

# VACUUM PUMP VMP/VXP



공급 압력 / Feed pressure : 0.4 ~ 0.6 MPa  
 에어 소모량 / Air consumption : 78 ~ 840 Nℓ/m  
 최대 진공 / Max vacuum : - 91 ~ - 97 kPa  
 소음도 / Noise level : 50 ~ 65 dBA  
 재질 / Material : PPS, AL  
 사용온도 / Working temperature : - 20 ~ 80℃  
 중량 / Weight : 620 ~ 1150g

Order no.

V①P② - ③ - ④ - ⑤ - ⑥ - ⑦

① 유형 / TYPE

M : 91 ~ 92 (-kPa)  
 X : 97 (-kPa)

② 용량 / CAPACITY

전기모터펌프 동일한 용량  
 Capacity equivalent to electricity motor pump size

10 : 389 Nℓ/m (0.25 KW) VMP	60 : 1380 Nℓ/m (1.5 KW) VMP ONLY
185 Nℓ/m (0.25 KW) VXP	70 : 1490 Nℓ/m (1.75 KW) VMP ONLY
20 : 647 Nℓ/m (0.5 KW) VMP	80 : 1580 Nℓ/m (2.0 KW) VMP ONLY
365 Nℓ/m (0.5 KW) VXP	10L : 365 Nℓ/m (0.25 KW) VMP ONLY
30 : 890 Nℓ/m (0.75 KW) VMP	20L : 622 Nℓ/m (0.5 KW) VMP ONLY
521 Nℓ/m (0.75 KW) VXP	30L : 841 Nℓ/m (0.75 KW) VMP ONLY
40 : 1100 Nℓ/m (1.0 KW) VMP ONLY	40L : 1060 Nℓ/m (1.0 KW) VMP ONLY
50 : 1200 Nℓ/m (1.25 KW) VMP ONLY	

③ 진공포트 / VACUUM PORT

V 12 : PF 1/2"  
 V 34 : PF 3/4"

유의사항 / Remarks  
 에어 포트 PF 1/4" (표준)  
 Air supply port PF 1/4" (Standard)

④ 씬링 / SEALING

N : NBR (표준 씬 / Standard seal)  
 V : VITON  
 E : EPDM  
 NR : NON RETURN VALVE & NBR SEAL  
 NV : NON RETURN VALVE & VITON SEAL  
 NE : NON RETURN VALVE & EPDM SEAL

⑤ 에어공급 밸브  
 AIR SUPPLY CONTROL VALVE

X : 없음 (NONE)  
 M1 : AC 110V  
 M2 : AC 220V  
 M4 : DC 24V  
 AS : 에어절약키트 부착 / Air saving kit attach

유의사항 / Remarks  
 AS-kit 적용시 공급밸브 및 스위치 부착 불가  
 In case of applying to AS-KIT, release control valve & vacuum switch is not available

⑥ 진공파기 밸브  
 VACUUM RELEASE CONTROL VALVE

X : 없음 (NONE)  
 R1 : AC 110V  
 R2 : AC 220V  
 R4 : DC 24V

⑦ 진공 센서 (옵션)  
 VACUUM SENSOR(OPTION)

X : 없음 (NONE)  
 S : NPN (2점출력 / 2 point output)  
 PS : PNP (2점출력 / 2 point output)

