VL-Classic Pump

Max. vacuum level : **-80 kPa** (-23.62 inHg)

Max. flow rate : **2061 Nl/min** (72.78 scfm)

Supply air pressure : **4~6bar, max 7bar** (58~87 psi, max 101.5psi)

Supply air type : Dry compressed air

Working temperature : -20℃ ~ 80℃

Noise level : 50~65 dBA

Main Advantages

VL-Classic pumps produces the high flow rate gradually while vacuum level is increasing so it is useful for leakage system.
Vtec Air Saving kit is available in this pump in order to maximum reduce the energy usage.
VITON® & EPDM seals can be also stipulated as option.

Order No.

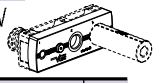
VTL25 - 1434 A - AS - A3 R3 - CL SG2 N V

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Model – Capacity equivalent to electricity motor pump size

●	**VTL25**	– 0.25KW
	VTL50	– 0.50KW
	VTL75	– 0.75KW
	VTL100	– 1.00KW
	VTL125	– 1.25KW
	VTL150	– 1.50KW
	VTL175	– 1.75KW
	VTL200	– 2.00KW

② Connection plate



	Air port	Vacuum port	
1412 A	G1/4″	G1/2″	Aluminum
● **1434 A**	G1/4″	G3/4″	
1401 A	G1/4″	G1″	
N1412 A	NPT1/4″	NPT1/2″	
N1434 A	NPT1/4″	NPT3/4″	
N1401 A	NPT1/4″	NPT 1″	
1812 P	G1/8″	G1/2″	All PPS
1834 P	G1/8″	G3/4″	
N1812 P	NPT1/8″	NPT1/2″	
N1834 P	NPT1/8″	NPT3/4″	

※ Remark :
- Air supply port with air control valve or AS-kit
- VTL25~VTL150 : G1/8″
  VTL175~VTL200 : G3/8″
  PPS Mat'l is available in VTL25L~ VTL125

③ Air saving Kit (📖 108)

	No mark	– Standard
●	**AS**	– Air saving kit attached

④ Air supply control valve

	A1	– AC 110V
	A2	– AC 220V
●	**A3**	– DC 24V
	D1*	– AC 110V
	D2*	– AC 220V
	D3*	– DC 24V

D..* : Double solenoid valve
Double solenoid valve is available only with 'DN' or 'DL', section ⑥

⑤ Vacuum release control valve

	R1	– AC110V
	R2	– AC220V
●	**R3**	– DC24V

⑥ Solenoid Terminal

	DN	– DIN type without lead wire
	DL	– DIN type with lamp without lead wire
●	**CL***	– Connector type with lamp & 0.3m lead wire
	2B*	– DIN type with '2 in 1' BUS cable (Air control v/v + Vacuum release v/v)
	3B*	– DIN type with '3 in 1' BUS cable (Air control v/v + Vacuum release v/v + Digital switch)

* Can not available with double solenoid valve
※ Remark
CL : Available only with DC24V
Can not available with VTL175, VTL200
3B : Available only with DC24V
Available only with 'S2' or 'S2P', section ⑦
☞ About 'BUS cable' (📖 340, 341)

⑦ Vacuum switch

	S2(P)	– Digital output 2points, No analog supply M8-4Pin male connector (0.3m lead wire)
●	**SG2**(P)	– Digital output 2points, No analog supply Grommet type 4-core 2m lead wire
	SG3(P)	– Digital output 2points, Analog supply Grommet type 4-core 2m lead wire

※ Remark : ① S..(P)
→ Output type : PNP open collector.
② VCM8 42 : M8-4Pin female connector. only for type S2(P)

⑧ Non-return valve

	No mark	– Standard
●	**N**	– Non-return valve

⑨ Sealing

	No mark	– Standard (NBR)
●	**V**	– Viton®
	E	– EPDM

Characteristics

Model	max. vacuum -kPa(-inHg)	Max. vacuum flow (Nl/m)	air consumption (Nl/m)	noise level (dBA)	weight (g)	min hose inner Ø (within 2m)		
						air supply	vacuum	exhaust
VTL25	80 (23.62)	379	78-105	50 - 65	643	⟩4	⟩12	⟩12
VTL50		650	156-210	50 - 65	644	⟩6	⟩15	⟩15
VTL75		820	234-315	50 - 65	760	⟩8	⟩19	⟩22
VTL100		990	312-420	50 - 65	761	⟩8	⟩19	⟩22
VTL125		1090	390-525	60 - 65	877	⟩10	⟩25	⟩32
VTL150		1303	468-630	60 - 65	878	⟩10	⟩25	⟩32
VTL175		1682	546-735	60 - 65	994	⟩10	⟩32	⟩40
VTL200		2061	624-840	60 - 65	995	⟩10	⟩32	⟩40

