

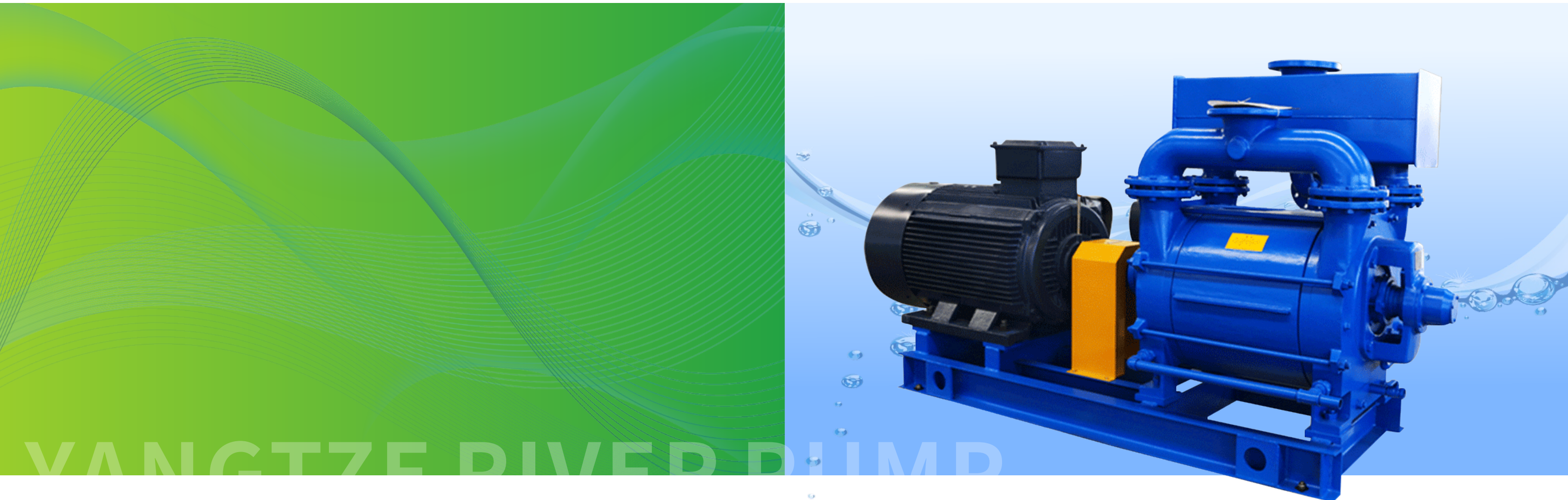
由于我们在不断努力改进产品，我们保留样本数据更改的权利，敬请谅解。

As we are constantly endeavouring to improve the performance of our equipment.

The company reserves the right to make alteration from time to time and equipment differ from that detailed in this brochure.

2BE1水环式真空泵

2BE1 WATER RING VACUUM PUMP



浙江扬子江泵业有限公司
ZHEJIANG YANGTZE RIVER PUMP CO.,LTD

Address: No. 3, Linyang Industrial Zone, Oubei, Yongjia,

Wenzhou, Zhejiang Province, China

E-mail:sales@yangzepumps.com

Tel: +86-577-67988715

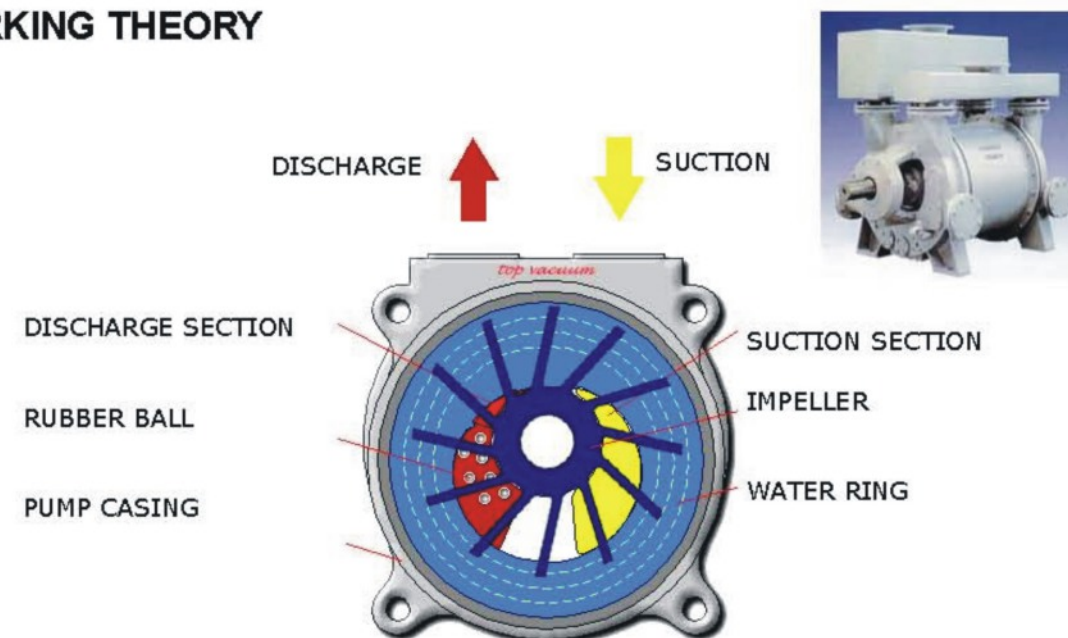
Website:www.yangtzeriverpump.com



Performance Range

Ultimate Suction Pressure: 33hPa, 160hPa
Capacity: 2.8 ~ 353m³/min
Motor Power: 11 ~ 560kW
Design Standards: Q/FP201.1-201.3-89 (eqv DIN28431)

WORKING THEORY

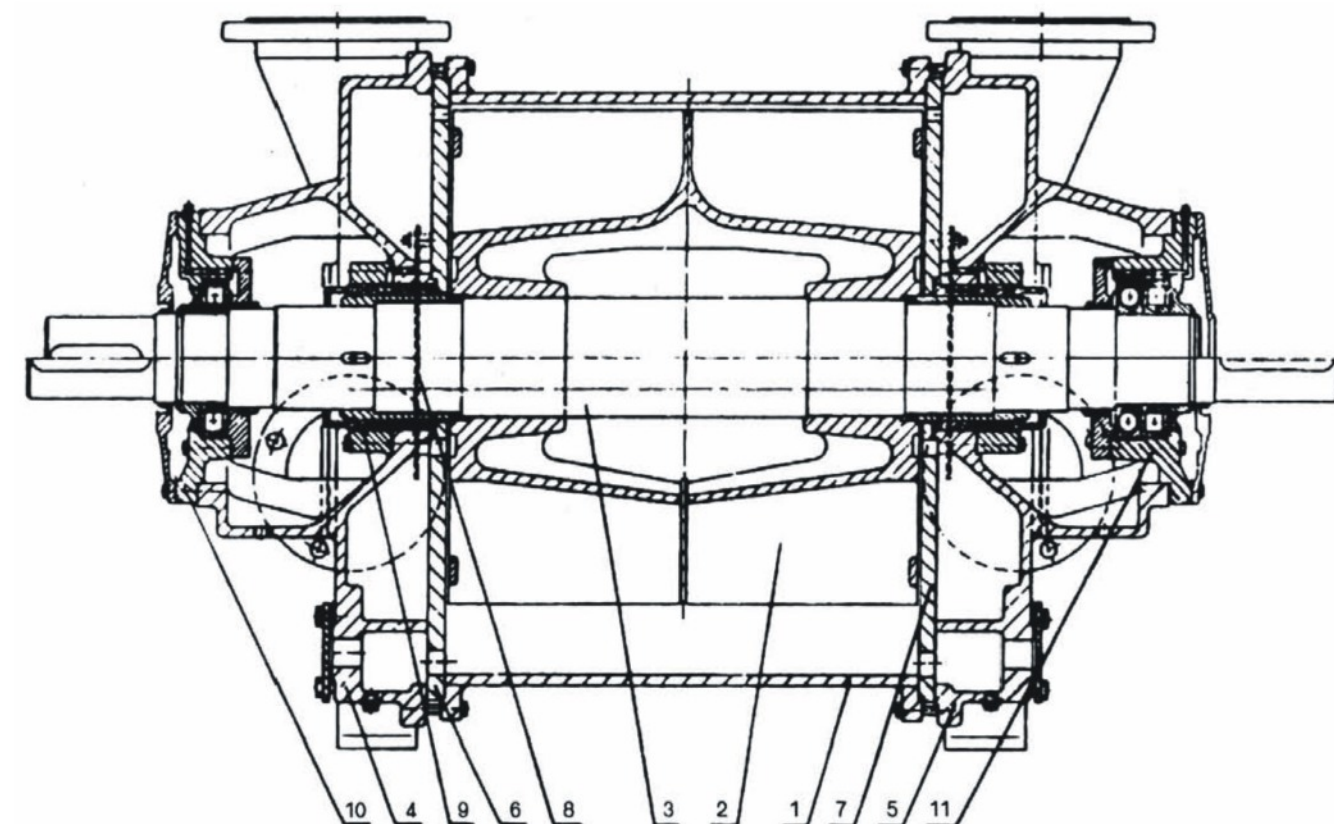


Applications

2BE Water Ring Vacuum Pumps are designed for pumping air and insoluble non-corrosive gases. Ideal for applications in Petrochemical, pharmacy, foodstuff, dyeing & printing and metallurgic industries and other tough and severe conditions.

