

We grip to everything.

A part of the Piab group
KENOS
Vacuum gripping systems



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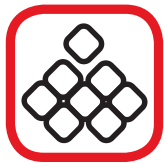
Kenos is a young italian company producing vacuum gripping systems. We project, produce and sell special systems designed for different industrial segments. Competence, quality and service are characteristics that perfectly describe our organization. Characteristics we believe are necessary to answer the growing needs of customers and international markets. Our long experience in vacuum and in its applications, allow us to be a solid consultant and an efficient partner to optimize your plant and application solutions.

Kenos, passion for vacuum.

index

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key legend



Stone



Wood



Glass



Metal sheet



Packaging



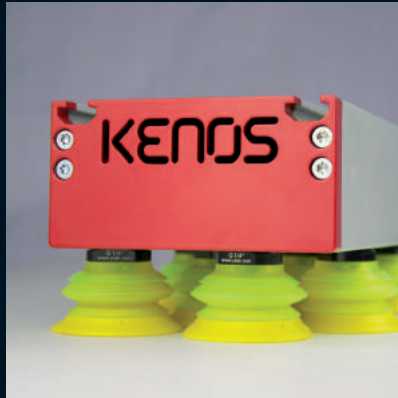
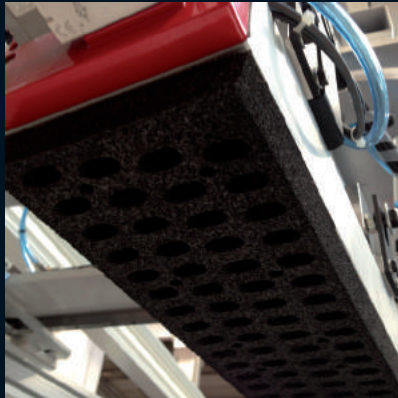
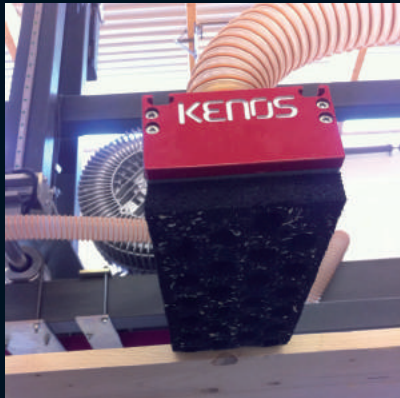
Food



Electronics



KVG series



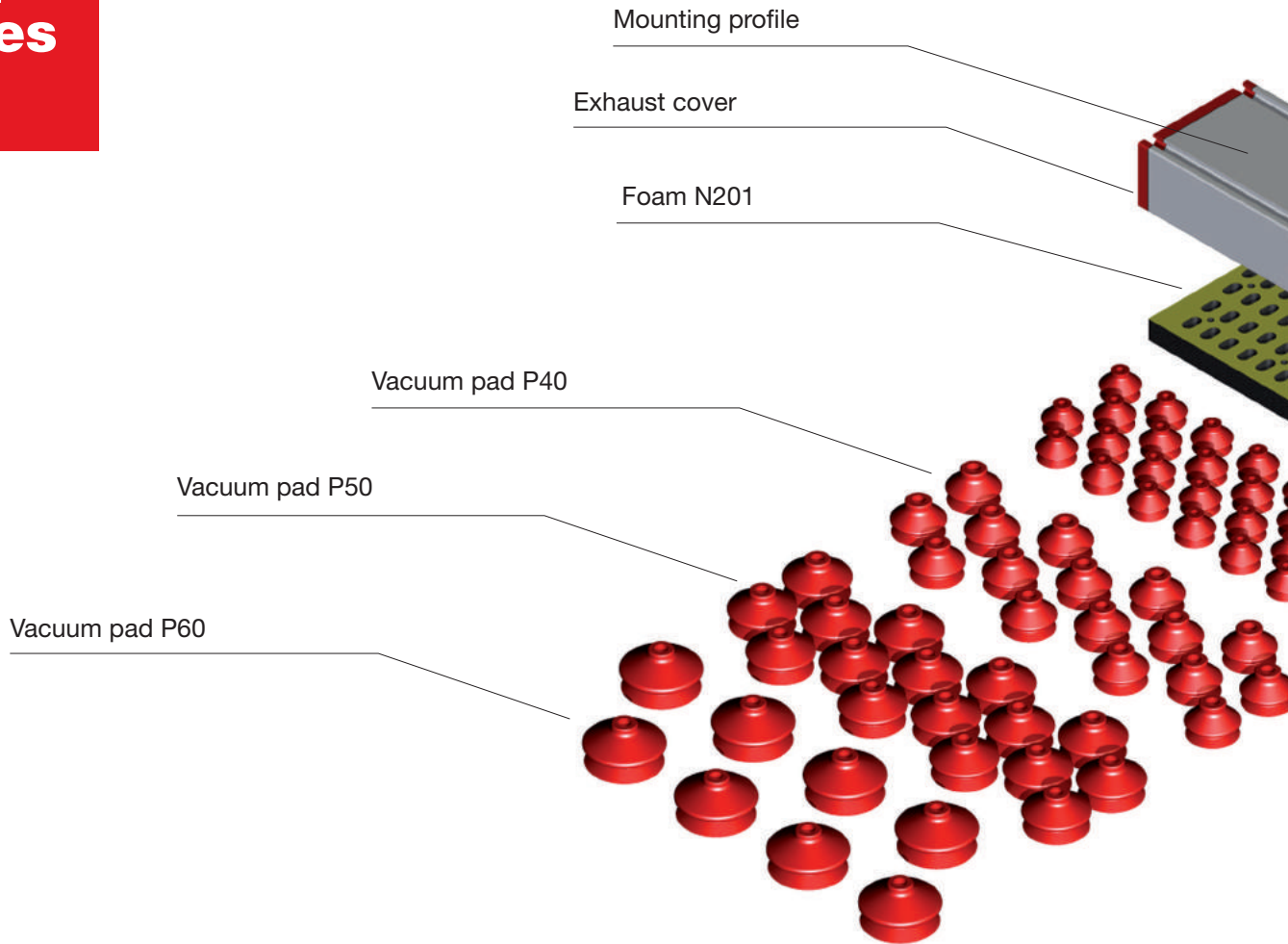
KVG series represents a flexible solution for the handling manipulation of several products with different shapes, dimensions and compactness due to the double technology available. Check valves or flow reducers can fulfill the needs of many industrial sector applications. The KVG gripping system can be equipped with integrated vacuum generation or suitable for separated vacuum generation (Pump or Side channel blower). The integrated vacuum generator is a modular multi-stage

COAX® ejector of easy maintenance. The multi-stage COAX® ejector used offers the possibility to be simply increased even after the installation if necessary. The mat of the KVG gripping system is made of a technical foam (FDA mat approved available), with different pitch holes and thickness or pads.





Assembled view

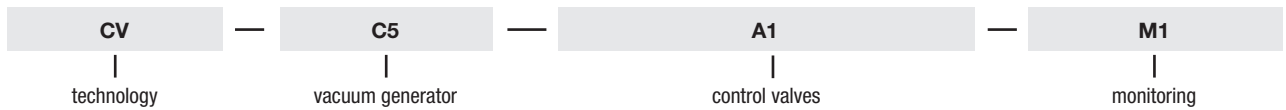
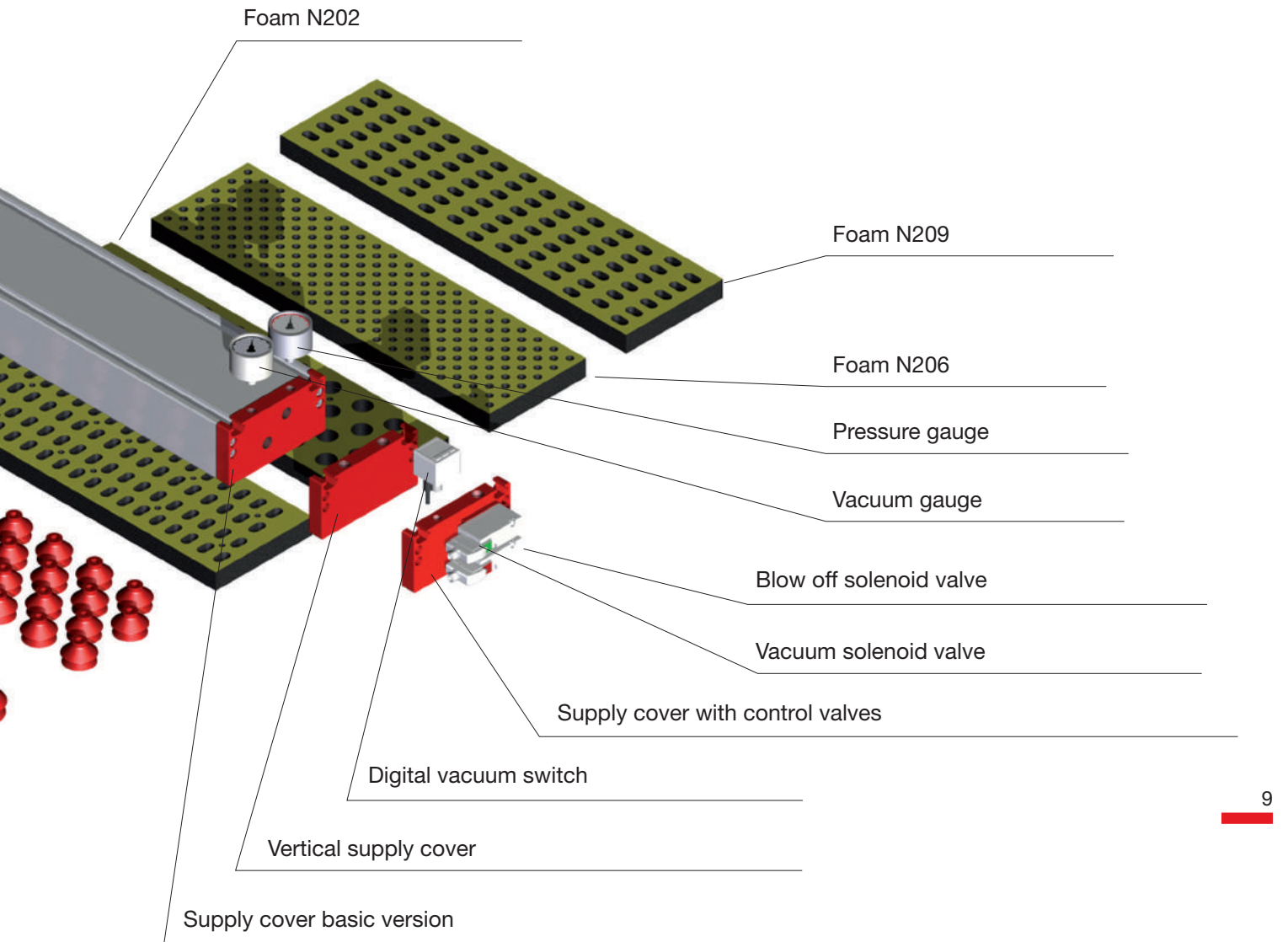


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How to order

KVG	400	120	N	2	0	2
	length mm	width mm	type	thickness/diameter mm	filter	step
	400	120	N = foam	4 = foam 40 mm	0 = without filter	1 = fine step
	600			3 = foam 30 mm	1 = with filter	2 = medium step
	800			2 = foam 20 mm		6 = extra fine step
	1000			1 = foam 10 mm		9 = longitudinal step
	1200					
	1400		P = pads	30 = pad d. 30 mm		
	1600			40 = pad d. 40 mm		
	1800			50 = pad d. 50 mm		
	2000			60 = pad d. 60 mm		





CV = check valves	C1 = 1 COAX® cartridge	V1 = EV vacuum N.C.	M1 = vacuum and pressure gauge
FR = flow reductions	C2 = 2 COAX® cartridges	V2 = EV vacuum N.C./ EV blow off N.C.	M2 = digital vacuum switch
DM = direct mounting	C3 = 3 COAX® cartridges	V3 = EV vacuum N.A.	blank = without monitoring
	C4 = 4 COAX® cartridges	V4 = EV vacuum N.A./ EV blow off N.C.	
	C5 = 5 COAX® cartridges	A1 = PV vacuum N.C.	
	C6 = 6 COAX® cartridges	A2 = PV vacuum N.C./ PV blow off N.C.	
	C7 = 7 COAX® cartridges	A3 = PV vacuum N.O.	
	C8 = 8 COAX® cartridges	A4 = PV vacuum N.O./ PV blow off N.C.	
	PU = pump	TV = vertical supply cover	
	BL = blower	blank = without control	