Vacuum flow in (Nl/m) at different Vacuum level (-kPa)

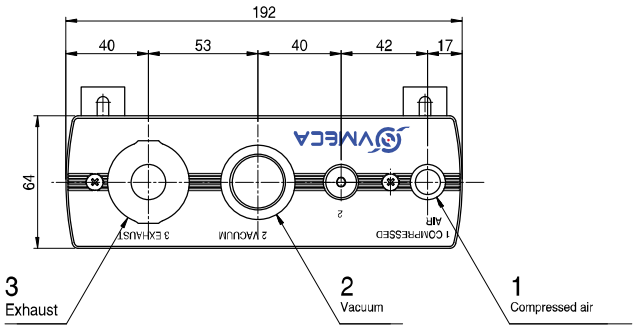
-inHg / -kPa / Model	0 0	2.95 10	5.9 20	8.85 30	11.81 40	14.76 50	17.71 60	20.67 70
VTL25	379	200	139	94	51	40	28	18
VTL50	650	374	266	176	102	77	56	36
VTL75	820	490	370	245	138	116	92	49
VTL100	990	607	473	323	197	152	109	69
VTL125	1090	750	547	390	241	192	138	87
VTL150	1303	907	614	456	282	228	162	102
VTL175	1682	1060	678	515	314	267	189	118
VTL200	2061	1217	729	574	363	294	218	134

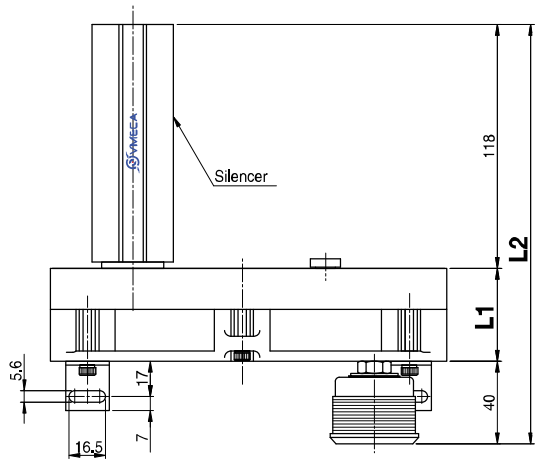
Time in seconds to evacuate to vacuum level (sec/l)

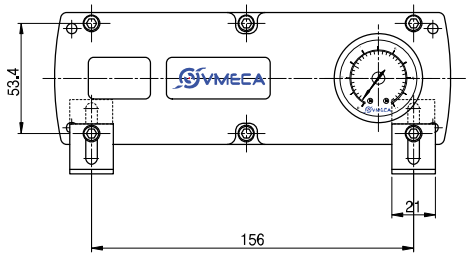
-inHg / -kPa / Model	2.95 10	5.9 20	8.85 30	11.81 40	14.76 50	17.71 60	20.67 70
VTL25	0.017	0.045	0.09	0.18	0.34	0.53	0.85
VTL50	0.012	0.027	0.05	0.1	0.18	0.27	0.43
VTL75	0.008	0.021	0.04	0.08	0.13	0.2	0.32
VTL100	0.0069	0.015	0.03	0.05	0.09	0.14	0.22
VTL125	0.0058	0.014	0.026	0.044	0.076	0.118	0.19
VTL150	0.0049	0.013	0.022	0.037	0.062	0.095	0.15
VTL175	0.0047	0.012	0.021	0.035	0.057	0.087	0.14
VTL200	0.0043	0.011	0.019	0.033	0.051	0.078	0.12

