

VALUE Creates Value

Approved by Fortune 500 Companies and Global Users



Welcome to VALUE

Global leader of refrigeration tools and vacuum solutions

ABOUT US

VALUE is the global leader of vacuum solutions. After 20 years of historical accumulation, the three core competencies which are continuous technological innovation capabilities, social resource integration capabilities and brand channels all over the world, have made the company keep its leadership in the global refrigeration industry.

VALUE has accumulated the industry's veteran expert teams with experienced, we are always working on innovative work unswervingly to develop the best products, which can provide personalized design and service in the shortest time to meet customer needs. We have built a global Innovation and Technology Research Institute, a huge proportion of R & D funds is invested every year, innovative development of the industry's leading products; the quality of our products reaches the world first-class level, through the CE, UL, CSA and other security certifications and ISO9001:2015 quality management system certification, and we also have built product failure analysis laboratory, thermostat and constant humidity production workshop and product prototype test center. We have introduced a lot of high precision manufacturing technology and equipment, Japanese SEIKI horizontal machining center and OKUMA vertical machining center, Germany WENZEL three coordinate measuring instrument and other modern machining and testing equipment, the full implementation of the ERP data management and lean production management system.

Through years of development, we have our owned global brand and channels. It has built "VALUE" independent brand sales channels in more than 100 countries, and has provided services for more than 10 of world top 500 enterprises.

"speed, innovation, high quality", create value for customers.

Core competitiveness

Speed • Innovation • High quality



Wenling production base

Global institute of innovation technology of VALUE in Hangzhou

HIGH RELIABILITY

It's not just about the promise, It's about the system engineering



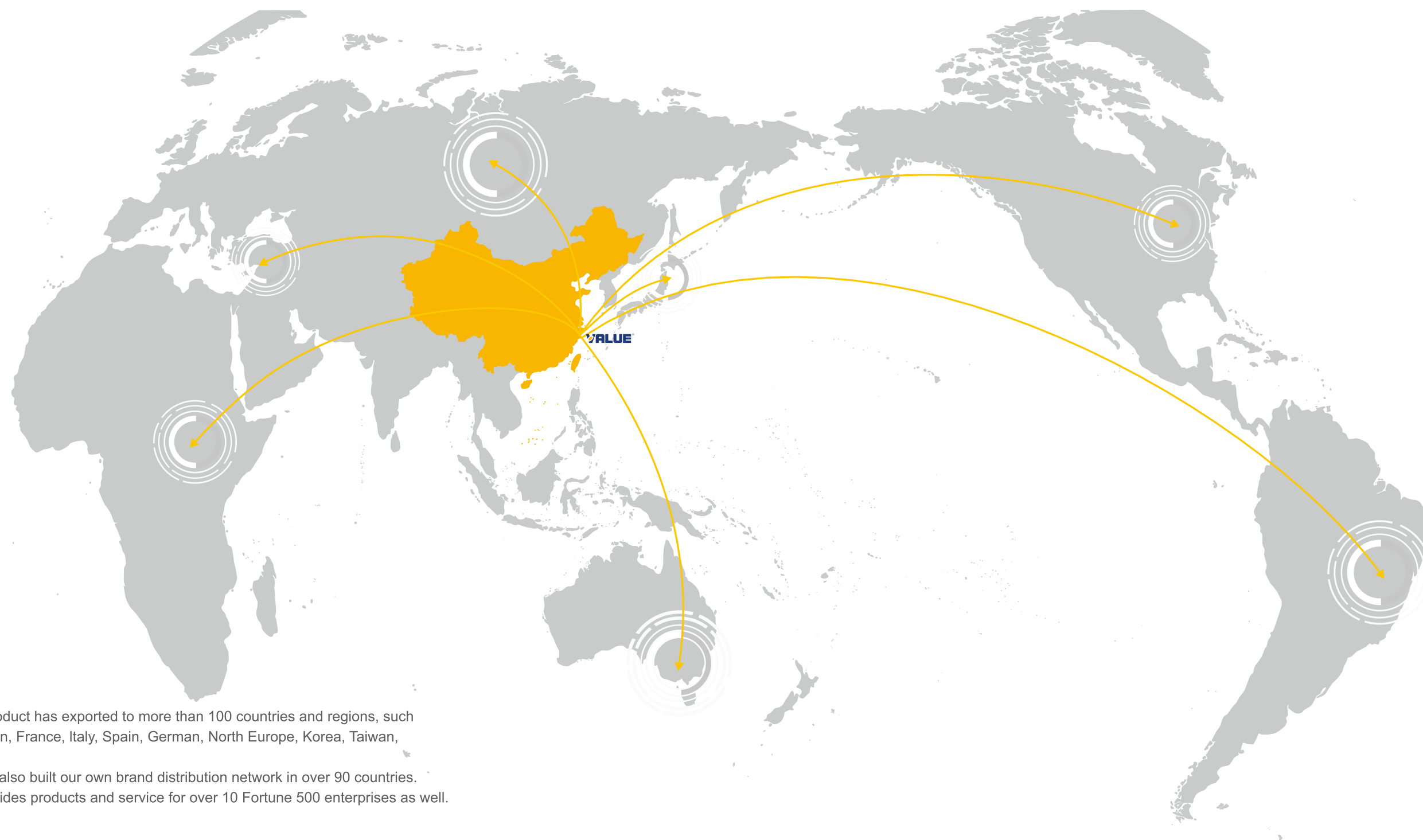
High Quality Manufacturing

VALUE is fully equipped with modernized processing and testing instruments, such as Japanese DMG Mori Seiki horizontal machining center, Japanese OKUMA- BYJC vertical machining center, German WENZEL three coordinates measuring equipment, etc. We carry out ERP data management and lean production management system.

Precision Measure Industry Benchmark

Our products are qualified with world's most advanced quality level. We have European CE, American UL, Canada CSA safety certificates and German TUV ISO9001 certificate. And we also own product failure analysis lab, the constant temperature and humid workshop, new product trial center.

GLOBAL BRAND CHANNELS



VALUE's product has exported to more than 100 countries and regions, such as US, Japan, France, Italy, Spain, German, North Europe, Korea, Taiwan, Brazil, etc.
 VALUE has also built our own brand distribution network in over 90 countries.
 VALUE provides products and service for over 10 Fortune 500 enterprises as well.