KVG series

Theoretic gripping force on rigid and stable surface with completely covered module, without safety factor (lbf).

	type	force at 9 -inHg	force at 12 -inHg	force at 15 -inHg	force at 18 -inHg	force at 21 -inHg
foam N201-N202	KVG400	84.5	113	141	169	197
	KVG600	127	169	211	254	296
	KVG800	169	225	282	338	395
	KVG1000	211	282	352	423	493
	KVG1200	254	338	423	507	592
	KVG1400	296	395	493	592	690
	KVG1600	338	451	564	676	789
	KVG1800	380	507	634	761	888
	KVG2000	423	564	704	845	986

foam N206	KVG400	75.5	101	126	151	176
	KVG600	113	151	189	227	264
	KVG800	151	201	252	302	353
	KVG1000	189	252	315	378	441
	KVG1200	227	302	378	453	529
	KVG1400	264	353	441	529	624
	KVG1600	302	403	504	604	705
	KVG1800	340	453	567	680	793
	KVG2000	378	504	629	755	881

	type	force at 9 -inHg	force at 12 -inHg	force at 15 -inHg	force at 18 -inHg	force at 21 -inHg
pads P30	KVG400	74.4	99.1	124	149	174
	KVG600	112	149	186	223	261
	KVG800	149	199	248	298	348
	KVG1000	186	248	310	372	434
	KVG1200	223	298	372	447	521
	KVG1400	148	198	247	296	346
	KVG1600	298	397	496	596	695
	KVG1800	335	447	558	670	782
	KVG2000	372	496	620	745	869

pads P40	KVG400	64.5	86.1	107	129	151
	KVG600	96.9	129	161	194	226
	KVG800	129	172	215	258	301
	KVG1000	161	215	269	323	377
	KVG1200	194	258	323	387	452
	KVG1400	226	301	377	452	527
	KVG1600	258	344	431	517	603
	KVG1800	290	387	484	581	678
	KVG2000	323	431	538	646	753

Theoretic gripping force on rigid and stable surface with completely covered module, without safety factor (N).

	type	force at 9 -inHg	force at 12 -inHg	force at 15 -inHg	force at 18 -inHg	force at 21 -inHg
pads P50	KVG400	98.2	131	164	197	230
	KVG600	147	197	246	295	344
	KVG800	197	262	328	393	459
	KVG1000	246	328	410	492	574
	KVG1200	295	394	492	590	689
	KVG1400	344	459	574	689	803
	KVG1600	393	525	656	787	918
	KVG1800	443	590	738	885	1033
	KVG2000	492	656	820	984	1148

pads P60	KVG400	140	187	234	281	327
	KVG600	210	281	351	421	491
	KVG800	281	374	468	561	655
	KVG1000	351	468	585	701	818
	KVG1200	421	561	701	842	982
	KVG1400	491	655	818	982	1146
	KVG1600	561	748	935	1122	1309
	KVG1800	631	842	1052	1263	1473
	KVG2000	701	935	1169	1403	1637

Replacement foams for KVG.

gripper type	foam N201	foam N211	foam N202	foam N212	foam N206
KVG400	K-90-00301	K-90-00319	K-90-00302	K-90-00320	K-90-01156
KVG600	K-90-00303	K-90-00321	K-90-00304	K-90-00322	K-90-01096
KVG800	K-90-00305	K-90-00323	K-90-00306	K-90-00324	K-90-01058
KVG1000	K-90-00307	K-90-00325	K-90-00308	K-90-00326	K-90-01070
KVG1200	K-90-00309	K-90-00327	K-90-00310	K-90-00328	K-90-01160
KVG1400	K-90-00311	K-90-00329	K-90-00312	K-90-00330	K-90-01067
KVG1600	K-90-00313	K-90-00331	K-90-00314	K-90-00332	K-90-01161
KVG1800	K-90-00315	K-90-00333	K-90-00316	K-90-00334	K-90-01162
KVG2000	K-90-00317	K-90-00335	K-90-00318	K-90-00336	K-90-01163

Replacement pads for KVG.

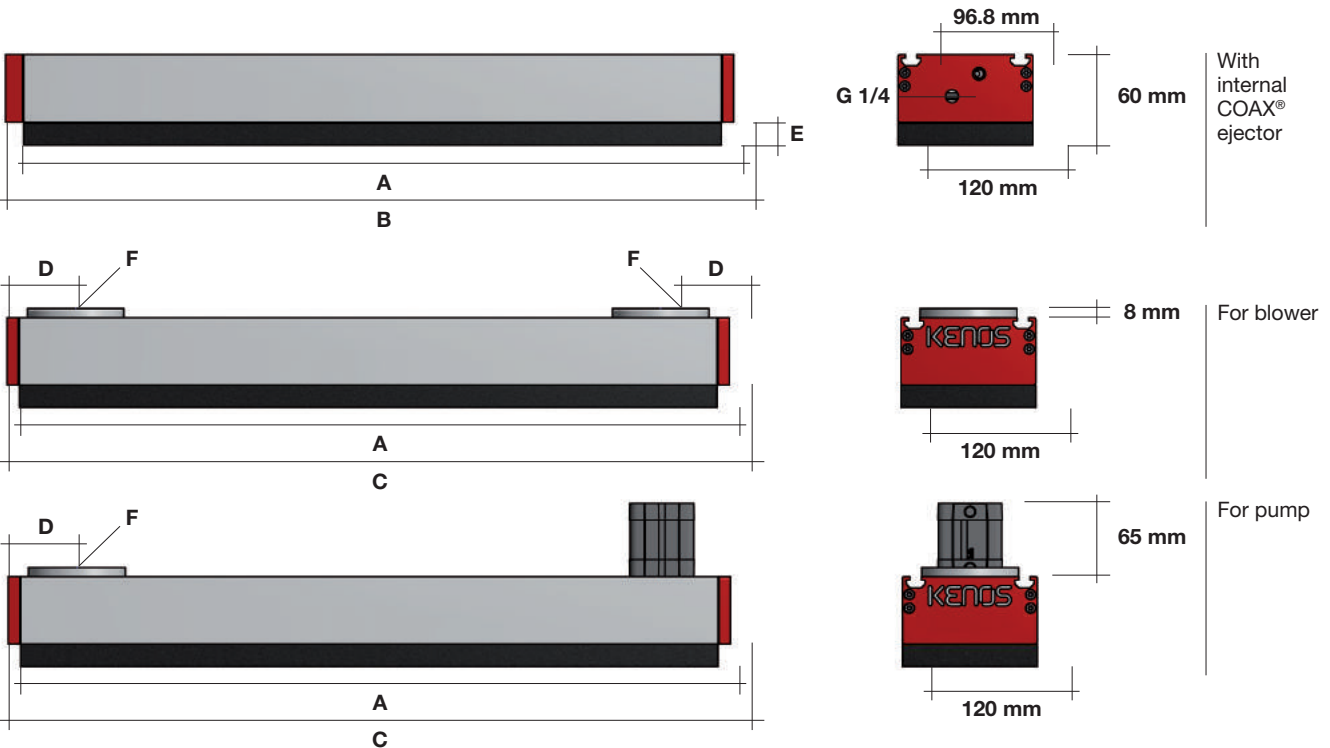
diameter (mm)	code	type
30	K-02-00021	1.5 bellows PU
40	K-02-00022	1.5 bellows PU
50	K-02-00023	1.5 bellows PU
60	K-02-00024	1.5 bellows PU



Air consumption/vacuum flow data related to number of COAX® ejectors.



type	air consumption at 72.5 psi (scfm)	vacuum flow (scfm)
C1	3.18	12.7
C2	6.35	25.6
C3	9.53	38.3
C4	12.7	51.1



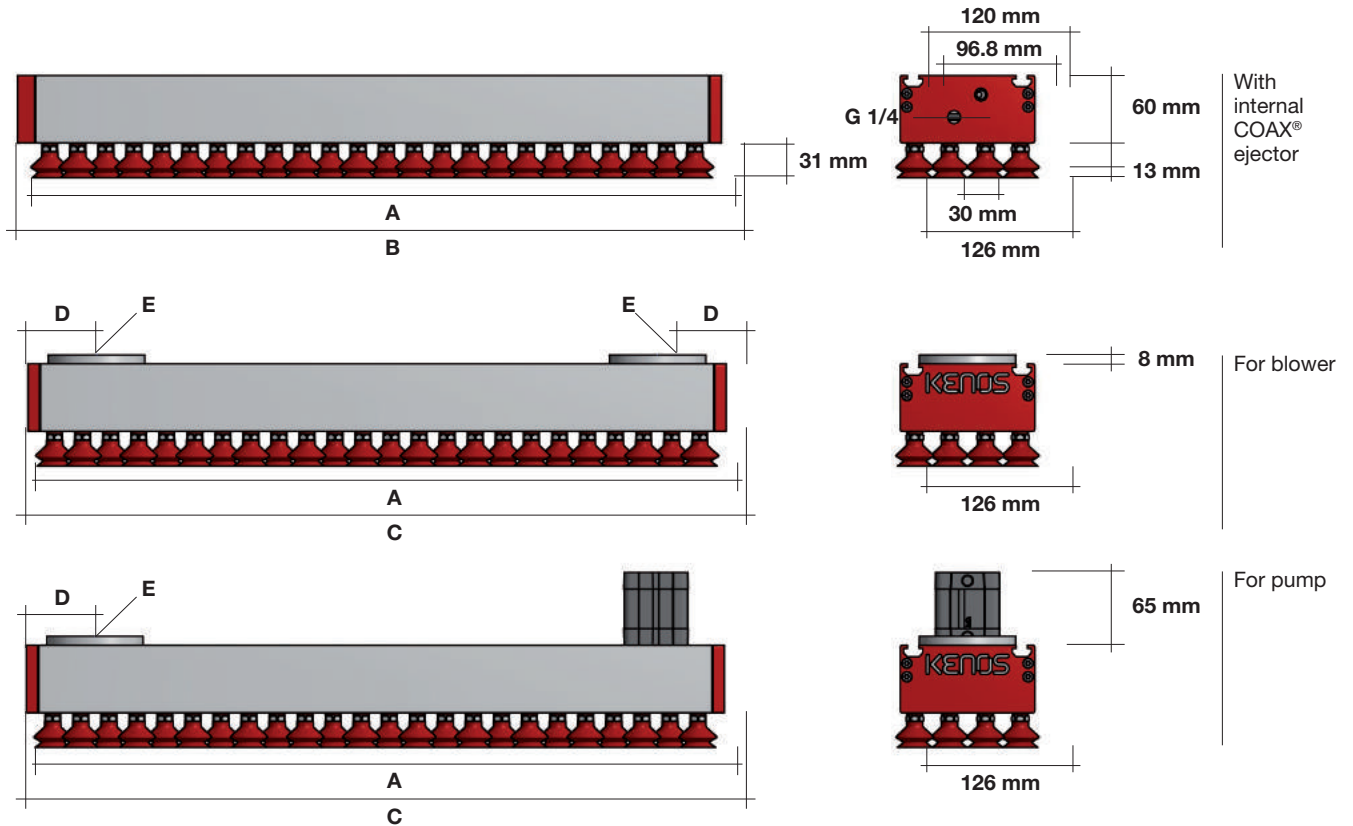
ATTENTION: for type N206, dimensions A, B and C are 10 mm shorter.



length (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F	weight (lb)	weight (lb)	weight (lb)	weight (lb)	weight (lb)	weight (lb)
							COAX® ejector CV	COAX® ejector FR	blower CV	blower FR	pump CV	pump FR
KVG400	420	447	442	61	10/20/30/40	G 1-1/4"	9.92	7.49	9.26	6.83	9.48	7.05
KVG600	620	647	642	61	10/20/30/40	G 1-1/4"	13.7	10.6	13.0	9.90	13.2	10.1
KVG800	820	847	842	91	10/20/30/40	G 2"	17.6	13.7	17.0	13.0	17.2	13.2
KVG1000	1020	1047	1042	91	10/20/30/40	G 2"	21.6	16.3	20.9	15.6	20.9	15.9
KVG1200	1220	1247	1242	91	10/20/30/40	G 2"	25.6	18.7	24.9	18.1	24.7	18.3
KVG1400	1420	1447	1442	91	10/20/30/40	G 2"	29.1	21.2	27.8	19.8	28.4	20.1
KVG1600	1620	1647	1642	91	10/20/30/40	G 2"	33.1	23.6	31.7	22.3	32.2	22.5
KVG1800	1820	1847	1842	91	10/20/30/40	G 2"	37.0	26.0	35.7	24.7	35.7	24.9
KVG2000	2020	2047	2042	91	10/20/30/40	G 2"	41.0	28.7	39.7	27.3	39.5	27.8

Air consumption/vacuum flow data related to number of COAX® ejectors.