# DESIGN DATA

## 펌프의 특징 / Pump Characteristics

MODEL	최대 진공 Max.Vacuum -kPa(-mmHg)	최대 진공 유량 Max.Vacuum flow(Nℓ/min)	에어 소모량 Air consumption (Nℓ/min)	소음도 noise level (dBA)	중량 weight (g)	최소 호스 내경 $\varnothing$ (2m 이내) Min hose inner $\varnothing$ (within 2m)		
						공급 air supply	진공 vacuum	배기 exhaust
VMP 10	-92 (-690)	389	78 ~ 108	50 ~ 60	620	>6	>12	>12
VMP 20		647	150 ~ 210	50 ~ 60	622	>8	>15	>15
VMP 30		890	228 ~ 318	55 ~ 65	794	>10	>19	>22
VMP 40		1100	300 ~ 420	55 ~ 65	795	>10	>19	>22
VMP 50		1200	378 ~ 528	60 ~ 65	936	>10	>25	>32
VMP 60		1380	450 ~ 630	60 ~ 65	947	>10	>25	>32
VMP 70		1490	528 ~ 738	60 ~ 65	1148	>10	>32	>40
VMP 80		1580	600 ~ 840	60 ~ 65	1150	>10	>32	>40
VMP 10L	-91 (-682.5)	365	108	50 ~ 60	620	>8	>12	>12
VMP 20L		622	210	50 ~ 60	622	>10	>15	>15
VMP 30L		841	318	55 ~ 65	794	>10	>19	>22
VMP 40L		1060	420	55 ~ 65	795	>10	>19	>22
VXP 10	-97 (-727.5)	185	150 ~ 210	55 ~ 65	622	>6	>12	>12
VXP 20		365	228 ~ 318	60 ~ 65	795	>8	>15	>15
VXP 30		521	300 ~ 420	60 ~ 65	968	>10	>19	>22

## 진공 흡입 유량 (Nℓ/min) / Induce air in liters per minute (Nℓ/min)

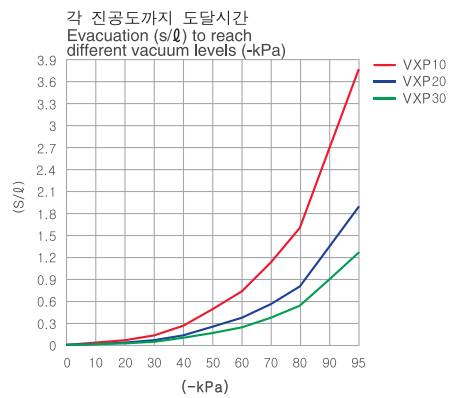
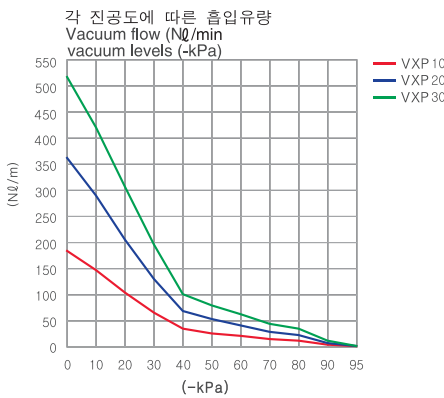
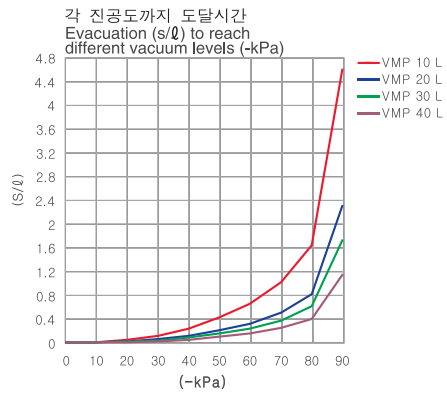
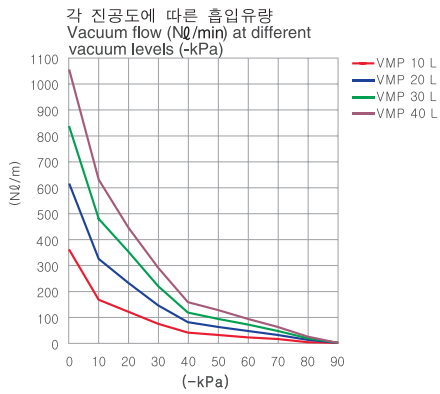
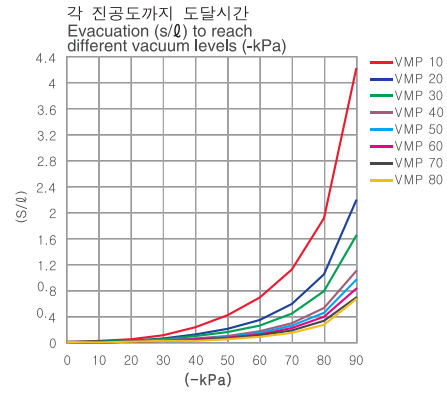
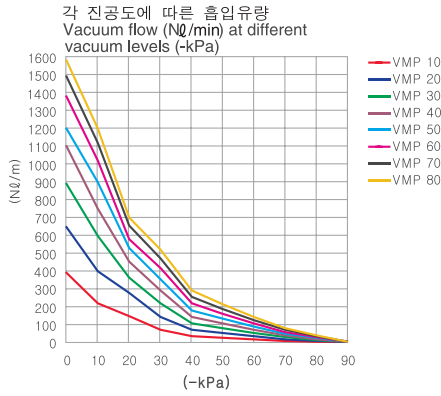
MODEL	-mmHg -kPa	0 (-mmHg) 0 (-kPa)	75	150	225	300	375	450	525	600	675	712.5
			10	20	30	40	50	60	70	80	90	95
VMP 10	389	220	147	74	37	27	18	10	5	0.8		
VMP 20	647	400	279	146	73	54	36	20	10	1.6		
VMP 30	890	600	366	220	110	82	54	30	15	2.4		
VMP 40	1100	750	453	291	146	109	72	40	20	3.2		
VMP 50	1200	900	530	356	182	135	90	50	25	4		
VMP 60	1380	1020	579	416	218	162	108	60	30	4.8		
VMP 70	1490	1120	654	471	254	189	126	70	35	5.6		
VMP 80	1580	1200	701	521	290	216	144	80	40	6.4		
VMP 10L	365	169	124	76	43	33	25	17	7	0.8		
VMP 20L	622	327	236	149	83	65	49	33	14	1.6		
VMP 30L	841	481	354	221	122	97	73	49	21	2.4		
VMP 40L	1060	634	449	293	161	129	96	64	27	3.2		
VXP 10	185	148	105	66	35	27	21	15	12	4.2	1.5	
VXP 20	365	292	207	132	69	54	42	30	23	8.4	3	
VXP 30	521	424	309	198	102	81	63	45	35	12.6	4.5	

