

Liquid ring vacuum pumps 液环式真空泵

In close coupled design 机泵同轴设计



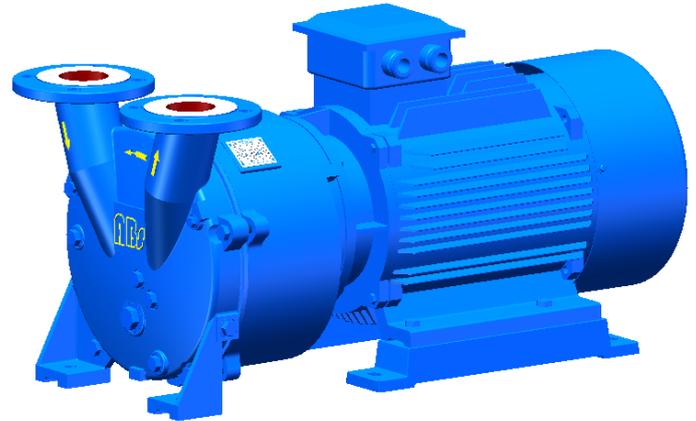
VA 25, 50, 90, 125, 150, 250, 325, 425

PRESSURE RANGE:

入口压力范围： 33 – 1013 mbar

SUCTION VOLUME:

入口流量： 24 - 470 m³/h



CONSTRUCTION TYPE

结构型式

ABs liquid ring vacuum pumps are displacement pumps of uncomplicated and robust construction with the following particular features:

ABS 液环式真空泵是结构简单使用可靠的容积变化式泵，具有如下特点：

- nearly isothermal compression
几乎等温压缩
- oil-free, as no lubrication in the working chamber
therefore non-polluting
在工作腔内无需润滑，因而绝对无油，无污染
- Capable of handling of nearly all gases and vapours
可处理几乎所有的气体和蒸汽
- small quantities of entrained liquid can be handled
可处理少量的夹带液体
- easy maintenance and reliable operation
易维护，高可靠性
- low noise and nearly free from vibration
低噪音，几乎无振动
- wide choice of materials, therefore applicable nearly everywhere
广泛的材质选择，基本上可用于所有场合
- shaft not in contact with the medium
轴不接触介质
- protection against cavitation as standard
气蚀保护作为标准配置
- incorporated dirt drain
一体式排污
- no metallic contact of the rotating parts
旋转部件没有金属接触

ABs liquid ring vacuum pumps VA are single-stage
ABs VA 系列液环式真空泵是单级泵。

NOTE

注意事项

During operation the pump must be supplied continuously with service liquid, normally water, in order to eliminate the heat resulting from the gas compression and to replenish the liquid ring, because part of the liquid is leaving the pump together with the gas. This liquid can be separated from the gas in a liquid separator (see last page) and reused.

The pumps are equipped with a connection through which the contaminated service liquid can be drained continuously during operation (dirt drain), if necessary.

泵运转期间需连续不断地补充工作液（通常为水），以带走气体压缩而产生的热量和补充部分随气体排出的工作液。此部分工作液可在气液分离器中与气体分开（请见样本附件部分），以重新利用。

泵可按需要配备连接管线，以保证在运转条件下连续地排放被污染的工作液。

The direction of rotation is clockwise, when looking from the motor towards the pump.

从泵的驱动端看，泵的旋转方向为顺时针。

APPLICATION

应用

Handling and exhausting of dry and humid gases; entrained liquid can be handled during normal duty. The pumps are applied in all fields where a pressure of 33 to 900 mbar must be generated.

干气和湿气的处理和抽除；正常条件下可处理夹带少量的液体。此真空泵可用于所有需要33 mbar到900 mbar的场合。

GENERAL TECHNICAL DATA 常规技术数据

Pump type 泵型号		Unit 单位	VA 25	VA 50	VA 90	VA125	VA 150	VA 250	VA 325	VA 425
Synchronous speed 同步转速	50 Hz 60 HZ	rpm	3000 3500		1500 1750					
Max. compression over atmospheric pressure 最大背压		bar	0.3							
Max. admissible pressure difference 允许最大压差		bar	1.1							
Test pressure above atmospheric pressure 水压试验 (表压)		bar	1		3					
Moment of inertia of the rotating pump parts and water filling 满水时转动部件的惯性力矩		kg · m ²	0.003	0.0095	0.035	0.053	0.069	0.097	0.14	0.21
Noise level at a suction pressure of 80 mbar 在80mbar 入口压力下的噪音		dB (A)	68	69	72			76	78	
Max. gas temperature 最大吸气温度	Dry gas 干气	°C	200							
	Saturated gas 饱和气	°C	100							
Service liquid 工作液 max. recommended temperature for water as working liquid 工作液为水的最大推荐温度 max. admissible temperature for other suitable working liquids 对其他适合的工作液最大允许温度 max. kinematic viscosity 最大运动粘度 max. density 最大密度 volume up to shaft level 到轴中心线的容积		°C	40							
		°C	80							
		mm ² /s	4							
		kg/m ³	1200							
		liter	0.3	0.4	2.4	2.8	3.2	4.0	4.2	4.7

The combination of several limiting values is not admissible.

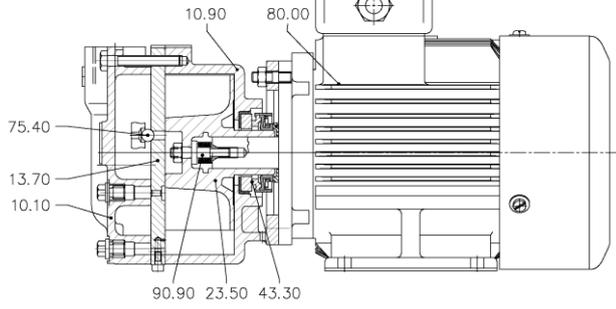
不允许将几种极限值同时选择。

Material design 材料设计

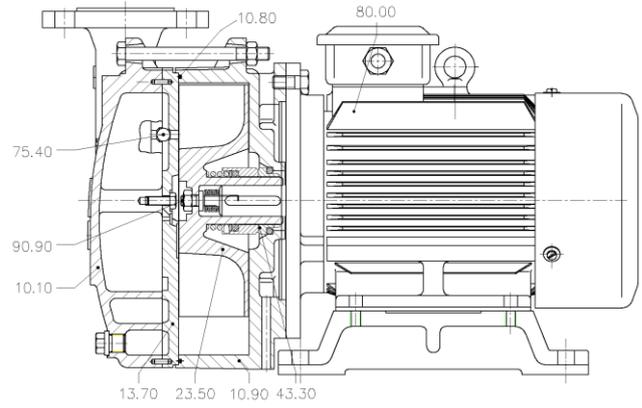
Material Design 材料设计		0K	4B	SZ	0D	0E	0F
Pump Type 泵型号	VA 25	√					
	VA 50	√	√	√	√	√	√
	VA 90,125,150	√	√	√	√	√	√
	VA 250	√	√	√	√	√	√
	VA 325,425	√	√	√	√	√	√
Item 位号	Component 零件	Material 材质					
10.10	Casing 泵盖	HT250	316	HT250	HT250	HT250	HT250
10.90	Central body 中间体	HT250	316	HT250	HT250	HT250	316
13.70	Guide disc 导流盘	HT250	316	316	HT250	316	316
23.50	Vane wheel impeller 叶轮	304	316	316	316	304	304
43.30	Mechanical seal 机械密封	XBPFF Q22BVGG	Q22BMGG XBVGG	Q22BVGG / Q22BMGG			
		X: Ceramic 陶瓷 Q22: Sic 碳化硅 B: Carbon 石墨 V: Vinton 氟橡胶	P: Perbunan 丁腈橡胶NBR M: PTFE encapsulated 氟橡胶外包裹聚四氟乙烯 F: 304 不锈钢 G: 316 不锈钢				

Sectional drawings 剖视图

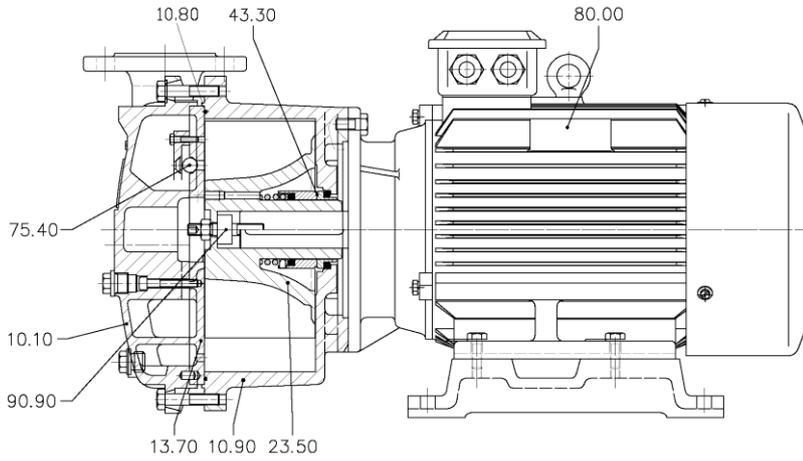
VA 25, VA 50



VA 90, VA 125, VA 150



VA 250



10.10	Casing 泵盖
13.70	Guide disc 导流盘
10.90	Central body 中间体
23.50	Vane wheel impeller 叶轮
80.00	Motor 电机
10.80	Sealing ring 密封圈
43.30	Mechanical seal 机械密封
75.40	Valve balls 阀球
90.90	Adjust screw 调节螺丝

