

## Mega PM Pump

Max. vacuum level	: -92 kPa ( -690 mmHg)
Max. flow rate	: 5456 NI/min
Supply air pressure	: 3 ~ 6 bar, max 7bar (43.5~87 psi, max 101.5 psi)
Air consumption	: 588 ~ 2144 NI/min
Supply air type	: Dry compressed air
Working temperature	: - 20°C ~ + 80°C
Noise level	: 60 ~ 65dBA



## Main Advantages

- Maintains vacuum despite fluctuations and drops in air pressure.
- Various connection ports available.
- Fast evacuation time.
- Optional Air-Saving Kit (AS-KIT) available to minimize energy consumption.
- Optional factory installed air control / vacuum release valves and digital vacuum switches available.
- Strong aluminum body.
- Easily mountable and maintainable with interchangeable vacuum cartridge (max. up to 16pcs cartridges)

## Order No.

**MPM 303X16 - 03 S - ASV A1 - R3 - DL - S2 N V**



① Model (Vacuum flows)	
MPM 303 X 6	- 2046 NI/min
MPM 303 X 8	- 2728 NI/min
MPM 303 X 10	- 3410 NI/min
MPM 303 X 12	- 4092 NI/min
MPM 303 X 14	- 4774 NI/min
MPM 303 X 16	- 5456 NI/min

② Vacuum port	
02	- G1½" port No Silencer
03	- G2" port No Silencer
04	- G2½" port No Silencer
02S	- G1½" port Silencer
03S	- G2" port Silencer
04S	- G2½" port Silencer

③ Air Saving kit	
No mark	- Not included
AS XX	- Air saving kit without Air solenoid valve
ASVA1	- ASV with AC110V
ASVA2	- ASV with AC220V
ASVA3	- ASV with DC24V
ASVD1*	- ASV with AC110V
ASVD2*	- ASV with AC2200V
ASVD2*	- ASV with DC24V
A1	- AC110V
A2	- AC220V
A3	- DC24V
D1*	- AC110V
D2*	- AC220V
D3*	- DC24V

④ Voltage of vacuum release control valve	
R1	- AC110V
R2	- AC220V
R3	- DC24V

⑤ Solenoid Terminal	
DN	- DIN type without lead wire
DL	- DIN type with lamp without lead wire
2B*	- DIN type '2 in 1' BUS Cable (Air control v/v + vacuum release v/v)
3B*	- DIN type '3 in 1' BUS Cable (Air control v/v + vacuum release v/v + Digital switch)
4B*	- DIN type '4 in 1' BUS Cable (Double air control v/v + vacuum release v/v + Digital switch)

\* Double solenoid valve is not available  
 \* Remark  
 3B: Only DC24V is available  
 4B: Only DC24V is available  
 Only with 'S2' or 'S2P', section ⑥

⑥ Vacuum switch	
No mark	- Vacuum gauge attached
S2(P)	- Digital output 2 points, No analog supply. M8-4Pin male connector (0.3m lead wire)
SG2(P)	- Digital output 2 points, No analog supply. Grommet type 4-Core 2m lead wire
SG3(P)	- Digital output 2 points, Analog supply. Grommet type 5-Core 2m lead wire

Remark : ① S..(P) – Output type : PNP open collector  
 ② VCM8 42 : M8-4Pin female connector wire  
 Only for type S2 or S2(P)

⑦ Non-return valve	
No mark	- Non included
N	- Non-return valve

⑧ Sealing	
No mark	- NBR
V	- Viton®
E	- EPDM

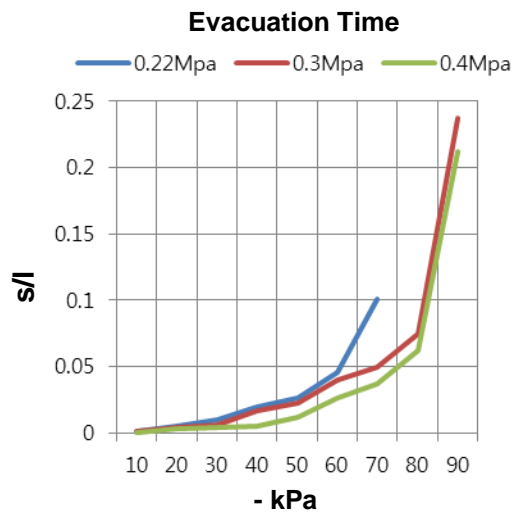
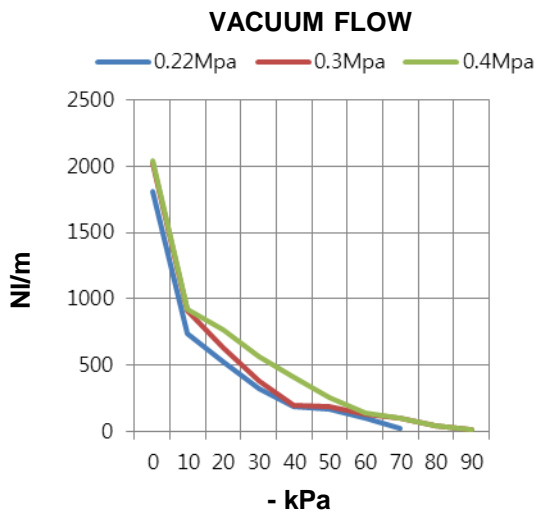
\* D.. : Double solenoid valve is available only with 'DN' or 'DL', section ④