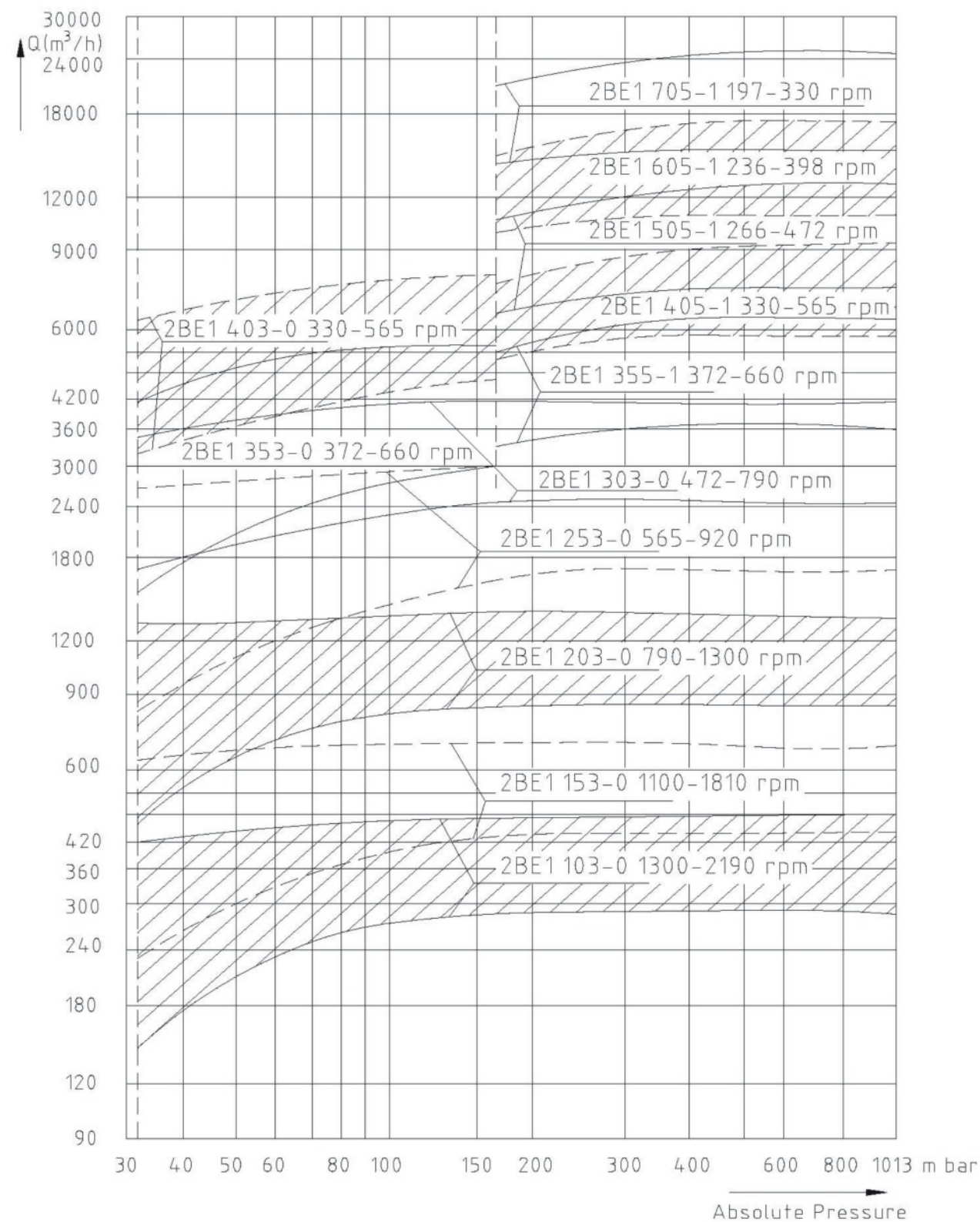
Features & Construction

- The single stage and single action construction facilitated reliable and energy-saving operation with easy and convenient servicing, ideal for operating conditions with large volume water discharge and fluctuating load impacts.
- Optimized impeller constructed with pressed vanes welded into the perfect model to achieve dynamic balance.
- Equipped with liquid separator from gas.

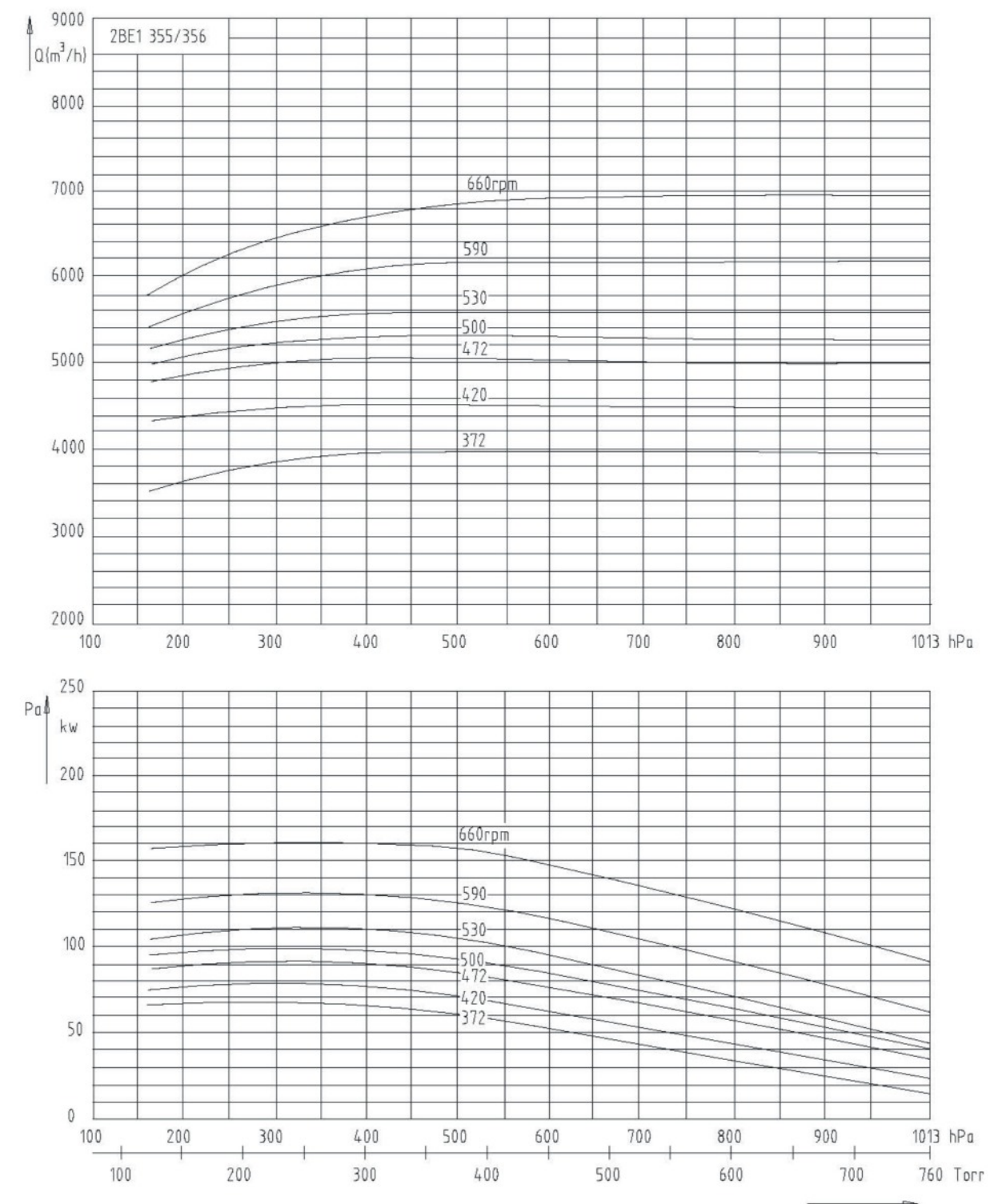


1. Pump Casing
2. Impeller
3. Shaft
4. Head Side Cover
5. Back Side Cover
6. Head
7. Back
8. Valve Disc Assembly
9. Shaft Sealing Assembly
10. Head Bearing Assembly
11. Back Bearing Assembly