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rotary vane vacuum pump

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rotary vane vacuum pump

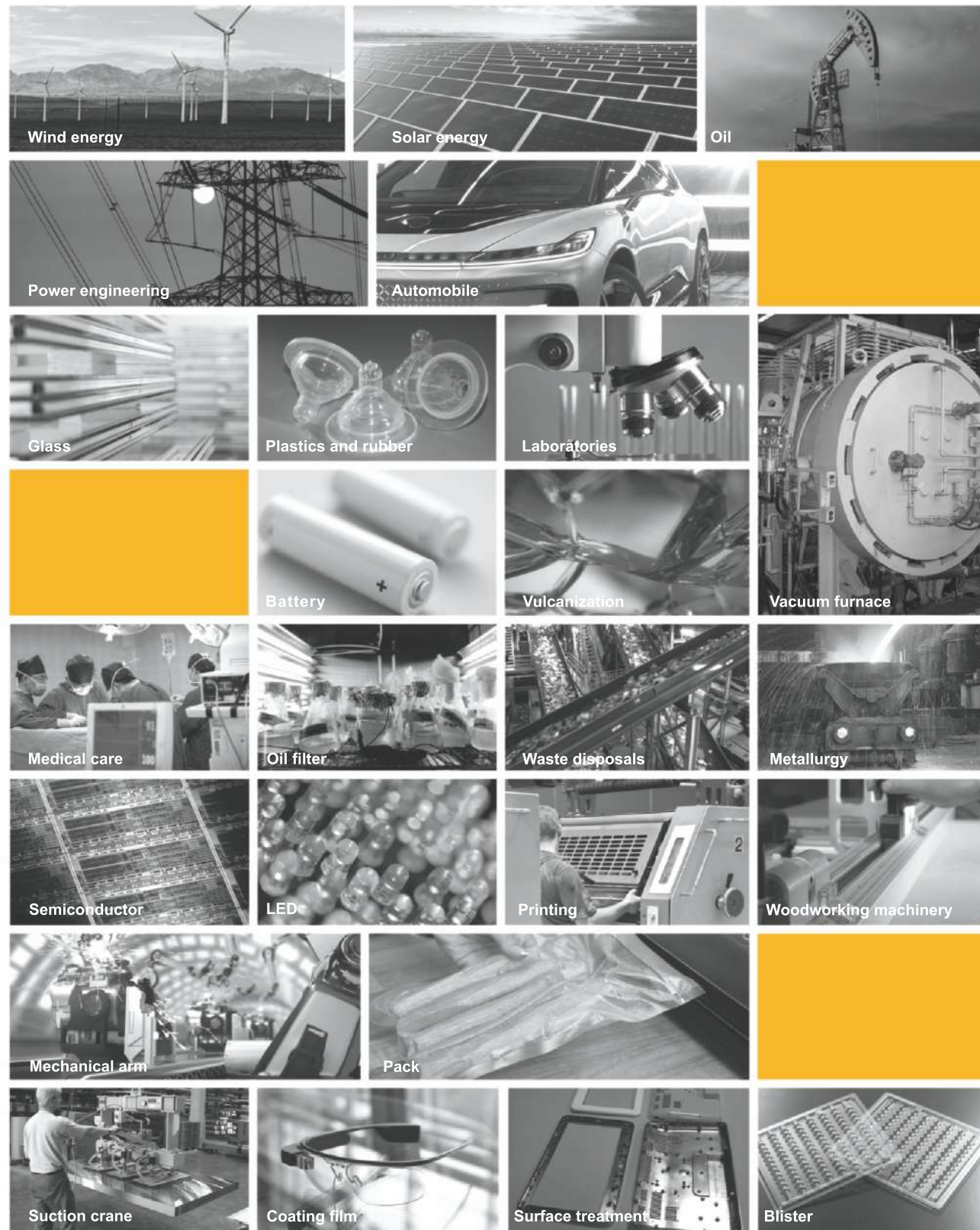
VRI-2/4/8



25 | Original Accessory



Meet the Needs of Different Industries

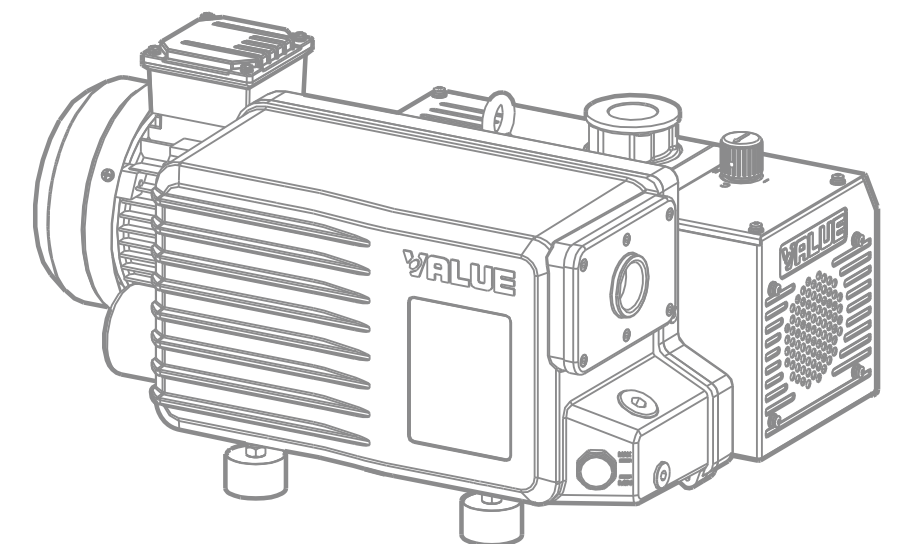


VACUUM PUMP

VSV

Single-stage Rotary Vane Vacuum Pump

Vacuum technology plays a crucial role in industrial field, and we have been exploring the application of vacuum pump in different industries. Understand what the customer concerns most: used to removing certain amount of condensable gas, no oil exhaust, no oil leakage, no emulsification of pump oil, high reliability...



VSV-20

Pumping speed: 20m³/h
Single-stage
rotary vane vacuum pump



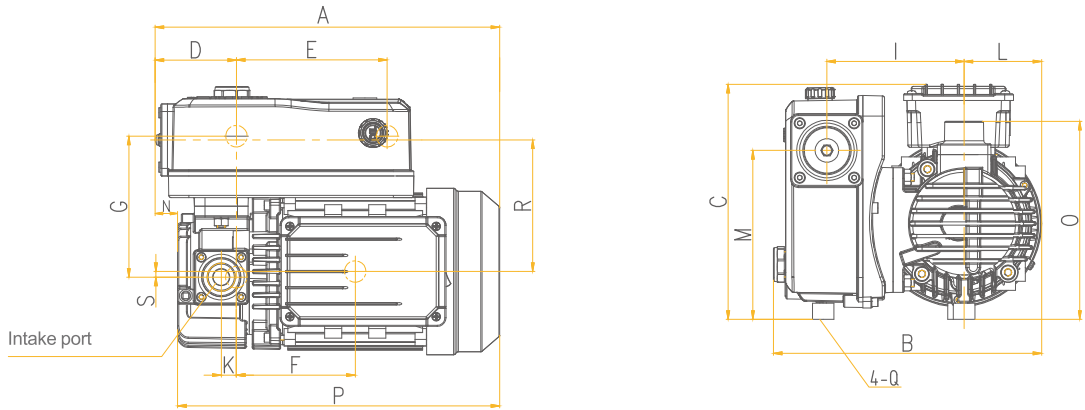
Product feature

- Excellent performance**
Integral pump structure, require higher accuracy;
Proven vanes technology,
makes the performance more stable;
Ensure the pump system with higher reliability.
- Excellent heat dissipation**
Air-cooled structure, without external water
cooling system, reduce the installation and
mainantence costs.
- Clean and green**
Built-in high quality oil mist filter, which can
effectively filter oil mist, avoid oil mist pollution,
protect the environment clean.
- FKM seals**
Improve corrosion resistance and solve the
problem of oil leakage.
- Anti-suckback structure**
Protect the vacuum system from oil
contamination after shutdown.
- Compact structure**
Integrated design between pump and motor,
lighter, smaller, the size is satisfied all kinds of
application.