## 진공 도달 시간 (sec/ℓ) / Time in seconds to evacuate to vacuum level (sec /ℓ)

MODEL	-mmHg -kPa	75 (-mmHg) 10 (-kPa)	150	225	300	375	450	525	600	675	712.5
			20	30	40	50	60	70	80	90	95
VMP 10	0.019	0.048	0.110	0.239	0.416	0.686	1.122	1.91	4.21		
VMP 20	0.012	0.030	0.066	0.125	0.209	0.345	0.593	1.05	2.19		
VMP 30	0.009	0.023	0.050	0.094	0.157	0.259	0.445	0.788	1.644		
VMP 40	0.006	0.015	0.033	0.063	0.105	0.173	0.297	0.526	1.097		
VMP 50	0.005	0.014	0.031	0.055	0.092	0.151	0.260	0.46	0.960		
VMP 60	0.005	0.014	0.029	0.047	0.078	0.129	0.223	0.394	0.823		
VMP 70	0.005	0.013	0.027	0.039	0.065	0.108	0.186	0.329	0.686		
VMP 80	0.004	0.012	0.026	0.027	0.054	0.090	0.153	0.274	0.67		
VMP 10L	0.02	0.056	0.12	0.24	0.425	0.66	1.02	1.64	4.6		
VMP 20L	0.013	0.032	0.062	0.12	0.212	0.33	0.51	0.82	2.3		
VMP 30L	0.01	0.024	0.047	0.09	0.159	0.248	0.383	0.621	1.73		
VMP 40L	0.007	0.016	0.031	0.06	0.106	0.165	0.255	0.41	1.15		
VXP 10	0.028	0.068	0.134	0.26	0.49	0.736	1.126	1.598	2.7	3.76	
VXP 20	0.014	0.035	0.067	0.13	0.25	0.368	0.563	0.799	1.35	1.88	
VXP 30	0.011	0.023	0.046	0.095	0.167	0.246	0.376	0.533	0.9	1.264	

※품질 향상을 위해 예고없이 사양이 변경될 수 있음.  
Specifications subject to change without notice.

