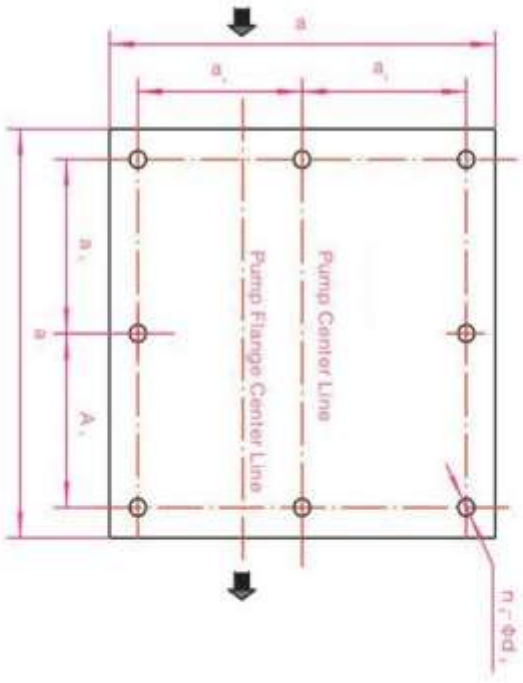
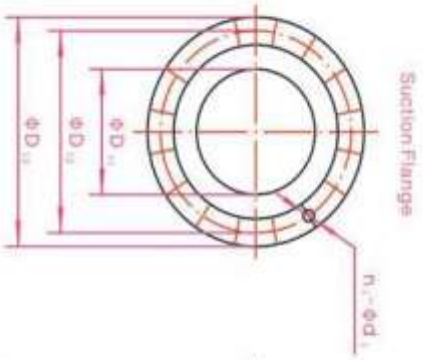
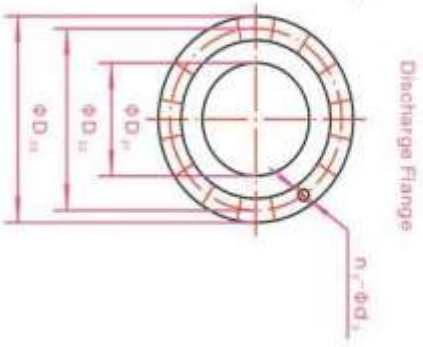
Outline Dimension Drawing (Vertical Arrangement)