**Performance Data**

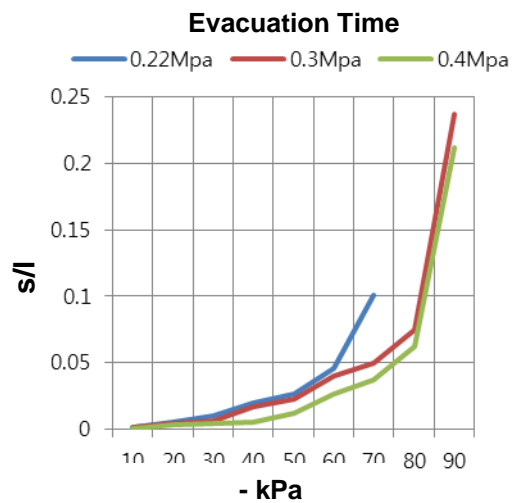
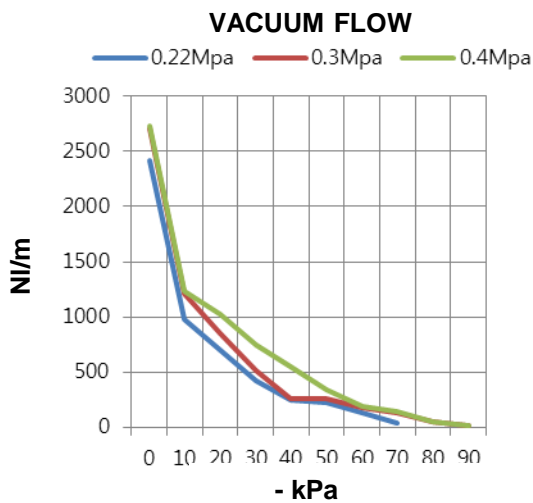
Model	Max. Vacuum -kpa (-mmHg)	Supply Air pressure (Mpa)	Vacuum flow (NI/min) at different vacuum level -kPa (-mmHg)									
			0 (0)	10 (75)	20 (150)	30 (225)	40 (300)	50 (375)	60 (450)	70 (525)	80 (600)	90 (675)
MPM303X6	75 (562.5)	0.22	1812	735	528	318	188.4	171	99	27.6	-	-
	93 (697.5)	0.3	2028	912	636	384	198	192	132	99	38.4	11.4
	93 (697.5)	0.4	2046	924	765	564	414	258	139.8	103.8	41.4	12.6
MPM303X8	75 (562.5)	0.22	2416	980	704	424	251.2	228	132	36.8	-	-
	93 (697.5)	0.3	2704	1216	848	512	264	256	176	132	51.2	15.2
	93 (697.5)	0.4	2728	1232	1020	752	552	344	186.4	138.4	55.2	16.8
MPM303X10	75 (562.5)	0.22	3020	1225	880	530	314	285	165	46		
	93 (697.5)	0.3	3380	1520	1060	640	330	320	220	165	64	19
	93 (697.5)	0.4	3410	1540	1275	940	690	430	233	173	69	21
MPM303X12	75 (562.5)	0.22	3624	1470	1056	636	376.8	342	198	55.2	-	-
	93 (697.5)	0.3	4056	1824	1272	768	396	384	264	198	76.8	22.8
	93 (697.5)	0.4	4092	1848	1530	1128	828	516	279.6	207.6	82.8	25.2
MPM303X14	75 (562.5)	0.22	4228	1715	1232	742	439.6	399	231	64.4	-	-
	93 (697.5)	0.3	4732	2128	1484	896	462	448	308	231	89.6	26.6
	93 (697.5)	0.4	4774	2156	1785	1316	966	602	326.2	242.2	96.6	29.4
MPM303X16	75 (562.5)	0.22	4832	1960	1408	848	502.4	456	264	73.6	-	-
	93 (697.5)	0.3	5408	2432	1696	1024	528	512	352	264	102.4	30.4
	93 (697.5)	0.4	5456	2464	2040	1504	1104	688	372.8	276.8	110.4	33.6

