MM - Midiflex Pump

Max. vacuum level : **-92 kPa** (-27.17 inHg)

Max. flow rate : **2200 Nl/min** (77.69 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 : 55 ~ 65 dBA

Main Advantages

This MM-Midiflex pump is a compact manifold based multi stage ejector multi pump arrangement. Much higher flow rates and fast evacuation times can be achieved with this type of pump.

The pump features a pressure gauge and a vacuum gauge along with two G3/4″ ports for connecting more than one large bore vacuum pipe. As with most of the other pumps the MM-Midiflex can be specified with an air saving kit, and with Viton® or EPDM as seal options. This manifold has a special design allowing you to choose between two vacuum ports suited for your application. The pumps to achieve a combination of high flow rates and the highest vacuum levels.

Order No.

VTMM100 - V34 - AS A3 - SG2 - N V

① ② ③ ④ ⑤ ⑥ ⑦

① Model – Capacity equivalent to electricity motor pump size

●	**VTMM100**	– 1KW
	VTMM150	– 1.5KW
	VTMM200	– 2KW
	VTMM200F	– 2KW

② Vacuum port

●	**V34**	– 2XG3/4″ (VTMM100, 150, 200)
	V01	– G1″ (VTMM100, 150, 200)
	V02	– G1 1/2″ (VTMM200F)

③ Air saving kit (📖 108)

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

④ Air supply control valve

	no mark	– Without control valve
	A1	– AC110V Electrically operated valve
	A2	– AC220V Electrically operated valve
●	**A3**	– DC24V Electrically operated valve
	A4	– Pneumatically operated valve

⑤ 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)

⑥ Non return valve

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

⑦ 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
VTMM100	92 (27.17)	1290	300~420	55~60	2389	〉8	〉19	〉22
VTMM150		1740	450~630	55~65	2558	〉10	〉25	〉32
VTMM200		2150	600~780	55~65	2981	〉10	〉32	〉40
VTMM200F		2200	600~780	55~65	3260	〉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	23.62 80	26.57 90
VTMM100	1290	844	562	291	146	109	72	40	20	3.2
VTMM150	1740	1206	700	420	216	162	180	60	27	4..5
VTMM200	2150	1530	1010	520	290	216	144	80	40	6.4
VTMM200F	2200	1540	1016	528	290	216	144	80	40	6.4

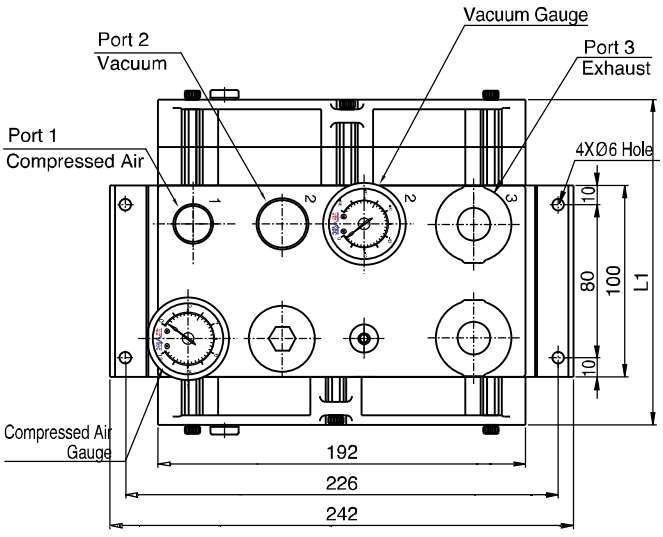
Time in seconds to evacuate to vacuum level (sec/l)

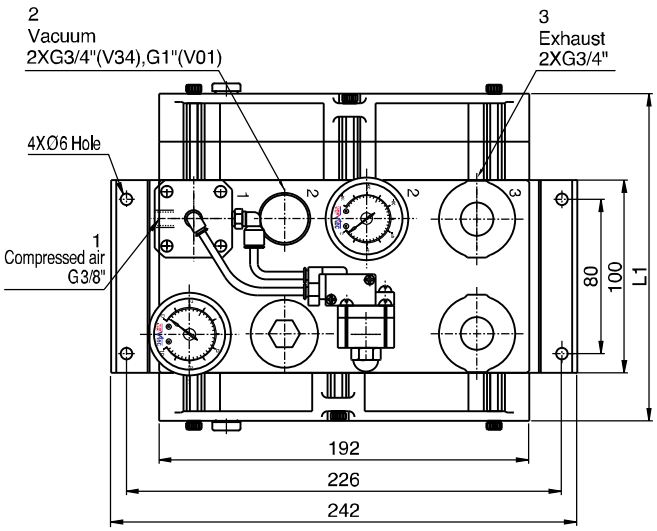
-inHg / -kPa / Model	2.95 10	5.9 20	8.85 30	11.81 40	14.76 50	17.71 60	20.67 70	23.62 80	26.57 90
VTMM100	0.0053	0.0144	0.031	0.063	0.105	0.173	0.297	0.526	1.097
VTMM150	0.0046	0.011	0.025	0.047	0.078	0.129	0.223	0.394	0.823
VTMM200	0.0032	0.0076	0.0165	0.029	0.054	0.09	0.153	0.274	0.67
VTMM200F	0.0031	0.0075	0.0164	0.029	0.054	0.09	0.153	0.274	0.67