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Range of Performance

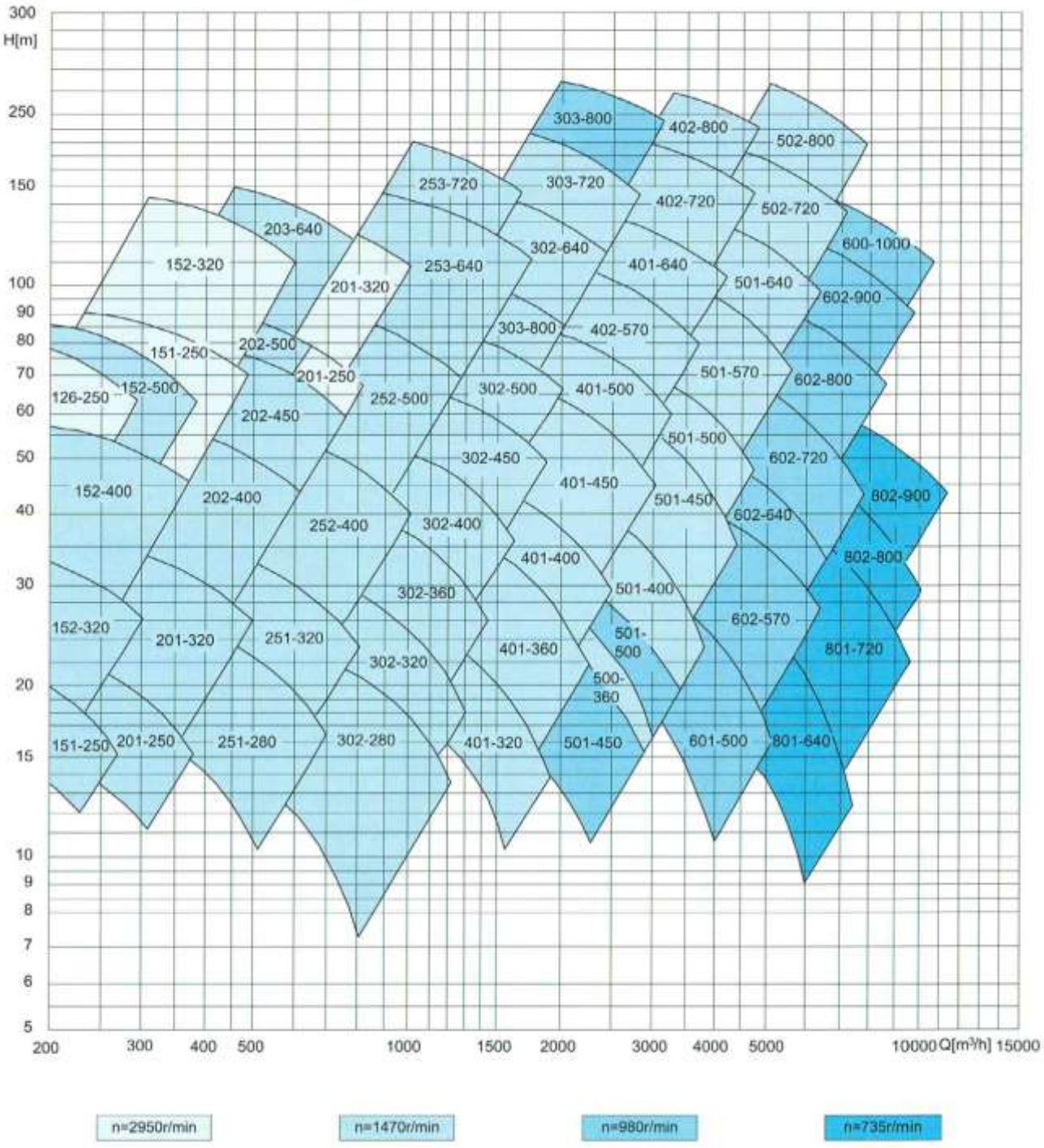

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Table of Standard Performance