Specifications

Model		VSV-20	
Displacement speed	50Hz	m ³ /h	20
	60Hz		24
Ultimate total pressure	Without gas ballast	mbar	/
Ultimate total pressure	With gas ballast I	mbar	≤1
	With gas ballast II	mbar	/
Water vapor tolerance	With gas ballast I	mbar	15
	With gas ballast II	mbar	/
Power supply		Single/Three-Ph	
Power rating (50Hz)		kW	0.75/0.9
Level of protection		IP54	
Intake and exhaust		G1/2" G3/4"/-	
Oil capacity		L	0.45
Motor speed (50/60Hz)		rpm	2880/3440
Ambient temperature		°C	10-40
Noise level (50Hz)		dB	≤65
Weight		Kg	19.5
Dimension (L*W*H)		mm	317×249×219



VSV Dimensions (unit:mm)																					
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	Intake port	Exhaust port
VSV-20	318	249	219	75.5	140	110.5	131	/	127.5	/	14	72	157	21	184	299	M8	122.3	5.3	G1/2" G3/4"	/

VSV-22/28/40/65/100
160/200/300

Pumping speed: 22-300m³/h
Single-stage
rotary vane vacuum pump



Product feature

- Excellent performance**
Integral pump structure, require higher accuracy;
Proven vanes technology,
makes the performance more stable;
Ensure the pump system with higher reliability.
- Excellent heat dissipation**
Air-cooled structure, without external water
cooling system, reduce the installation and
mainantence costs.
- Clean and green**
Built-in high quality oil mist filter, effectively
filter oil mist, avoid oil mist pollution,
protect the environment clean.
- Two-shift adjustable gas ballast valve**
Satisfies the different requirements of vacuum
degrees and the handling of water vapor.
- FKM seals**
Improve corrosion resistance and solve the
problem of oil leakage.
- Anti-suckback structure**
Protect the vacuum system from oil
contamination after shutdown.
- Compact structure**
Integrated mortor design, lighter, smaller,
the size is satisfied all kinds of application.



Anti-suckback
valve



Built-in oil
mist filter



Gas ballast
valve



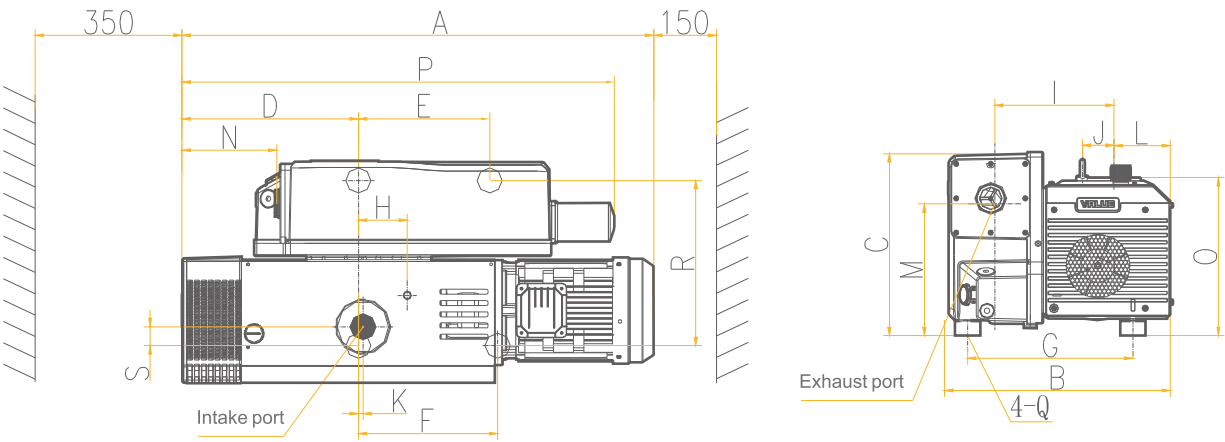
Oil seal

Specifications

Model			VSV-22	VSV-28	VSV-40	VSV-65
Displacement speed	50Hz	m ³ /h	22	28	40	55
	60Hz		26	33	48	65
Ultimate pressure	Without gas ballast	mbar	≤0.3	≤0.3	≤0.3	≤0.3
Ultimate total pressure	With gas ballast I	mbar	≤0.8	≤0.8	≤0.8	≤0.5
	With gas ballast II	mbar	≤2.5	≤2.5	≤2	≤2
Water vapor tolerance	With gas ballast I	mbar	15	15	15	15
	With gas ballast II	mbar	30	30	30	30
Power supply			Single/Three-Ph	Single/Three-Ph	Three-Ph	Three-Ph
Power rating (50Hz)		kW	1.1	1.1	1.3	1.5
Level of protection			IP54	IP54	IP54	IP54
Intake and exhaust			G3/4"	G3/4"	G1 1/4"	G1 1/4"
Oil capacity		L	1	1	2.5	2.5
Motor speed (50/60Hz)		rpm	1440/1720	1440/1720	1440/1720	1440/1720
Ambient temperature		°C	10-40	10-40	10-40	10-40
Noise level (50Hz)		dB	≤61	≤61	≤63	≤65
Weight		Kg	30	30	39.2	42.5
Dimension (L*W*H)		mm	496×268×248	496×268×248	555×304×268	555×311×268

Model			VSV-100	VSV-160	VSV-200	VSV-300
Displacement speed	50Hz	m ³ /h	100	160	200	245
	60Hz		120	190	240	300
Ultimate pressure	Without gas ballast	mbar	≤0.3	≤8×10 ⁻²	≤8×10 ⁻²	≤8×10 ⁻²
Ultimate total pressure	With gas ballast I	mbar	≤0.8	≤0.5	≤0.5	≤0.5
	With gas ballast II	mbar	≤3	≤1.5	≤1.5	≤1.5
Water vapor tolerance	With gas ballast I	mbar	15	30	30	30
	With gas ballast II	mbar	30	50	50	50
Power supply			Three-Ph	Three-Ph	Three-Ph	Three-Ph
Power rating (50Hz)		kW	3.0/3.6	5.5/6.6	5.5/6.6	7.5/9
Level of protection			IP54	IP54	IP54	IP54
Intake and exhaust			G1 1/4"	G2"	G2"	G2"
Oil capacity		L	2.5	6.5	6.5	8
Motor speed (50/60Hz)		rpm	1440/1720	1440/1720	1440/1720	1440/1720
Ambient temperature		°C	10-40	10-40	10-40	10-40
Noise level (50Hz)		dB	≤65	≤74	≤74	≤77
Weight		Kg	72	132	164	215
Dimension (L*W*H)		mm	703×406×286	940×533×412	940×533×412	1035×540×434

Dimension



VSV Dimensions (unit:mm)																					
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	Intake port	Exhaust port
VSV-22/28	496	268	248	112	220	300	190	108	146	25	20	80	182	27	204	392	M6	194	35	G3/4"	G3/4"
VSV-40	555	304	268	149	215	200	235	58	179	51	5	72	203	33	252	464	M8	235	33	G1"1/4	G1"1/4
VSV-65	555	311	268	149	215	200	254	58	189	51	5	72	203	33	252	464	M8	242	33	G1"1/4	G1"1/4
VSV-100	703	406	286	165	225	225	320	131	226	42	27	91	220	61	280	578	M10	258	41	G1"1/4	G1"1/4
VSV-160/200	940	533	412	263	252	305	394	113	298	66	32	135	305	134	382	918	M10	394	45	G2"	G2"
VSV-300	1035	540	434	326	313	332	394	159	284	75	11	135	314	132	377	966	M10	394	45	G2"	G2"



Vacuum pump maintenance

- A

Ensure motor running in correct direction
- Cleaning and maintenance

B

Air intake filter

Once a week

C

Air ballast valve filter

Once a month

D

Fan cover

6 months

E

Air intake mesh

6 months
- F

Oil filter

Change the oil every 500h to 2000h.
- G

Vacuum pump oil

Change the oil every 500h to 2000h.
If the oil become emulsified or carbonized, oil must be changed.