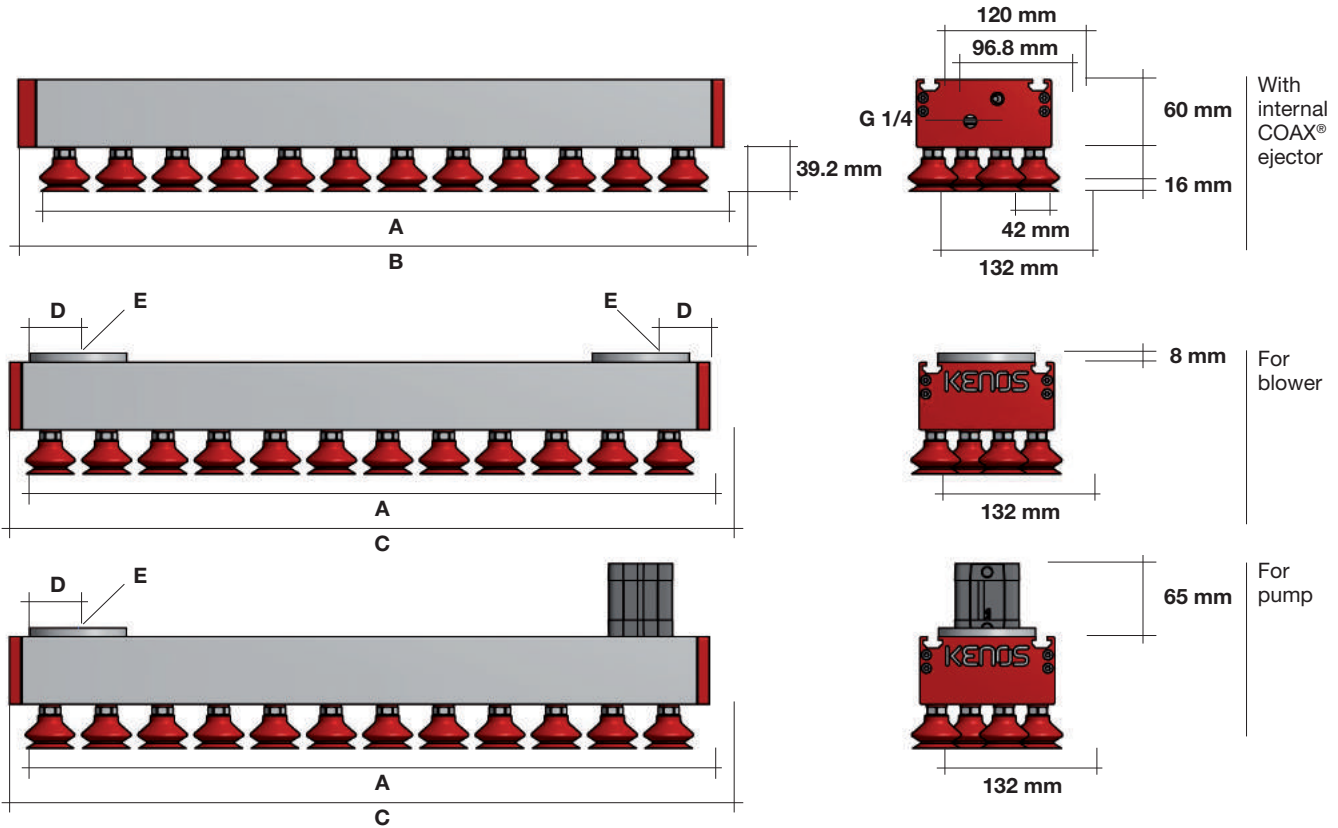
type	air consumption at 72.5 psi (scfm)	vacuum flow (scfm)
C5	15.9	63.9
C6	19.1	76.7
C7	22.2	89.5
C8	25.4	102



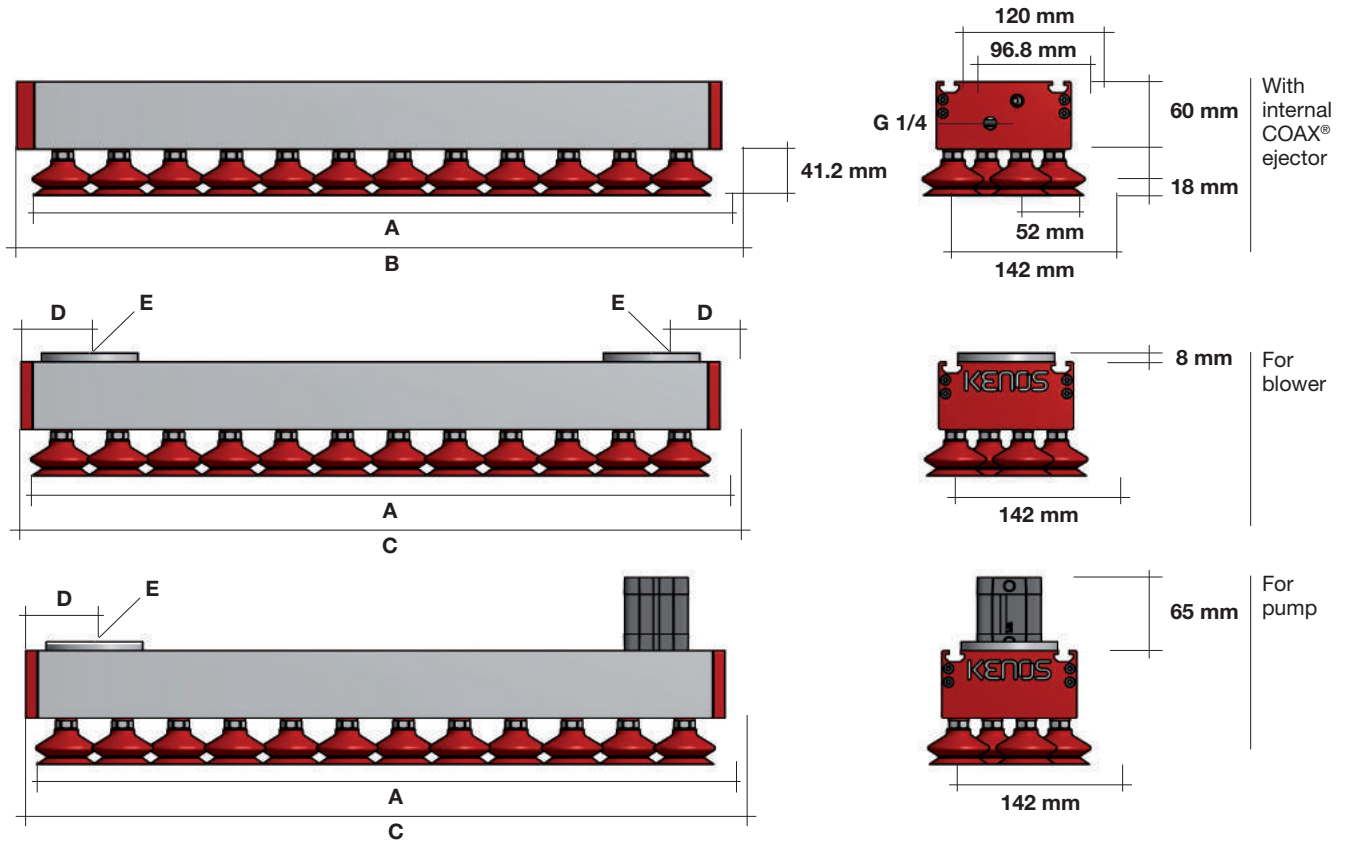
length (mm)	A	B	C	D	E	number of pads	weight (lb) COAX® ejector CV	weight (lb) COAX® ejector FR	weight (lb) blower CV	weight (lb) blower FR	weight (lb) pump CV	weight (lb) pump FR
	(mm)	(mm)	(mm)	(mm)	(mm)							
KVG400	407	427	422	61	G 1-1/4"	32	10.1	7.49	9.48	6.83	9.70	7.05
KVG600	607	627	622	61	G 1-1/4"	48	14.3	11.0	13.7	10.4	13.9	10.6
KVG800	807	827	822	91	G 2"	64	18.5	14.5	17.9	13.9	18.1	14.1
KVG1000	1007	1027	1022	91	G 2"	80	22.7	18.1	22.3	17.4	22.5	17.6
KVG1200	1207	1227	1222	91	G 2"	96	26.9	21.6	25.6	20.3	25.8	20.5
KVG1400	1407	1427	1422	91	G 2"	112	31.1	25.1	29.8	23.8	30.0	24.0
KVG1600	1607	1627	1622	91	G 2"	128	35.3	28.7	33.9	27.3	34.2	27.6

pads
P30

KVG series

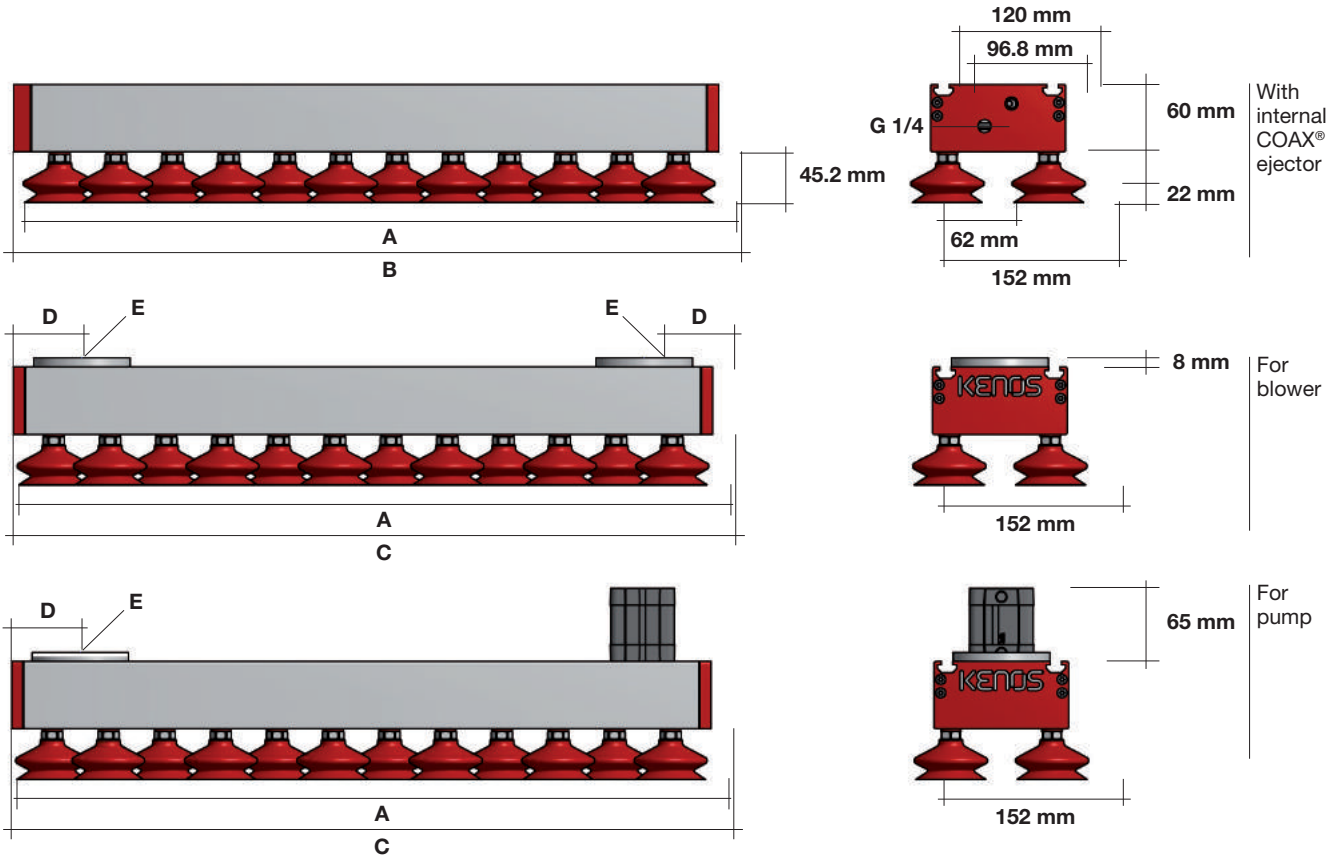


pads P40	length	A	B	C	D	E	number of	weight (lb)	weight (lb)	weight (lb)	weight (lb)	weight (lb)	weight (lb)
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	pads	COAX® ejector CV	COAX® ejector FR	blower CV	blower FR	pump CV	pump FR
KVG400	392	427	422	61	G 1-1/4"	16	10.4	8.15	9.70	7.27	9.92	7.49	
KVG600	592	627	622	61	G 1-1/4"	24	14.5	11.2	13.9	10.6	14.1	10.8	
KVG800	792	827	822	91	G 2"	32	18.7	14.3	18.1	13.7	18.3	13.9	
KVG1000	992	1027	1022	91	G 2"	40	22.9	17.4	22.3	16.8	22.5	17.0	
KVG1200	1192	1227	1222	91	G 2"	48	27.1	20.5	26.4	19.8	26.7	20.1	
KVG1400	1392	1427	1422	91	G 2"	56	31.3	23.6	30.0	22.3	30.2	22.5	
KVG1600	1592	1627	1622	91	G 2"	64	35.5	26.7	34.2	25.3	34.4	25.6	
KVG1800	1792	1827	1822	91	G 2"	72	39.7	29.5	38.3	28.2	38.6	28.4	
KVG2000	1992	2027	2022	91	G 2"	80	43.9	32.8	42.5	31.5	42.8	31.7	