Type Speed (r/min)	SY.	Impeller Diameter (mm)	Q m^3/h	H m	Efficiency η %	Proportion γ 1.0		Proportion γ 1.35		Proportion γ 1.84	
						Power and Type(kW)					
						kW		kW		kW	
SBM126-250 n=2950	A	250	260	69	80	75	Y280S-2	110	Y315S-2	132	Y315M-2
	B	240	242	63	79	75	Y280S-2	90	Y280M-2	110	Y315S-2
	C	230	225	55	77	55	Y250M-2	75	Y280S-2	90	Y280M-2
	D	220	208	47.5	74	45	Y225M-2	75	Y280S-2	75	Y280S-2
SBM151-250 n=2950	A	250	430	74	84	132	Y315M-2	160	Y315L1-2	220	Y355M1-2
	B	225	360	61	82	90	Y280M-2	110	Y315S-2	160	Y315L1-2
	C	200	290	47	80	55	Y250M-2	75	Y280S-2	110	Y315S-2
SBM151-250 n=1470	A	250	212	18.5	82	18.5	Y180M-4	22	Y180L-4	30	Y200L-4
	B	225	182	14.3	79	15	Y160L-4	18.5	Y180M-4	22	Y180L-4
	C	200	156	11.2	75	11	Y160M-4	11	Y160M-4	15	Y160L-4
SBM152-320 n=2950	A	320	560	123	86	250	Y355M2-2	355		450	
	B	300	500	103	85.5	185	Y315L-2	250	Y355M2-2	355	
	C	275	440	82	84	132	Y315M-2	185	Y315L-2	250	Y355M2-2
	D	250	380	64	80	110	Y315S-2	132	Y315M-2	185	Y315L-2
SBM152-320 n=1470	A	320	280	31	85.5	37	Y225S-4	45	Y225M-4	75	Y280S-4
	B	300	250	25.8	85	30	Y200L-4	37	Y225S-4	45	Y255M-4
	C	275	222	21	84	22	Y180L-4	30	Y200L-4	37	Y225S-4
	D	250	190	16	80	15	Y160M-4	18.5	Y180M-4	22	Y180L-4
SBM152-400 n=1470	A	397	370	48.5	83	75	Y250M-4	110	Y315S-4	132	Y315M-4
	B	365	310	43.5	82	75	Y250M-4	90	Y280M-4	110	Y315S-4
	C	320	225	32.5	80	45	Y225M-4	55	Y250M-4	75	Y280S-4
SBM152-500 n=1470	A	500	325	72	78.5	90	Y280M-4	132	Y315M-4	185	Y315L-4
	B	490	310	67	78	90	Y280M-4	110	Y315S-4	160	Y315L1-4
	C	450	270	57	77	75	Y250M-4	90	Y280M-4	132	Y315M-4
	D	400	221	42	71	45	Y225M-4	75	Y280S-4	75	Y280S-4
SBM201-250 n=2950	A	258	675	68	86	160	Y315L1-2	220	Y355M1-2	315	Y355L2-2
	B	245	600	62	84	160	Y315L1-2	185	Y315L-2	250	Y355M2-2
	C	230	525	55	82	110	Y315S-2	160	Y315L1-2	200	Y315L2-2
	D	215	475	48	79	90	Y280M-2	132	Y315M-2	160	Y315L1-2
	E	200	400	42	75	75	Y280S-2	110	Y315S-2	132	Y315M-2
SBM201-250 n=1470	A	258	330	17.5	85	30	Y200L-4	30	Y200L-4	45	Y225M-4
	B	245	305	15.4	84	22	Y180L-4	30	Y200L-4	37	Y225S-4
	C	230	275	13.2	82	18.5	Y180M-4	22	Y180L-4	30	Y200L-4
	D	215	255	11.5	78	15	Y160L-4	18.5	Y180M-4	30	Y200L-4
	E	200	225	9.2	75	11	Y160M-4	15	Y160L-4	18.5	Y180M-4
SBM201-320 n=2950	A	315	870	118	86.5	400		500		710	
	B	285	700	97.8	84	250	Y355M2-2	355		500	
	C	250	525	76	80	160	Y315L1-2	220	Y355M1-2	280	Y355L1-2
SBM201-320 n=1470	A	315	420	30	85	55	Y250M-4	75	Y280S-4	90	Y280M-4
	B	285	360	24	82	37	Y225S-4	45	Y225M-4	75	Y280S-4
	C	250	290	18.5	80	22	Y180L-4	30	Y200L-4	45	Y225M-4
SBM202-400 n=1470	A	405	525	51	84	110	Y315S-4	132	Y315M-4	185	Y315L-4
	B	380	470	44	83	75	Y280S-4	110	Y315S-4	160	Y315L1-4
	C	350	420	37	82	75	Y280S-4	90	Y280M-4	110	Y315S-4
	D	320	365	30	80	45	Y225M-4	75	Y280S-4	90	Y280M-4
SBM202-450 n=1470	A	450	750	64	86	185	Y315L-4	250	Y355M2-4	315	Y355L2-4
	B	425	675	57	85	160	Y315L1-4	185	Y315L-4	250	Y355M2-4
	C	400	620	50	84	132	Y315M-4	160	Y315L1-4	220	Y355M1-4
	D	375	550	42.5	83	90	Y280M-4	132	Y315M-4	160	Y315L1-4
SBM202-500 n=1470	A	500	680	76	83	200	Y315L2-4	280	Y355L1-4	355	
	B	475	625	68	82	160	Y315L1-4	220	Y355M1-4	315	Y355L2-4
	C	450	565	63	81	132	Y315M-4	185	Y315L-4	250	Y355M2-4
	D	425	500	56	81	110	Y315S-4	160	Y315L1-4	200	Y315L2-4
	E	400	450	50	79	90	Y280M-4	132	Y315M-4	160	Y315L1-4
SBM203-640 n=1490	A	640	850	135	80.5	450		630		800	
	B	600	775	115	79	355		500		630	
	C	550	705	93	77	280	Y355L1-4	355		500	
	D	500	630	74	70	200	Y315L2-4	280	Y355L1-4	400	

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Table of Standard Performance