Model	Supply Air pressure (Mpa)	Air Consumption (NI/m)	Time (s/l) to evacuate a volume to different vacuum level -kPa (-mmHg)								
			10 (75)	20 (150)	30 (225)	40 (300)	50 (375)	60 (450)	70 (525)	80 (600)	90 (675)
MPM303X6	0.22	588	0.0038	0.013	0.0483	0.055	0.08	0.128	0.28	-	-
	0.3	672	0.0032	0.0098	0.0217	0.0433	0.0733	0.115	0.162	0.263	0.642
	0.4	804	0.003	0.0088	0.0133	0.025	0.0433	0.093	0.143	0.26	0.63
MPM303X8	0.22	784	0.0029	0.0098	0.0363	0.0413	0.06	0.096	0.21	-	-
	0.3	896	0.0024	0.0074	0.0163	0.0325	0.055	0.086	0.121	0.1975	0.481
	0.4	1072	0.0023	0.0066	0.01	0.0188	0.0325	0.07	0.1075	0.195	0.473
MPM303X10	0.22	980	0.0023	0.0078	0.029	0.033	0.048	0.077	0.168	-	-
	0.3	1120	0.0019	0.0059	0.013	0.026	0.044	0.069	0.097	0.158	0.385
	0.4	1340	0.0018	0.0053	0.008	0.015	0.026	0.056	0.086	0.156	0.378
MPM303X12	0.22	1176	0.0019	0.0065	0.0242	0.0275	0.04	0.064	0.14	-	-
	0.3	1344	0.0016	0.0049	0.0108	0.0217	0.0367	0.0575	0.081	0.132	0.321
	0.4	1608	0.0015	0.0044	0.0067	0.0125	0.0217	0.047	0.072	0.13	0.315
MPM303X14	0.22	1372	0.0016	0.0056	0.0207	0.0236	0.0343	0.055	0.12	-	-
	0.3	1568	0.0014	0.0042	0.0093	0.0186	0.0314	0.0493	0.0693	0.1129	0.275
	0.4	1876	0.0013	0.0038	0.0057	0.0107	0.0186	0.04	0.0614	0.1114	0.27
MPM303X16	0.22	1568	0.0014	0.0049	0.0181	0.0206	0.03	0.048	0.105	-	-
	0.3	1792	0.0012	0.0037	0.0081	0.0163	0.0275	0.0431	0.0606	0.0988	0.2406
	0.4	2144	0.0011	0.0033	0.005	0.0094	0.0163	0.035	0.0538	0.0975	0.2363

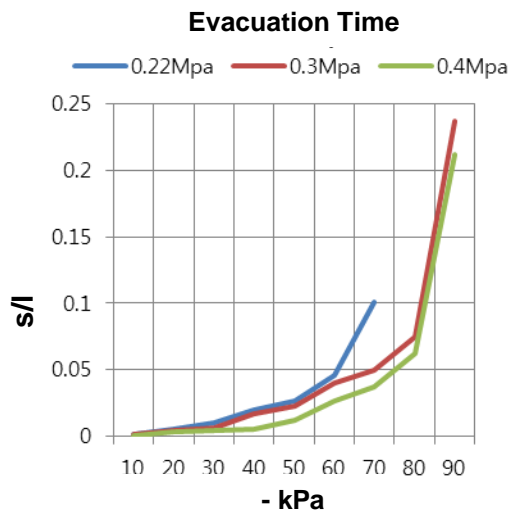
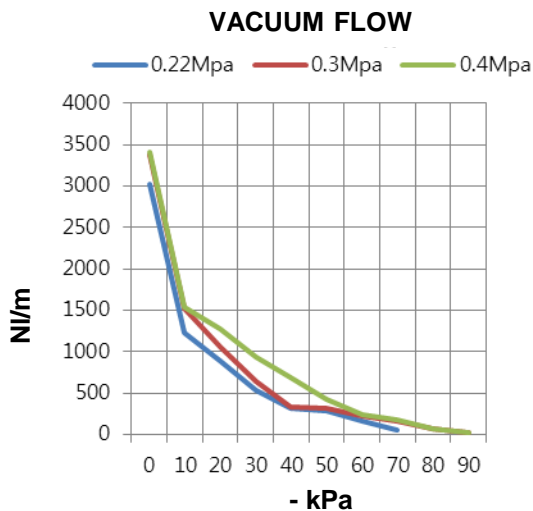
VACUUM PUMPS