VA 325, VA 425

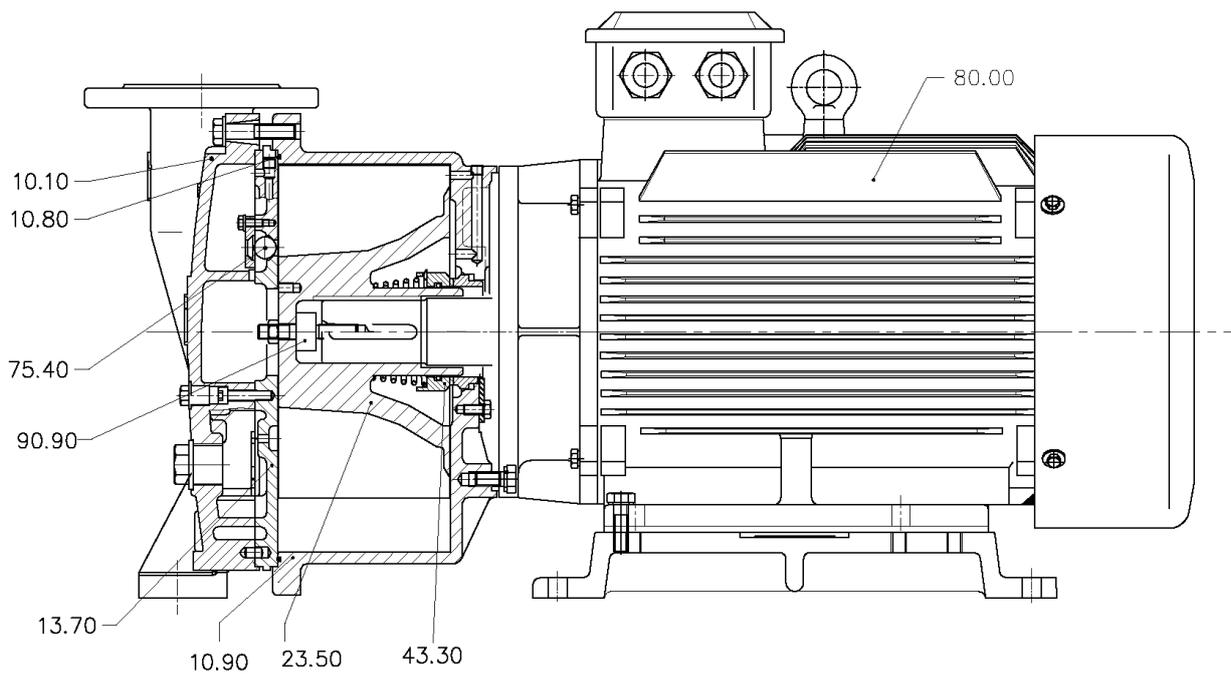
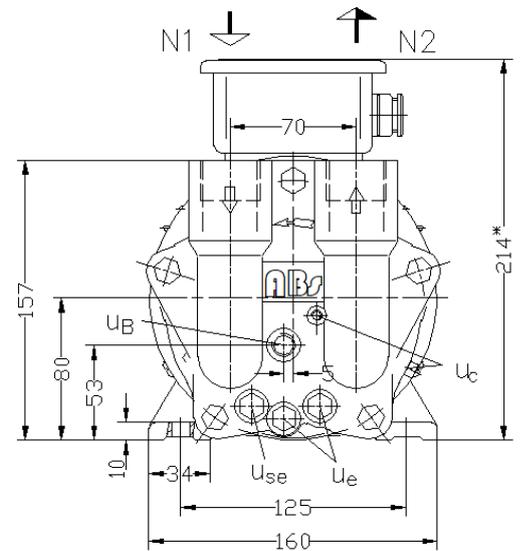
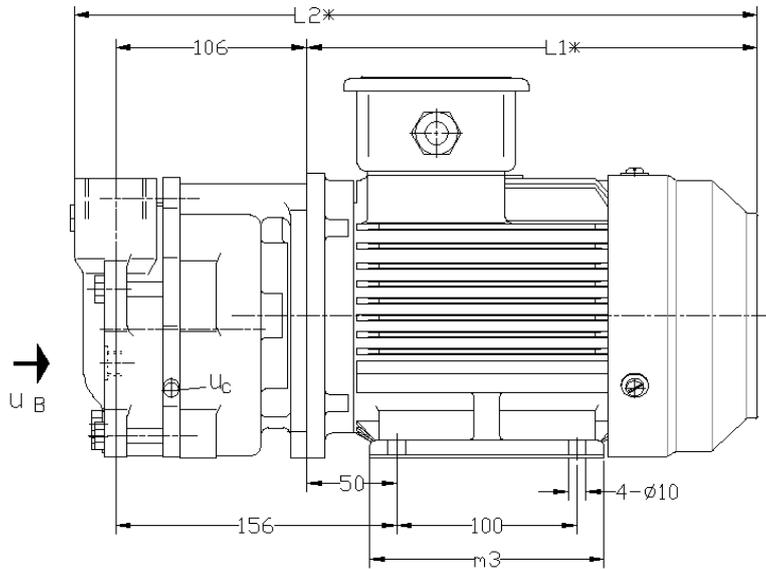


Table of Dimensions and weights 外形尺寸和重量列表

* Dimensions and weights are valid for standard motors used by ABs Pumps (Shanghai)

* 尺寸和重量对昂卜(上海)使用的标准非防爆IE3能效的电机有效

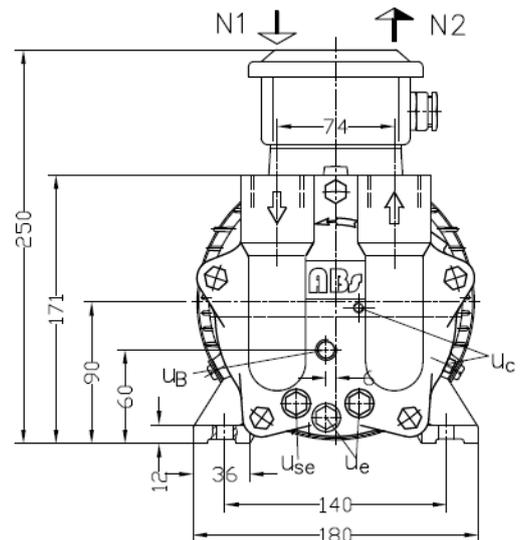
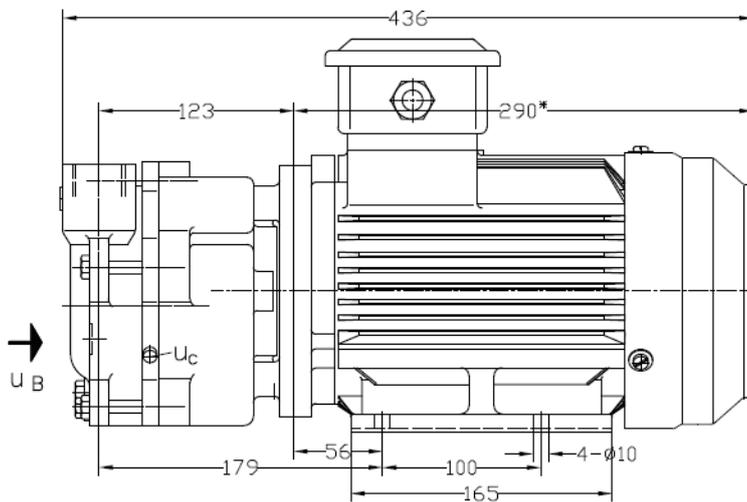
VA 25



Pump 泵型号	Electric motor 电机 IP55,2P		L1	L2	m3	Approx weight 重量 Kg		
	size 机座号	kW 功率				Motor 电机	Pump+ Motor 泵+电机	
		50Hz						60Hz
VA 25	80M1	0.75	250	379	130	15	24.5	
	80M2	1.1	265	394	150	16	25.5	

- N 1 = gas inlet G 1 吸气口 G1
- N 2 = gas outlet G 1 排气口 G1
- u_B = connection for service liquid G ¼
工作液连接口 G ¼
- u_C = connection for protection against cavitation M5
气蚀保护管接口 M5
- u_e = drain connection G ¼ 排液接口 G ¼
- u_{se} = connection for dirt drain G ¼ 排污接口 G ¼

VA 50



Pump 泵型号	Electric motor 电机 IP55,2P		Approx. weight 重量 kg		
	size 机座号	kW 功率		Motor 电机	Pump+ Motor 泵+电机
		50Hz	60Hz		
VA 50	90S-2	1.5		22	32
			2.2	24	34

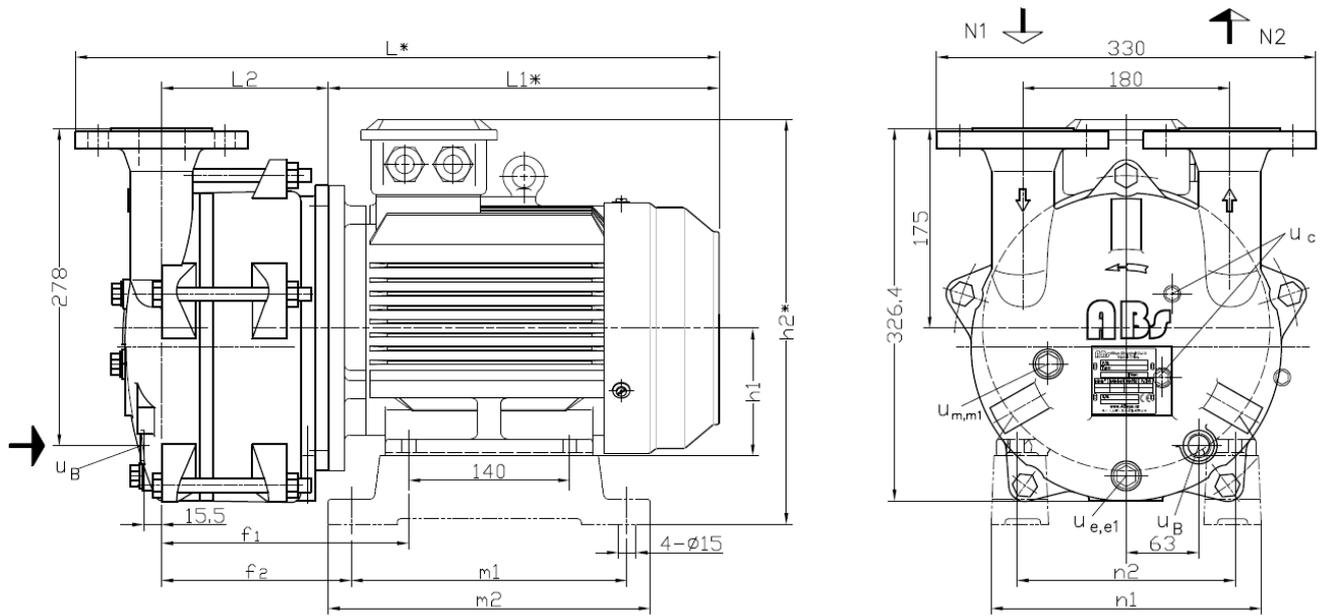
- N 1 = gas inlet G 1 吸气口 G1
- N 2 = gas outlet G 1 排气口 G1
- u_B = connection for service liquid G ¼
工作液连接口 G ¼
- u_C = connection for protection against cavitation M5
气蚀保护管接口 M5
- u_e = drain connection G ¼ 排液接口 G ¼
- u_{se} = connection for dirt drain G ¼ 排污接口 G ¼

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* 尺寸和重量对昂卜(上海)使用的标准IE3能效的电机有效

VA 90, VA 125, VA 150



N 1 = gas inlet DN 40
吸气口 DN 40

N 2 = gas outlet DN 40
排气口 DN 40

u_B = connection for service liquid G ½
工作液连接口 G ½

u_c = connection for protection against cavitation G ¼
气蚀保护管接口 G ¼

u_e = drain connection G ¾
排液接口 G ¾

u_{se} = Connection for dirt drain G ¾
排污接口 G ¾

u_m = connection for pressure gauge G ¾
压力表接口 G ¾

u_{m1} = connection for drain valve G ¾
排水阀接口 G ¾

Pump 泵型号	motor 电机 IP 55,50Hz,4P		h ₁	h ₂	f ₁	f ₂	n ₂	n ₁	L*	L ₁ *	L ₂	m ₁	m ₂	Approx weight 重量(kg)	
	Size	kW												Motor	Pump+ motor
VA 90	100L1	2.2	100	328	199	149	160	210	531	320	136	240	280	33	73
	100L2	3.0	100	328	199	149	160	210	576	365	136	240	280	42	82
VA 125	100L2	3.0	100	328	208	158	160	210	585	365	145	240	280	42	84
	112M	4.0	112	353	215	165	185	235	620	400	145	240	280	52	96
VA 150	112M	4.0	112	353	232	182	185	235	637	400	162	240	280	52	100
	112M	4.8	112	360	232	182	185	235	637	400	162	280	320	54	102