Type Speed (r/min)	SY.	Impeller Diameter (mm)	Q m^3/h	H m	Efficiency η %	Proportion γ 1.0		Proportion γ 1.35		Proportion γ 1.84	
						Power and Type(kW)					
						kW		kW		kW	
SBM251-280 n=1470	A	280	640	18.5	85.5	45	Y225M-4	75	Y280S-4	90	Y280M-4
	B	255	560	15	82	37	Y225S-4	45	Y255M-4	75	Y280S-4
	C	230	480	11.5	78	30	Y200L-4	30	Y200L-4	45	Y225M-4
SBM251-320 n=1470	A	315	720	26	86	75	Y280S-4	90	Y280M-4	132	Y315M-4
	B	285	630	20	82	55	Y250M-4	75	Y280S-4	90	Y280M-4
	C	250	550	13	80	30	Y200L-4	45	Y225M-4	55	Y250M-4
SBM252-400 n=1470	A	410	850	52	89	160	Y315L1-4	220	Y355M1-4	280	Y355L1-4
	B	390	810	48.5	88.5	160	Y315L1-4	185	Y315L-4	250	Y355M2-4
	C	360	690	39.5	88	110	Y315S-4	132	Y315M-4	185	Y315L-4
	D	320	570	30.5	84	75	Y280S-4	90	Y280M-4	132	Y315M-4
SBM252-500 n=1480	A	500	1080	78	86	315	Y355L2-4	400		560	
	B	475	1010	68	85.5	250	Y355M2-4	355		450	
	C	450	940	62	85	220	Y355M1-4	280		400	
	D	425	875	53	83	185	Y315L-4	250		315	Y355L2-4
SBM253-640 n=1470	A	640	1400	130	87	630		900		1250	
	B	600	1260	112	86	500		710		1000	
	C	550	1100	92	85	500		500		710	
	D	500	950	74	80	280	Y355L1-4	400		500	
SBM253-720 n=1490	A	725	1520	173	82.5	1000		1400		1800	
	B	690	1470	152	82	900		1120		1600	
	C	650	1400	130	81	710		1000		1250	
	D	600	1300	105	79	560		710		1000	
SBM302-280 n=1470	A	290	950	20	88	75	Y280S-4	90	Y280M-4	132	Y315M-4
	B	280	925	18	87	75	Y280S-4	90	Y280M-4	110	Y315S-4
	C	255	850	12.5	85.5	45	Y255M-4	55	Y250M-4	75	Y280S-4
	D	230	775	8.5	80	30	Y200L-4	37	Y225S-4	55	Y250M-4
SBM302-320 n=1470	A	315	1120	19.5	86.5	90	Y280M-4	110	Y315S-4	160	Y315L1-4
	B	285	975	14.5	84	55	Y250M-4	75	Y280S-4	110	Y315S-4
	C	260	875	10.5	78	37	Y255S-4	55	Y250M-4	75	Y280S-4
SBM302-360 n=1470	A	365	1250	33	89	160	Y315L1-4	200	Y315L2-4	280	Y355L1-4
	B	350	1170	30	88	132	Y315M-4	185	Y315L-4	220	Y355M1-4
	C	325	1060	24.5	87	90	Y280M-4	132	Y315M-4	185	Y315L-4
	D	295	940	18.5	85	75	Y280S-4	90	Y280M-4	132	Y315M-4
SBM302-400 n=1470	A	410	1470	44.5	88	250	Y355M2-4	315	Y355L2-4	450	
	B	397	1425	41	87	220	Y355M1-4	280	Y355L1-4	400	
	C	360	1275	31.5	84	160	Y315L1-4	200	Y315L2-4	280	Y355L1-4
	D	320	1130	22	80	110	Y315S-4	132	Y315M-4	185	Y315L-4
SBM302-450 n=1470	A	450	1650	55	90.5	315	Y355L2-4	450		560	
	B	425	1510	48	89	250	Y355M2-4	355		500	
	C	400	1350	42	88	200	Y315L2-4	280	Y355L1-4	400	
	D	375	1230	36	86	160	Y315L1-4	220	Y355M1-4	315	Y355L2-4
	E	350	1100	30	83	132	Y315M-4	185	Y315L-4	220	Y355M1-4
SBM302-500 n=1480	A	500	1700	73	89.5	450		630		800	
	B	475	1550	66	88	355		500		710	
	C	450	1430	58	86	315	Y355L2-4	400		560	
	D	425	1280	51	83	250	Y355M2-4	355		450	
SBM302-640 n=1480	A	640	222	127	89	110	Y315S-4	132	Y315M-4	185	Y315L-4
	B	590	192	103	87	75	Y280S-4	110	Y315S-4	132	Y315M-4
	C	540	1525	82	84	450		630		900	
	D	500	1480	61	80	355		500		630	
SBM303-720 n=1490	A	707	2320	164	85	1400		2000		2500	
	B	650	2130	135	83	1120		1600		2000	
	C	600	1950	108	81	800		1120		1600	
SBM303-800 n=1490	A	794	2550	200	87	1800		2500			
	B	720	2230	163	85	1400		1800		2500	
	C	640	1840	128	80	900		1250		1800	
SBM303-800 n=980	A	794	1680	97	87	630		800		1120	
	B	720	1480	72	85	400		560		710	
	C	640	1210	56	81	280		355		500	