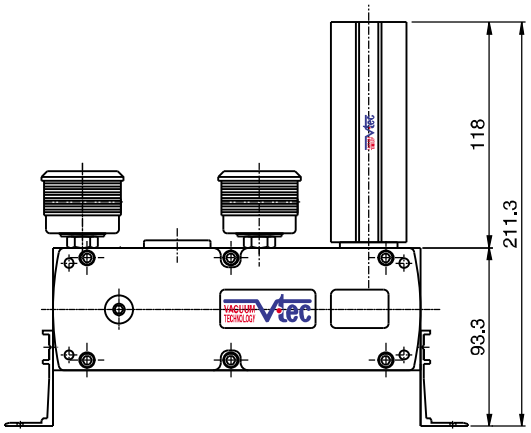
Dimensional Information

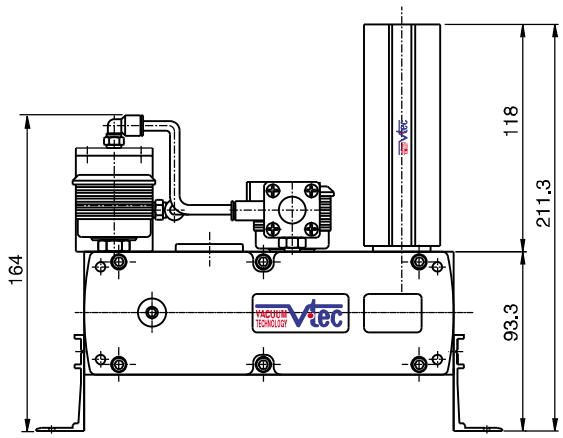
100
VTMM (150)
200

with AS - KIT









Port1 : G1/2″
Port2 : 2xG3/4″(V34), G1″ (V01)
Port3 : 2xG3/4″

[Measure unit : mm]

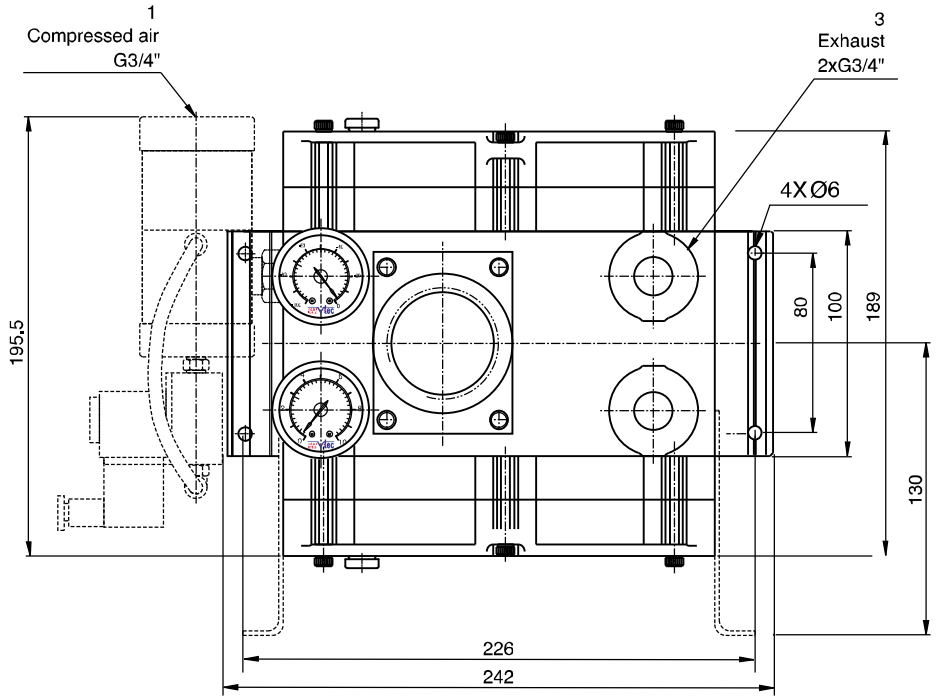
(mm)

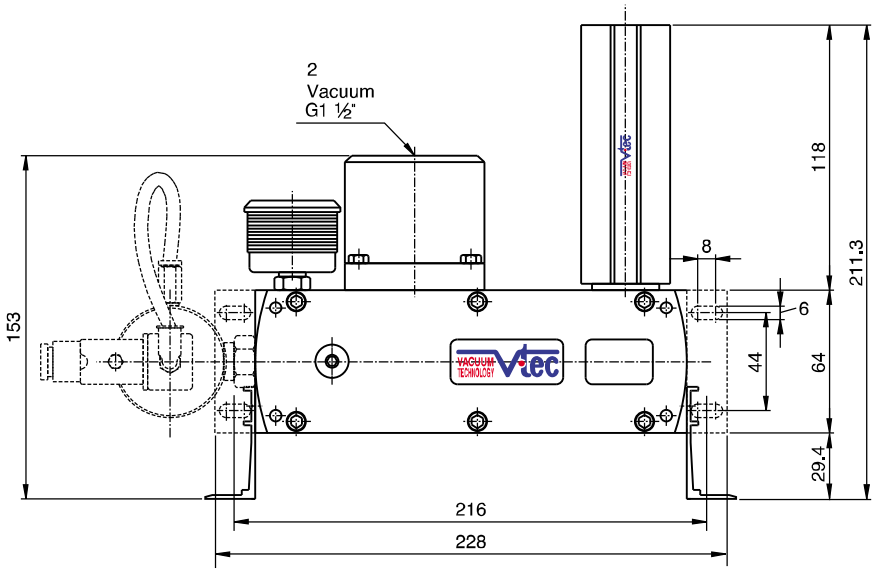
Model	L1
VTMM100	150
VTMM150	169.5
VTMM200	189

Specifications subject to change without notice.

Dimensional Information

VTMM 200F with air supply control valve





Port1 : G3/4″
Port2 : G1 1/2″ (V02)
Port3 : 2xG3/4″

[Measure unit : mm]