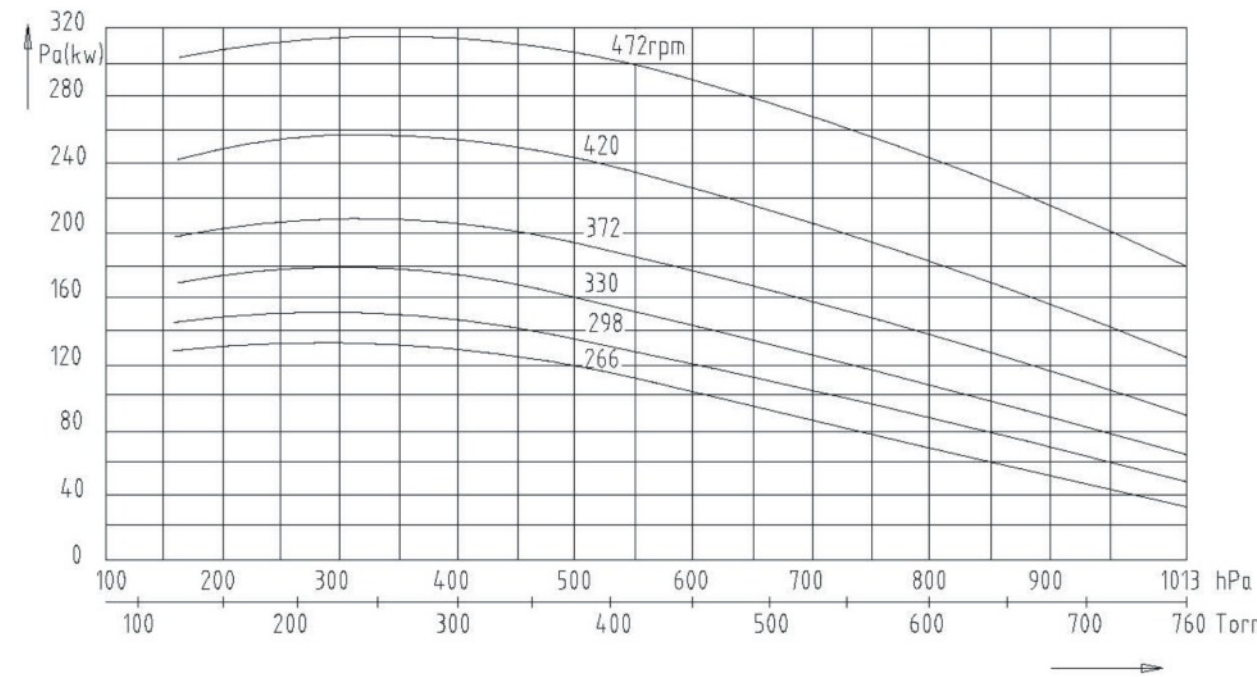
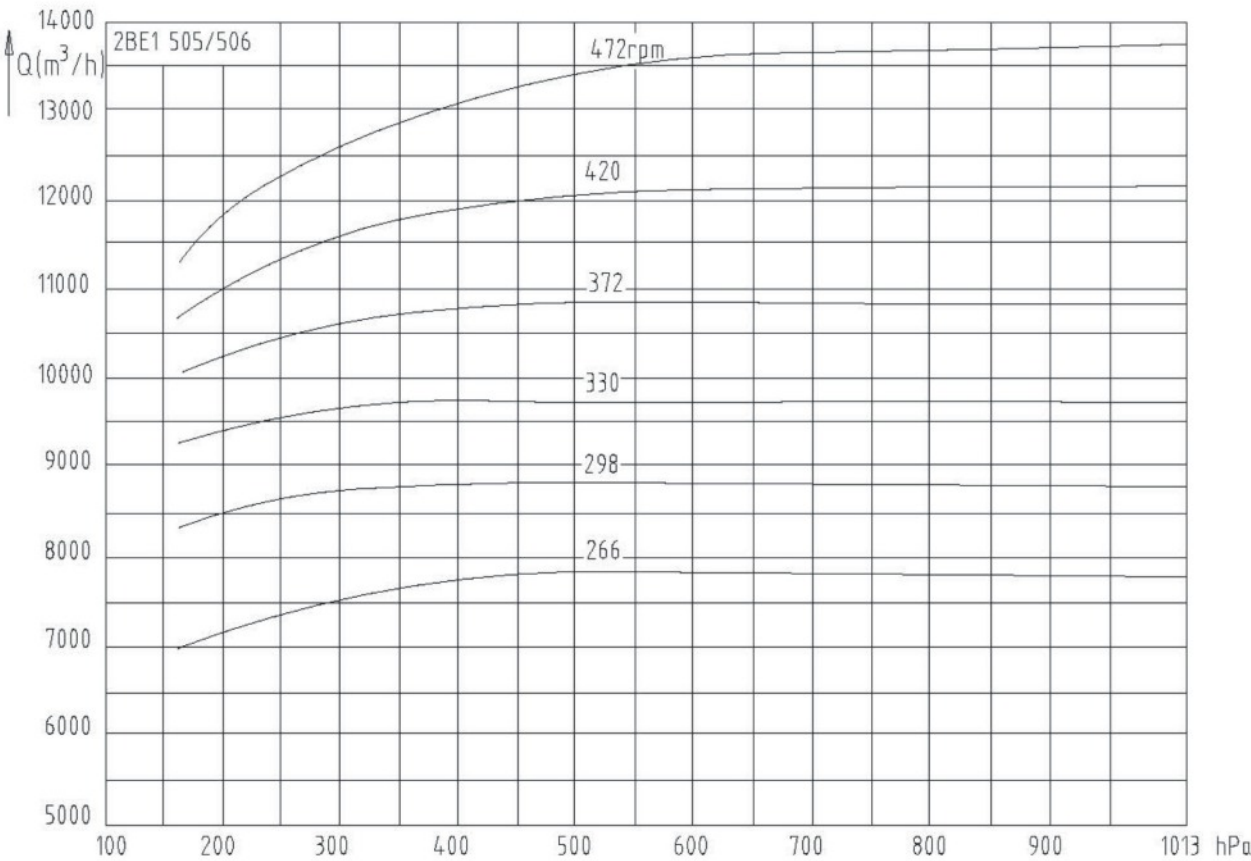
■ FAMILY CURVES