Pump 泵型号	motor 电机 IP 55,60Hz,4P		h ₁	h ₂ *	f ₁	f ₂	n ₁	n ₂	L*	L ₁ *	L ₂	m ₁	m ₂	Approx weight 重量(kg)	
	Size	kW												Motor	Pump+ motor
VA 90	100L2	3.3	100	330	199	149	160	210	576	365	136	240	280	37	77
VA 125	112M	4.8	112	360	215	165	185	250	620	400	145	280	320	54	95
VA 150	112M	6	112	360	232	182	185	250	637	400	162	280	320	58	106

Motor feet are part of the standard supply of VA 90-150
电机底脚为标准配置

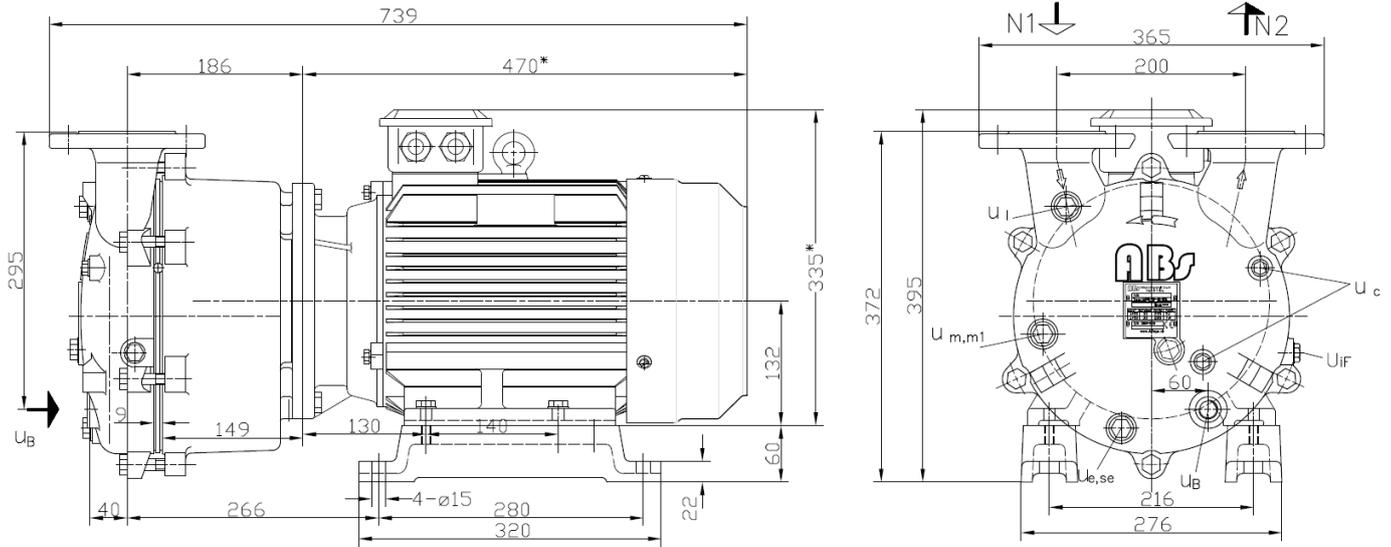
Flange connections see page 13 法兰连接请见第13页

Table of Dimensions and weights 外形尺寸和重量列表

* Dimensions and weights are valid for standard motors used by ABs (Shanghai)

* 尺寸和重量对昂卜(上海)使用的标准IE3能效的电机有效

VA 250



- | | | | | | |
|-----------------|---|---|-----------------|---|--|
| N 1 | = | gas inlet DN 50
吸气口 DN 50 | U _e | = | drain connection G ½
排液接口 G ½ |
| N 2 | = | gas outlet DN 50
排气口 DN 50 | U _{se} | = | connection for dirt drain G ½
排污接口 G ½ |
| u _B | = | connection for service liquid G ½
工作液连接口 G ½ | U _m | = | connection for pressure gauge G ½
压力表接口 G ½ |
| u _c | = | connection for protection against cavitation G ¼
气蚀保护管接口 G ¼ | U _{m1} | = | connection for drain valve G ½
排水阀接口 G ½ |
| U _{if} | = | adjusting screw for internal liquid return G ¾
内循环液体调校螺丝 G ¾ | U _i | = | Connection for relief valve G ½
单向阀接口 G ½ |

Pump 泵型号	Electric motor 电机 IP55,50Hz,4P		Approx. weight 重量 Kg		
	size 机座号	kW 功率		Motor 电机	Pump+ Motor 泵+电机
		50Hz	60Hz		
VA 250	132 S	5.5		67	125
			8	77	135

x

Motor feet are part of the standard supply of VA250
电机底脚为标准配置

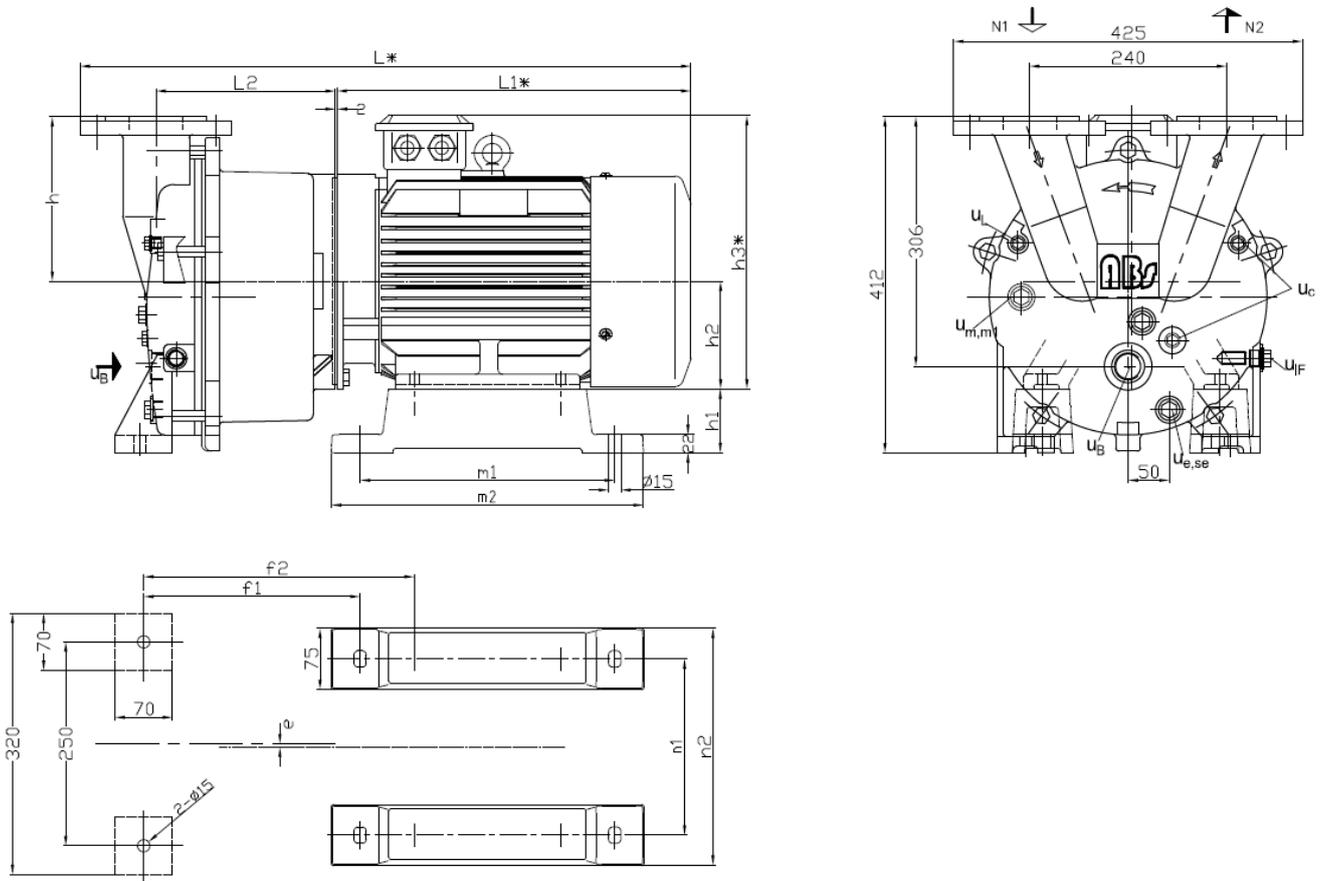
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Table of Dimensions and weights 外形尺寸和重量列表

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* 尺寸和重量对昂卜（上海）使用的标准IE3能效的电机有效

VA 325, VA 425



N 1 = gas inlet DN 65
吸气口 DN 65

N 2 = gas outlet DN 65
排气口 DN 65

UB = connection for service liquid G 1
工作液连接口 G 1

Uc = connection for protection against cavitation G ¼
气蚀保护管接口 G ¼

Ue = drain connection G ½
排液接口 G ½

U_{se} = connection for dirt drain G ½
排污接口 G ½

Um = connection for pressure gauge G ½
压力表接口 G ½

Um1 = connection for drain valve G ½
溢流阀接口 G ½

U_F = adjusting screw for internal liquid return G ½
内部工作液回流调节螺栓 G ½

U_i = Connection for relief valve G¹/₄
单向阀接口 G¹/₄

Pump 泵型号	electric motor 电机 IP 55				e	f1	f2	h	h1	h2	h3*	m1	m2	n1	n2	L*	L1*	L2	weight abt. 重量约	
	Size 规格	kW		Motor 电机															Pump+ Motor 泵+电机	
		50hz	60hz																	
VA 325	132 M	7.5		4	269	335	202	78	132	335	310	380	216	291	753	440	219	78	157	
	160M		13.2																	289
VA 425	160 M	11		6	303	363	200	52	160	415	375	415	254	329	877	550	233	120	199	
	160M		18																	128