**Mega PM 303X6..**

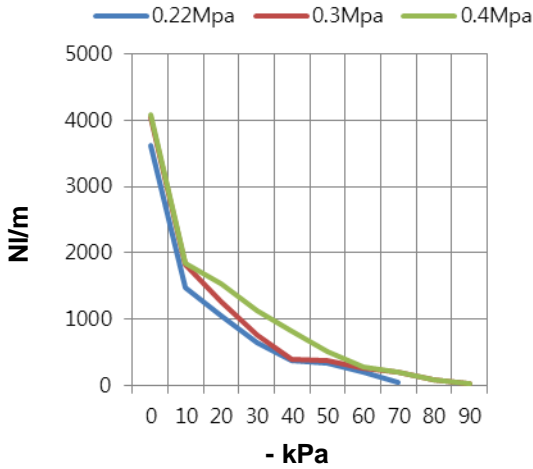


**Mega PM 303X8..**

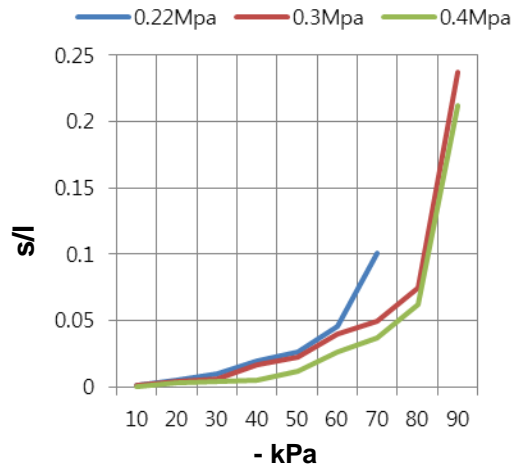


**Mega PM 303X10..**

**VACUUM FLOW**

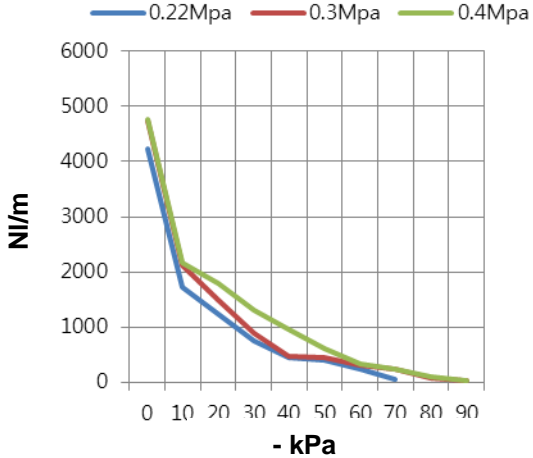


**Evacuation Time**

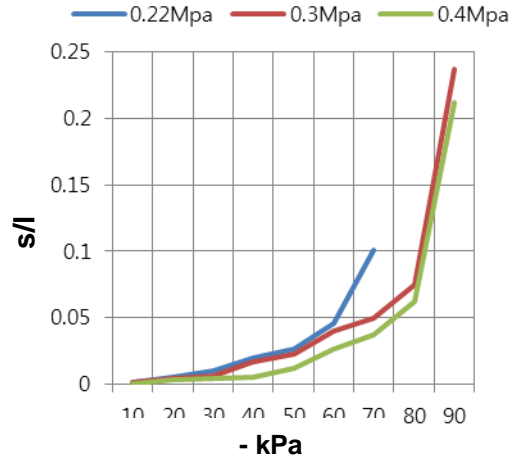


**Mega PM 303X12..**

**VACUUM FLOW**

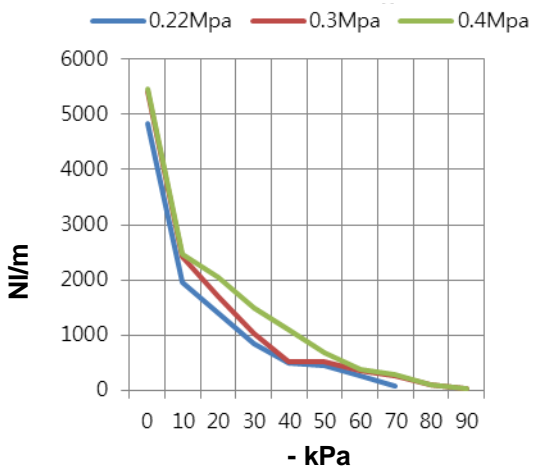