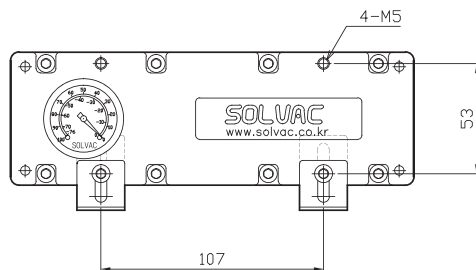
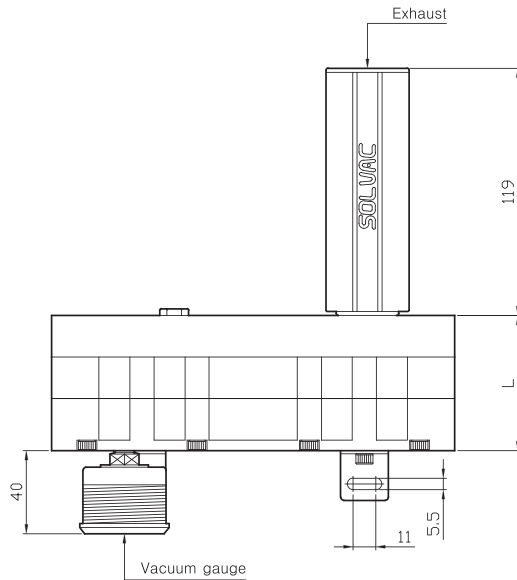
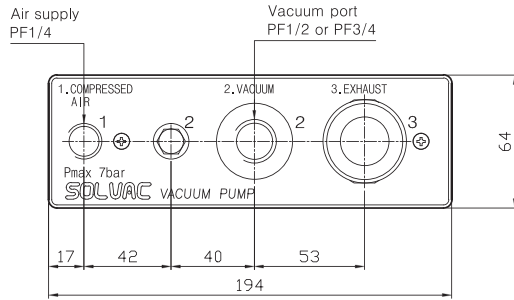
# DESIGN DATA



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# DIMENSION

VMP/VXP type



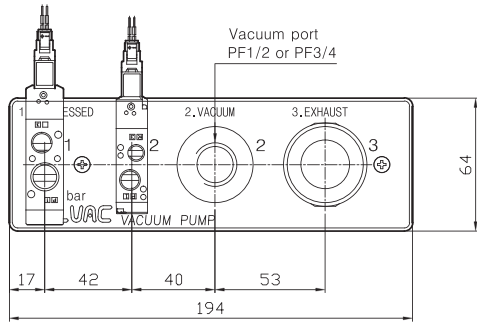
MODEL	L (mm)
VMP10(L) - (V12/V34) - (N) - X - X	45
VMP20(L) - (V12/V34) - (N) - X - X	45
VMP30(L) - (V12/V34) - (N) - X - X	65
VMP40(L) - (V12/V34) - (N) - X - X	65
VMP50 - (V12/V34) - (N) - X - X	85
VMP60 - (V12/V34) - (N) - X - X	85
VMP70 - (V12/V34) - (N) - X - X	105
VMP80 - (V12/V34) - (N) - X - X	105