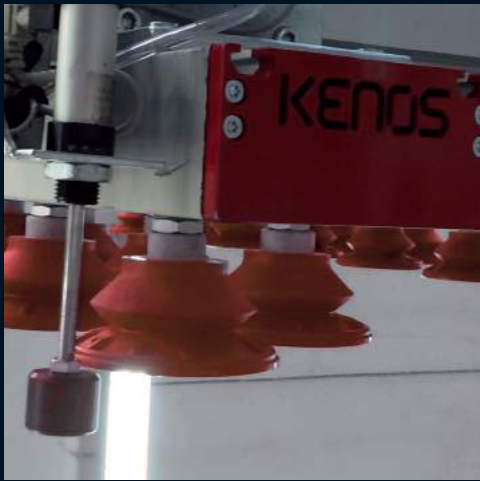
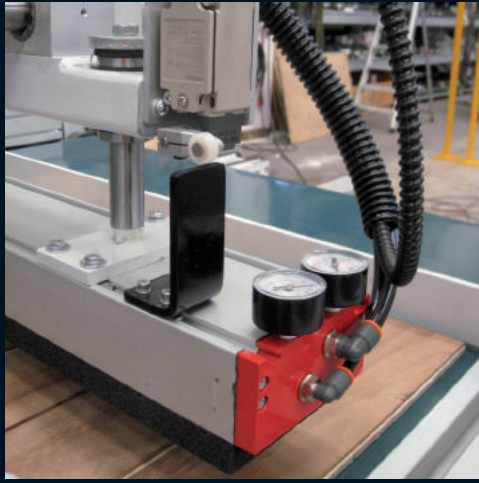
pads P50	length	A	B	C	D	E	number of	weight (lb)	weight (lb)	weight (lb)	weight (lb)	weight (lb)	weight (lb)
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	pads	COAX® ejector CV	COAX® ejector FR	blower CV	blower FR	pump CV	pump FR
KVG400	402	427	422	61	G 1-1/4"	16	10.8	8.82	10.1	8.15	10.4	8.38	
KVG600	602	627	622	61	G 1-1/4"	24	15.4	12.1	14.8	11.5	15.0	11.7	
KVG800	802	827	822	91	G 2"	32	20.1	15.4	19.4	14.8	19.6	15.0	
KVG1000	1002	1027	1022	91	G 2"	40	24.7	18.7	24.0	18.1	24.2	18.3	
KVG1200	1202	1227	1222	91	G 2"	48	29.3	22.0	28.7	21.4	28.9	21.6	
KVG1400	1402	1427	1422	91	G 2"	56	33.9	25.3	32.6	24.0	32.8	24.2	
KVG1600	1602	1627	1622	91	G 2"	64	38.6	28.7	37.2	27.3	37.5	27.6	
KVG1800	1802	1827	1822	91	G 2"	72	43.2	32.0	41.9	30.6	42.1	30.9	
KVG2000	2002	2027	2022	91	G 2"	80	47.8	35.3	46.5	33.9	46.7	34.2	

KVG series

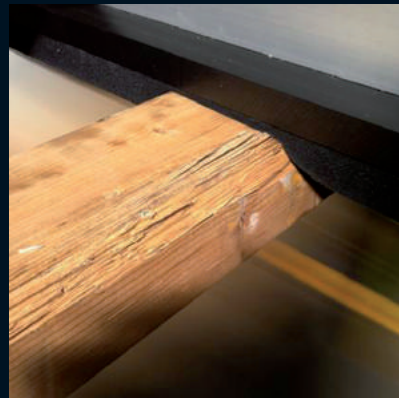


pads
P60

length (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	number of pads	weight (lb) COAX® ejector CV	weight (lb) COAX® ejector FR	weight (lb) blower CV	weight (lb) blower FR	weight (lb) pump CV	weight (lb) pump FR
KVG400	412	427	422	61	G 1-1/4"	8	10.4	8.38	9.70	7.71	9.92	7.93
KVG600	612	627	622	61	G 1-1/4"	12	14.5	11.5	13.9	10.8	14.1	11.0
KVG800	812	827	822	91	G 2"	16	18.7	14.5	18.1	13.9	18.3	14.1
KVG1000	1012	1027	1022	91	G 2"	20	22.9	17.6	22.3	17.0	22.5	17.2
KVG1200	1212	1227	1222	91	G 2"	24	27.1	20.7	26.4	20.1	26.7	20.3
KVG1400	1412	1427	1422	91	G 2"	28	31.3	23.8	30.0	22.5	30.2	22.7
KVG1600	1612	1627	1622	91	G 2"	32	35.5	26.9	34.2	25.6	34.4	25.8
KVG1800	1812	1827	1822	91	G 2"	36	39.7	30.0	38.3	28.7	38.6	28.9
KVG2000	2012	2027	2022	91	G 2"	40	43.9	33.1	42.5	31.7	42.8	32.0



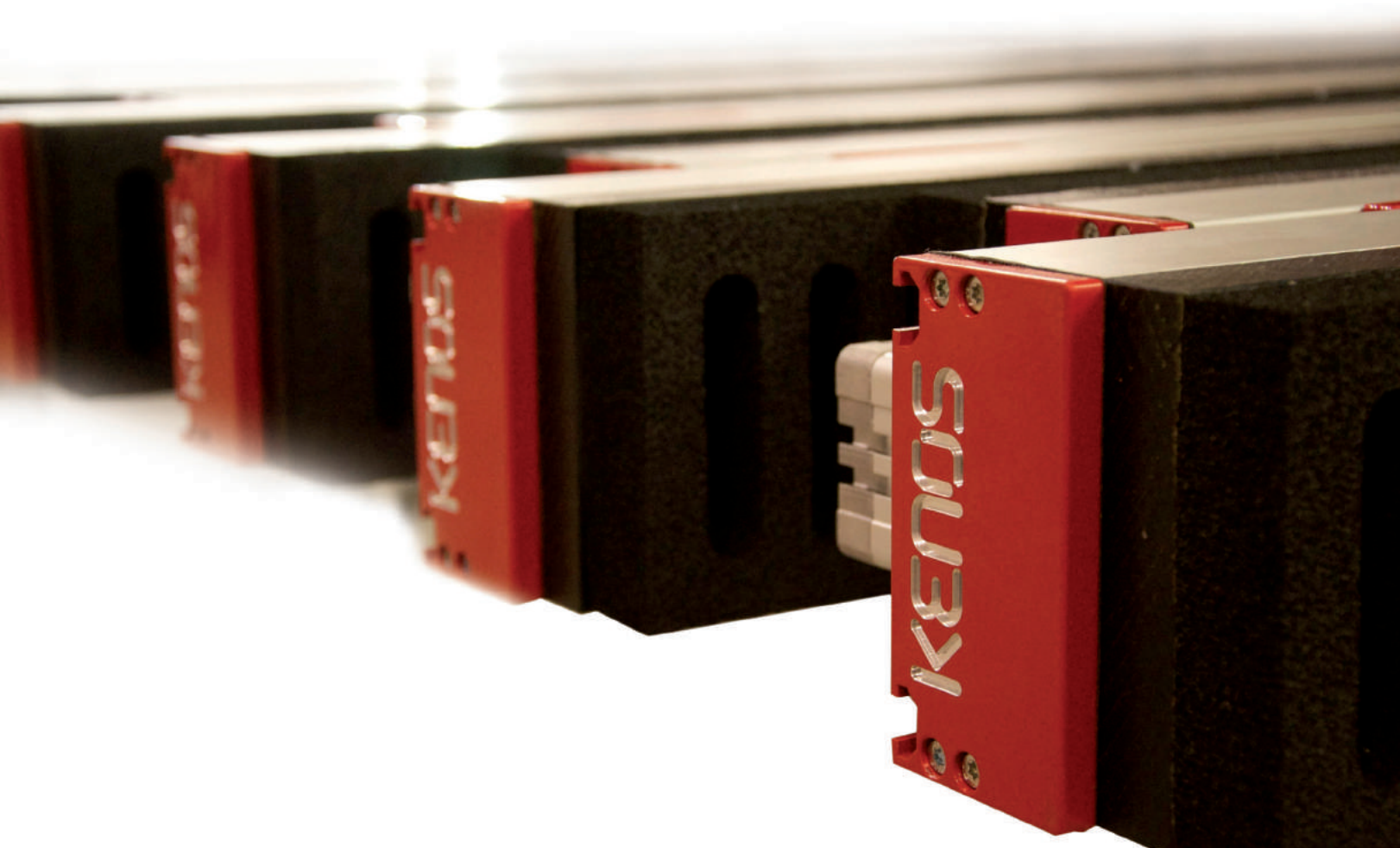
KHVG
series






KHVG series products, Kenos Heavy Vacuum Gripper, are designed for heavy duty applications in the wood and stone industries. KHVG gripping systems are suitable for handling groups of sawn timber, heavy planking, raw wood and materials for building, such as bricks. They are also useful to handle very long and arcuate workpieces. KHVG systems are prepared for external vacuum generation with side channel blower. Provided with shutter check valve technology with low sensibility to the dust.

