

VACUUM PUMP KM/KX



공급 압력 / Feed pressure	: 0.4 ~ 0.6 MPa
에어 소모량 / Air consumption	: 30 ~ 144 Nℓ/m
최대 진공 / Max vacuum	: - 85 ~ -92 kPa
소음도 / Noise level	: 50 ~ 67 dBA
재질 / Material	: PPS, AL
사용온도 / Working temperature	: - 20 ~ 80 ℃
중량 / Weight	: 330 ~ 350 g

Order no.

K ① — ② — ③ — ④ — ⑤

- ① 모델 / MODEL ② 용량 / CAPACITY
- | | |
|---------------|---------------------|
| M : 85 (-kPa) | 02C : 74 Nℓ/m (KM) |
| X : 92 (-kPa) | 62 Nℓ/m (KX) |
| | 04C : 149 Nℓ/m (KM) |
| | 124 Nℓ/m (KX) |
| | 06C : 220 Nℓ/m (KM) |
| | 185 Nℓ/m (KX) |

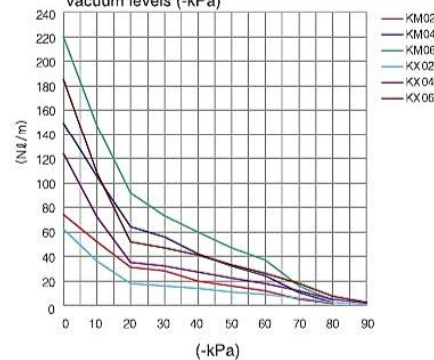
- ③ 에어공급밸브 및 진공파기밸브
AIR SUPPLY CONTROL VALVE &
VACUUM RELEASE CONTROL VALVE
- | |
|--------------|
| M1 : AC 110V |
| M2 : AC 220V |
| M4 : DC 24V |

- ④ 진공연조 / VACUUM STACK
- | |
|-------------------|
| X : 없음 (NONE) |
| F2 : 2 연조 / STACK |
| F3 : 3 연조 / STACK |
| F4 : 4 연조 / STACK |
| F5 : 5 연조 / STACK |

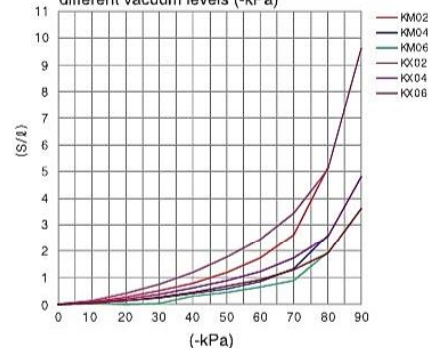
- ⑤ 진공센서(옵션)
VACUUM SENSOR (OPTION)
- | |
|-----------------------------------|
| X : 없음 (NONE) |
| S : NPN (2점출력 / out put 2 point) |
| PS : PNP (2점출력 / out put 2 point) |

* 진공악세사리 필터 (특별주문)
VACUUM ACCESSORIES FILTER (MAKE TO ORDER)
- BVF38LF
- BVF38LFA

각 진공도에 따른 흡입유량
Vacuum flow (Nℓ/min) at different
vacuum levels (-kPa)



각 진공도까지 도달시간
Evacuation (s/ℓ) to reach
different vacuum levels (-kPa)



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

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 ϕ (2m 이내) Min hose inner ϕ (within 2m)		
						공급 air supply	진공 vacuum	배기 exhaust
KM02	-85 (-637.5)	74	30 ~ 42	50 ~ 65	330	>4	>10	>12
KM04		149	60 ~ 84		340	>4	>10	>12
KM06		220	90 ~ 126		350	>6	>12	>15
KX02	-92 (-690)	62	43 ~ 48	50 ~ 67	330	>4	>10	>12
KX04		124	86 ~ 96		340	>4	>10	>12
KX06		185	129 ~ 144		350	>6	>12	>15

진공흡입유량 (Nℓ/min) / Induce air in liters per minute (Nℓ/min)