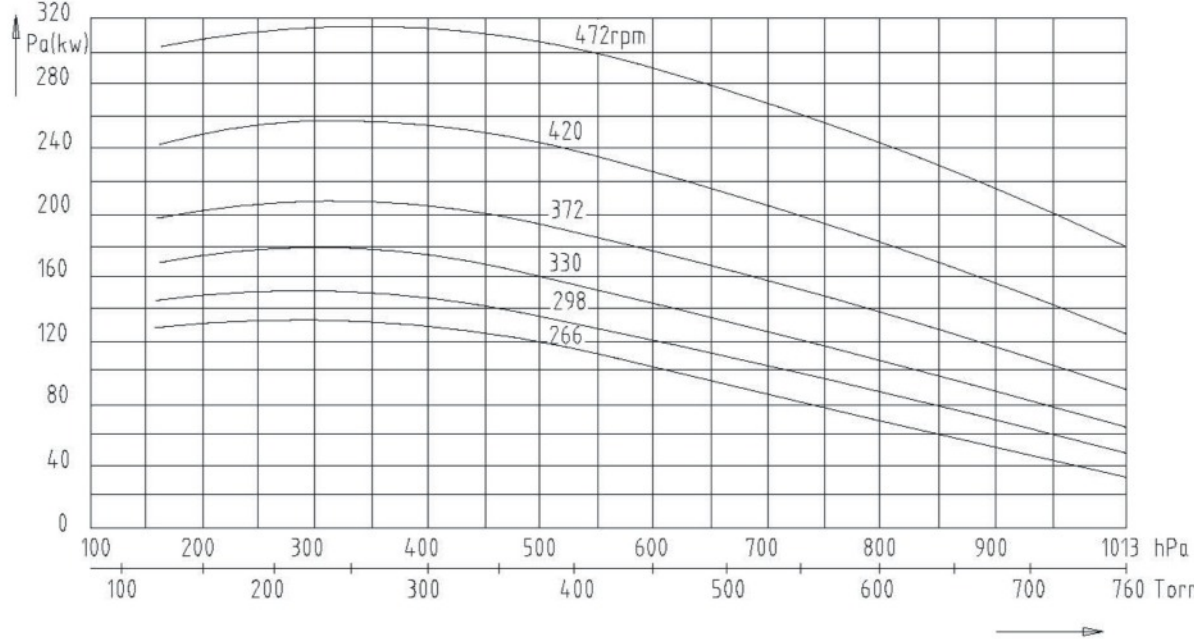
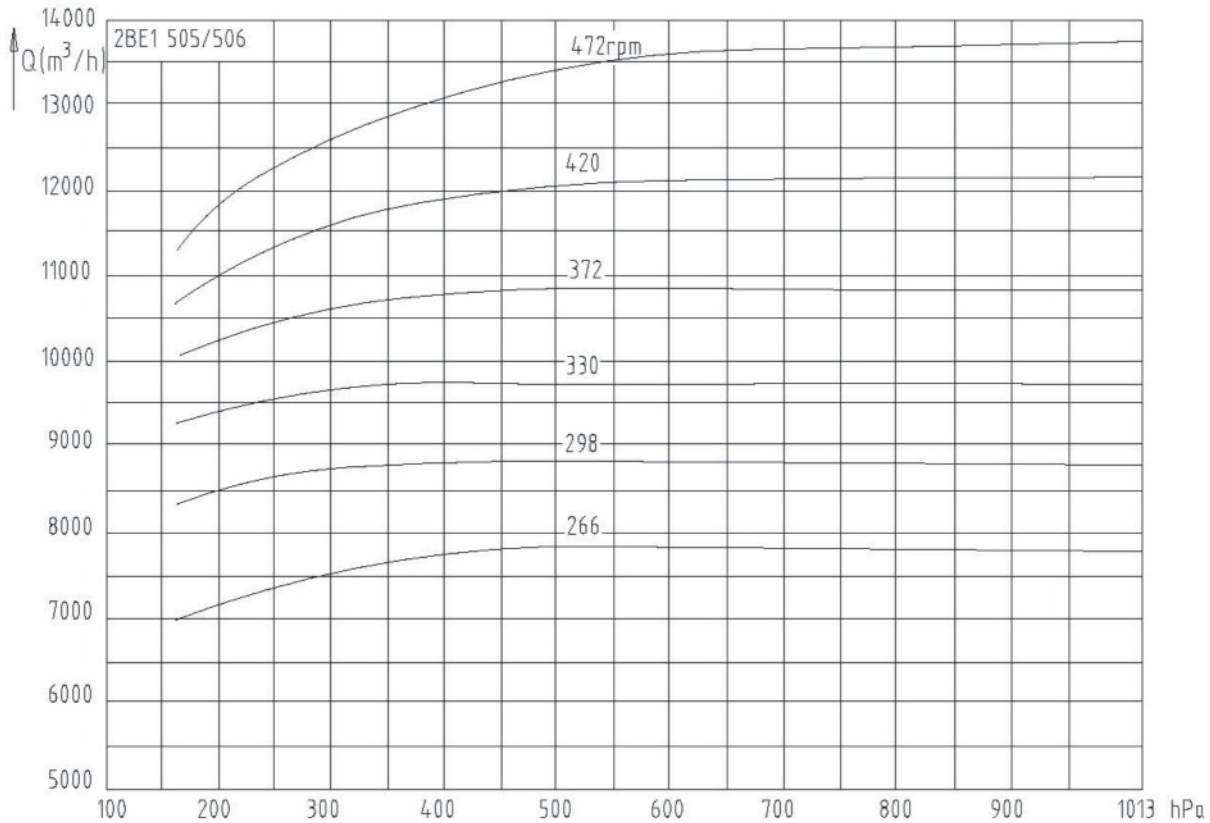
■ PERFORMANCE CURVES



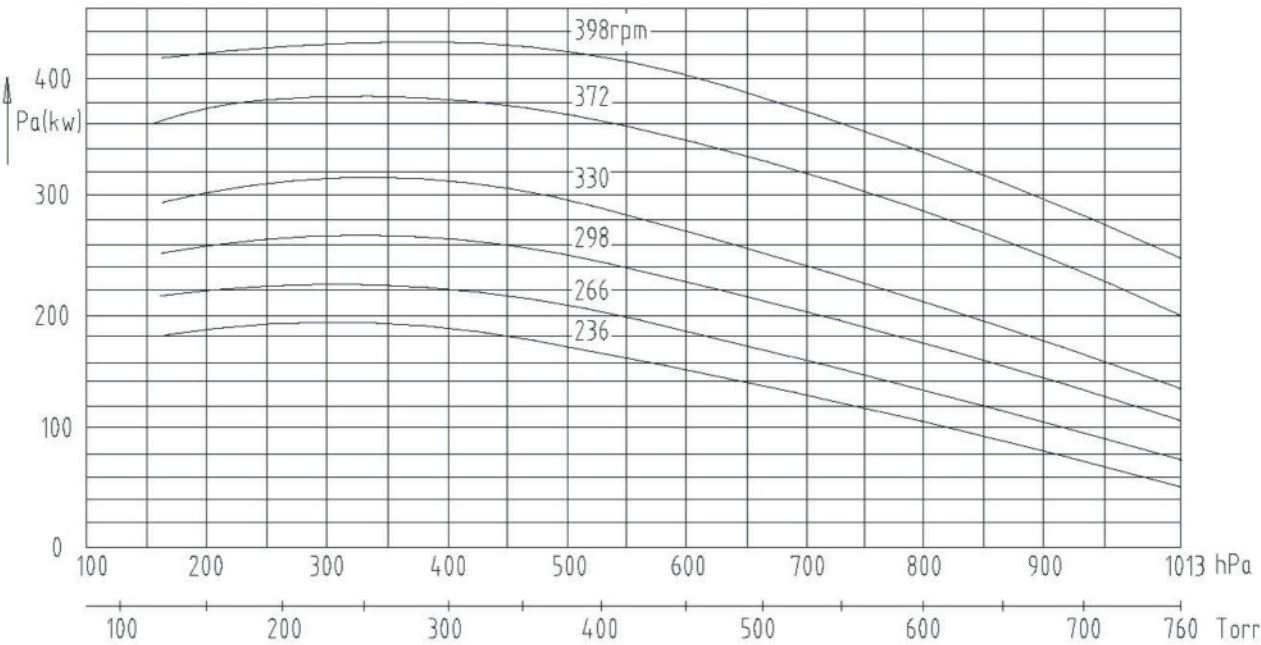
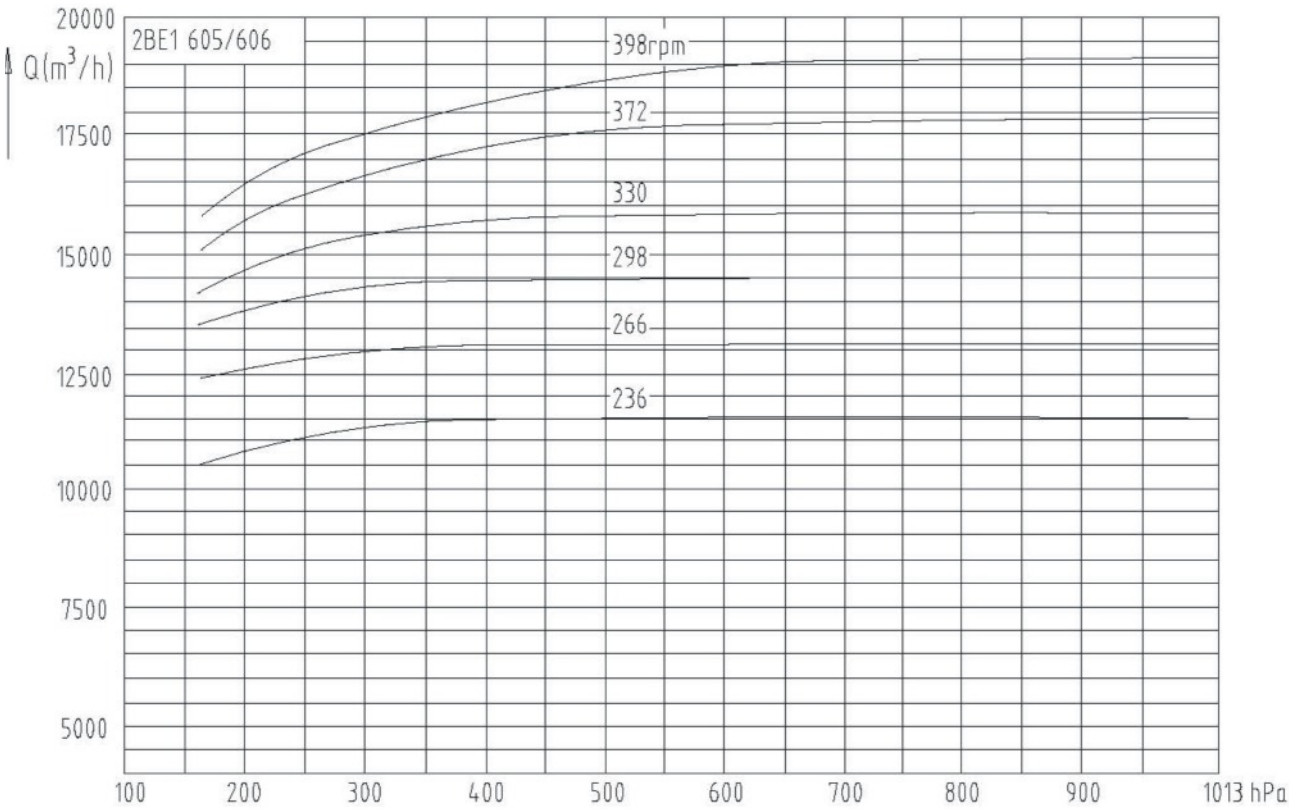
■ PERFORMANCE CURVES