Motor feet are part of the standard supply of VA325 and VA425
电机底脚为标准配置

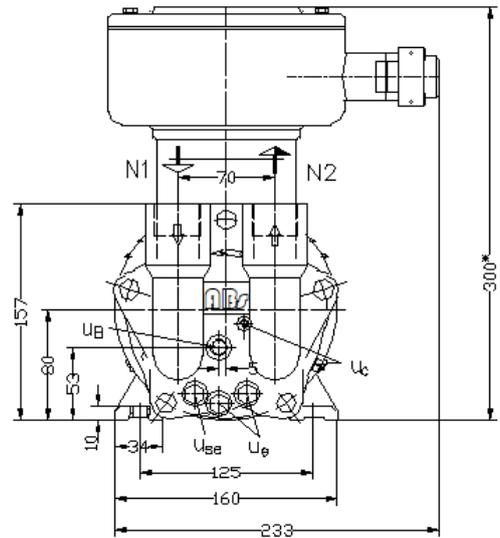
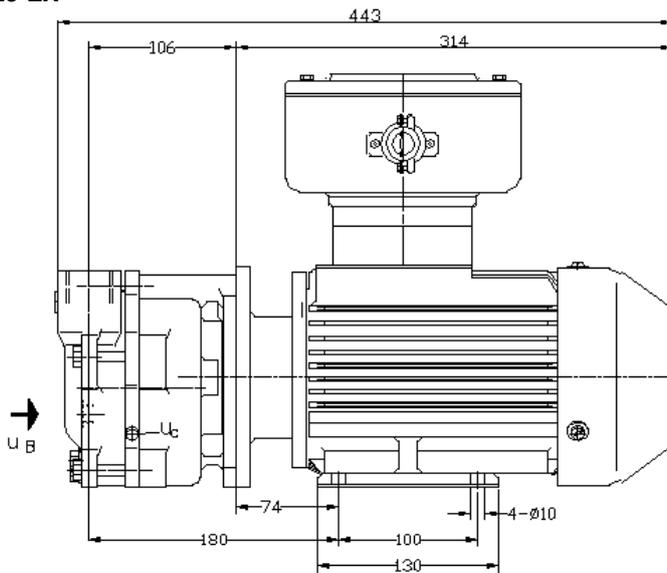
Flange connections see page 13
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Table of Dimensions and weights 外形尺寸和重量列表

* Dimensions and weights are valid for standard motors used by ABs Pumps (Shanghai)

* 尺寸和重量对昂卜(上海)使用的标准防爆IE3能效的电机有效

VA 25-EX



Pump 泵型号	Electric motor 电机 IP55,2P		Approx weight 重量 K	
	size 机座号	kW 功率	Motor 电机	Pump+ Motor 泵+电机
VA 25-EX	80M1	50Hz	24.5	34
		60Hz		

N 1 = gas inlet G 1 吸气口 G1

N 2 = gas outlet G 1 排气口 G1

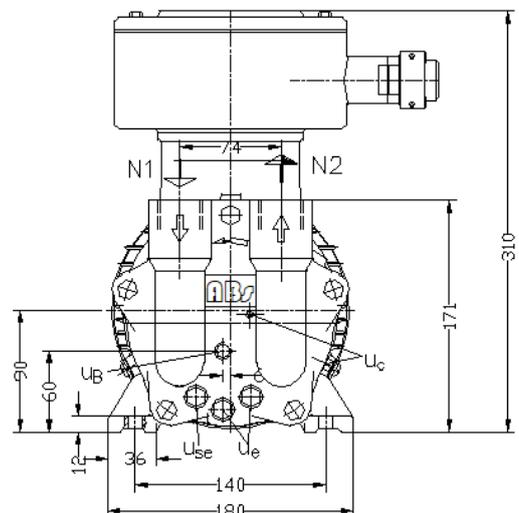
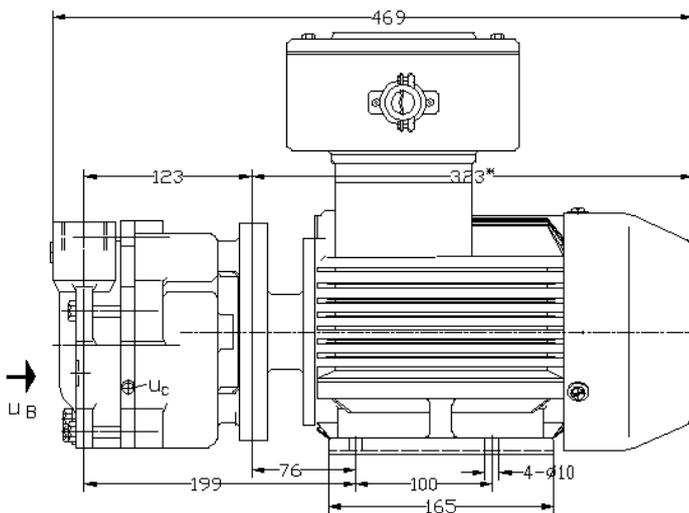
U_B = connection for service liquid G ¼
工作液连接口 G ¼

U_c = connection for protection against cavitation M5
气蚀保护管接口 M5

U_e = drain connection G ¼ 排液接口 G ¼

U_{se} = connection for dirt drain G ¼ 排污接口 G ¼

VA 50-EX



Pump 泵型号	Electric motor 电机 IP55,2P		Approx. weight 重量 kg	
	size 机座号	kW 功率	Motor 电机	Pump+ Motor 泵+电机
VA 50-EX	90S-2	50Hz	29	39
		60Hz		

N 1 = gas inlet G 1 吸气口 G1

N 2 = gas outlet G 1 排气口 G1

U_B = connection for service liquid G ¼
工作液连接口 G ¼

U_c = connection for protection against cavitation M5
气蚀保护管接口 M5

U_e = drain connection G ¼ 排液接口 G ¼

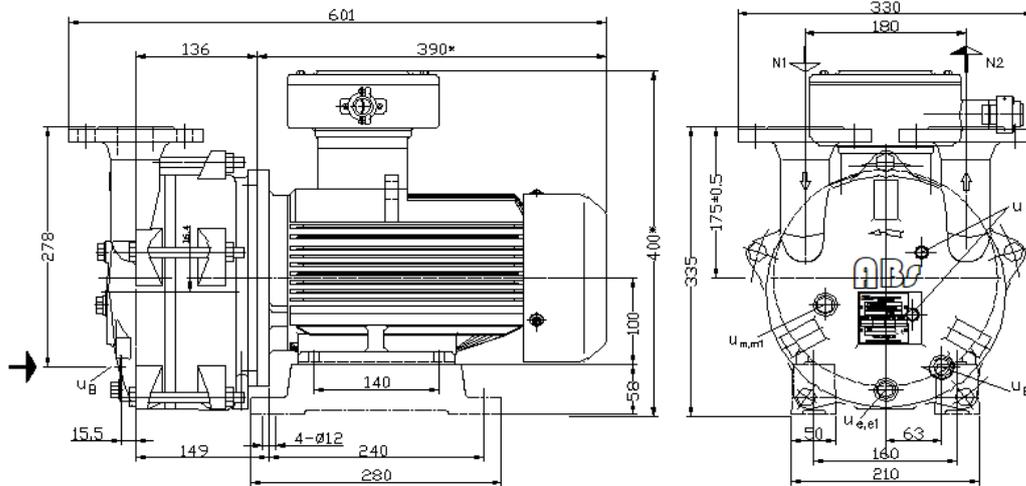
U_{se} = connection for dirt drain G ¼ 排污接口 G ¼

Table of Dimensions and weights 外形尺寸和重量列表

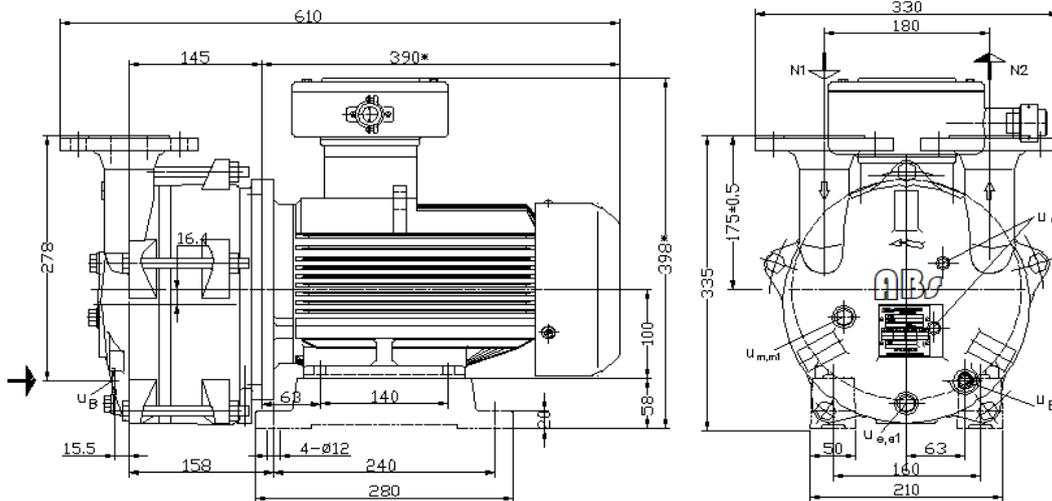
* Dimensions and weights are valid for standard motors used by ABs (Shanghai)