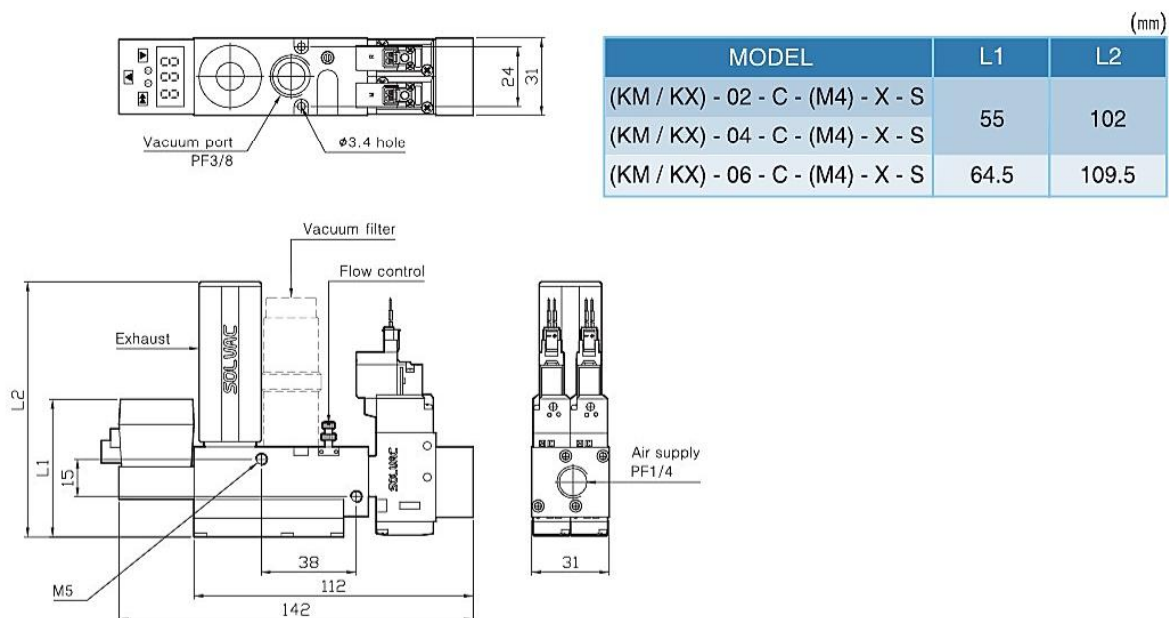
MODEL	0(-mmHg) 0(-kPa)	75 0	150 20	225 30	300 40	375 50	450 60	525 70	600 80	675 90
KM02	74	52	31	28	20	16	12	4.8	1.32	
KM04	149	105	64	56	42	32	24	10.5	2.7	
KM06	220	147	92	73	60	47	37	16	4.1	
KX02	62	36	18	16	14	11	9	6	2.4	0.9
KX04	124	72	35	32	27	22	18	12	4.8	1.8
KX06	185	108	52	47	41	33	26	18	7.2	2.7

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

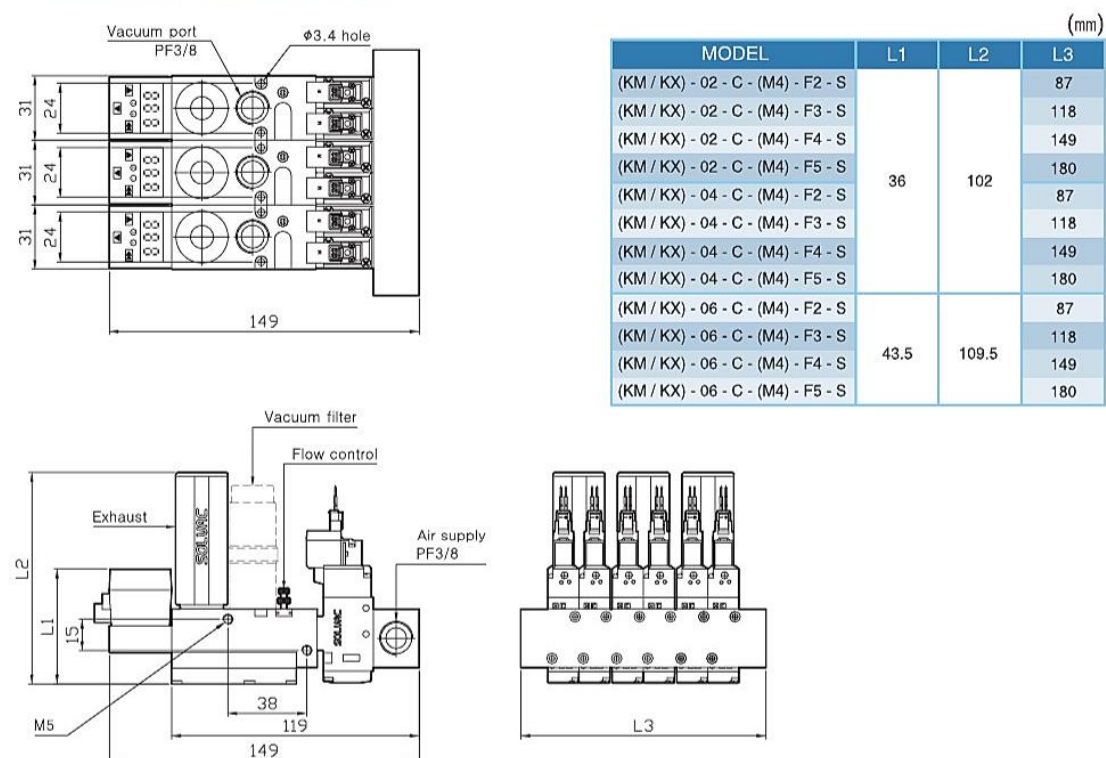
MODEL	75(-mmHg) 10(-kPa)	150 20	225 30	300 40	375 50	450 60	525 70	600 80	675 90
KM02	0.109	0.278	0.5	0.788	1.178	1.72	2.635	5.158	
KM04	0.054	0.139	0.25	0.394	0.589	0.86	1.317	2.579	
KM06	0.041	0.010	0.019	0.295	0.441	0.647	0.898	1.935	
KX02	0.129	0.398	0.758	1.2	1.78	2.455	3.445	5.08	9.594
KX04	0.064	0.199	0.379	0.6	0.89	1.227	1.722	2.54	4.797
KX06	0.048	0.149	0.284	0.44	0.673	0.917	1.287	1.906	3.595