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Table of Standard Performance

Type Speed (r/min)	SY.	Impeller Diameter (mm)	Q m^3/h	H m	Efficiency η %	Proportion y 1.0		Proportion y 1.35		Proportion y 1.84	
						Power and Type(kW)					
						kW		kW		kW	
SBM401-320 n=1470	A	315	1530	22.5	87	132	Y315M-4	185	Y315L-4	220	Y355M1-4
	B	295	1430	16	85.5	90	Y280M-4	110	Y315S-4	160	Y315L1-4
	C	270	1330	11	82	75	Y280S-4	75	Y280S-4	110	Y315S-4
SBM401-360 n=1470	A	365	1940	30.5	87.5	220	Y355M1-4	280	Y355L1-4	400	
	B	357	1850	27.5	86	185	Y315L-4	250	Y355M2-4	355	
	C	325	1660	21.5	82	160	Y315L1-4	185	Y315L-4	250	Y355M2-4
	D	300	1520	17	77	110	Y315S-4	160	Y315L1-4	185	Y315L-4
SBM401-400 n=1470	A	400	2420	41.5	88	355		500		630	
	B	370	2210	34.5	86	280	Y355L1-4	400		500	
	C	350	2080	29.5	84	220	Y355M1-4	315	Y355L2-4	450	
	D	330	1950	25	81	185	Y315L-4	250	Y355M2-4	355	
SBM401-450 n=1480	A	460	2410	57	90	500		630		900	
	B	430	2270	47.5	87	400		560		710	
	C	400	2110	37.5	85.5	280	Y355L1-4	400		560	
	D	370	1950	28	82	200	Y315L2-4	280	Y355L1-4	400	
SBM401-500 n=1470	A	500	2870	64	88	630		900		1250	
	B	460	2570	53	84	500		710		900	
	C	410	2220	39	81	355		450		630	
SBM401-640 n=1470	A	635	3580	116	88.5	1600		2000		2800	
	B	600	3380	99	87	1250		1600		2240	
	C	550	3100	79	85	900		1250		1600	
	D	500	2820	58	82	630		900		1120	
SBM402-570 n=1475	A	580	3200	98	90	1120		1600		2000	
	B	550	3000	86	88.5	900		1250		1800	
	C	500	2700	67	88	630		900		1250	
	D	450	2380	47	85	400		560		800	
SBM402-570 n=980	A	580	2110	43.5	89	315	Y355L2-4	450		630	
	B	550	1980	38.5	88	280	Y355L1-4	355		500	
	C	500	1750	31	86	200	Y315L2-4	280	Y355L1-4	400	
	D	450	1510	23	81	132	Y315M-4	185	Y315L-4	250	Y355M2-4
SBM402-720 n=1490	A	725	3700	165	88.5	2240		2800			
	B	660	3400	130	86	1600		2240			
	C	600	3100	100	84	1120		1600		2240	
SBM402-800 n=1490	A	794	4250	195	88						
	B	720	3750	153	85	2240		2800			
	C	640	3300	114	80	1600		2000		2800	
SBM500-360 n=1480	A	365	3000	26.5	86	280	Y355L1-4	400		560	
	B	350	2880	22.5	84	250	Y355M2-4	315	Y355L2-4	450	
	C	330	2800	20.5	84	220	Y355M1-4	280	Y355L1-4	400	
	D	285	2580	15	81	160	Y315L1-4	200	Y315L2-4	280	Y355L1-4
SBM501-400 n=1470	A	397	3050	33.5	88	355		500		710	
	B	370	2850	28	86	280	Y355L1-4	400		560	
	C	340	2560	20.5	82	200	Y315L1-4	280	Y355L1-4	355	
SBM501-450 n=1470	A	450	3780	42.5	86	560		800		1120	
	B	410	3400	32	83	400		560		800	
	C	380	3100	24.5	78	315	Y355L2-4	400		560	
SBM501-450 n=980	A	450	2490	19	86	185	Y355M2-6	250	Y355L2-6	315	Y355L2-4
	B	410	2220	14.5	83	132	Y315L2-6	160	Y355M1-6	220	Y355M1-4
	C	380	2050	11	78	90	Y315M-6	132	Y315L2-6	160	Y315L1-4
SBM501-500 n=1470	A	500	4500	49	89	800		1120		1400	
	B	460	4020	39.5	86	560		800		1120	
	C	425	3620	31	82	450		560		800	
SBM501-500 n=980	A	500	3000	21	89	220	Y355L1-6	315		400	
	B	460	2750	17	85.5	185	Y355M2-6	250	Y355L2-6	315	Y355L2-4
	C	425	2500	13	82	132	Y315L2-6	185	Y355M2-6	220	Y355M1-4
SBM501-570 n=1480	A	570	5100	81	89.5	1400		2000		2800	
	B	550	4800	74	88	1250		1800		2240	
	C	500	4190	58	86	900		1250		1600	
	D	450	3790	45	82	630		900		1250	