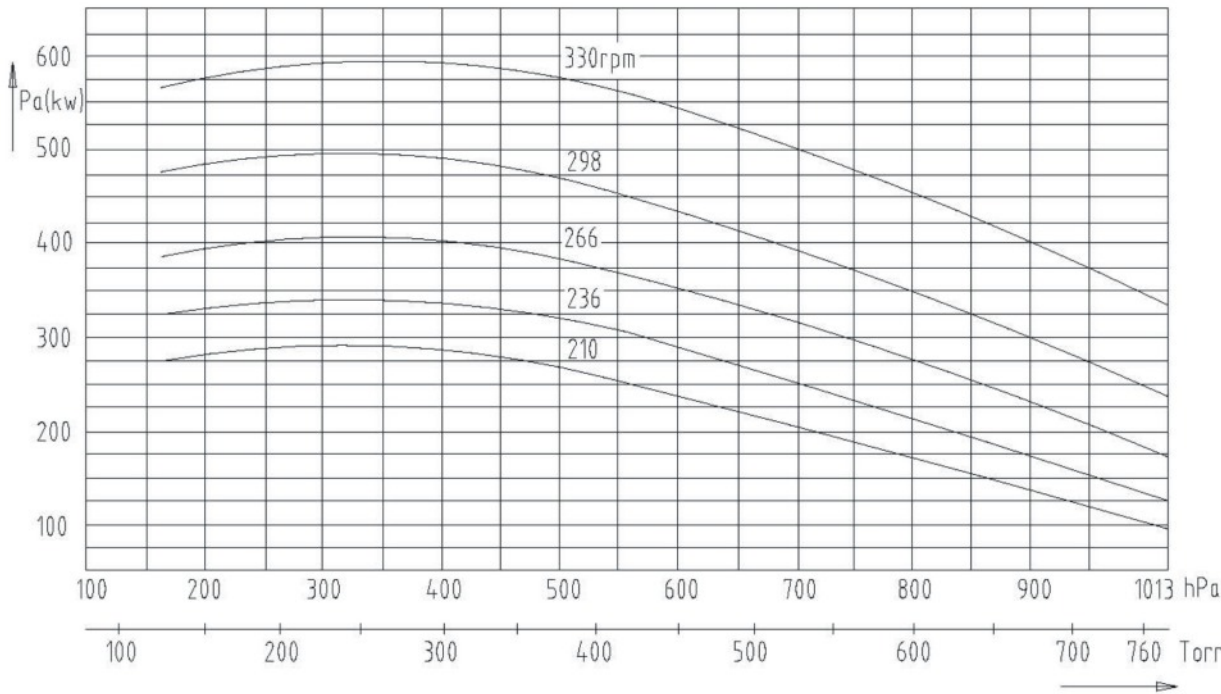
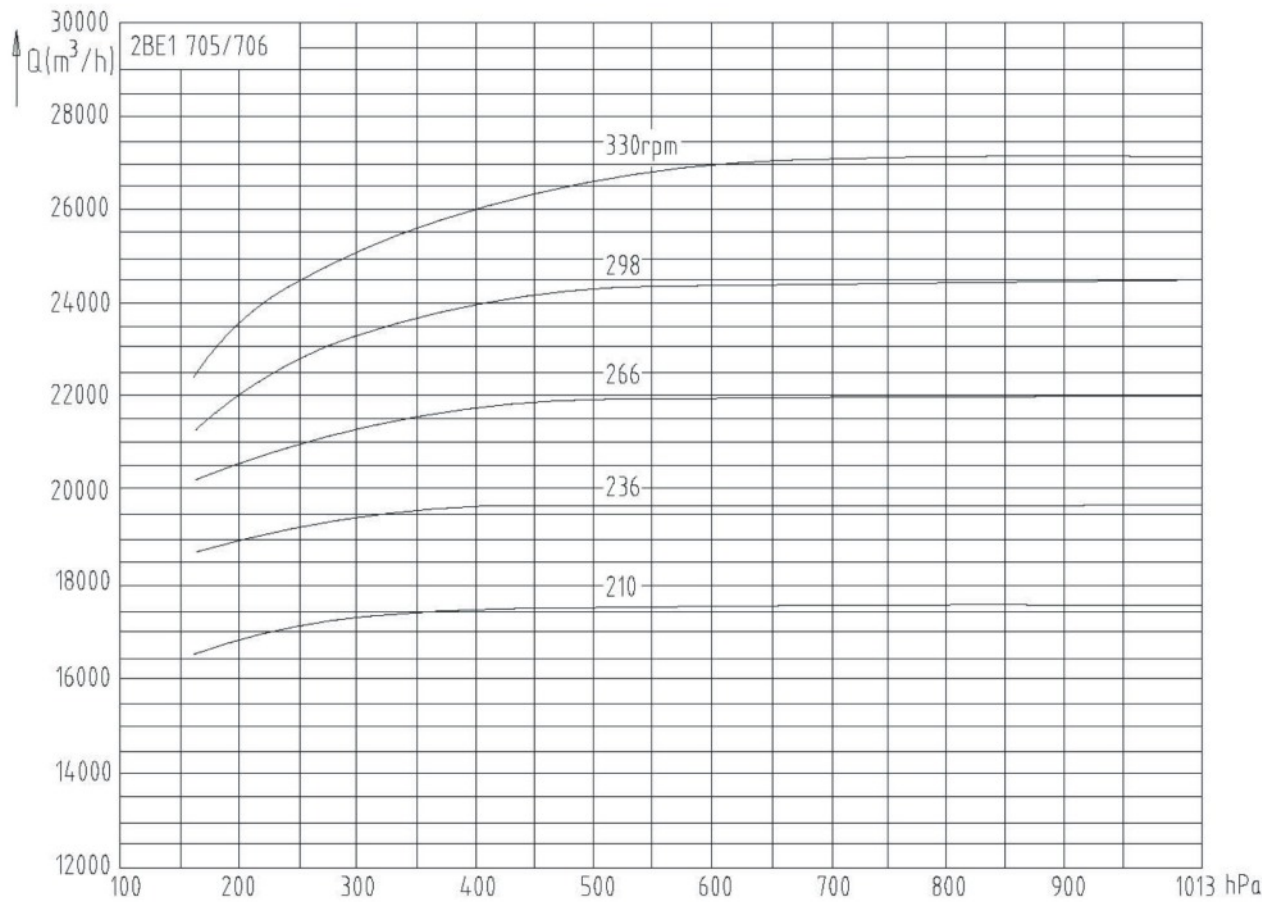
■ PERFORMANCE CURVES