DIMENSION

KM/KX type (with sensor)

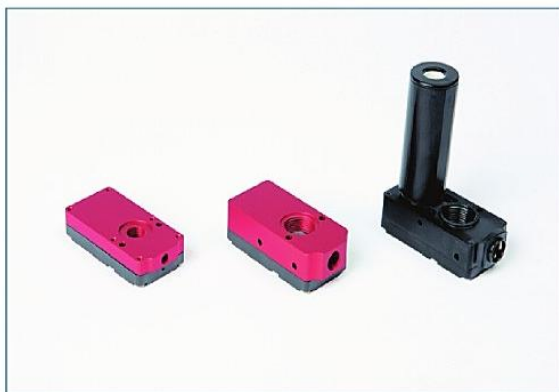


KM/KX Stack type (with sensor)



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VACUUM PUMP VSM/VSX



공급 압력 / Feed pressure : 0.4 ~ 0.6 MPa
 에어 소모량 / Air consumption : 15 ~ 144 Nℓ/m
 최대 진공 / Max vacuum : - 85 ~ - 92 kPa
 소음도 / Noise level : 50 ~ 65 dBA
 재질 / Material : PPS, AL
 사용온도 / Working temperature : - 20 ~ 80℃
 중량 / Weight : 43 ~ 68g

Order no.

VS ① — ② — ③ — ④

① 모델 / MODEL

M01	X01
M02	X02
M04	X04
M06	X06

② 유형 / TYPE

	에어공급포트	진공포트	배기포트
A :	M5	PF 1/8"	소음기 내장형 / Internal silencer
B :	PF 1/8"	PF 3/8"	소음기 내장형 / Internal silencer
C :	PF 1/8"	PF 3/8"	소음기 외장형 / External silencer

유의사항 / Remark

VSM / VSX 01 - A, B, C VSM / VSX 04 - B, C
 VSM / VSX 02 - A, B, C VSM / VSX 06 - B, C

③ 씰링 / SEALING

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

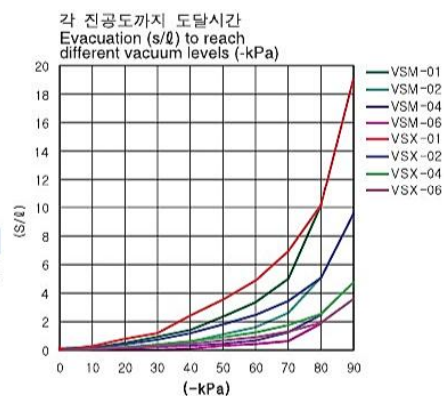
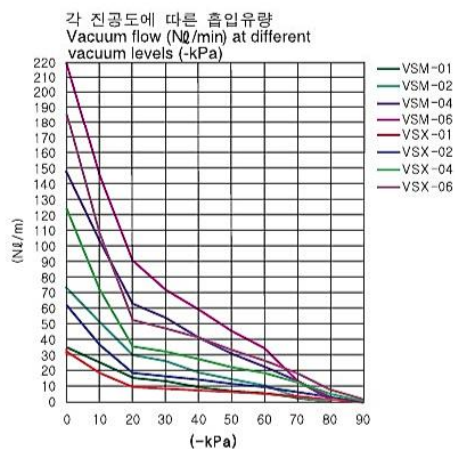
④ 진공스위치 / VACUUM SWITCH