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Table of Standard Performance

Type Speed (r/min)	SY.	Impeller Diameter (mm)	Q m^3/h	H m	Efficiency η %	Proportion γ 1.0		Proportion γ 1.35		Proportion γ 1.84	
						Power and Type(kW)					
						kW		kW		kW	
SBM501-640 n=1470	A	640	5240	108	89	2000		2800			
	B	600	5000	93	88	1600		2240			
	C	560	4500	76	85	1250		1800		2240	
	D	510	4000	59	80	900		1250		1800	
SBM502-720 n=1490	A	707	6040	150	91						
	B	650	5400	120	88.5	2240					
	C	600	4750	93	85	1600		2240			
SBM502-800 n=1490	A	794	6800	195	90						
	B	720	5800	153	86						
	C	640	4750	118	80	2240					
SBM502-800 n=985	A	817	4500	91.5	90	1400		2000			
	B	790	4250	83	89	1250		1800			
	C	760	3950	76	88.5	1120		1400		2000	
	D	720	3600	66	88	900		1120		1600	
	E	680	3300	58	86	710		1000		1250	
SBM600-1000 n=980	A	1030	8900	146	90						
	B	1000	8700	137	89						
	C	900	7500	106	87						
	D	800	6600	78	85.5	2000		2500			
SBM601-500 n=980	A	510	4200	23.5	88	355		500		630	
	B	470	3840	18	86	250	Y355L2-6	355		450	
	C	430	3500	12.5	82	160	Y355M1-6	220	Y355L1-6	315	
SBM602-570 n=990	A	580	5600	35.5	91.4	710		900		1250	
	B	555	5200	32	90.5	560		800		1120	
	C	530	4300	28	89	450		560		800	
	D	500	4100	23.8	85	355		500		710	
	E	480	3900	20.3	81	315		400		560	
SBM602-640 n=980	A	650	6000	42	89	900		1250		1600	
	B	630	5750	37.5	88	800		1000		1400	
	C	580	5200	31	84	630		800		1120	
	D	530	4600	25.5	78	500		630		900	
SBM602-720 n=980	A	707	6400	58	90	1250		1800			
	B	650	5900	45	86	1000		1250		1800	
	C	590	5440	33	85	710		900		1250	
SBM602-800 n=980	A	815	6750	80	89.5	2000					
	B	770	6250	68	88	1600		2000			
	C	710	5750	56	86	1250		1600			
	D	650	5200	43	82	900		1120		1600	
SBM602-900 n=980	A	891	5810	103	90.5	2000					
	B	800	6800	80	86	2000					
	C	720	6000	62.5	85	1400		1800			
SBM801-640 n=735	A	630	6100	20.5	88	450		630		800	
	B	590	5800	16	86	355		450		630	
	C	545	5410	11.5	83	250		315		450	
SBM801-720 n=735	A	725	8100	30.3	90	900		1120		1600	
	B	707	7900	28.3	89	800		1120		1400	
	C	680	7600	25	88.5	710		900		1250	
	D	640	7100	20.5	86.5	560		710		1000	
	E	605	6750	17	84	450		560		800	
SBM802-800 n=735	A	794	9100	31.5	90	1000		1400			
	B	735	8000	26.3	86	800		1000		1400	
	C	675	7000	21.5	81	560		800		1120	
SBM802-900 n=735	A	891	9400	52	90						
	B	820	8600	40	87	1250		1600			
	C	750	7800	29	82	900		1120		1600	

Pumps & Systems

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