MODEL	L (mm)
VXP10 - (V12/V34) - (N) - X - X	45
VXP20 - (V12/V34) - (N) - X - X	65
VXP30 - (V12/V34) - (N) - X - X	85

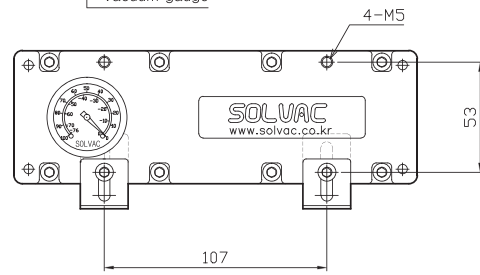
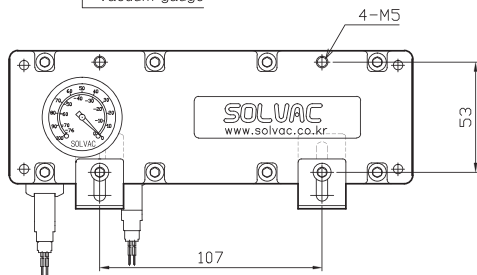
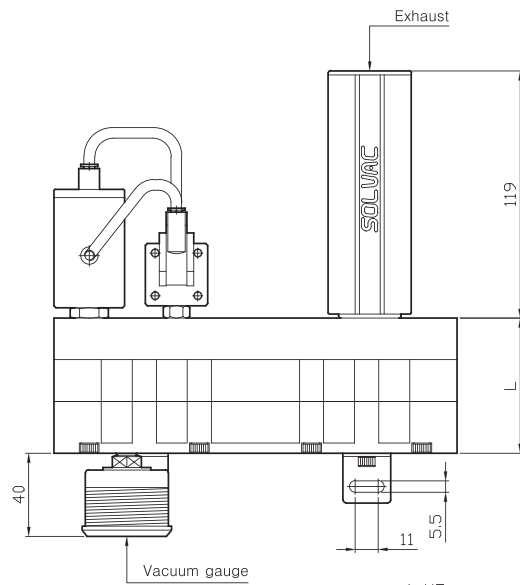
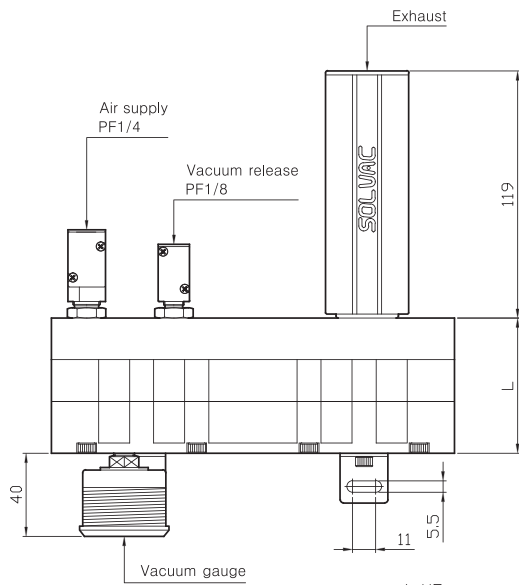
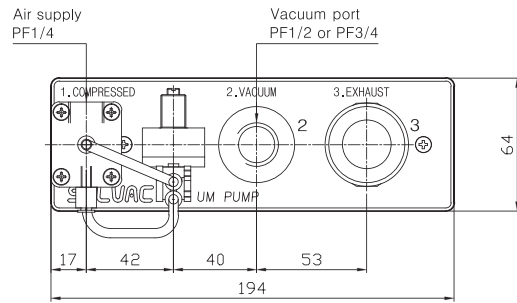
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# DIMENSION

VMP/VXP type (with valve)



(with AS-KIT)



MODEL	L (mm)
VMP10(L) - (V12/V34) - (N) - (M4) - (R4)	45
VMP20(L) - (V12/V34) - (N) - (M4) - (R4)	65
VMP30(L) - (V12/V34) - (N) - (M4) - (R4)	85
VMP40(L) - (V12/V34) - (N) - (M4) - (R4)	105
VMP50 - (V12/V34) - (N) - (M4) - (R4)	45
VMP60 - (V12/V34) - (N) - (M4) - (R4)	65
VMP70 - (V12/V34) - (N) - (M4) - (R4)	85
VMP80 - (V12/V34) - (N) - (M4) - (R4)	105

MODEL	L (mm)
VXP10 - (V12/V34) - (N) - (M4) - (R4)	45
VXP20 - (V12/V34) - (N) - (M4) - (R4)	65
VXP30 - (V12/V34) - (N) - (M4) - (R4)	85

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