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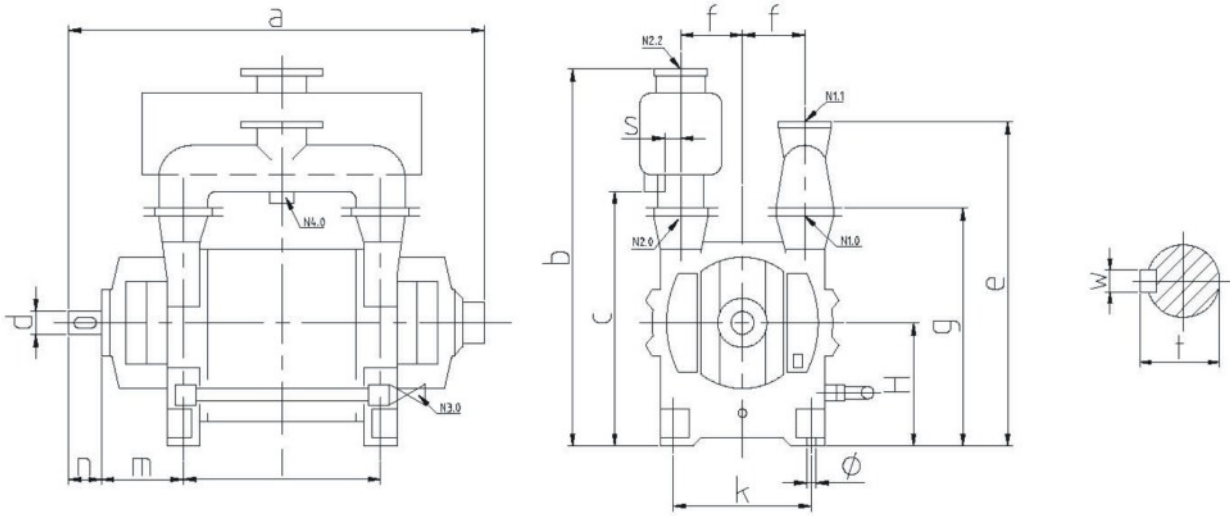
PERFORMANCE DATA

Model	Speed r/min	Max Shaft Power kw	Low Suction Pressure mbar	Capacity m³/h				WT. kg
				Suction Pressure 60mbar Saturated Air	Suction Pressure 100mbar Saturated Air	Suction Pressure 200mbar Saturated Air	Suction Pressure 400mbar Saturated Air	
2BE ₁ 103-0	1300	7	33	230	283	297	294	125
	1450	8.2		270	320	340	330	
	1625	10		330	362	380	375	
	1750	11.2		370	396	410	404	
2BE ₁ 153-0	1300	10.8	33	460	500	540	520	190
	1450	13.5		540	570	600	590	
	1625	16.5		615	630	660	645	
	1750	19.5		655	670	700	680	
2BE ₁ 203-0	880	25	33	820	920	1000	990	410
	980	29.5		980	1035	1120	1100	
	1100	35		1150	1200	1240	1240	
	1170	39		1230	1270	1320	1290	
2BE ₁ 253-0	660	45	33	1675	1900	2100	2100	890
	740	54		2070	2200	2400	2375	
	820	65		2400	2500	2660	2600	
	880	75		2600	2700	2850	2800	
2BE ₁ 303-0	472	50	33	2040	2310	2560	2500	1400
	500	53		2320	2490	2670	2620	
	530	57.5		2580	2700	2850	2800	
	590	65		3000	3100	3200	3100	
	660	79		3450	3550	3600	3500	
	710	90		3630	3770	3830	3720	
	740	99		3740	3900	4000	3900	
	790	115		3920	4100	4200	4130	
2BE ₁ 353-0	372	63	33	2380	2930	3370	3460	2000
	420	74		3200	3470	3700	3680	
	472	84		3900	4040	4200	4100	
	500	90		4160	4320	4480	4380	
	530	100		4420	4600	4720	4600	
	590	120		5050	5200	5300	5170	
2BE ₁ 403-0	660	154	33	5380	5700	5880	5700	3300
	330	98		4000	4600	5100	5070	
	372	110		5120	5400	5680	5600	
	420	130		6000	6240	6280	6280	
	472	160		7020	7250	7350	7100	
	530	203		7580	7920	8120	7950	
2BE ₁ 355/6-1	565	234	160	7940	8320	8600	8400	2200
	372	69		3600	3720	3890	3920	
	420	78		4400	4440	4500	4500	
	472	90		4820	4950	5040	5050	
	500	100		5060	5200	5280	5300	
	530	109		5280	5400	5540	5600	
2BE ₁ 405/6-1	590	130	160	5600	5800	6000	6080	3400
	660	160		6200	6260	6600	6680	
	330	100		5650	5750	5900	5950	
	372	118		6500	6650	6750	6750	
2BE ₁ 505/6-1	420	140	160	7200	7300	7500	7550	5100
	472	170		7700	7900	8200	8300	
	530	208		8250	8550	8900	9100	
	565	236		8600	9000	9500	9650	
	266	130		7200	7350	7650	7700	
	298	150		8500	8650	8750	8800	
2BE ₁ 605-1	330	172	160	9400	9550	9700	9750	7900
	372	205		10240	10450	10700	10750	
	420	250		11000	11300	11750	11820	
	472	310		11800	12250	12750	13150	
2BE ₁ 705-1	236	188	160	10800	11000	11400	11500	11500
	266	220		12600	12800	13000	13000	
	298	262		13800	13600	14400	14900	
	330	310		14700	15100	15500	15700	
	372	380		15750	16300	17000	17250	
	398	428		16500	17100	17900	18250	
2BE ₁ 705-1	210	285	160	16800	17150	17500	17500	11500
	236	335		19000	19300	19600	19700	
	266	405		20600	21000	21600	21750	
	298	490		22000	22750	23600	23850	
2BE ₁ 705-1	330	590	160	23500	24400	25600	26000	11500