Advantages:

- End line automation
- Load and unload machines
- Vacuum handling of wood
- Handling of bricks



How to order

KHVG	800	120	N	3	35	BL
	length mm	width mm	type	thickness/diameter mm	step	vacuum generator
	800	120	N = foam	4 = foam 40 mm	35 = step 35 mm	BL = blower
	1000	210		3 = foam 30 mm	40 = step 40 mm	
	1200			2 = foam 20 mm		
	1400					

KHVG series

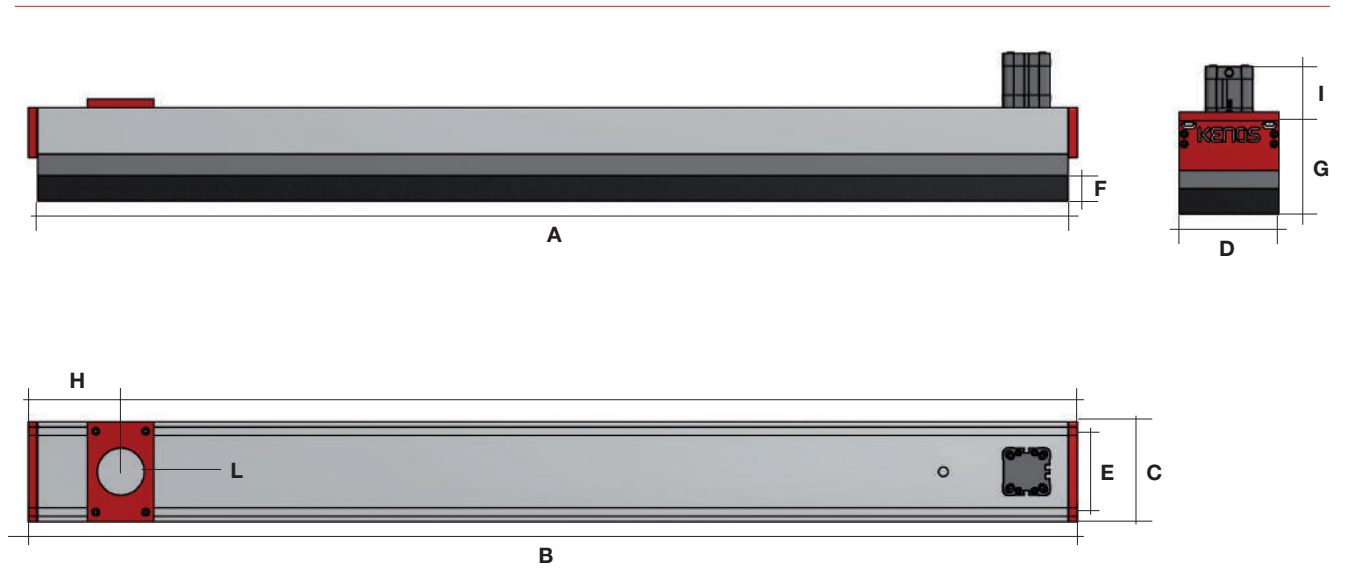
Theoretic gripping force on rigid and stable surface with completely covered module, without safety factor (lbf).

	type	force at 9 -inHg	force at 12 -inHg	force at 15 -inHg	force at 18 -inHg	force at 21 -inHg
type 120	KHVG800	221	294	368	442	515
	KHVG1000	278	371	464	557	649
	KHVG1200	336	448	560	672	784
	KHVG1400	365	486	608	730	851
type 210	KHVG800	384	512	640	768	896
	KHVG1000	480	640	800	960	1120
	KHVG1200	576	768	960	1152	1344
	KHVG1400	634	845	1057	1268	1479

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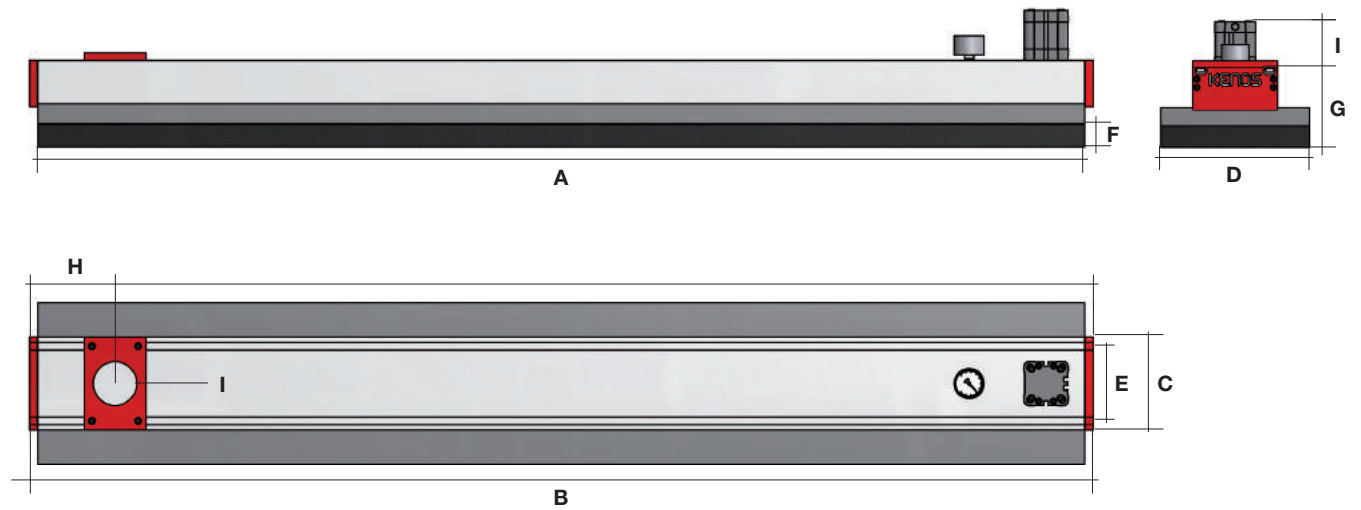
Replacement foams for KHVG.

	type	code	description
type 120	KHVG800-120	K-90-01218	FOAM-KHVG800-120-N335
	KHVG1000-120	K-90-01217	FOAM-KHVG1000-120-N335
	KHVG1200-120	K-90-01212	FOAM-KHVG1200-120-N335
	KHVG1400-120	K-90-01216	FOAM-KHVG1400-120-N335
type 210	KHVG800-210	K-90-01086	FOAM-KHVG800-210-N340
	KHVG1000-210	K-90-01171	FOAM-KHVG1000-210-N340
	KHVG1200-210	K-90-01170	FOAM-KHVG1200-210-N340
	KHVG1400-210	K-90-01100	FOAM-KHVG1400-210-N340



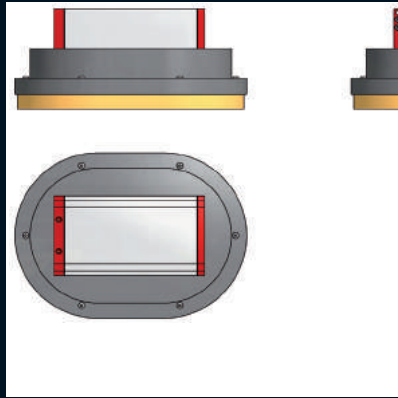
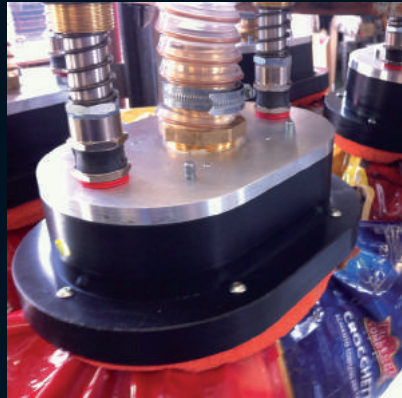
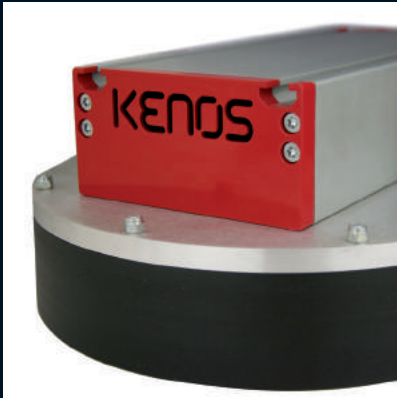
	type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	weight (lb)
type 120	KHVG800-120	840	862	120	120	96.8	30	112	111	65	G 2"	19.0
	KHVG1000-120	1040	1062	120	120	96.8	30	112	111	65	G 2"	24.2
	KHVG1200-120	1240	1262	120	120	96.8	30	112	111	65	G 2"	29.5
	KHVG1400-120	1360	1382	120	120	96.8	30	112	111	65	G 2"	36.1

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	type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	weight (lb)
type 210	KHVG800-210	840	862	120	210	96.8	30	112	111	65	G 2"	31.3
	KHVG1000-210	1040	1062	120	210	96.8	30	112	111	65	G 2"	36.6
	KHVG1200-210	1240	1262	120	210	96.8	30	112	111	65	G 2"	41.9
	KHVG1400-210	1360	1382	120	210	96.8	30	112	111	65	G 2"	48.5

KSG
series



KSG series products, Kenos Sack Gripper, are suitable to handle sacks with different shapes, weights and materials. The specific knowhow in this segment, has driven us to develop systems dedicated to all the different applications of this industry. The integrated and modular vacuum generation makes the KSG flexible and reliable. The version for external vacuum generator is available. We have version for palletisation or de-palletization.

Applications:

- End line handling
- Palletization systems
- De-palletization systems

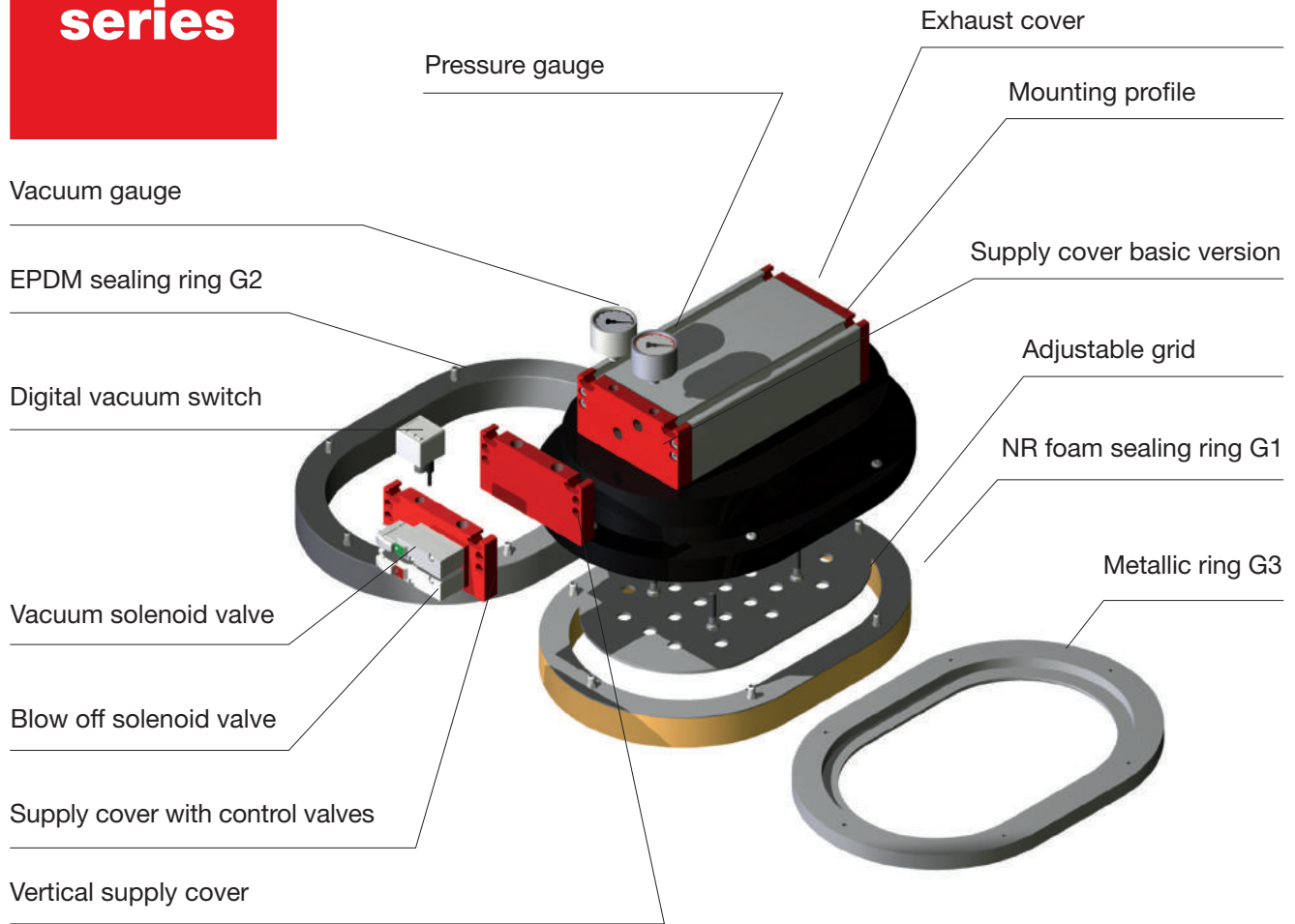
Characteristics:

- Vacuum detection
- Easy maintenance
- Low energy consumption
- Low weight
- Easy mounting
- Absence of consumable parts (G3 version)