* 尺寸和重量对昂卜(上海)使用的标准防爆IE3能效的电机有效

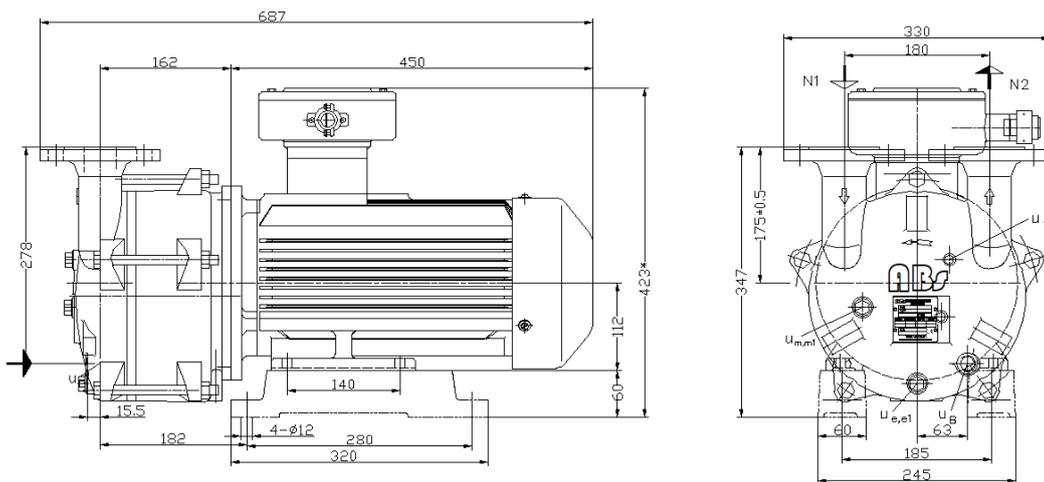
VA 90-EX,



VA 125-EX



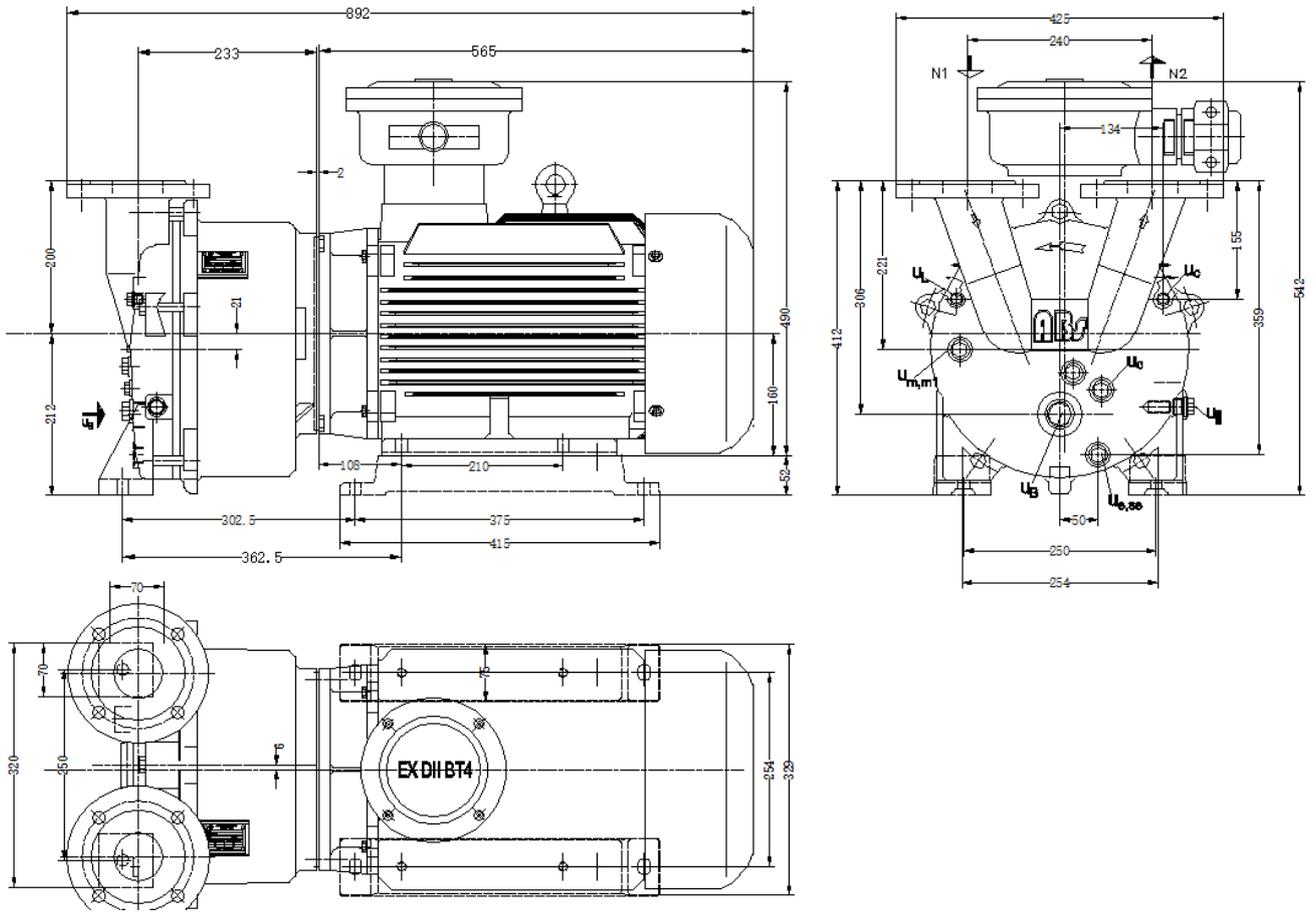
VA 150-EX



- | | |
|--|---|
| N 1 = gas inlet DN 40
吸气口 DN 40 | U _e = drain connection G ³ / ₈
排液接口 G ³ / ₈ |
| N 2 = gas outlet DN 40
排气口 DN 40 | U _{se} = Connection for dirt drain G ³ / ₈
排污接口 G ³ / ₈ |
| U _B = connection for service liquid G ¹ / ₂
工作液连接口 G ¹ / ₂ | U _m = connection for pressure gauge G ³ / ₈
压力表接口 G ³ / ₈ |
| U _c = connection for protection against cavitation G ¹ / ₄
气蚀保护管接口 G ¹ / ₄ | U _{m1} = connection for drain valve G ³ / ₈
排水阀接口 G ³ / ₈ |

Pump 泵型号	YBX3 motor IP 55,50Hz,4P		Approx weight 重量(kg)	
	Size	kW	Motor	Pump+ motor
VA 90	100L	2.2	51	91
VA 125	100L2	3.0	54	96
VA 150	112M	4.0	70	118

VA 425 -EX



- N 1 = gas inlet DN 65
吸气口 DN 65
- N 2 = gas outlet DN 65
排气口 DN 65
- U_B = connection for service liquid G 1
工作液连接口 G 1
- U_c = connection for protection against cavitation G ¼
气蚀保护管接口 G ¼
- U_e = drain connection G ½
排液接口 G ½

- U_{se} = connection for dirt drain G ½
排污接口 G ½
- U_m = connection for pressure gauge G ½
压力表接口 G ½
- U_{m1} = connection for drain valve G ½
溢流阀接口 G ½
- U_{if} = adjusting screw for internal liquid return
内部工作液回流调节螺栓
- U_l = Connection for relief valve G¹/₄
单向阀接口 G¹/₄

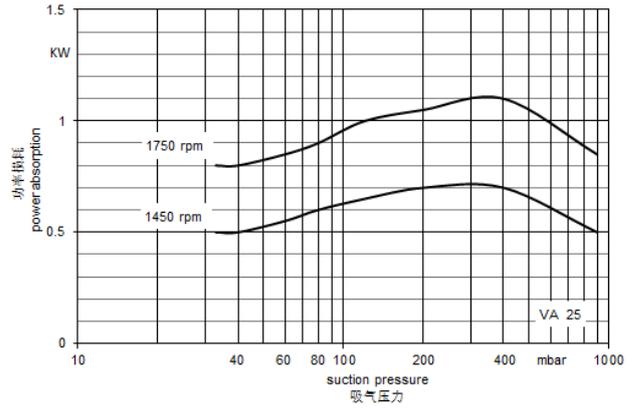
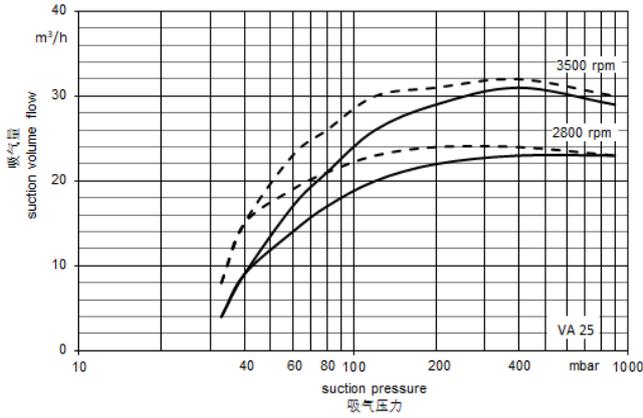
Pump 泵型号	electric motor 电机 IP 55		weight abt. 重量约		
	Size 规格	kW		Motor 电机	Pump+ Motor 泵+电机
		50hz	60hz		
VA 325-EX	132 M	7.5		85	164
VA 425-EX	160 M	11		129	208

Motor feet are part of the standard supply of VA325 and VA425
电机底脚为标准配置

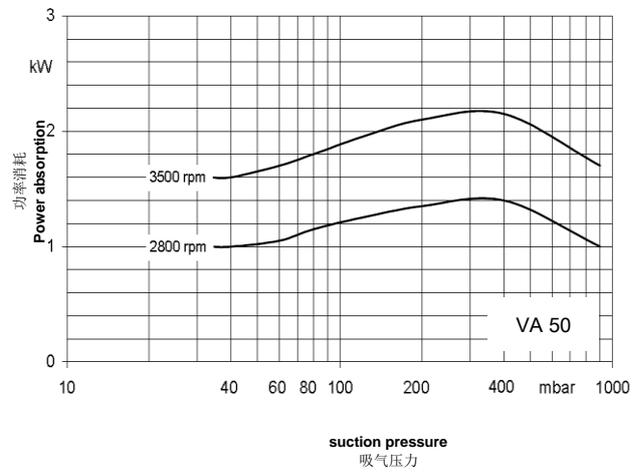
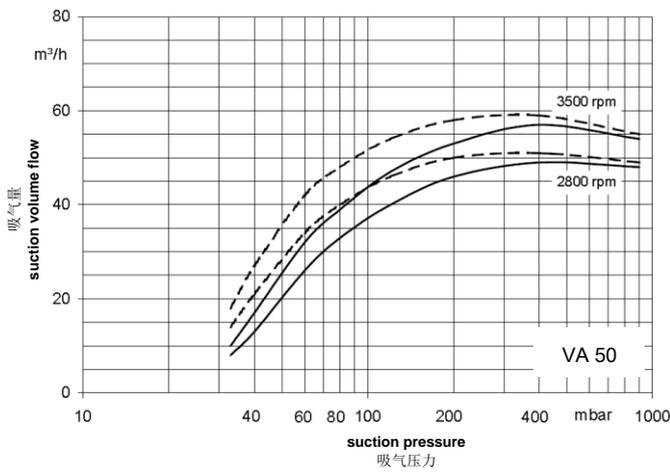
Flange connections see page 13
法兰连接请见第13页

Performance Curves 泵的性能曲线

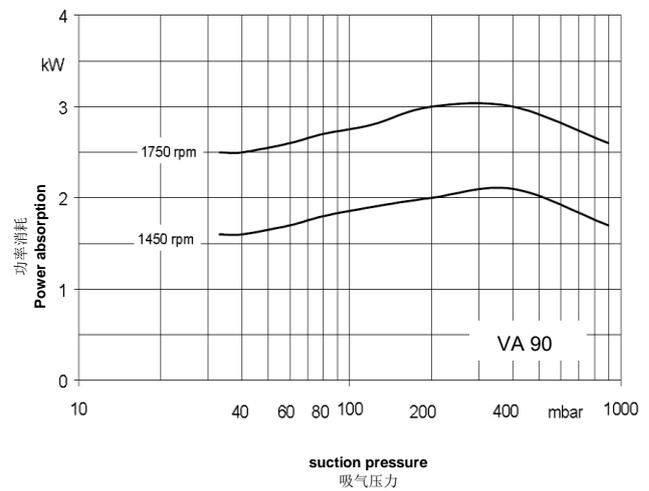
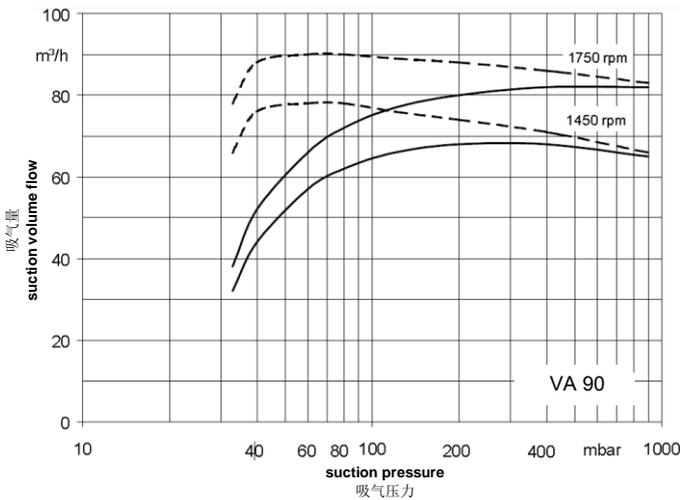
VA 25



