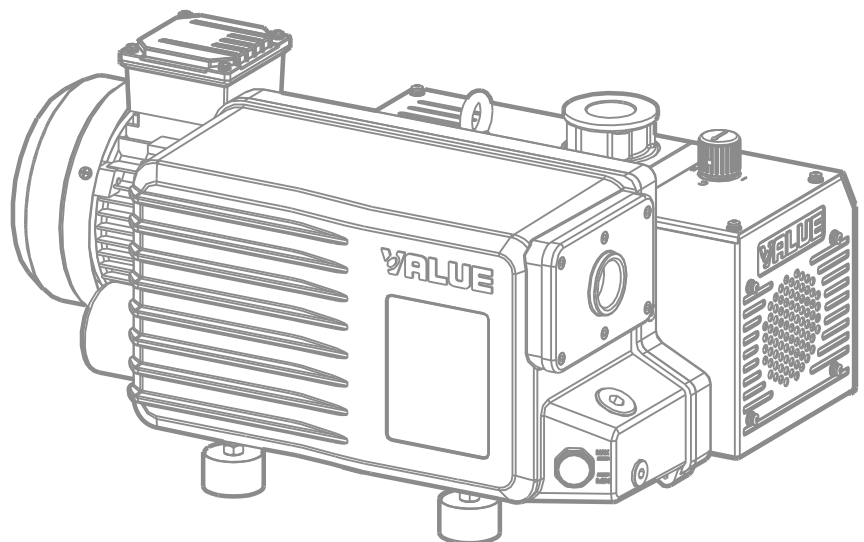


VACUUM PUMP

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...



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.

VSV-20

Pumping speed: 20m³/h

Single-stage rotary vane vacuum pump

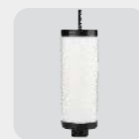


Product feature

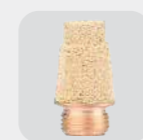
- Excellent performance**
 Integral pump structure, require higher accuracy; Proven vanes technology, makes the performance more stable; Ensure the pump system with higher reliability.
- Excellent heat dissipation**
 Air-cooled structure, without external water cooling system, reduce the installation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



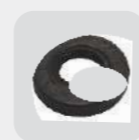
Anti-suckback valve



Built-in oil mist filter



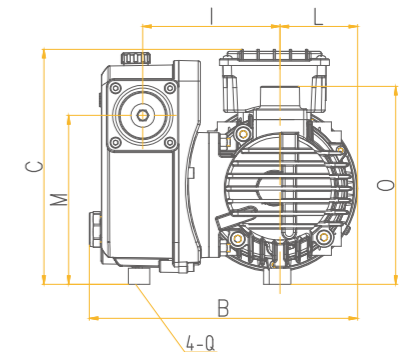
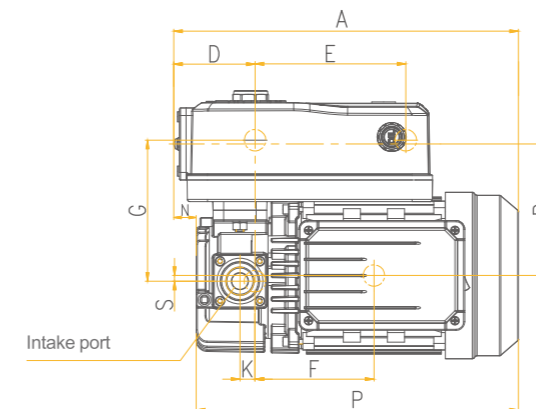
Gas ballast valve



Oil seal

Specifications

Model			VSV-20
Displacement speed	50Hz	m ³ /h	20
	60Hz		24
Ultimate total pressure	Without gas ballast	mbar	/
	With gas ballast I	mbar	≤1
Ultimate total pressure	With gas ballast II	mbar	/
	With gas ballast I	mbar	15
Water vapor tolerance	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

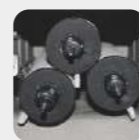


Product feature

- 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 maintenance 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 motor design, lighter, smaller, the size is satisfied all kinds of application.