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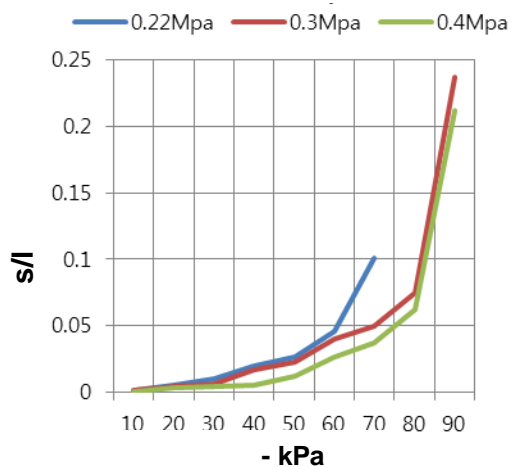


**Mega PM 303X14..**

**VACUUM FLOW**



**Evacuation Time**

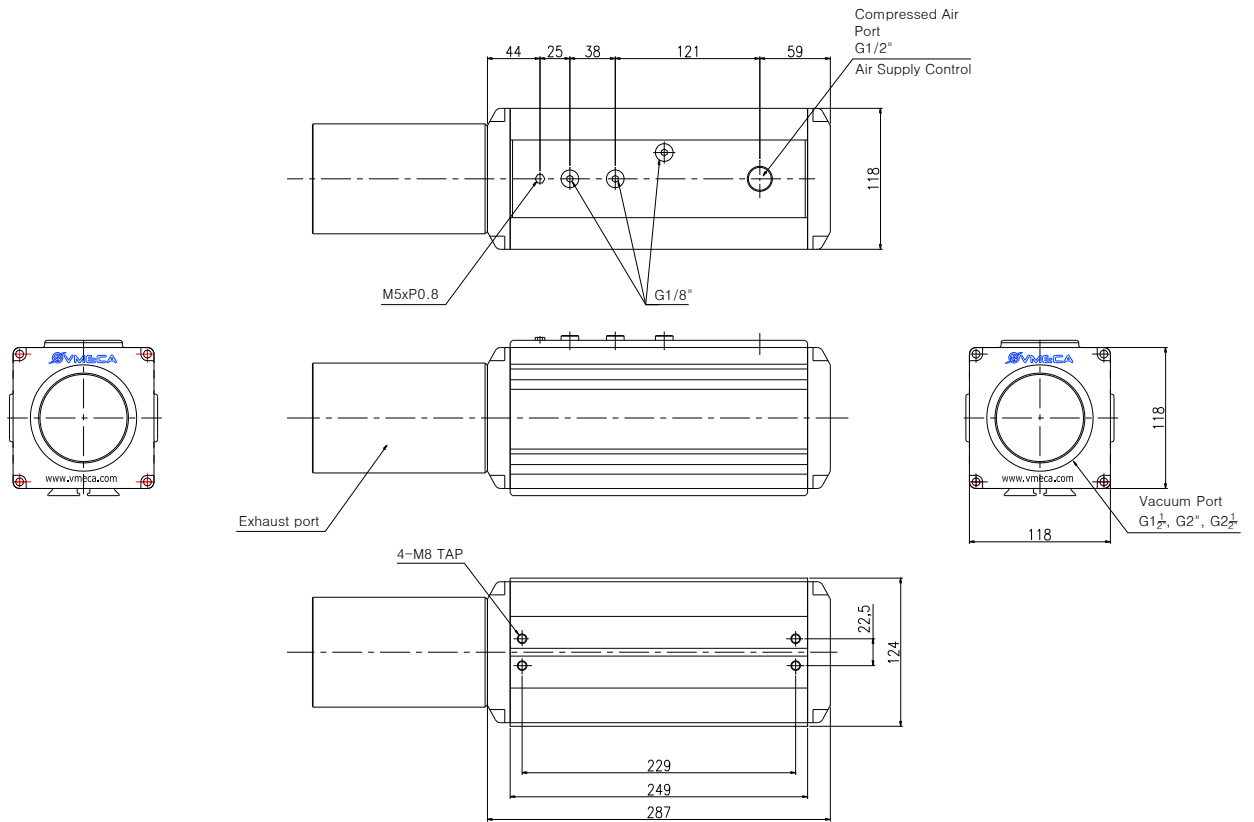


**Mega PM 303X16..**

**Dimensional Information**

Standard

**MPM 303X16..**



[Measure unit : mm]