Steps of changing oil

1. Oil change after the vacuum pump runs to the hot status.

2. Unscrew the oil discharge valve, and close the oil discharge valve when the oil flow stops.

3. Restart the vacuum pump, run for a few seconds, then stop running and repeat step 2.

4. Replace the oil.

5. Power on after filling new oil.

6. If the pump oil is too dirty, it needs to clean the vacuum pump, the simple way is as follows:
Close the air inlet port, filling new oil and run for 1 hour. Then repeat steps 1-5.

* For detailed steps, please refer to <installation instructions> or contact us.

H

Oil glass daily check

I

Oil mist filter

Replace the oil mist filter every 6-12 months or smoke occurs.
-
- Special Remark
- When the vacuum pump is working, in case of sudden abnormal sound, temperature rise, abnormal current, etc., please stop immediately for inspection and call VALUE for consultation.

If you have any assistance to our products, please feel free to contact us, we will do our best to provide you with a full range of professional services.
- 07 | VALUE Creates Value
- VALUE Creates Value | 08

Meet All Your Needs



Refrigeration industry:

Automatic pumping line of refrigerator, air-condition water dispenser; refrigerant charging machine; helium leak detector; helium recovery system etc.



Medical industry:

Plasma sterilizers, vacuum freeze drying, vacuum mixing etc. Considering there is a large amount of H₂O, gas and water vapor which will be exhausted into vacuum pump, value designed weak corrosion-resistant vacuum pump VRD-M series.



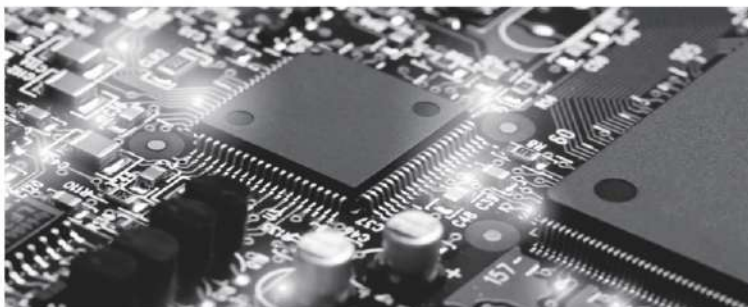
Analytical instruments:

Spectrometer, scanning electron microscope, leak detector, physics & chemistry analytical instrument etc.



Power industry:

Sf₆ gas recovery, detecting instrument, oil filter etc.



Electronics, semi-conductor industry:

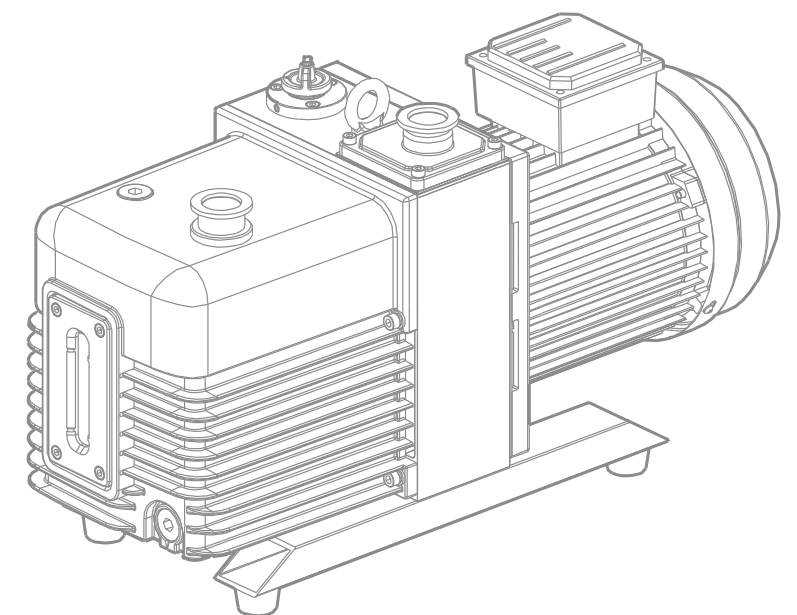
Vacuum oven, glove box, sapphire furnace, polycrystalline furnace, single crystal furnace, vacuum annealing, hardening furnace, vacuum sintering furnace, heat treatment furnace, evaporation coating, ion plating, sputtering equipment, LC injection, plasma cleaning, roughing pump for roots pump, molecular pump, diffusion pump.

VACUUM PUMP

VRD

Dual-stage Rotary Vane Vacuum Pump

Constantly pursuing on highest technology norms, VALUE's VRD series vacuum pump reached new highest level: integrated pump body structure and innovative oil circulation system lead to super stability. auto anti-sucking back valve and two shifts gas ballast makes best reliability. Perfect combination of technology and aesthetics helps to become classic.



VRD-4/8/16/24/30
48/65/90

Pumping speed: 4-90m³/h
Dual-stage
rotary vane vacuum pump



Product Feature

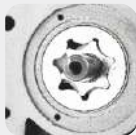
- Excellent performance**
Integral pump structure, require higher accuracy;
Proven vanes technology,
makes the performance more stable;
Ensure the pump system with higher reliability.
- Excellent heat dissipation**
Air-cooled structure, without external water
cooling system, reduce the installation and
maintanence costs.
- Forced lubrication**
Built-in gear pump and constant pressure oil
supply mechanism forced oil supply,
ensure the stable and reliable operation under
high suction pressure.
- Two-shift adjustable gas ballast valve**
Meet customer's vacuum requirement and
steam handling capacity.
- FKM seals**
Improve corrosion resistance and solve the
problem of oil leakage.
- Double anti-suck back structure**
Automaticly prevent oil suck back, and more
reliably protects your vacuum system from oil
contamination after vacuum pump shutdown.
- High quality oil mist filter (for option)**
Effectively filter oil mist, protect the environment
clean.



Gas ballast



Auto anti-suckback valve



Gear pump



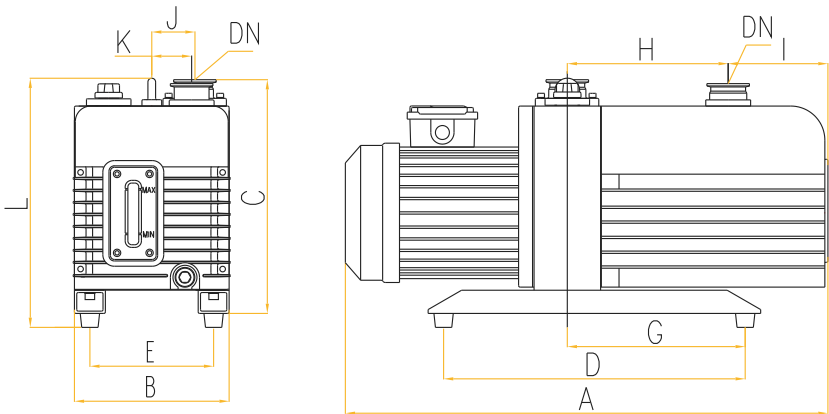
Integrated pump
body structure

Specifications

Model			VRD-4	VRD-8	VRD-16	VRD-24
Displacement speed	50Hz	m ³ /h (L/s)	4(1.1)	8(2.2)	16(4.4)	24(6.6)
	60Hz		4.8(1.3)	9.6(2.6)	19.2(5.2)	28.8(7.9)
Ultimate partial pressure gas ballast close		Pa	5×10 ⁻²	5×10 ⁻²	4×10 ⁻²	4×10 ⁻²
Ultimate total pressure gas ballast close		Pa	5×10 ⁻¹	5×10 ⁻¹	4×10 ⁻¹	4×10 ⁻¹
Ultimate total pressure gas ballast open		Pa	10	10	8×10 ⁻¹	8×10 ⁻¹
Power supply			Single/Three-Ph	Single/Three-Ph	Single/Three-Ph	Single/Three-Ph
Power rating(50/60Hz)		kW	0.4/0.37	0.4/0.37	0.75/0.55	1.1/0.75
Level of protection			IP44	IP44	IP44	IP44
Intake and exhaust			KF16/25	KF16/25	KF25	KF25/40
Oil capacity		L	0.6~1.0	0.6~1.0	0.9~1.5	1.3~2.0
Motor speed (50/60Hz)		rpm	1440/1720	1440/1720	1440/1720	1440/1720
Ambient temperature		°C	10-40	10-40	10-40	10-40
Noise level (50Hz)		dB	≤52	≤52	≤58	≤58
Weight		kg	19	21	30	35
Dimension (L*W*H)		mm	445x144x217	445x144x217	535x188x275.2	567x188x275.5