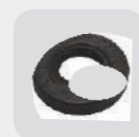
Anti-suckback valve



Built-in oil mist filter



Gas ballast valve



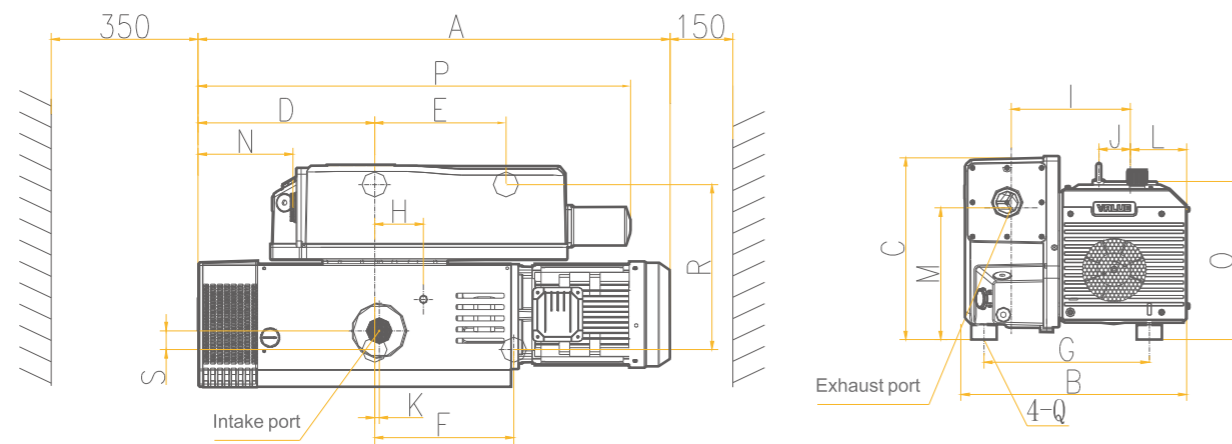
Oil seal

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"

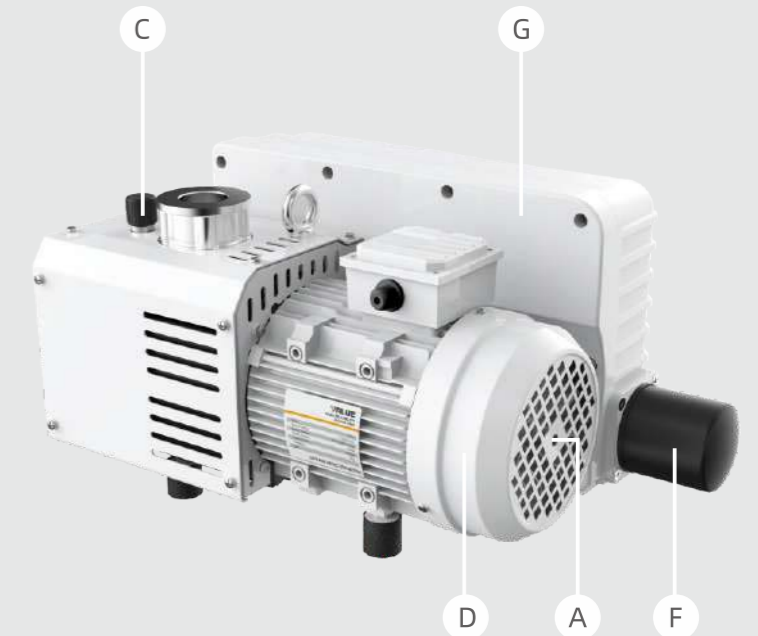


Vacuum pump maintenance

- A** Ensure motor running in correct direction
- B** Cleaning and maintenance

Air intake filter	Once a week
Air ballast valve filter	Once a month
Fan cover	6 months
Air intake mesh	6 months
- C**
- D**
- E**
- 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.



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