X :	없음 (NONE)
MS :	기계식 진공스위치 부착 / Mechanical Vacuum Switch Attachment

* 진공액세서리 필터 (특별주문)

VACUUM ACCESSORIES FILTER (MAKE TO ORDER)

- BVF38LF
- BVF38LFA



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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
VSM 01	-85 (-637.5)	37	15 ~ 25	50 ~ 55	43	>4	>10	>12
VSM 02		74	30 ~ 42	55 ~ 60	43	>4	>10	>12
VSM 04		149	60 ~ 84	60 ~ 65	53	>6	>12	>15
VSM 06		220	90 ~ 126	60 ~ 65	68	>6	>12	>15
VSX 01	-92 (-690)	32	21 ~ 24	50 ~ 55	43	>4	>10	>12
VSX 02		62	43 ~ 48	55 ~ 60	43	>4	>10	>12
VSX 04		124	86 ~ 96	60 ~ 65	53	>6	>12	>15
VSX 06		185	129 ~ 144	60 ~ 67	68	>6	>12	>15

진공흡입유량 (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
			10	20	30	40	50	60	70	80	90
VSM 01		37	26	16	14	10	8	6	2.4	0.66	
VSM 02		74	52	31	28	20	16	12	4.8	1.32	
VSM 04		149	105	64	56	42	32	24	10.5	2.7	
VSM 06		220	147	92	73	60	47	37	16	4.1	
VSX 01		32	18	9	8	7	6	5	3	1.2	0.45
VSX 02		62	36	18	16	14	11	9	6	2.4	0.9
VSX 04		124	72	35	32	27	22	18	12	4.8	1.8
VSX 06		185	108	52	47	41	33	26	18	7.2	2.7

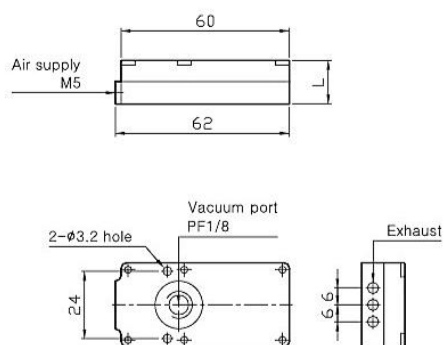
진공도달시간 (sec/ℓ) / Time in seconds to evacuate to vacuum level (sec /ℓ)

MODEL	-mmHg -kPa	75 (-mmHg) 10 (-kPa)	150	225	300	375	450	525	600	675
			20	30	40	50	60	70	80	90
VSM 01		0.218	0.556	1	1.576	2.56	3.44	5.27	10.22	
VSM 02		0.109	0.278	0.5	0.788	1.178	1.72	2.635	5.158	
VSM 04		0.054	0.139	0.25	0.394	0.589	0.86	1.317	2.579	
VSM 06		0.041	0.010	0.019	0.295	0.441	0.647	0.898	1.935	
VSX 01		0.258	0.796	1.156	2.4	3.56	4.91	6.896	10.16	19.19
VSX 02		0.129	0.398	0.758	1.2	1.78	2.455	3.445	5.08	9.594
VSX 04		0.064	0.199	0.379	0.6	0.89	1.227	1.722	2.54	4.797
VSX 06		0.048	0.149	0.284	0.44	0.673	0.917	1.287	1.906	3.595

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DIMENSION

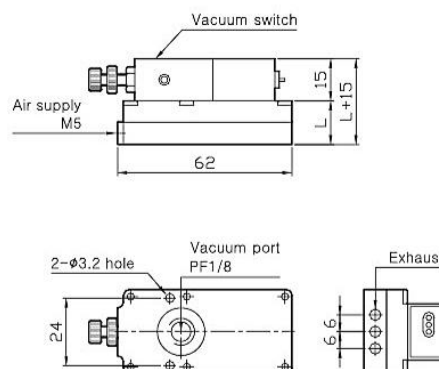
VSM/VSX 'A' type (Silencer built in)



(mm)

MODEL	L
(VSM / VSX) 01-A	15.5
(VSM / VSX) 02-A	15.5

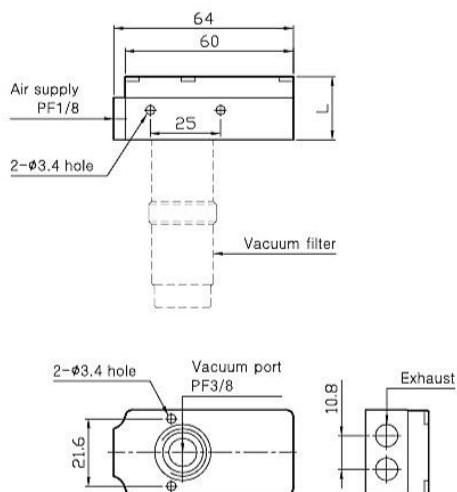
VSM/VSX 'A' type (with switch)