Assembled view



How to order

KSG	E	310-210	G3
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shape

dimensions

sealing ring



E = with sealing ring

450-250

G1 = NR sealing ring

350-250

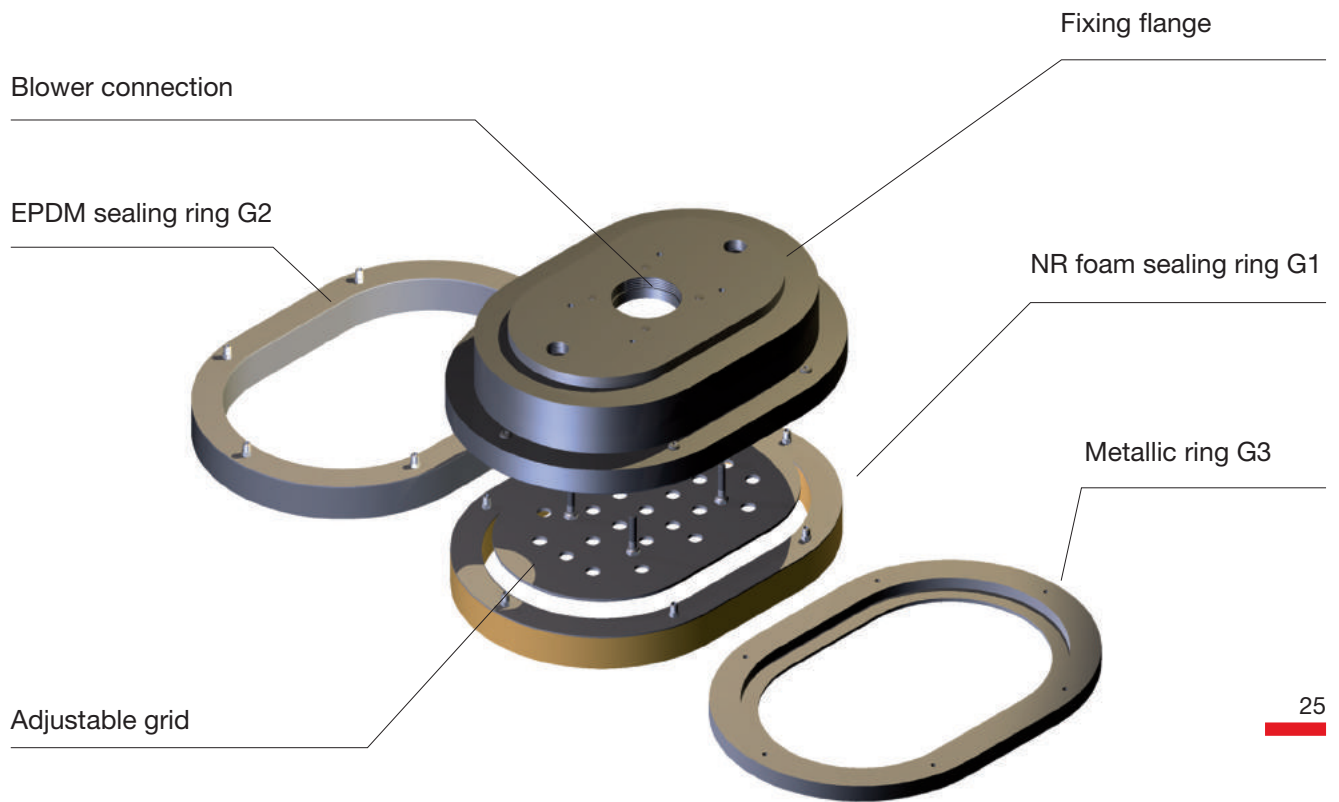
G2 = epdm sealing ring



310-210

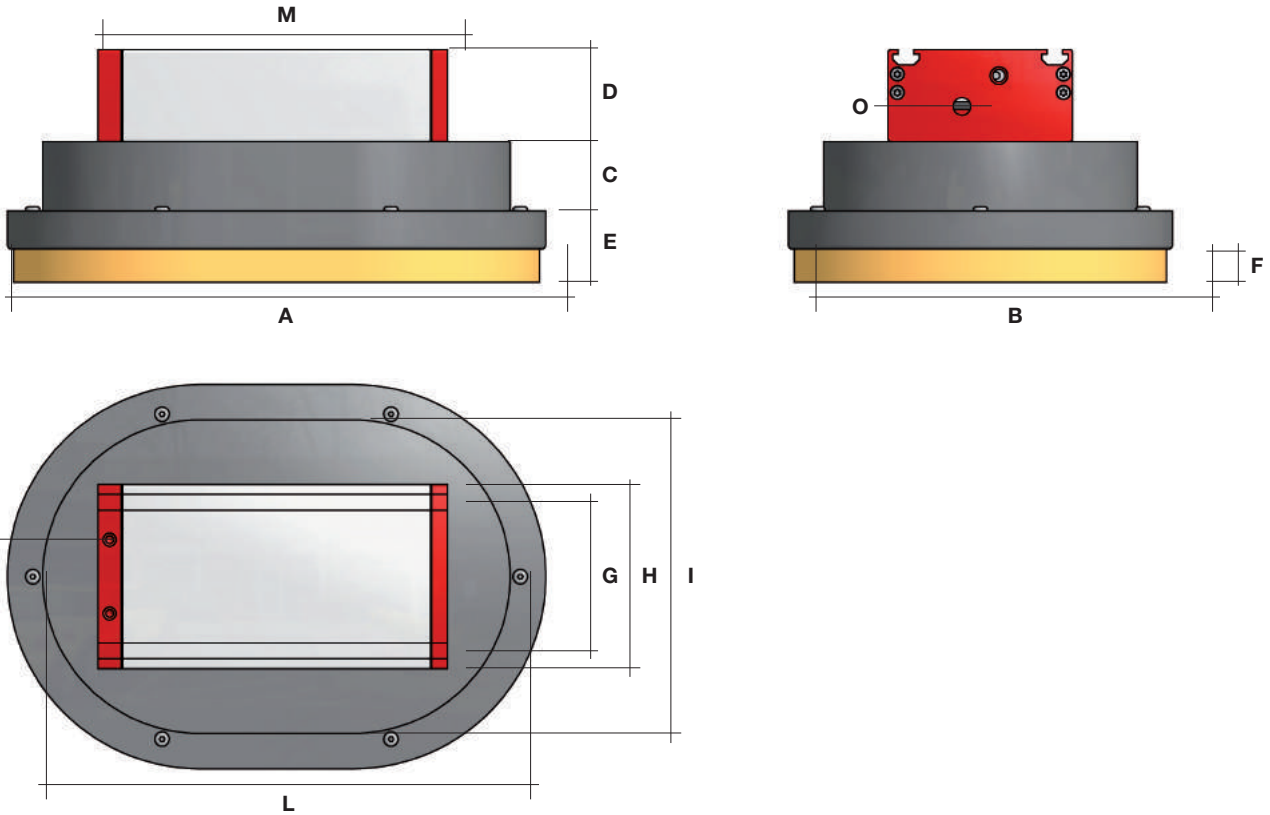
G3 = metal ring

260-180



C3	V1	M1
vacuum generator	control valves	monitoring
C1 = 1 COAX® cartridge	V1 = EV vacuum N.C.	M1 = vacuum and pressure gauge
C2 = 2 COAX® cartridges	V2 = EV vacuum N.C./ EV blow off N.C.	M2 = digital vacuum switch
C3 = 3 COAX® cartridges	V3 = EV vacuum N.O.	blank = without monitoring
C4 = 4 COAX® cartridges	V4 = EV vacuum N.O./ EV blow off N.C.	
C5B = 5 COAX® cartridges	A1 = PV vacuum N.C.	
C6B = 6 COAX® cartridges	A2 = PV vacuum N.C./ PV blow off N.C.	
C7B = 7 COAX® cartridges	A3 = PV vacuum N.O.	
C8B = 8 COAX® cartridges	A4 = PV vacuum N.O./ PV blow off N.C.	
BL = blower	TV = vertical supply cover	
	FX = flange (only with BL type)	
	blank = without control	

KSG series



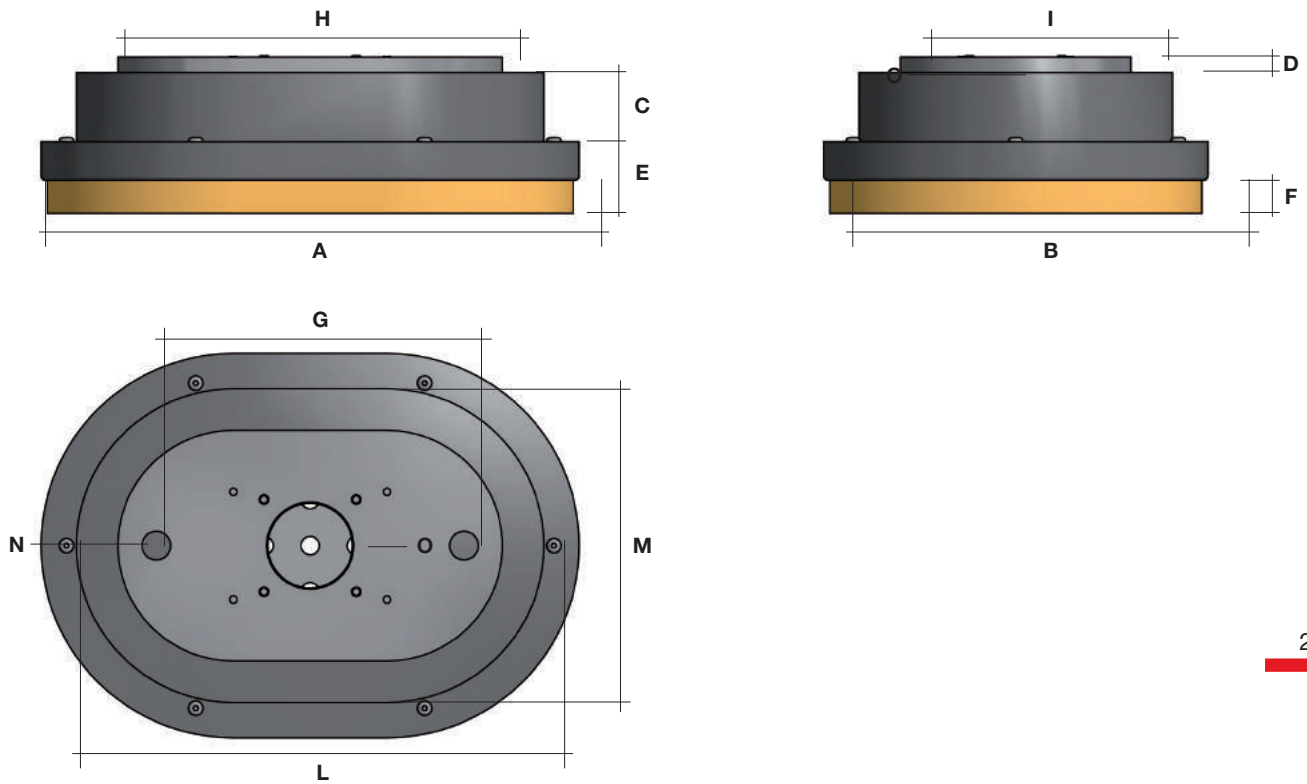
26

series
KSG

type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	M (mm)	N (mm)	O (mm)	weight (lb)
KSG-E-260-180	260	180	45	60	46.5	21.5	96.8	120	134	214	227	G 1/8"	G 1/4"	7.93
KSG-E-310-210	310	210	45	60	46.5	21.5	96.8	120	164	264	227	G 1/8"	G 1/4"	10.1
KSG-E-350-250	350	250	45	60	46.5	21.5	96.8	120	204	304	227	G 1/8"	G 1/4"	11.7
KSG-E-400-250	400	250	45	60	46.5	21.5	96.8	120	204	354	227	G 1/8"	G 1/4"	13.2

Air consumption/vacuum flow data related to number of COAX® ejectors.

type	air consumption at 72.5 psi (scfm)	vacuum flow (scfm)
C1	3.18	12.7
C2	6.35	25.6
C3	9.53	38.3
C4	12.7	51.1
C5	15.9	63.9
C6	19.1	76.7
C7	22.2	89.5
C8	25.4	102



series
KSG/BL

type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	M (mm)	N (mm)	O (mm)	weight (lb)
KSG-E-260-180	260	180	45	10	46.5	21.5	160	214	134	214	134	G 1/2"	G 1-1/2"	5.5
KSG-E-310-210	310	210	45	10	46.5	21.5	200	250	150	264	164	G 1/2"	G 2"	7.5
KSG-E-350-250	350	250	45	10	46.5	21.5	200	250	150	304	204	G 1/2"	G 2"	9.0
KSG-E-400-250	400	250	45	10	46.5	21.5	200	250	150	354	204	G 1/2"	G 2"	9.9

Replacement rings for KSG.



code	code	description
ATC-VEN-KSG-E-280-180-G1	K-30-00006	sealing ring NR foam
ATC-VEN-KSG-E-280-180-G2	K-30-00009	sealing ring in epdm
ATC-VEN-KSG-E-310-210-G1	K-30-01058	sealing ring NR foam
ATC-VEN-KSG-E-310-210-G2	K-30-01059	sealing ring in epdm
ATC-VEN-KSG-E-350-250-G1	K-30-01032	sealing ring NR foam
ATC-VEN-KSG-E-350-250-G2	K-30-01045	sealing ring in epdm
ATC-VEN-KSG-E-400-250-G1	K-30-01056	sealing ring NR foam
ATC-VEN-KSG-E-400-250-G2	K-30-01057	sealing ring in epdm

KBC
series



KBC series products, Kenos Bag Cup, born from the need of handling bags in the food industry, but, are also suitable in handling bags, small sacks or flow packs, that can be filled with liquid products. In KBC vacuum gripping systems, the integrated and modular COAX® vacuum cartridge gives the module flexibility. A version for external vacuum generation is available. A side channel blower is used when the application condition suggest it.