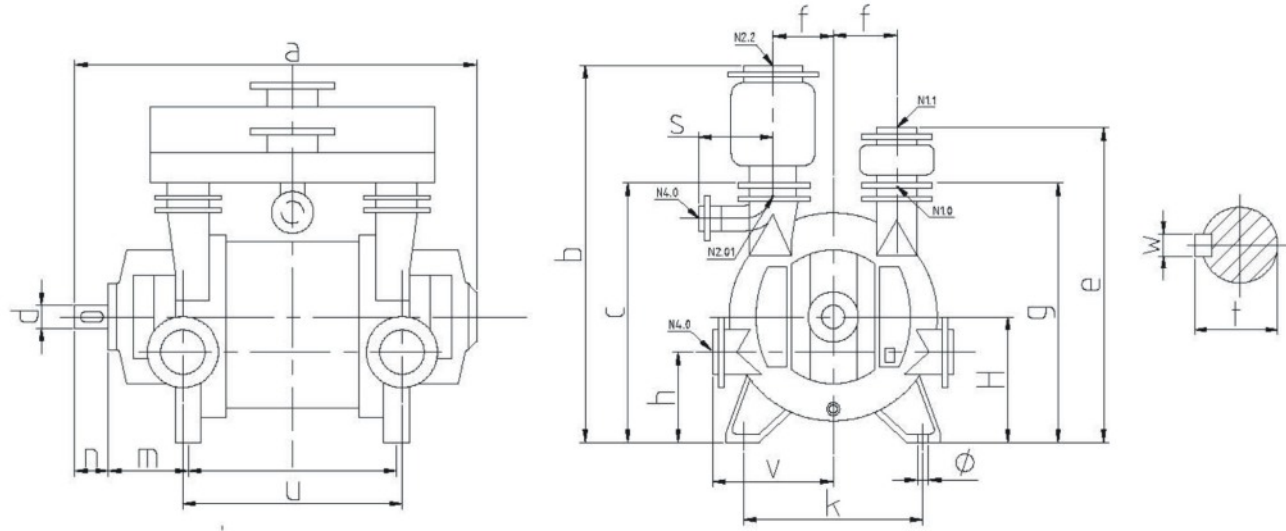
OUTLINE & INSTALLATION DIMENSIONS

Model	Outline Dimensions															
	a	b	c	e	f	g	H	I	m	n	s	k	φ	d	w	t
2BE ₁ 103-0	795	645	394	495	105	355	180	316	193.5	58	40	220	15	35	10	38
2BE ₁ 153-0	885	745	467	600	125	425	225	380	206	58	50	260	19	35	10	38
2BE ₁ 203-0	1095	985	629	840	155	590	315	515	227	82	50	340	24	50	14	53.5
2BE ₁ 253-0	1395	1245	799	1030	215	755	400	675	262.5	105	80	465	28	70	20	74.5
2BE ₁ 303-0	1580	1360	825	1185	230	910	475	790	315	165	205	670	35	100	28	106
2BE ₁ 353-0	1745	1570	930	1370	285	1050	560	910	335	165	245	800	35	120	32	127
2BE ₁ 403-0	2020	1865	1120	1625	335	1265	670	1110	355	200	285	950	42	140	36	148
2BE ₁ 355/6-1	1885	1570	930	1370	285	1050	560	1050	335	165	245	800	35	120	32	127
2BE ₁ 405/6-1	2170	1865	1120	1625	335	1265	670	1260	355	200	285	950	42	140	365	148
2BE ₁ 505/6-1	2435	2160	1335	1875	385	1475	800	1450	375	240	285	1120	42	160	40	169
2BE ₁ 605-1	2730	2560	1555	2220	435	1770	950	1700	400	240	370	1320	48	180	45	190
2BE ₁ 705-1	3185	2965	1835	2560	490	2045	1120	2020	450	280	370	1600	48	200	45	210

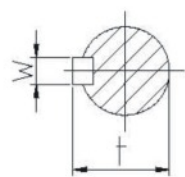
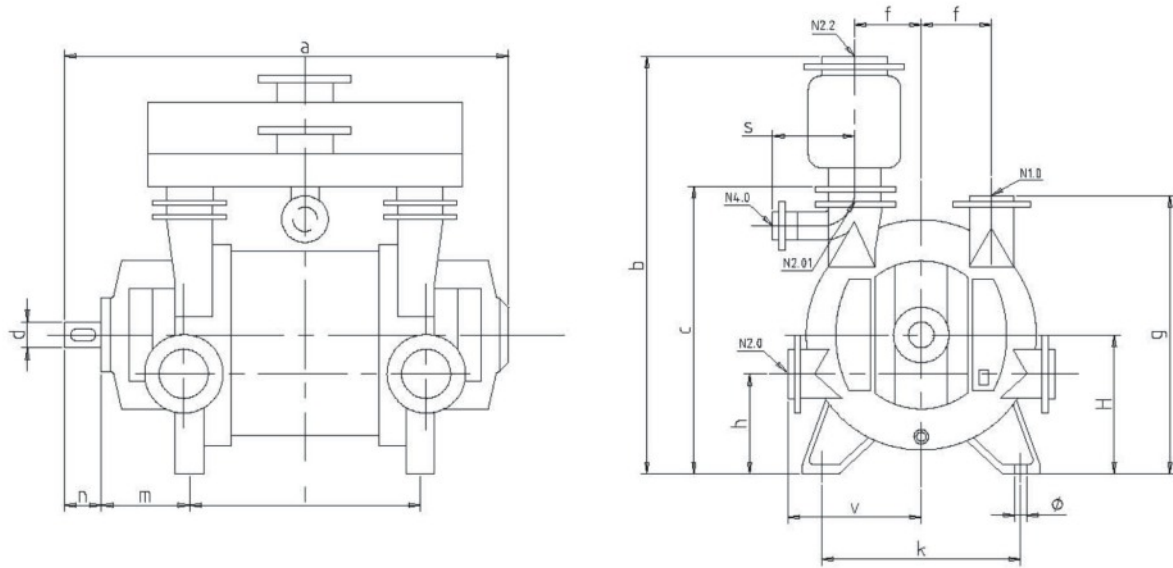
2BE1 10-25 OUTLINE & INSTALLATION DIMENSIONS



2BE1 30-70 OUTLINE & INSTALLATION DIMENSIONS



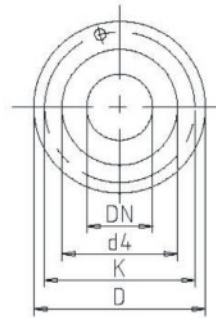
2BE1 356 406-1 506 OUTLINE & INSTALLATION DIMENSIONS



Model	h	u	v
2BE ₁ 405-1	475	1360	655
2BE ₁ 505-1	560	1590	750
2BE ₁ 605-1	665	1880	875
2BE ₁ 705-1	790	2230	1025

Model	h	u	v
2BE ₁ 303-0	355	846	480
2BE ₁ 353-0	395	1000	555
2BE ₁ 403-0	475	1210	655
2BE ₁ 355-1	395	1140	555

FLANGE DIMENSIONS



Code	Name	Code	Name
N1.0	Pump Suction	N2.2	Separator Discharge
N1.1	Suction Pipe	N3.0	Packing Inlet
N2.0	Horizontal Discharge	N4.0	Separator Outlet
N2.01	Horizontal Discharge of Pump		

Model	N1.0						N1.1						N3.0
	DN	d4	D	K	d2	Z	DN	d4	D	K	d2	Z	
2BE ₁ 103-0	50	102	165	125	18	4	65	122	185	145	18	4	RP 3/4
2BE ₁ 153-0	65	122	185	145	18	4	100	158	220	180	18	8	
2BE ₁ 203-0	100	158	220	180	18	8	125	188	250	210	18	8	RP1
2BE ₁ 253-0	125	188	250	210	18	8	150	212	285	240	22	8	RP1 1/4

Model	N2.0						N2.2						N4.0
	DN	d4	D	K	d2	Z	DN	d4	D	K	d2	Z	
2BE ₁ 103-0	50	102	165	125	18	4	65	122	185	145	18	4	RP 3/4
2BE ₁ 153-0	65	122	185	145	18	4	100	158	220	180	18	8	
2BE ₁ 203-0	100	158	220	180	18	8	125	188	250	210	18	8	RP1
2BE ₁ 253-0	125	188	250	210	18	8	150	212	285	240	22	8	