Model			VRD-30	VRD-48	VRD-65	VRD-90
Displacement speed	50Hz	m ³ /h (L/s)	30(8.3)	48(13.3)	65(18)	85(23.6)
	60Hz		36(9.9)	57.6(16)	78(21.6)	102(28.3)
Ultimate partial pressure gas ballast close		Pa	4×10 ⁻²	4×10 ⁻²	4×10 ⁻²	4×10 ⁻²
Ultimate total pressure gas ballast close		Pa	4×10 ⁻¹	4×10 ⁻¹	4×10 ⁻¹	4×10 ⁻¹
Ultimate total pressure gas ballast open		Pa	8×10 ⁻¹	1.5	1.5	1.5
Power supply			Single/Three-Ph	Three-Ph	Three-Ph	Three-Ph
Power rating		kW	1.1	1.5	2.2	3
Level of protection			IP44	IP44	IP44	IP44
Intake and exhaust			KF25/40	KF40	KF40	KF40
Oil capacity		L	1.3~2.0	3.3~4.5	3.3~4.5	3.3~4.5
Motor speed (50/60Hz)		rpm	1440/1720	1440/1720	1440/1720	1440/1720
Ambient temperature		°C	10-40	10-40	10-40	10-40
Noise level (50Hz)		dB	≤58	≤62	≤62	≤65
Weight		kg	43	62	65	65
Dimension (L*W*H)		mm	567x188x272	730x234x358	730x234x358	730x234x358

Dimension



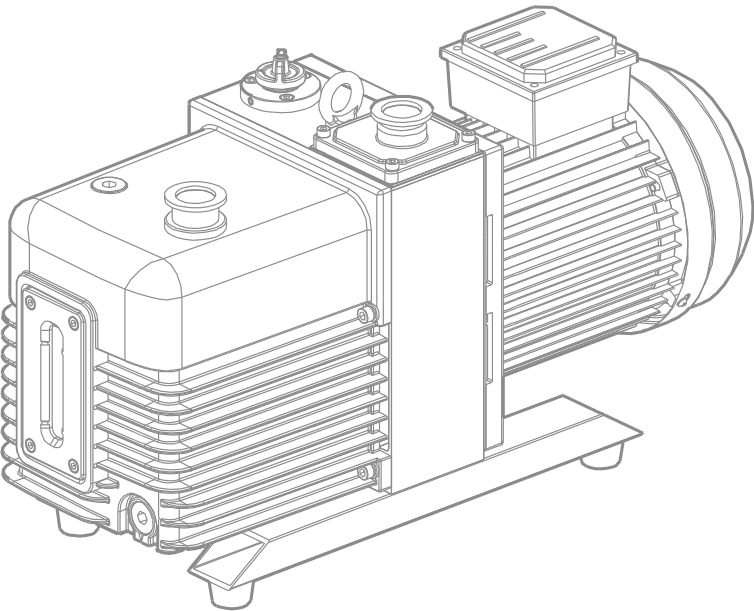
VRD Dimensions (unit:mm)												
Model	A	B	C	D	E	G	H	I	J	K	L	DN
VRD-4	445	144	217	210	110	105	143.5	45	45.5	34	/	KF16/25
VRD-8	445	144	217	210	110	105	143.5	45	45.5	34	/	KF16/25
VRD-16	535	188	275.5	320	148	160	165	69	59	38	295	KF25
VRD-24	567	188	275.5	320	148	160	185	82	59	47	295	KF25/40
VRD-30	567	188	275.5	320	148	160	185	82	59	47	295	KF25/40
VRD-48	730	234	358	396	190	200	223	157	69	55	390	KF40
VRD-65	730	234	358	396	190	200	223	157	69	55	390	KF40
VRD-90	730	234	358	396	190	200	223	157	69	55	390	KF40

VACUUM PUMP

VRD-C

Dual-stage Anti-corrosion Rotary Vane Vacuum Pump

According to the special application of corrosion resistant conditions, we carried out a special analysis and research. The gases pumped in these industries mostly contain a lot of corrosive gases and water vapor, so we use stainless steel spring, fluoroelastomer sealing ring, corrosion resistant pump body to upgrade our pump, so as to ensure the stable and reliable operation of our products in this field of application.



VRD-8C/16C/30C
48C/65C

Pumping speed:8-65m³/h

Dual-stage anti-corrosion
rotary vane vacuum pump



Product Feature

• Excellent performance

Integral pump structure, require higher accuracy;
Proven vanes technology,
makes the performance more stable;
Ensure the pump system with higher reliability.

• Anti-corrosion

Special process treatment of pump body can
reduce the corrosion and pollution of chemical
substances which pumped into the pump body.

• Excellent heat dissipation

Air-cooled structure, without external water
cooling system, reduce the installation and
maintanence costs.

• Forced lubrication

Built-in gear pump and constant pressure oil
supply mechanism forced oil supply,
ensure the stable and reliable operation
under high suction pressure.

• Two-shift adjustable gas ballast valve

Satisfies the different requirements of vacuum
degrees and the handling of water vapor.

• Double anti-suck back structure

Automaticly prevent oil suck back, and more
reliably protects your vacuum system from oil
contamination after vacuum pump shutdown.

• High quality oil mist filter (for option)

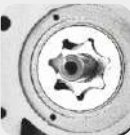
Effectively filter oil mist, protect the environment
clean.