(mm)

MODEL	L
(VSM / VSX) 01-A-(N)-MS	15.5
(VSM / VSX) 02-A-(N)-MS	15.5

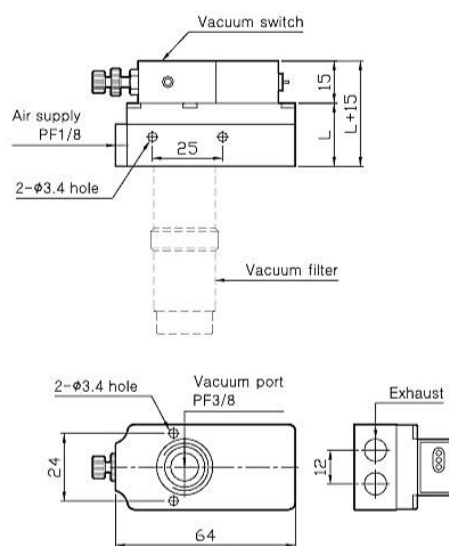
VSM/VSX 'B' type (Silencer built in)



(mm)

MODEL	L
(VSM / VSX) 01-B	22.5
(VSM / VSX) 02-B	22.5
(VSM / VSX) 04-B	30
(VSM / VSX) 06-B	37.5

VSM/VSX 'B' type (with switch)



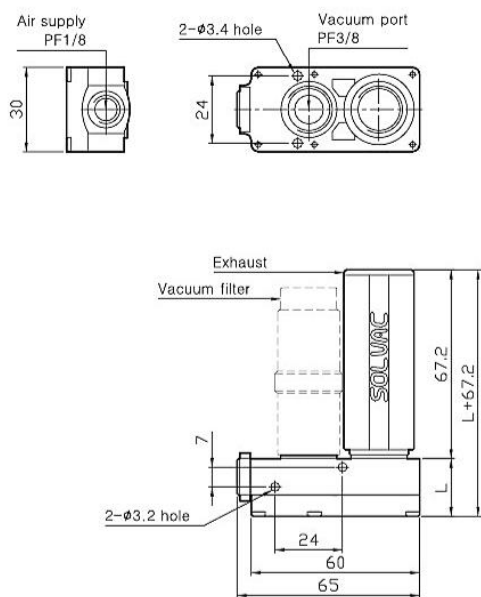
(mm)

MODEL	L
(VSM / VSX) 01-B-(N)-MS	22.5
(VSM / VSX) 02-B-(N)-MS	22.5
(VSM / VSX) 04-B-(N)-MS	30
(VSM / VSX) 06-B-(N)-MS	37.5

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DIMENSION

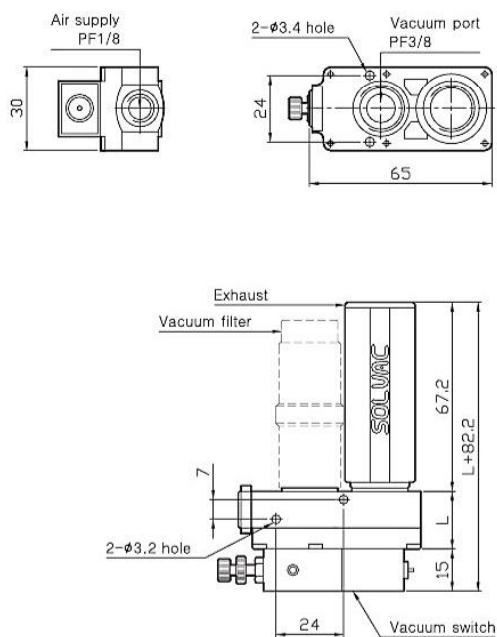
VSM/VSX 'C' type (with silencer)



(mm)

MODEL	L
(VSM / VSX) 01-C	20.5
(VSM / VSX) 02-C	20.5
(VSM / VSX) 04-C	28
(VSM / VSX) 06-C	35.5

VSM/VSX 'C' type (with switch)



(mm)

MODEL	L
(VSM / VSX) 01-(N)-C-MS	20.5
(VSM / VSX) 02-(N)-C-MS	20.5
(VSM / VSX) 04-(N)-C-MS	28
(VSM / VSX) 06-(N)-C-MS	35.5