VA 50



VA 90



The operating data are applicable under the following conditions:

性能曲线基于如下工况：

pumping medium:

吸气介质：

service liquid:

工作液：

Compression pressure

排气压力：

The suction volume flow is applied to the suction pressure

Tolerance of the operating data 10%

Max. fresh water need with lowest suction pressure

- dry air 干空气:

20°C _____

- water vapour saturated air 饱和空气:

20°C - - - - -

- water 水：

15°C

1013 mbar (atmospheric pressure)

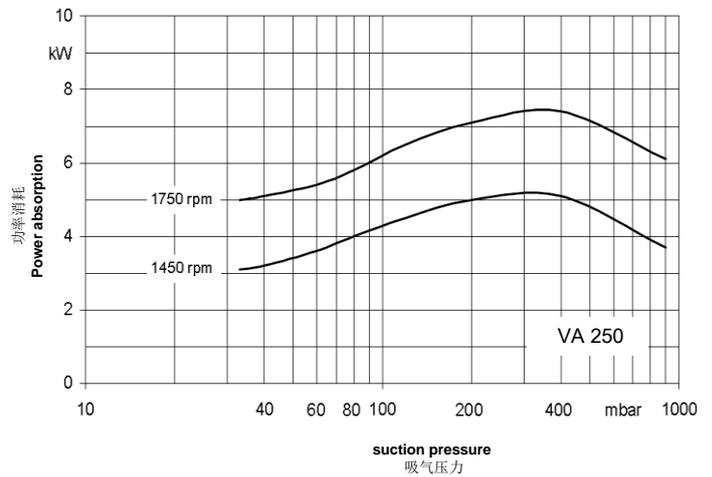
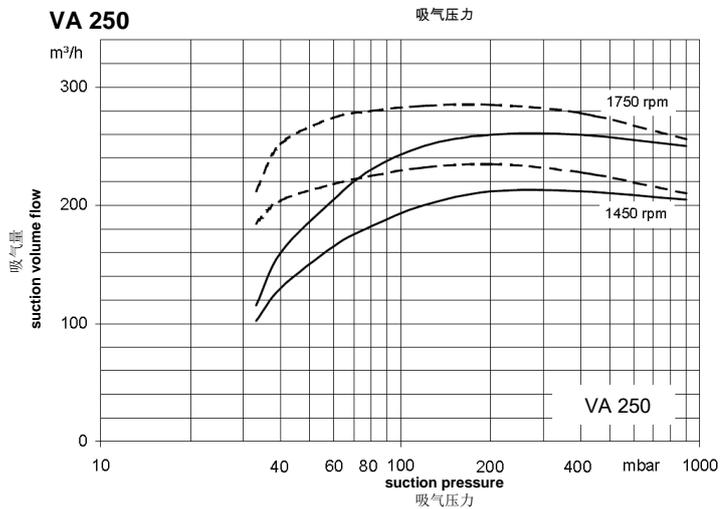
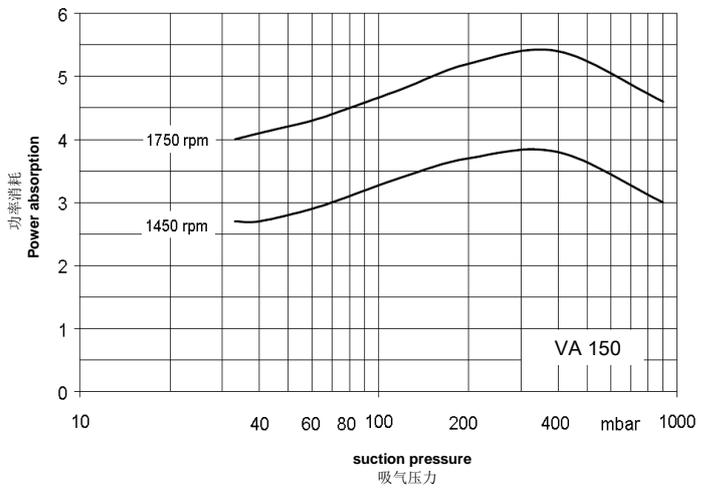
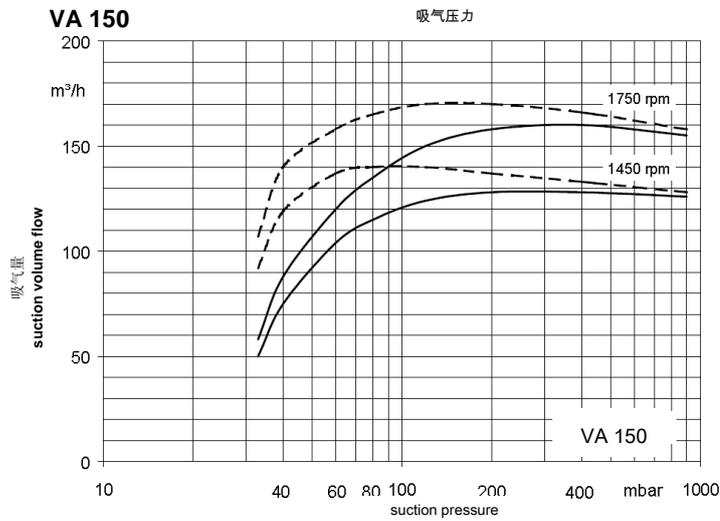
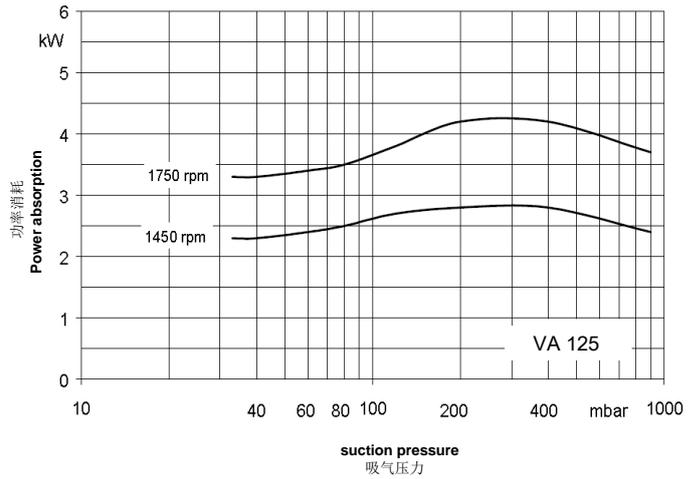
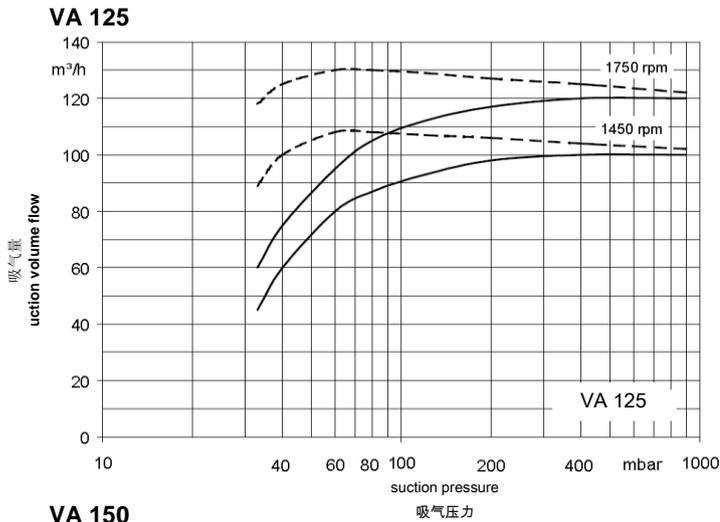
标准大气压

吸气量是入口压力下的流量

性能允许误差10%

最大新鲜水用量是最低入口压力下的流量

Performance Curves 泵的性能曲线



The operating data are applicable under the following conditions:

性能曲线基于如下工况：

pumping medium:

吸气介质

service liquid:

工作液

Compression pressure

排气压力

The suction volume flow is applied to the suction pressure

Tolerance of the operating data 10%

Max. fresh water need with lowest suction pressure

- dry air 干空气:

20°C _____

- water vapour saturated air 饱和空气:

20°C - - - - -

- water 水 :

15°C

1013 mbar (atmospheric pressure)

标准大气压

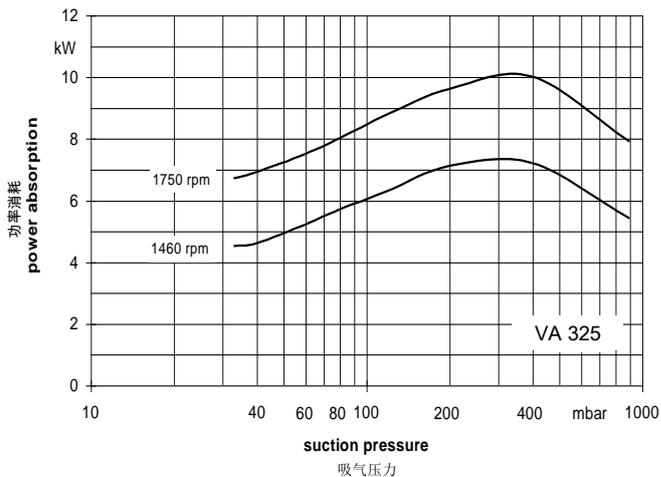
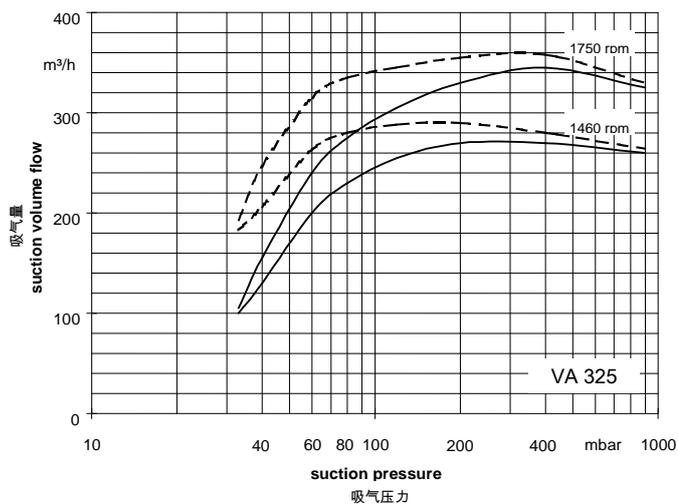
吸气量是入口压力下的流量