Applications:

- Packaging systems
- Handling machines
- End line automation

Characteristics:

- Vacuum detection
- Easy maintenance
- Low energy consumption
- Low weight
- Easy mounting
- Absence of consumable parts





Assembled view

Cup

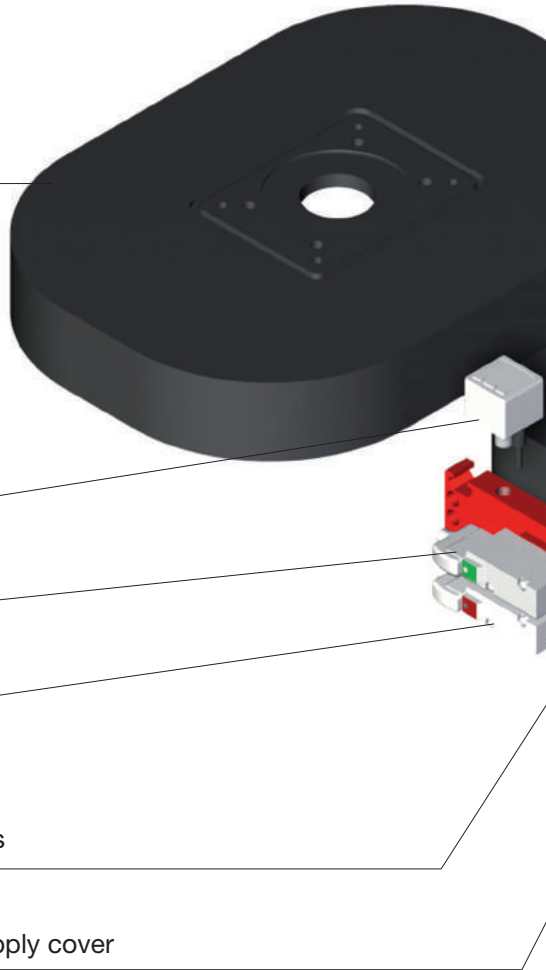
Vacuum digital switch

Vacuum solenoid valve

Blow off solenoid valve

Supply cover with control valves

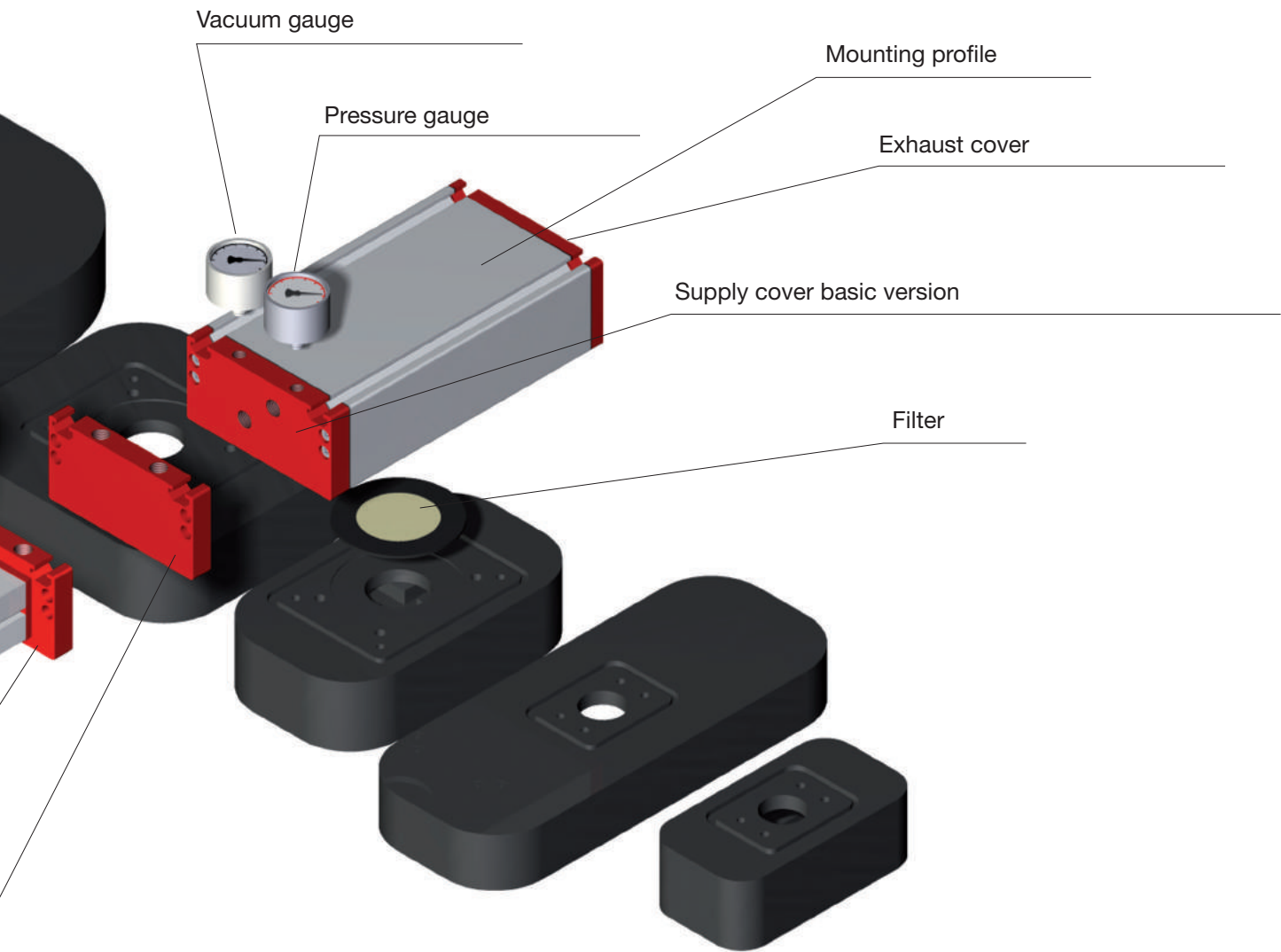
Vertical supply cover



30

How to order

KBC	200	—	200	—	120
	profile length mm		cup length mm		cup width mm
	200		150		80
			200		100
			200		120
			200		180
			250		120
			300		120
			300		180
			350		150
			350		180
			350		250



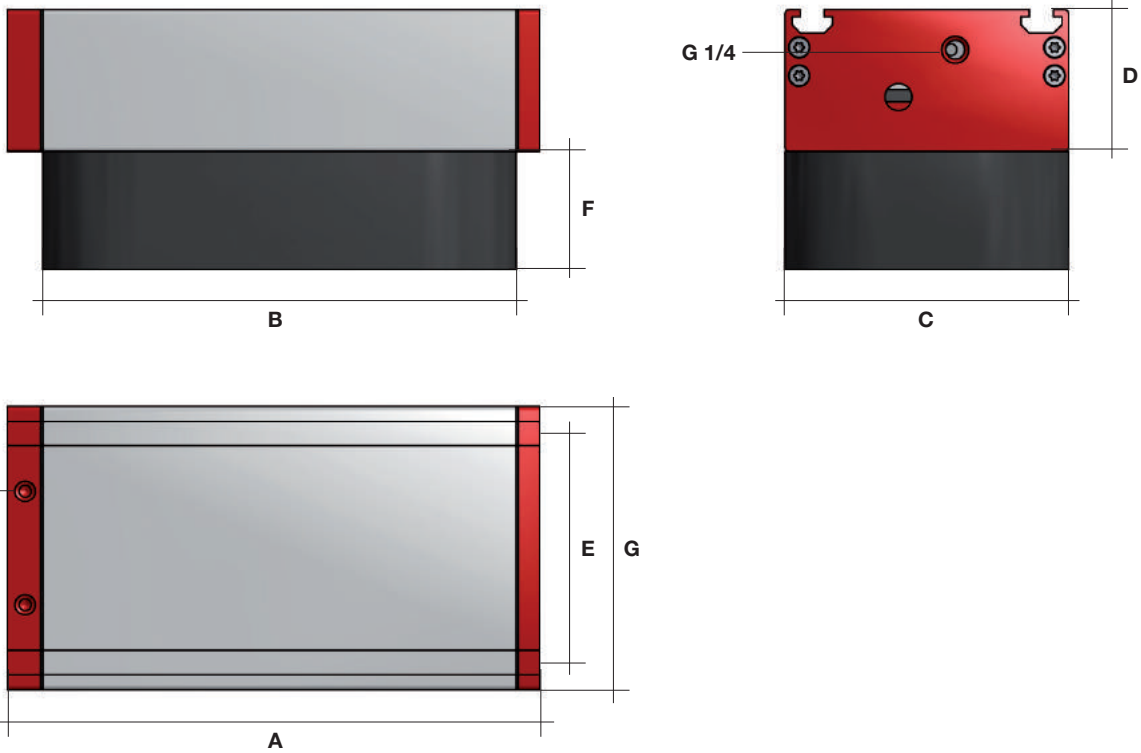
C5	V1	M1
vacuum generator	control valves	monitoring
C1 = 1 COAX® cartridge	V1 = EV vacuum N.C.	M1 = vacuum and pressure gauge
C2 = 2 COAX® cartridges	V2 = EV vacuum N.C./ EV blow off N.C.	M2 = digital vacuum switch
C3 = 3 COAX® cartridges	V3 = EV vacuum N.O.	blank = without monitoring
C4 = 4 COAX® cartridges	V4 = EV vacuum N.O./ EV blow off N.C.	
C5B = 5 COAX® cartridges	A1 = PV vacuum N.C.	
C6B = 6 COAX® cartridges	A2 = PV vacuum N.C./ PV blow off N.C.	
C7B = 7 COAX® cartridges	A3 = PV vacuum N.O.	
C8B = 8 COAX® cartridges	A4 = PV vacuum N.O./ PV blow off N.C.	
BL = blower	TV = vertical supply cover	
	blank = without control	

KBC series

Air consumption/vacuum flow data related to number of COAX® ejectors.

type	air consumption at 72.5 psi (scfm)	vacuum flow (scfm)
C1	90.0	360
C2	180	724
C3	270	1086
C4	360	1448
C5	450	1810
C6	540	2172
C7	630	2534
C8	720	2896