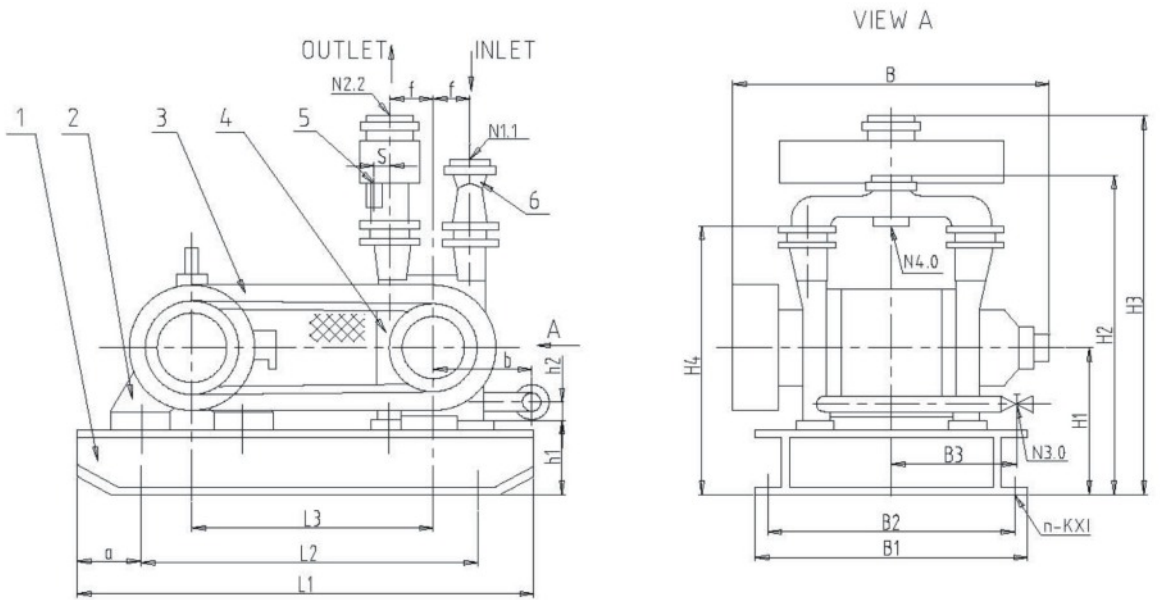
■ CONNECTION DIMENSIONS

Model	N1.0						N1.1					
	DN	d4	D	K	d2	Z	DN	d4	D	K	d2	Z
2BE ₁ 303-0	150	212	285	240	22	8	200	268	340	295	22	8
2BE ₁ 353-0	200	268	340	295	22	8	250	320	395	350	22	12
2BE ₁ 355-1	200	268	340	295	22	8	250	320	395	350	22	12
2BE ₁ 403-0	250	320	395	350	22	12	300	370	445	400	22	12
2BE ₁ 405/6-1	250	320	395	350	22	12	300	370	445	400	22	12
2BE ₁ 505/6-1	300	370	445	400	22	12	350	430	505	460	22	16
2BE ₁ 605-1	350	430	505	460	22	16	400	482	565	515	26	16
2BE ₁ 705-1	400	482	565	515	26	16	500	585	670	620	26	20

Model	N2.0						N2.01					
	DN	d4	D	K	d2	Z	DN	d4	D	K	d2	Z
2BE ₁ 303-0	125	188	250	210	18	8	150	212	285	240	22	8
2BE ₁ 353-0	150	212	285	240	22	8	200	268	340	295	22	8
2BE ₁ 355-1	150	212	285	240	22	8	200	268	340	295	22	8
2BE ₁ 403-0	200	268	340	295	22	8	250	320	385	350	22	12
2BE ₁ 405/6-1	200	268	340	295	22	8	250	320	385	350	22	12
2BE ₁ 505/6-1	250	320	395	350	22	12	300	370	445	400	22	12
2BE ₁ 605-1	300	370	445	400	22	12	350	430	505	460	22	16
2BE ₁ 705-1	350	430	505	460	22	16	400	482	565	515	26	16

Model	N2.2						N4.0					
	DN	d4	D	K	d2	Z	DN	d4	D	K	d2	Z
2BE ₁ 303-0	200	268	340	295	22	8	100	158	220	180	18	8
2BE ₁ 353-0	250	320	395	350	22	12	125	158	220	180	18	8
2BE ₁ 355-1	250	320	395	350	22	12	125	158	220	180	18	8
2BE ₁ 403-0	300	370	445	400	22	12	150	188	250	210	18	8
2BE ₁ 405/6-1	300	370	445	400	22	12	150	188	250	210	18	8
2BE ₁ 505/6-1	350	430	505	460	22	16	150	188	250	210	18	8
2BE ₁ 605-1	400	482	565	515	26	16	200	212	285	240	22	8
2BE ₁ 705-1	500	585	670	620	26	20	200	268	340	295	22	8

2BE1 10-25 MOTOR STRAP DRIVEN

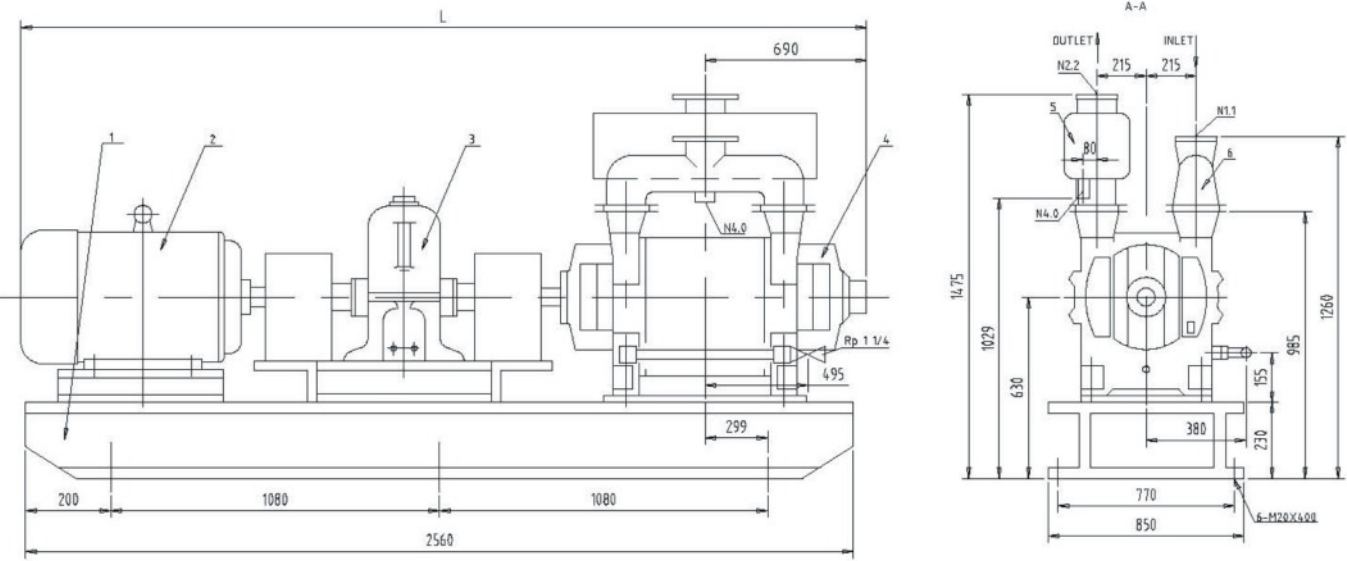


- | | | | | | |
|---|------------|---|-------------------|---|--------------|
| 1 | Base frame | 3 | Strap driven | 5 | |
| 2 | Motor | 4 | Water ring vacuum | 6 | Suction pipe |

Model	Speed r/min	Motor	L1	L2	L3	h1	h2	a	b
			mm	mm	mm	mm	mm	mm	mm
2BE1 103-0B/A	1300	Y160M4 11KW/V380V/IP44	1150	850	628	185	78	150	262
2BE1 153-0B/A	1300	Y180L-4 22KW/V380V/IP44	1300	1000	731	190	100	150	290
2BE1 203-0B/A	880	Y250M6 37KW/V380V/IP44	1700	1300	945	210	135	200	400
2BE1 253-0B/A	660	Y280M6 55KW/V380V/IP44	2100	850	1210	230	155	200	380

Mod	B	B1	B2	B3	S	f	H1	H2	H3	H4	N×I	W
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		kg
2BE1 103-0B/A	90	70	65	38	40	15	35	60	80	59	4M16X30	45
2BE1 153-0B/A	90	70	70	38	50	15	45	70	95	67	4M16X30	60
2BE1 203-0B/A	150	80	70	47	50	15	55	100	115	89	4M20X30	140
2BE1 253-0B/A	170	100	90	45	80	25	60	120	145	109	6M20X30	320

2BE1 253-0 WITH REDUCER
(SUCTION PIPE DIMENSIONS REFER TO 2BE1 10-25 TABLE)



- | | | | | |
|---|------------|---|-------------------|----------------|
| 1 | Base frame | 3 | Reducer | 5 |
| 2 | Motor | 4 | Water ring vacuum | 6 Suction pipe |

Model	Speed	Motor	Gear	L	WT
	r/min				kg
2BE1 253-OBG3A	660	Y280S-4 75KW/380V IP44	ZDY160-2.24	2853	2200
2BE1 253-OBG3C	820	Y280M-4 90KW/380V IP44	ZDY160-1.8	2903	2300

浙江扬子江泵业有限公司
ZHEJIANG YANGTZE RIVER PUMP CO.,LTD

Address: No. 3, Linyang Industrial Zone, Oubei, Yongjia,
Wenzhou, Zhejiang Province, China

E-mail:sales@yangtzepumps.com

Tel: +86-577-67988715

Website:www.yangtzeriverpump.com