性能允许误差10%

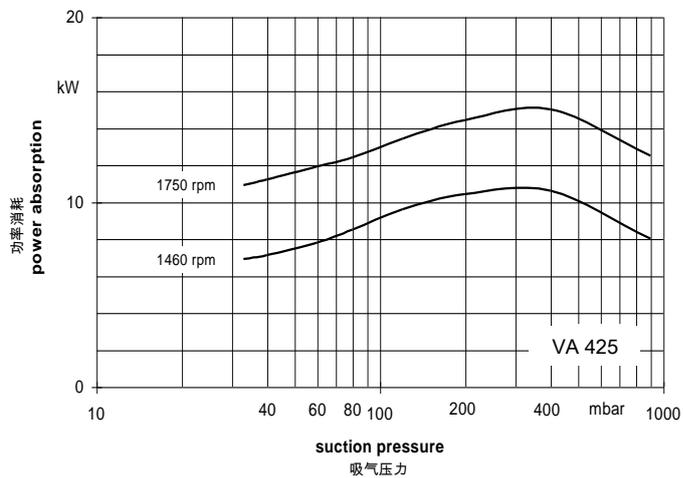
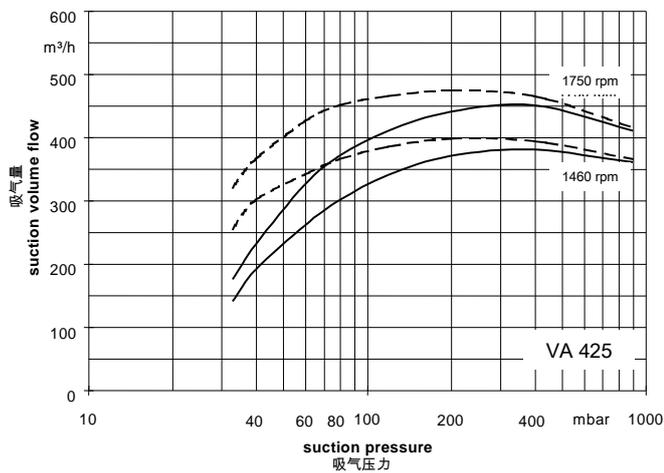
最大新鲜水用量是最低入口压力下的流量

Performance Curves 泵的性能曲线

VA 325



VA 425



The operating data are applicable under the following conditions:

性能曲线基于如下工况：

pumping medium:

吸气介质:

service liquid:

工作液:

Compression pressure

排气压力

The suction volume flow is applied to the suction pressure

Tolerance of the operating data 10%

Max. fresh water need with lowest suction pressure

- dry air 干空气

- water vapour saturated air 饱和空气

- water 水

20°C

20°C

15°C

1013 mbar (atmospheric pressure)

标准大气压

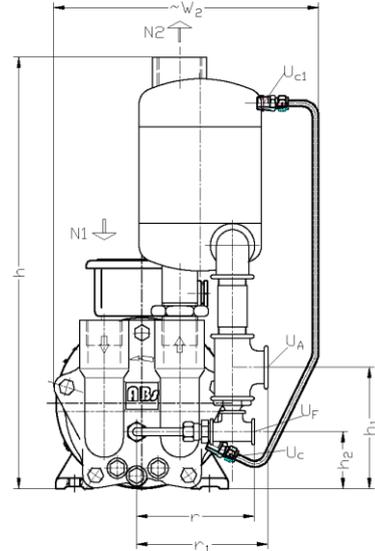
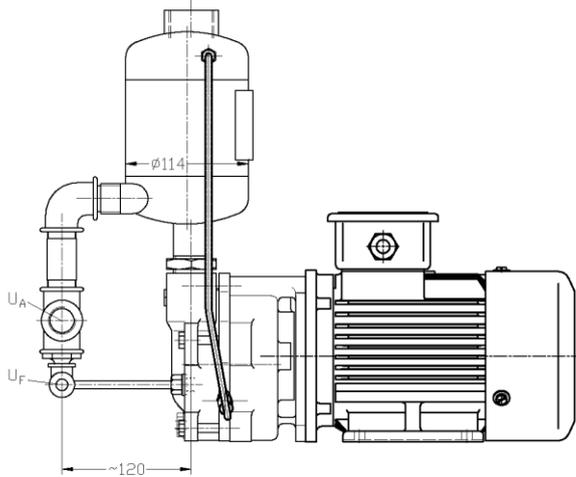
吸气量是入口压力下的流量

性能允许误差10%

最大新鲜水用量是最低入口压力下的流量

Arrangement Drawings with Accessories 带附件外形图

VA 25, VA 50



Pump 泵型号	electric motor 电机 kW IP 55, 50Hz	h	h ₁	h ₂	r	r ₁	w ₂	Approx. weight 重量约 Kg
VA 25	801	0.75	398	117	54	105	117	29
VA 50	90S	1.5	411	123	60	107	119	38

** Connection lines : see P15 list of accessories

** 连接管线见 P15 附件

N 1 = gas inlet G 1 吸气口 G1

N 2 = gas outlet G 1¼ 排气口 G1¼

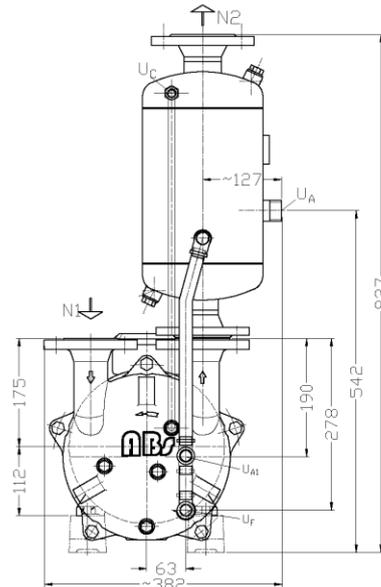
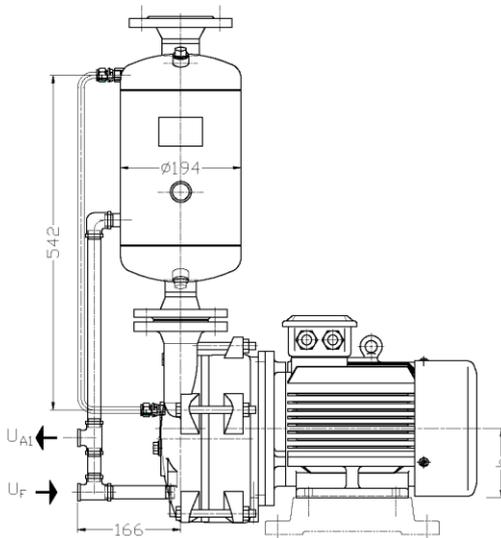
U_A = connection for dirt drain G ¾ 排污接口 G¾

U_F = connection for fresh liquid G ¼ 补充液接口 G¼

U_C = connection for protection against cavitation M5
气蚀保护管接口 M5

U_{C1} = connection for protection against cavitation G1/8
气蚀保护接口 G1/8

VA 90, VA 125, VA 150



Pump 泵	electric motor 电机 kW IP 55, 50Hz	Approx. weight 重量 Kg
VA 90	100L1	2.2
	100L2	3
VA 125	100L2	3
	112M	4
VA 150	112M	4
	112M	5

**Connection lines : see P12 list of accessories

连接管线见P15附件

N 1 = gas inlet DN40 吸气口DN40

N 2 = gas out DN50 排气口DN50

U_A = connection for dirt drain G1
排污接口 G1

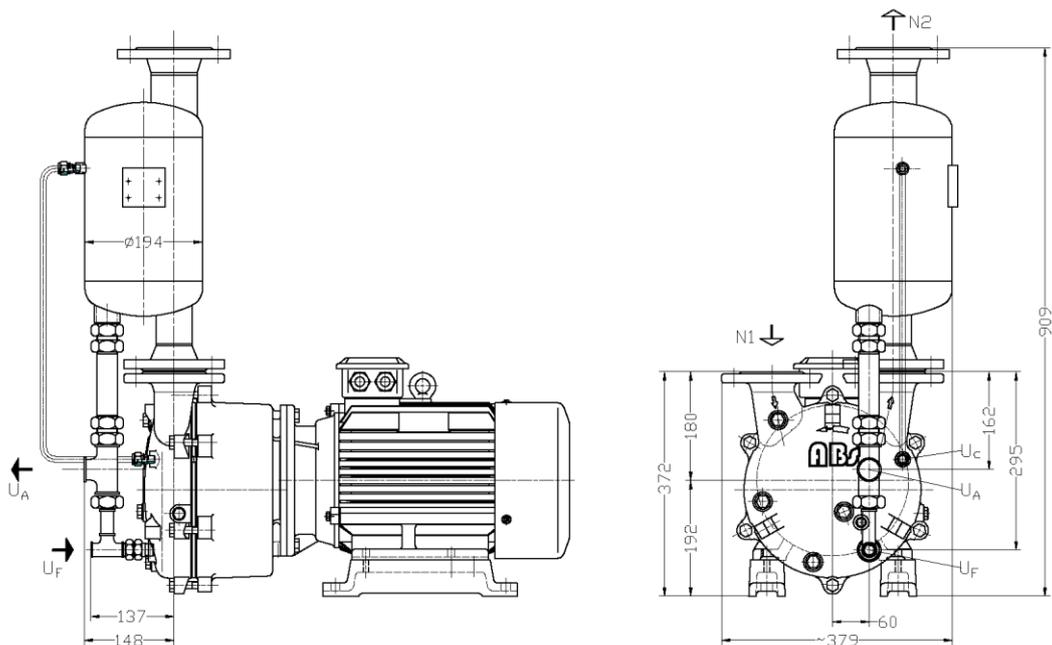
U_F = connection for fresh liquid G ½
补充液接口 G ½