Dimensional Information

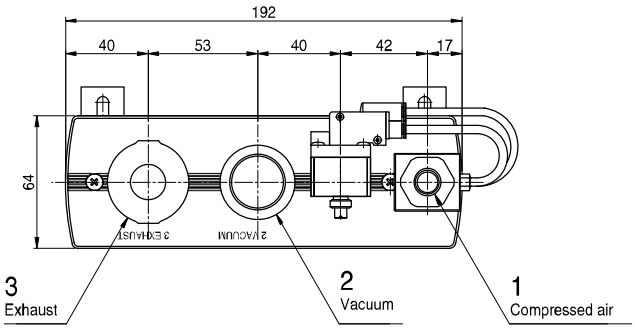
Standard

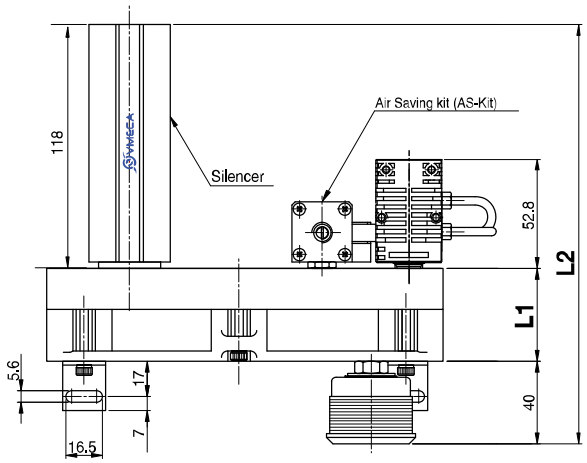


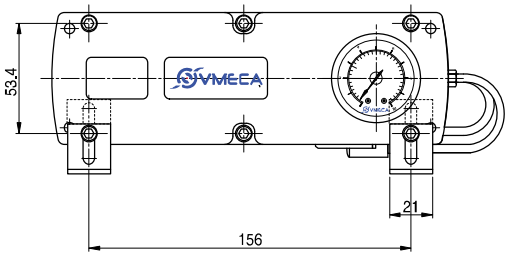




with AS - KIT







[Measure unit : mm]

(mm)

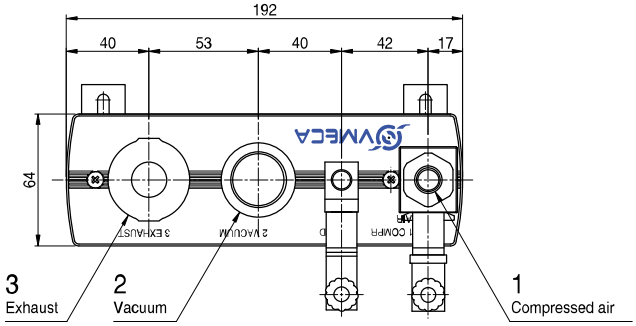
Model	L1	L2
VTL25	45.5	203.5
VTL50	45.5	203.5
VTL75	65	223
VTL100	65	223
VTL125	84.5	242.5
VTL150	84.5	242.5
VTL175	104	262
VTL200	104	262

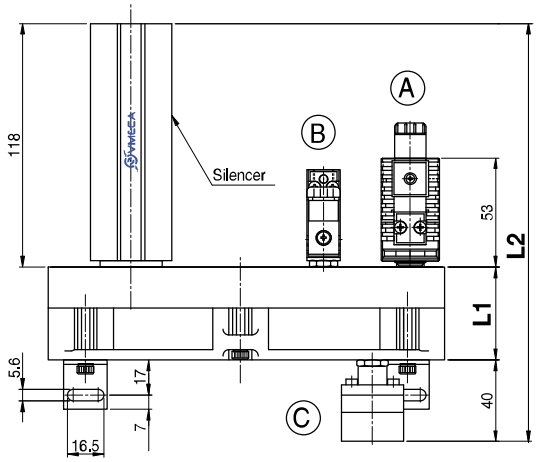
Port 1 : G1/4″, NPT1/4″
Port 2 : G1/2″, G3/4″, G1″
NPT1/2″, NPT3/4″, NPT 1″
Port 3 : G3/4″

Port 1 : VTL25~VTL150 : G1/4″, NPSF 1/4″
VTL175~VTL200 : G3/8″, NPSF 3/8″
Port 2 : G1/2″, G3/4″, G 1″
NPT1/2″, NPT3/4″, NPT 1″
Port 3 : G3/4″

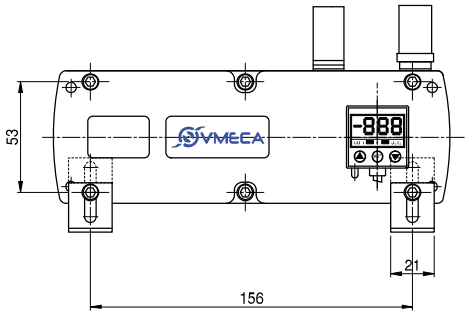
Dimensional Information

Air supply control valve
Vacuum release control valve
Digital display vacuum switch





Ⓐ Air supply control valve
Ⓑ Vacuum release control valve
Ⓒ Digital display vacuum switch



[Measure unit : mm]

(mm)

Model	L1	L2
VTL25	45.5	206.5
VTL50	45.5	206.5
VTL75	65	226
VTL100	65	226
VTL125	84.5	245.5
VTL150	84.5	245.5
VTL175	104	265
VTL200	104	265

Port 1 : VTL25~VTL150 : G1/4″, NPSF 1/4″
VTL175~VTL200 : G3/8″, NPSF 3/8″
Port 2 : G1/2″, G3/4″, G 1″
NPT1/2″, NPT3/4″, NPT 1″
Port 3 : G3/4″