Gas ballast



Auto anti-suckback valve



Gear pump

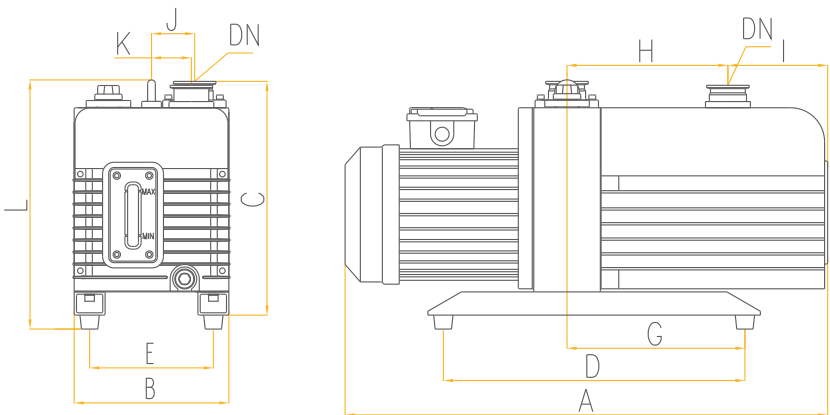


Integrated pump
body structure

Specifications

Model			VRD-8C	VRD-16C	VRD-30C	VRD-48C	VRD-65C
Displacement speed	50Hz	m ³ /h (L/s)	8(2.2)	16(4.4)	30(8.3)	48(13.3)	65(18)
	60Hz		9.6(2.6)	19.2(5.2)	36(9.9)	57.6(16)	78(21.6)
Ultimate partial pressure gas ballast close		Pa	5×10 ⁻²	4×10 ⁻²	4×10 ⁻²	4×10 ⁻²	4×10 ⁻²
Ultimate total pressure gas ballast close		Pa	5×10 ⁻¹	4×10 ⁻¹	4×10 ⁻¹	4×10 ⁻¹	4×10 ⁻¹
Ultimate total pressure gas ballast open		Pa	10	8×10 ⁻¹	8×10 ⁻¹	1.5	1.5
Power supply			Single/Three-Ph	Single/Three-Ph	Single/Three-Ph	Three-Ph	Three-Ph
Power rating		kW	0.4/0.37	0.75/0.55	1.1	1.5	2.2
Level of protection			IP44	IP44	IP44	IP44	IP44
Intake and exhaust			KF16/25	KF25	KF25/40	KF40	KF40
Oil capacity		L	0.6~1.0	0.9~1.5	1.3~2.0	3.3~4.5	3.3~4.5
Motor speed (50/60Hz)		rpm	1440/1720	1440/1720	1440/1720	1440/1720	1440/1720
Ambient temperature		°C	10-40	10-40	10-40	10-40	10-40
Noise level (50Hz)		dB	≤52	≤58	≤58	≤62	≤62
Weight		kg	21	30	43	62	65
Dimension (L*W*H)		mm	445x144x217	535x188x272	567x188x275.5	730x234x358	730x234x358

Dimension



VRD-C Dimensions (unit:mm)											
Model	A	B	C	D	E	G	H	I	J	K	DN
VRD-8C	445	144	217	210	110	102	143.5	45	45.5	34	/
VRD-16C	535	188	275.5	320	148	160	165	69	59	38	KF25
VRD-30C	567	188	275.5	320	148	160	185	82	59	47	KF25/40
VRD-48C	730	234	358	396	190	200	223	157	69	55	KF40
VRD-65C	730	234	358	396	190	200	223	157	69	55	KF40

Meet All Your Needs



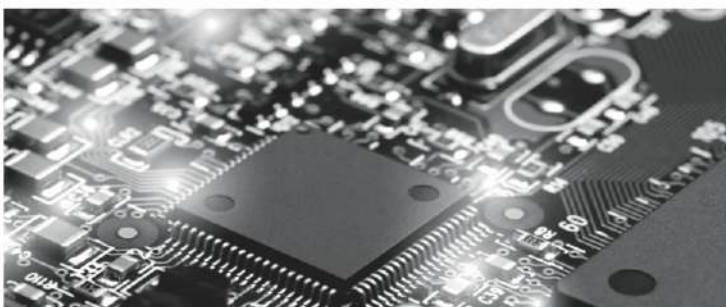
Laboratory equipment, analytical instruments, laser applied equipment.



Mini-type food packaging machine, vacuum moulding machine.



Vacuum exhaust station, auxiliary pump for scanning electron microscope.



Semiconductor manufacturing equipment, sputtering equipment, evaporation coating equipment



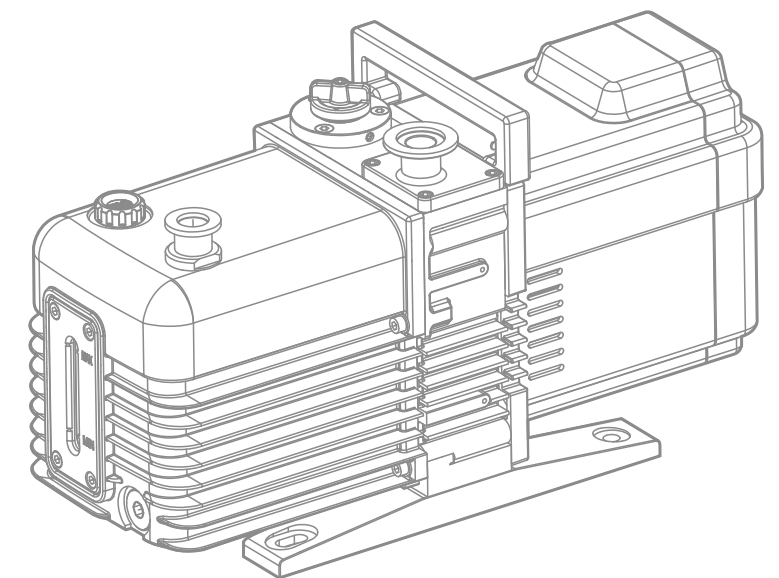
Vacuum freeze drying equipment, medical instrument.

VACUUM PUMP

VDC

Dual-stage DC Brushless Rotary Vane Vacuum Pump

VALUE continuously pursues the innovative technology and high standard of products, we has developed the new DC brushless motor -- VDC series. VDC series rotary vane pump adopts low power motor, energy saving and environment friendly. The low noise design is very suitable for the application condition with high requirements of silence, especially in the experimental instrument industry.



VDC-4/8/12

Pumping speed: 4-12m³/h
Dual-stage DC brushless rotary vane vacuum pump



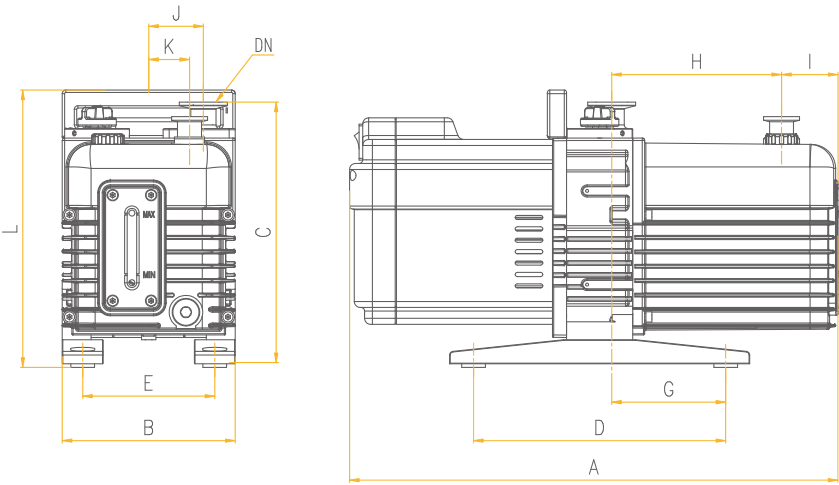
Product Feature

- Excellent performance**
Integral pump structure, require higher accuracy; Proven vanes technology, makes the performance more stable; Ensure the pump system with higher reliability.
- Brushless DC motor**
Low energy consumption, save cost; Small size, light weight, easy to install.
- Low noise**
Quiet in operation, let you work at ease.
- Forced lubrication**
Built-in gear pump and constant pressure oil supply mechanism forced oil supply, ensure the stable and reliable operation under high suction pressure.
- Gas ballast**
Meet customers' vacuum requirement and steam handling capacity.
- FKM seals**
Improve corrosion resistance and solve the problem of oil leakage.
- Double anti-suck back structure**
Automaticly prevent oil suck back, and more reliably protects your vacuum system from oil contamination after vacuum pump shutdown.
- High quality oil mist filter**
Effectively filter oil mist, protect the environment clean.
- Anti-corrosion (for option)**