U_C = connection for protection against cavitation G 1/4
气蚀保护管接口 G ¼

U_{A1} = connection for dirt drain G1
排污接口 G1

Arrangement Drawings with Accessories 带附件外形图

VA 250

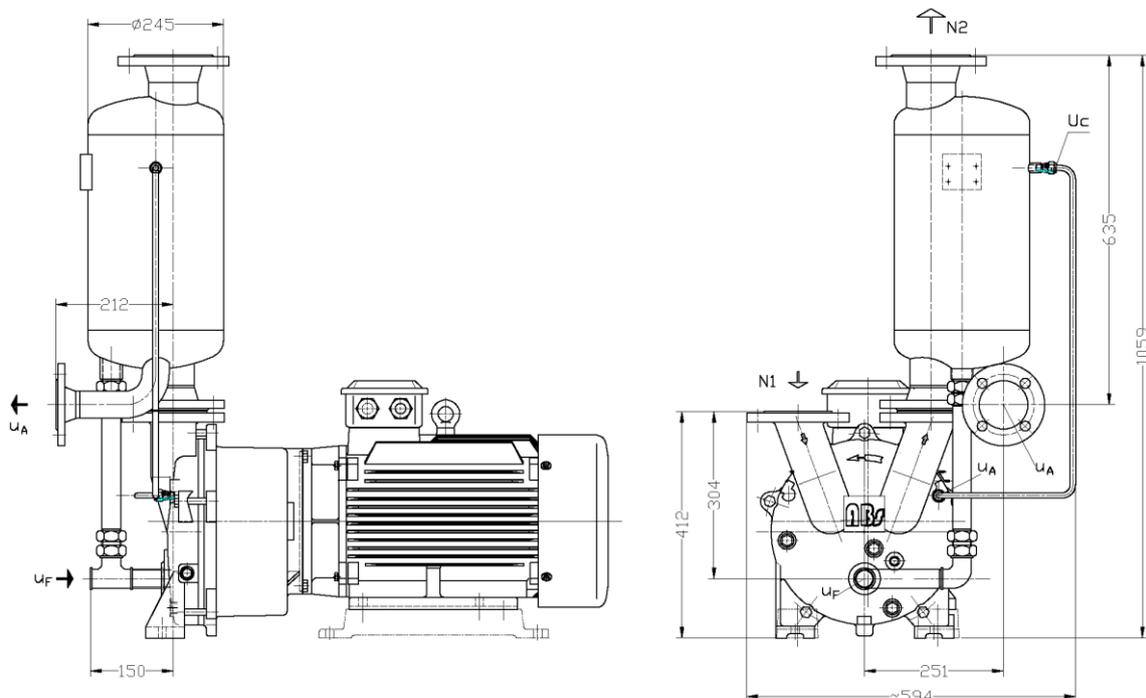


Pump 泵型号	electric motor 电机 kW IP 55, 50Hz	Approx. weight 重量约 Kg
VA 250	132S 5.5	130

**Connection lines : see P15 list of accessories
连接管线见P15附件

- N 1 = gas inlet DN 50 吸气口 DN 50
- N 2 = gas outlet DN 65 排气口 DN 65
- U_A = connection for dirt drain G1 排污接口 G 1
- U_F = connection for fresh liquid G ½ 补充液接口 G ½
- U_C = connection for protection against cavitation G ¼
气蚀保护管接口 G ¼

VA 325, VA 425

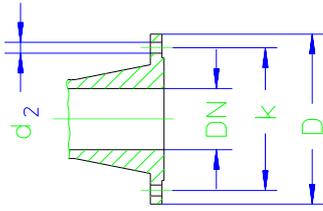


Pump 泵型号	electric motor 电机 IP 55,50 Hz	Weight 重量 ca. kg 约
VA 325	132 M 7.5Kw	168
VA 425	160 M 11.0Kw	202

**Connection lines: see P15 list of accessories
连接管线见P15附件

- N 1 = gas inlet DN 65 吸气口 DN 65
- N 2 = gas outlet DN 80 排气口 DN 80
- U_A = connection for drain DN 40 排液接口 DN 40
- U_F = connection for fresh liquid G 1 补充液接口 G 1
- U_C = connection for protection against cavitation G ¼
气蚀保护管接口

Flange Connections to DIN 2501 PN10 法兰尺寸按 DIN 2501 PN10标准



flange connections to DIN 2501 PN 10 法兰尺寸				
DN	40	50	65	80
k	110	125	145	160
D	150	165	185	200
Number 数量 x d ₂	4 x 18	4 x 18	4 x 18	8 x 18

Water flow requirements 水流量需求

入口压力 (mbar)		33					120					200					400				
Pump 泵型号	Speed 转速 [rpm]	KB			FB																
		Temperature difference 温差 [°C]				Temperature difference 温差 [°C]				Temperature difference 温差 [°C]				Temperature difference 温差 [°C]							
		10	5	2		10	5	2		10	5	2		10	5	2					
VA 25	2800	0.04	0.06	0.12	0.26	0.05	0.08	0.13	0.26	0.05	0.08	0.14	0.26	0.05	0.08	0.12	0.2				
	3500	0.05	0.09	0.15		0.06	0.10	0.16		0.07	0.11	0.16		0.06	0.10	0.14					
VA 50	2800	0.07	0.13	0.23	0.5	0.09	0.15	0.25	0.48	0.09	0.15	0.25	0.45	0.09	0.14	0.22	0.35				
	3500	0.11	0.18	0.29		0.12	0.20	0.31		0.13	0.20	0.30		0.12	0.18	0.25					
VA 90	1450	0.12	0.22	0.41	1.0	0.14	0.24	0.44	0.95	0.14	0.25	0.44	0.9	0.15	0.24	0.41	0.75				
	1750	0.18	0.30	0.52		0.19	0.32	0.53		0.20	0.33	0.53		0.19	0.31	0.47					
VA 125	1450	0.17	0.28	0.50	1.0	0.19	0.31	0.52	0.95	0.19	0.31	0.51	0.9	0.18	0.29	0.46	0.75				
	1750	0.22	0.36	0.59		0.24	0.39	0.60		0.26	0.40	0.60		0.24	0.37	0.53					
VA 150	1450	0.19	0.32	0.54	1.0	0.22	0.36	0.58	0.95	0.23	0.37	0.57	0.9	0.23	0.35	0.51	0.75				
	1750	0.26	0.41	0.63		0.29	0.44	0.65		0.30	0.45	0.64		0.29	0.41	0.57					
VA 250	1450	0.22	0.37	0.63	1.2	0.29	0.45	0.70	1.1	0.30	0.46	0.68	1.0	0.28	0.42	0.59	0.8				
	1750	0.32	0.50	0.77		0.37	0.55	0.79		0.38	0.55	0.75		0.35	0.49	0.64					
VA 325	1460	0.31	0.52	0.88	1.6	0.40	0.63	0.97	1.5	0.42	0.65	0.96	1.4	0.40	0.60	0.84	1.15				
	1750	0.42	0.67	1.03		0.50	0.75	1.07		0.52	0.76	1.05		0.49	0.69	0.91					
VA 425	1460	0.46	0.74	1.19	2.0	0.56	0.85	1.23	1.75	0.57	0.84	1.18	1.6	0.54	0.76	1.01	1.3				
	1750	0.64	0.97	1.40		0.69	0.99	1.34		0.70	0.97	1.27		0.64	0.85	1.06					

FB [m³/h] = fresh water service 新鲜工作水

KB [m³/h] = combined liquid service with service water 10 °C, 5 °C, 2 °C warmer than the fresh water.

比新鲜水温高10 °C, 5 °C, 2 °C 的混合工作液

Data regarding the pump size 关于泵规格的数据

Order notes 定单代码

Series + Size 系列+规格	Shaft Sealing 轴密封		Material Design 材料设计		Motor 电机代码
	XP	Standard Mechanical Seal 标准机械密封 gasket Perbunan 丁腈橡胶垫圈	0K	Main parts HT250 主要零件材质为铸铁 Impeller 304 叶轮为 304 不锈钢	B**: 标准电压非标轴串定制电机 Standard voltage and Frequency
	XV	gasket viton 氟橡胶垫圈			
	QV	Standard mechanical seal 标准机械密封 O-rings Viton O型圈为氟橡胶	SZ	Main parts from HT250 主要零件材质为铸铁 Impeller and guide disc from 316 叶轮和导流盘为 316 不锈钢	S**: 非标电压非标轴串定制电机 Special voltage or Frequency
	QM	Special mechanical seal 特殊机械密封 O-rings Viton encapsulated with Teflon O型圈为氟橡胶外包裹聚四氟乙烯	4B	Main parts from 316 主要零件材质为 316 不锈钢	E**: 标准电压非标轴串定制防爆电机 Standard voltage and Frequency with EX
	EV	Special mechanical seal			
	EM	合金机械密封, 非标定制			
VA	25	XP / XV	0K		B** / S** / E**
	50	XP/XV	0K, 4B,SZ		
	90				
VA	125	QV, QM, EV, EM	0K, 4B, SZ		
	150				
VA	250	QV, QM, EV, EM	0K, 4B, SZ		
	325				
	425				

Motor data 电机数据

Series+size 系列+规格	Motor enclosure 电机防护等级 IP 55 50 Hz					Motor enclosure 电机防护等级 IP 55 60 Hz			
	Y-Δ voltage Y-Δ -电压 V +/- 5%	Power 功率 kW	Size 规格	Motor-code 电机代码		Y-Δ voltage Y-Δ -电压 V +/-10%	Power 功率 kW	Size 规格	Motor-code 电机代码
				普通	防爆				
VA 25	380/220	0.75	80M1-2	B31	E31	420/220	1.1	80M2-2	S01
VA 50	380/220	1.5	90 S-2	B32	E32	420/220	2.2	90 S - 2	S02
VA 90	380/220	2.2	100 L1- 4	B33	E33	420/220	3.3	100 L2- 4	S03
		3	100 L2- 4	B34	E34		4.8	112 M -4	S04
VA 125	380/220	3	100 L2- 4	B34	E34	420/220	4.8	112 M -4	S04
		4	112 M- 4	B35	E35		6	112 M -4	S05
VA 150	660/380	4	112 M- 4	B35	E35	420/220	6	112 M -4	S05
		4.8	112 M- 4	S35					
VA 250	660/380	5.5	132 S- 4	B36	E35	420/220	8	132 S - 4	S06
VA 325	660/380	7.5	132M- 4	B37	E37	720/440	13.2	160 M - 4	S07
VA 425	660/380	11	160M- 4	B38	E38	720/440	18	160 M - 4	S08

Example for ordering 定单范例

The pump size VA 250 in cast iron with impeller in stainless steel with standard mechanical seal and 5.5kW motor has the order code: VA250-0K-QV-B36

配不锈钢叶轮，标准机械密封和5.5kW电机的VA 250铸铁泵的订单代码为：VA250-0K-QV-B36。

Accessories 附件

Recommended accessories 推荐附件		VA 25	VA 50	VA 90	VA 125	VA 150	VA 250	VA 325	VA 425
Overhead liquid separator 上置式 气液分离器	Type 型号	XBa 243		XBa 1042			XBa 940	XBa 2040	
	Material design 材质	304 / 20 steel							
	Weight 重量 (kg)	2.94		9.7			10.5	20	
Service liquid line 工作液管路	Material design 材质	304							
Cavitation protection line 气蚀保护管路	Material design 材质	304							
ABs Gas ejector 大气喷射器	Type 型号	GEV25	GEV50	GEV90	GEV125	GEV150	GEV250	GEV325	GEV425
	Service liquid temp. °C 工作液温度 °C	15 - 30 °C							
	Material design 材质	20# / 304 / 316							
	极限真空 Max. vacuum	4~12 mbar (base on 15°C liquid service water)							
Disc type non-return valve 止回阀	Type 型号	C-NRV-G1		C-NRV-40			C-NRV-50	C-NRV-65	
	Weight 重量	2.2		2.6			3.2	4.5	
	Material design 材质	Casing: 阀体		304/316; 20#					
		valve disc: 阀板		304/316;					
		sealing disc: 密封板		Teflon. PTFE					

Any changes in the interest of the technical development are reserved.

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