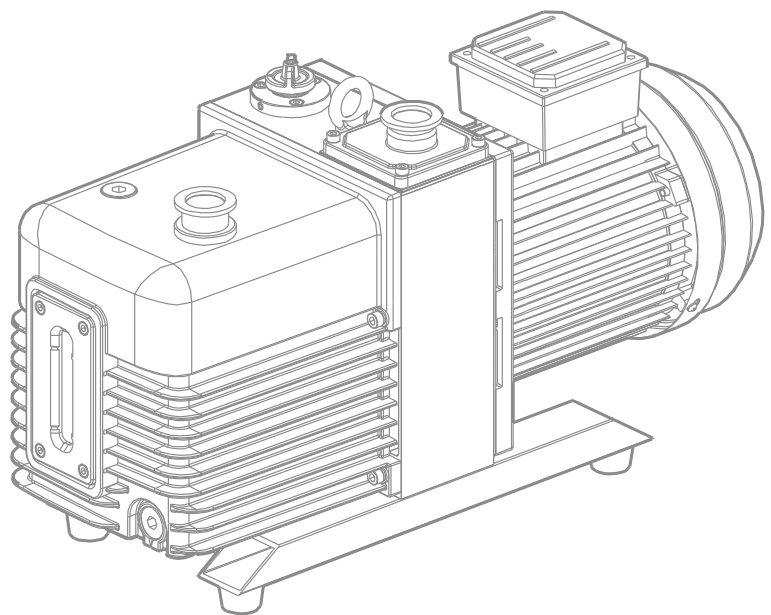


VACUUM PUMP

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.



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.

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

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



Product Feature

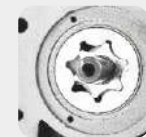
- Excellent performance**
 Integral pump structure, require higher accuracy; Proven vanes technology, makes the performance more stable; Ensure the pump system with higher reliability.
- Excellent heat dissipation**
 Air-cooled structure, without external water cooling system, reduce the installation and maintenance 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**
 Automatically 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



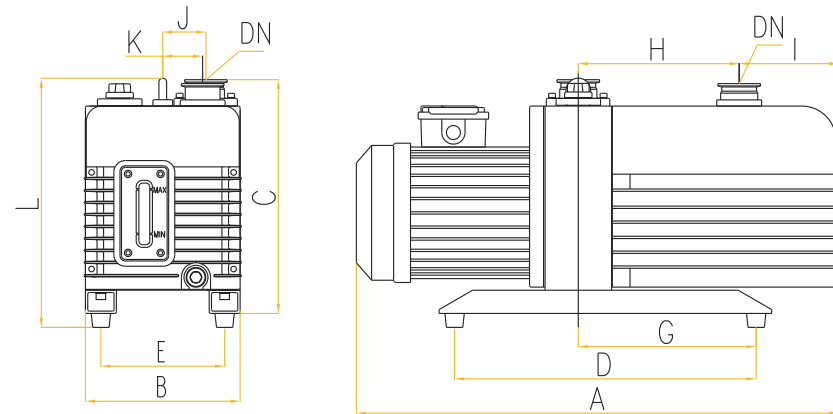
Integrated pump body structure

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



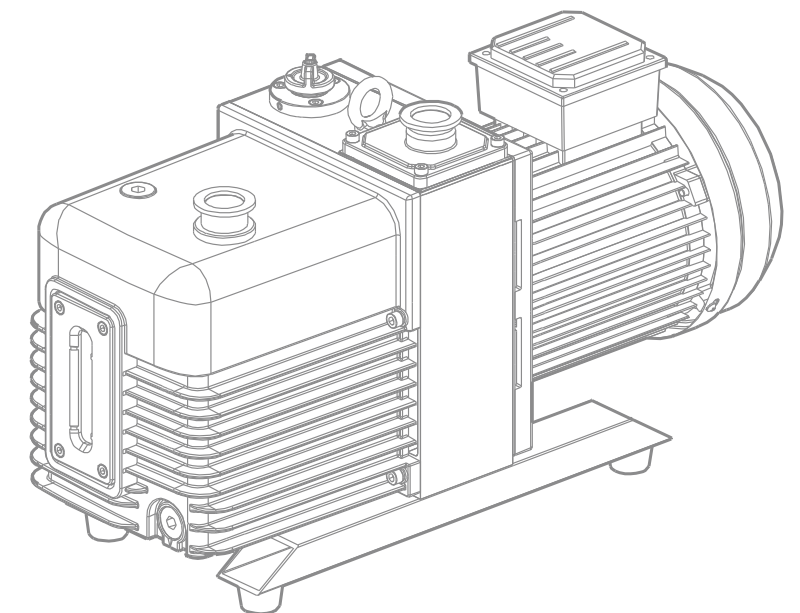
VRD Dimensions (unit:mm)												
Model	A	B	C	D	E	G	H	I	J	K	L	DN
VRD-4	445	144	217	210	110	105	143.5	45	45.5	34	/	KF16/25
VRD-8	445	144	217	210	110	105	143.5	45	45.5	34	/	KF16/25
VRD-16	535	188	275.5	320	148	160	165	69	59	38	295	KF25
VRD-24	567	188	275.5	320	148	160	185	82	59	47	295	KF25/40
VRD-30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

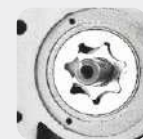
- Excellent performance**
 Integral pump structure, require higher accuracy; Proven vanes technology, makes the performance more stable; Ensure the pump system with higher reliability.
- Anti-corrosion**
 Special process treatment of pump body can reduce the corrosion and pollution of chemical substances which pumped into the pump body.
- Excellent heat dissipation**
 Air-cooled structure, without external water cooling system, reduce the installation and maintenance 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**
 Automatically 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

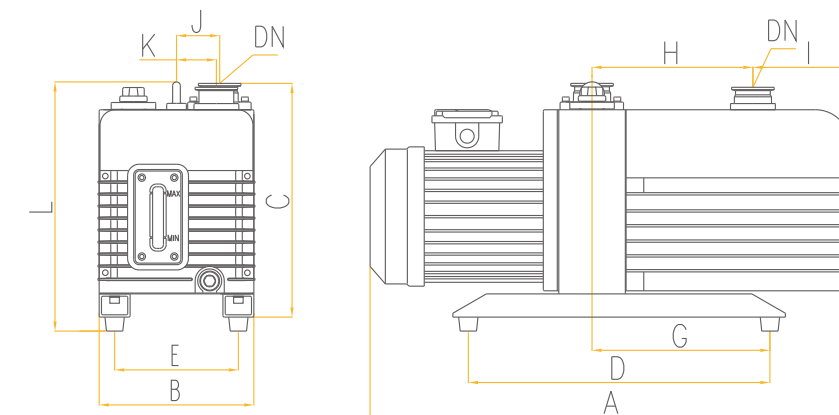


Integrated pump body structure

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	L	DN
VRD-8C	445	144	217	210	110	102	143.5	45	45.5	34	/	KF16/25
VRD-16C	535	188	275.5	320	148	160	165	69	59	38	295	KF25
VRD-30C	567	188	275.5	320	148	160	185	82	59	47	295	KF25/40
VRD-48C	730	234	358	396	190	200	223	157	69	55	390	KF40
VRD-65C	730	234	358	396	190	200	223	157	69	55	390	KF40



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