Specifications

Model		VDC-4	VDC-8	VDC-12
Displacement speed	m ³ /h (L/s)	4 (1.1)	8 (2.2)	11 (3.0)
Ultimate partial pressure gas ballast close	Pa	5×10 ⁻²	5×10 ⁻²	5×10 ⁻²
Ultimate total pressure gas ballast close	Pa	5×10 ⁻¹	5×10 ⁻¹	5×10 ⁻¹
Ultimate total pressure gas ballast open	Pa	10	10	10
Power supply		Single	Single	Single
Power rating	kW	0.37	0.37	0.37
Level of protection		IP44	IP44	IP44
Intake and exhaust		KF16/25	KF16/25	KF16/25
Oil capacity	L	0.6~1.0	0.6~1.0	0.6~1.0
Motor speed (50/60Hz)	rpm	800	1500	1850
Ambient temperature	°C	5-40	5-40	5-40
Noise level	dB	≤50	≤52	≤52
Weight	Kg	14.5	15.5	15.5
Dimension (L*W*H)	mm	420x144x207	420x144x207	420x144x207

Dimension



VDC Dimensions (unit:mm)												
Model	A	B	C	D	E	G	H	I	J	K	L	DN
VDC-4	407	144	218	210	110	95	143.5	45	45.5	34	231	KF16/25
VDC-8	407	144	218	210	110	95	143.5	45	45.5	34	231	KF16/25
VDC-12	407	144	218	210	110	95	143.5	45	45.5	34	231	KF16/25

Meet All Your Needs



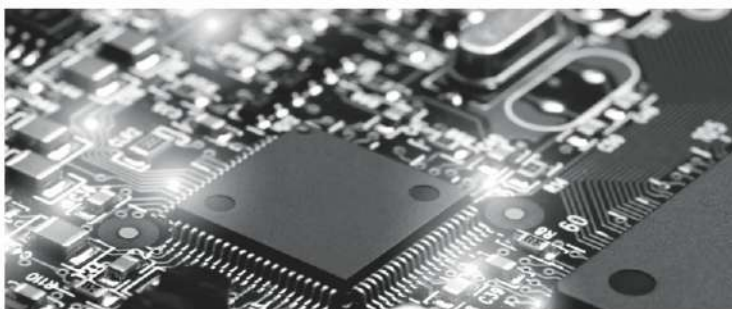
Laboratory equipment, analytical instruments, laser applied equipment.



Mini-type food packaging machine, vacuum moulding machine.



Vacuum exhaust station, auxiliary pump for scanning electron microscope.



Semiconductor manufacturing equipment, sputtering equipment, evaporation coating equipment



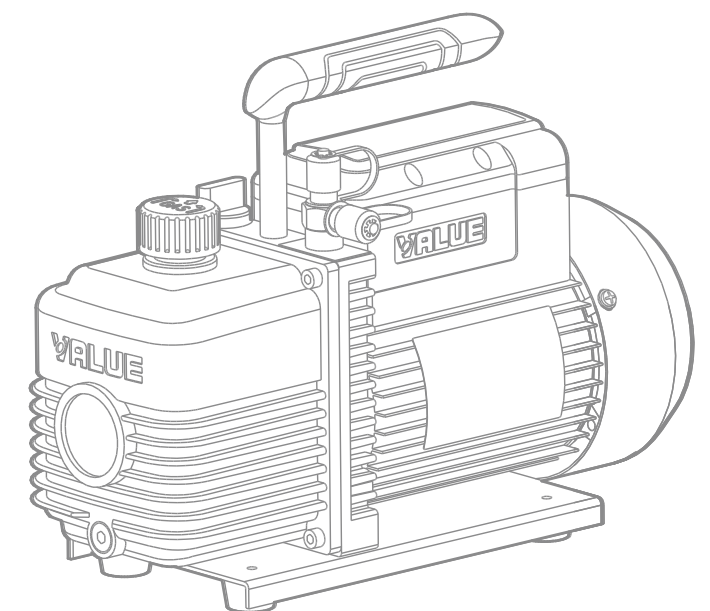
Vacuum freeze drying equipment, medical instrument.

VACUUM PUMP

VRI

Dual-stage Rotary Vane Vacuum Pump

Rotary vane technology simplified the processing of vacuum pump. Integrated pump body structure, good material and advanced precise machining guarantee the pump to continuously running with stable and high ultimate pressure. Forced oil pump lubrication system guarantees high reliability and the big sight glass design in case of oil shortage.



VRI-2/4/8

Smaller and Lighter
Dual-stage
rotary vane vacuum pump



Product Feature

- Excellent performance**
Integral pump structure, require higher accuracy;
Proven vanes technology,
makes the performance more stable;
Ensure the pump system with higher reliability.
- Forced lubrication**
Built-in gear pump and constant pressure oil
supply mechanism forced oil supply,
ensure the stable and reliable operation under
high suction pressure.
- Electric solenoid valve**
Maintain system vacuum degree after power-off,
prevent the oil suckback.
- Compact structure**
Integrated design between pump and motor,
lighter, smaller, the size is satisfied all kinds
of application.



Electric
solenoid valve



Oil pump



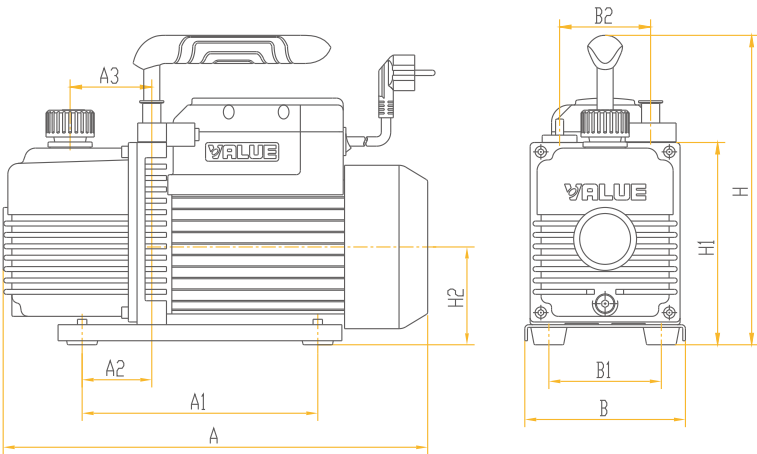
Big sight
glass design



Integrated pump
body structure

Specifications

Model			VRI-2	VRI-4	VRI-8
Displacement speed	50Hz	m ³ /h (L/s)	2.0(0.6)	4.0(1.1)	8.0(2.2)
	60Hz		2.4(0.7)	4.8(1.3)	9.6(2.7)
Ultimate partial pressure gas ballast close		Pa	1×10 ⁻¹	1×10 ⁻¹	1×10 ⁻¹
Ultimate total pressure gas ballast close		Pa	3	3	3
Ultimate total pressure gas ballast open		Pa	/	20	20
Power supply			Single	Single	Single
Power rating		kW	0.25	0.37	0.55
Level of protection			IP44	IP44	IP44
Intake and exhaust			KF16	KF16	KF16
Oil capacity		L	0.2	0.3	0.5
Motor speed	50Hz	rpm	1440	1440	1440
	60Hz		1720	1720	1720
Ambient temperature		°C	5-40	5-40	5-40
Noise level (50Hz)		dB	≤62	≤62	≤65
Weight		kg	9	11	17
Dimension (L*W*H)		mm	318x124x234	337x138x244	395x145x257



VRI Dimensions (unit:mm)										
Model	A	A1	A2	A3	B	B1	B2	H	H1	H2
VRI-2	318	144	40	61	124	84	68	234	154	76
VRI-4	337	144	40	61	138	84	74	244	166	78
VRI-8	395	174	66	85	145	99	74	257	178	86

Original Accessory



Value provide customers with full range of genuine parts including oil mist filters, vacuum pump oil, and third party components. We try our best to satisfy our customers requirements and our technical team is always ready to help for selection of correct parts. Meanwhile, our professional will help you to make best choice.



Clamp

Model: 320570201 VPS216
Applies to VRD-4/8/8C
Model: 320570101 VPS225
Applies to VRD-4/8/8C/16/16C/24/24C/30/30C
Model: 320570301 VPS240
Applies to VRD-24/24C/30/30C/48/48C/65/65C



Centering Ring

Model: 320580201 VPS316
Applies to VRD-4/8/8C
Model: 320580101 VPS325
Applies to VRD-4/8/8C/16/16C/24/24C/30/30C
Model: 320580301 VPS340
Applies to VRD-24/24C/30/30C/48/48C/65/65C



Filter

Model: 320340202 VPS416
Applies to VRD-4/8/8C
Model: 320340102 VPS425
Applies to VRD-4/8/8C/16/16C/24/24C/30/30C
Model: 320340302 VPS440
Applies to VRD-24/24C/30/30C/48/48C/65/65C
Model: 320340201 VPS425A
Applies to VRD-4/8/8C
Model: 320340301 VPS440A
Applies to VRD-24/24C/30/30C



Flange

Model: 320290310 VPS516
Applies to VRD-4/8/8C
Model: 320290110 VPS525
Applies to VRD-4/8/8C/16/16C/24/24C/30/30C
Model: 320290410 VPS540
Applies to VRD-24/24C/30/30C/48/48C/65/65C



Pump Oil

Model: 5080134 VPO-46H
Applies to VSV-20; VRD-4/8/8C
Model: 5080116 VPO-68H
Applies to VSV-20/22/28/40/65/100/160/200/300
VRD-16/16C/24/24C/30/30C
Model: 5080118 VPO-100H
Applies to VRD-48/48C/65/65C/90/90C



Plastic Vacuum Pipe

Model: 322020101 TS-25; inner diameter d:25
Model: 322050201 TS-19; inner diameter d:19
Model: 322050301 TS-15; inner diameter d:15
Model: 322050401 TS-12; inner diameter d:12



Oil Mist Filter

Model: 320750611
Applies to VSV-20
Model: 320750621
Applies to VSV-22/28
Model: 320750601
Applies to VSV-40/65/100
Model: 320750404
Applies to VSV-160/200/300



Gas Ballast Element

Model: 321240111
Applies to VSV-20/22/28/40/65
Model: 321240131
Applies to VSV-100
Model: 312000101
Applies to VSV-160/200/300



Clamp

Model: 320575001
FS-35; Applies to Φ25~Φ35
Model: 320575011
FS-30; Applies to Φ22~Φ30
Model: 320575021
FS-25; Applies to Φ18~Φ25
Model: 320575031
FS-20; Applies to Φ13~Φ20



Air Inlet Connector

Model: 320350401
cross joint



Oil Filter

Model: 320750421
Applies to VSV-040/065/100
Model: 320750501
Applies to VSV-160/200/300



O-ring

Model: 300310120 VPS116
Applies to VRD-4/8/8C
Model: 300310070 VPS125
Applies to VRD-4/8/8C/16/16C/24/24C/30/30C
Model: 300310127 VPS140
Applies to VRD-24/24C/30/30C/48/48C/65/65C



Quick Self-sealing Connector (F)

Model: 320355021
ZG1/4-19
Model: 320355001
ZG3/8-19



Joint (M)

Model: 320355031
ZG1/4
Model: 320355011
ZG3/8



Air Duct (transit joint)

Model: 322040211 ZG1/4D25
Model: 322040221 ZG1/4D19
Model: 322040231 ZG1/4D15
Model: 322040241 ZG1/4D12
Model: 322040251 ZG1/4D8
Model: 322040201 ZG3/8D25



Tube Joints

Produce the product according to the customer's request



Vacuum Gauge

Model: 322070111 Digital display
VTG-54T Measurement range:0.1~1000Pa
Single-phase 220V/ three-phase 380V KF25



Vacuum Gauge

Model: 322070211 Digital display
VRG-52 Measurement range:5x10⁻²~5x10⁰Pa
Single-phase 220V KF25



Single-stage vacuum pump air inlet filter cartridge

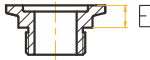
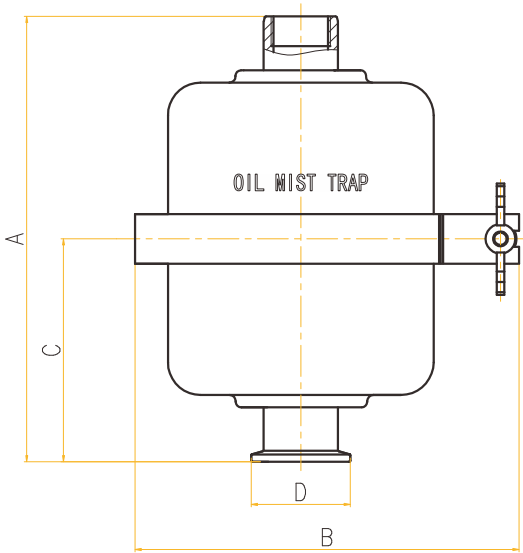
Model: 120002008
Applies to VSV-020/022/028
Model: 120002007
Applies to VSV-040/065/100
Model: 120002006
Applies to VSV-160/200/300



Dual-stage vacuum pump oil mist filter cartridge

Model: 320710201
Applies to VRD-4/8
Model: 320710101
Applies to VRD-16/24/30
Model: 320710301
Applies to VRD-48/65

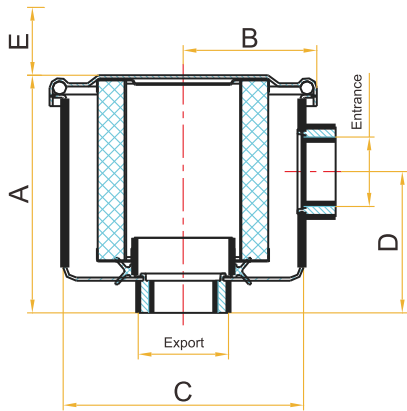
Structural Dimension Drawing



Upper housing KF adapter

Dual-stage vacuum pump oil mist filter's shape and dimension						
Model	A	B	C	D	E	Applicable model
921001101	140	110	70	KF16	9	VRD-4/8/8C
921001103	140	110	70	KF25	9	VRD-4/8/8C
921001001	180	170	90	KF25	9	VRD-16/24/30
921000302	245	153	150	KF40	15	VRD-48/65/16C/24C/30C/48C/65C

Structural Dimension Drawing



Single-stage vacuum pump air inlet filter's shape and dimension										
Model	Inlet Port outlet Port	A	B	C	D	E	Weight	Polyester	m ³ /h	Applicable models
120002005	3/4"	95	57	95	48	76	0.4 Kg	825	43	VSV-20/22/28
120002004	1 1/4"	111	83	149	67	83	1.4 Kg	843	94	VSV-40/65/100
120002003	2"	260	116	222	127	235	6.8 Kg	851	493	VSV-160/200/300