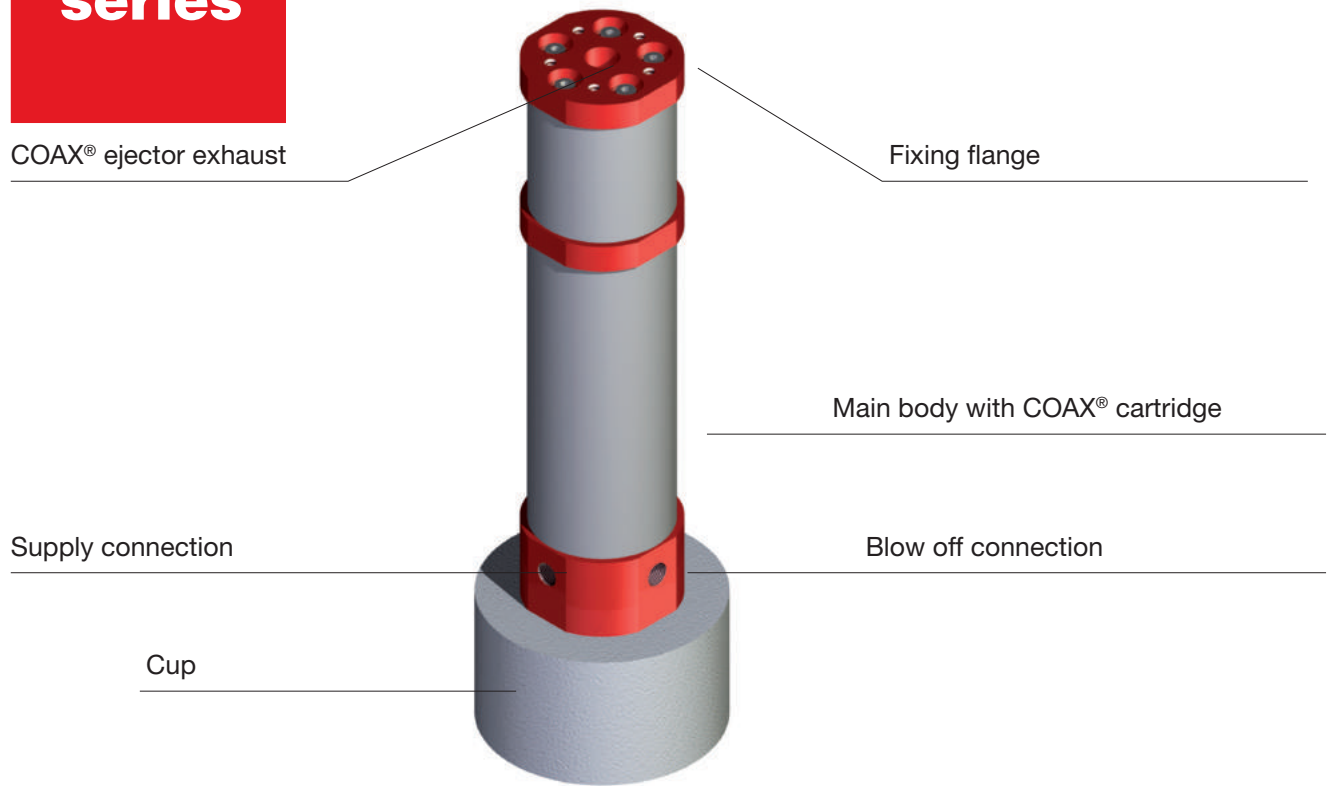
32



type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	weight (lb)
KBC200-BC150-80	225	150	80	60	96.8	50	120	G 1/8"	G 1/4"	5.07
KBC200-BC200-100	225	200	100	60	96.8	50	120	G 1/8"	G 1/4"	5.51
KBC200-BC200-120	225	200	120	60	96.8	50	120	G 1/8"	G 1/4"	5.73
KBC200-BC200-180	225	200	180	60	96.8	50	120	G 1/8"	G 1/4"	6.39
KBC200-BC250-120	225	250	250	60	96.8	50	120	G 1/8"	G 1/4"	5.95
KBC200-BC300-120	225	300	120	60	96.8	40	120	G 1/8"	G 1/4"	5.95
KBC200-BC300-180	225	300	180	60	96.8	50	120	G 1/8"	G 1/4"	7.49
KBC200-BC350-150	225	350	150	60	96.8	50	120	G 1/8"	G 1/4"	7.49
KBC200-BC350-180	225	350	180	60	96.8	50	120	G 1/8"	G 1/4"	8.38
KBC200-BC350-250	225	350	250	60	96.8	50	120	G 1/8"	G 1/4"	9.04

KBC₅₀ series

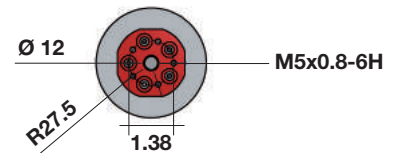
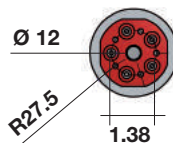
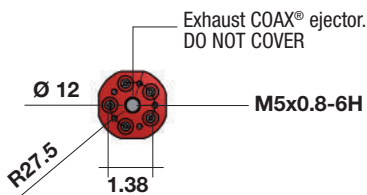
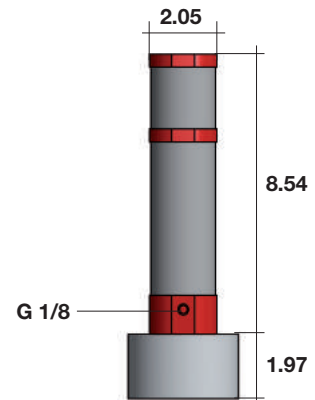
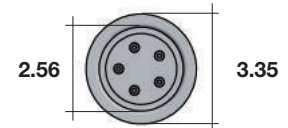
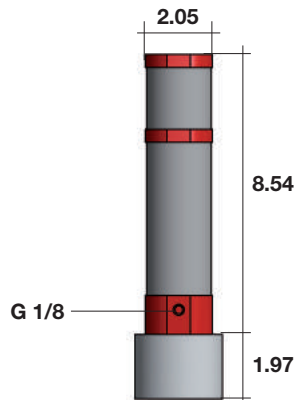
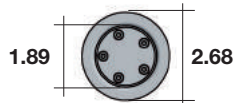
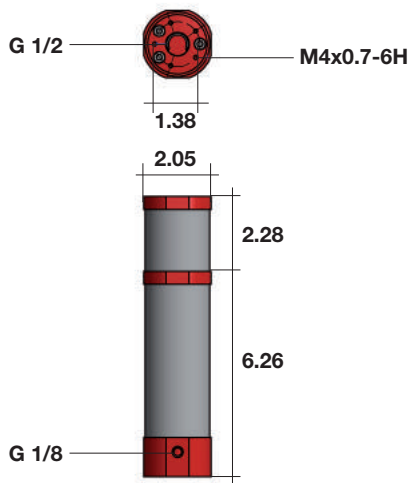
Rendering



KBC50-G1/2-C1-FX

KBC50-D68-C1-FX

KBC50-D85-C1-FX



dimensions in in

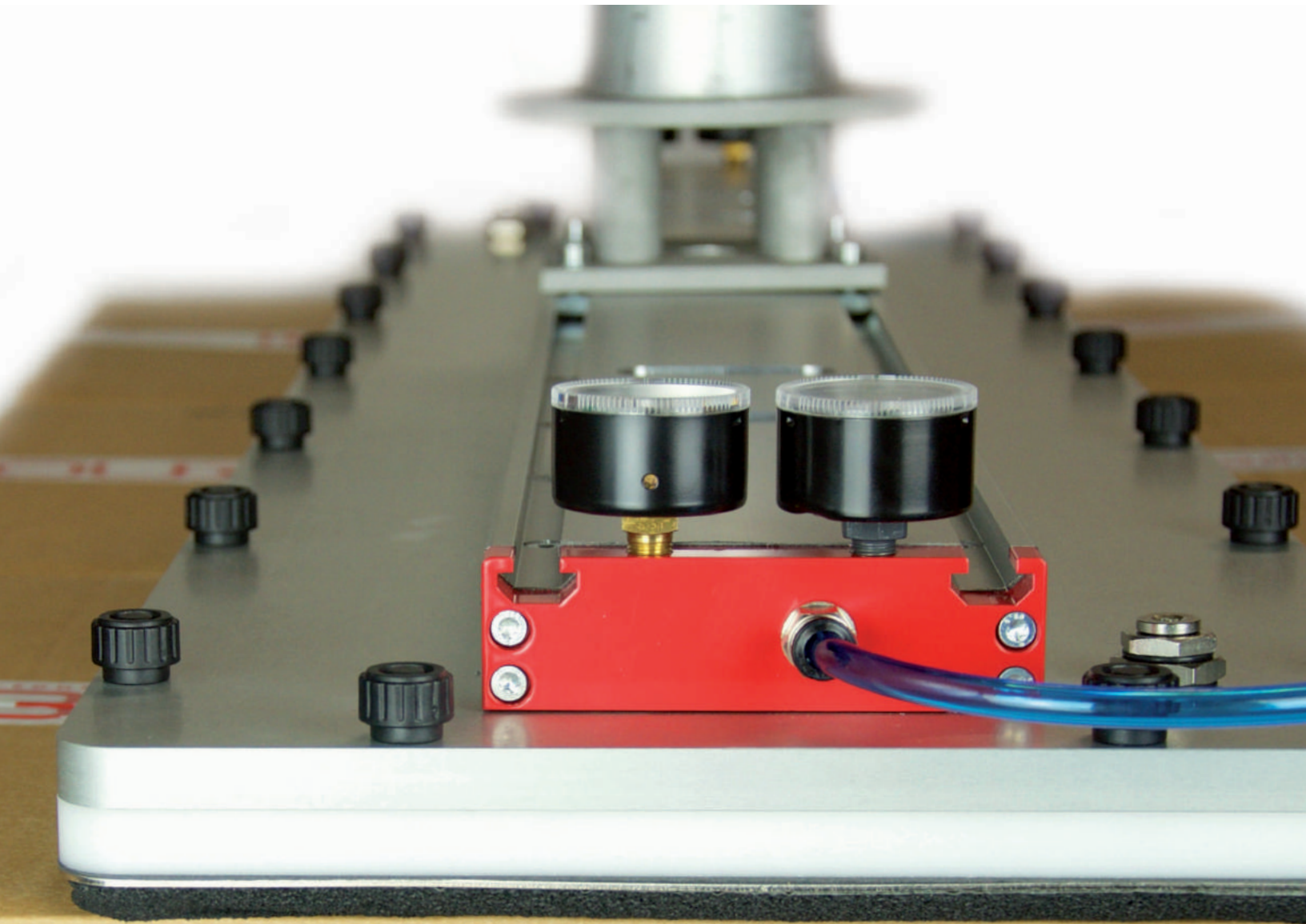
KVGL-S
series



KVGL-S product series, Kenos Vacuum Gripper Layer - Standard, looks at the wide world of packaging, end line automation and other applications. Our adjustable check valve technology and the H40mm technical foam allows for superior gripping on different kind of boxes, wrap around packaging and primary ones. The large availability of standard dimensioning and the modularity, make this series highly effective.

Advantages:

- Available with internal COAX® vacuum generation and also with external vacuum generator side channel blower
- Wide range of standard dimensions. Specials on request
- Complete with more part-presence detection work pieces
- Quick change of the technical foam
- Easy to mount and maintenance





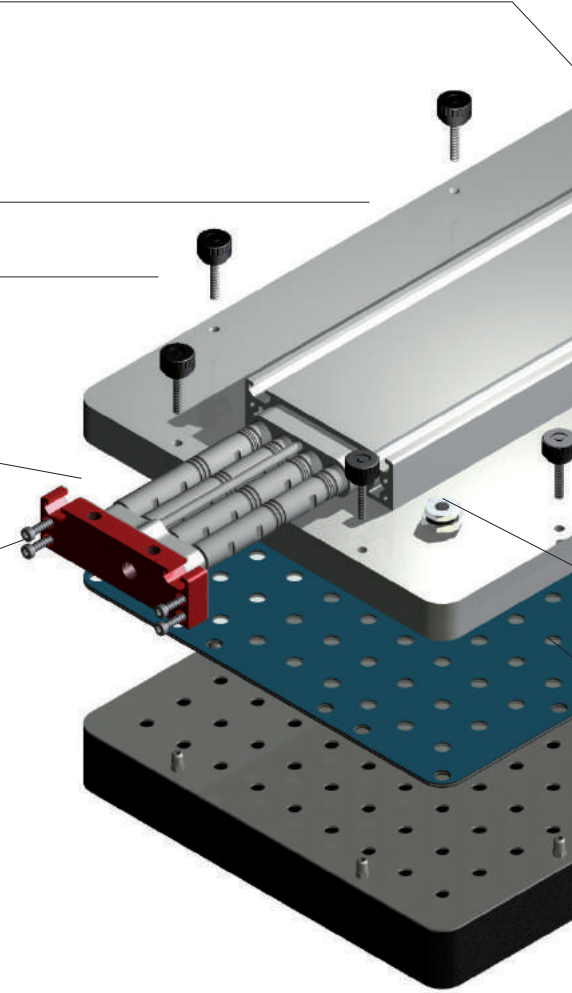
Mounting profile

Aluminum basic body

Quick change knob

Modular COAX® ejector

Supply cover basic version



36

How to order

KVGL	400	—	240	—	N	4	5
kvgl-s	 length mm		 width mm		 foam type	 thickness mm	 step



400

240

N = foam

4 = foam 40 mm

5 = step 30 mm



600

300

3 = foam 30 mm



800

400

2 = foam 20 mm

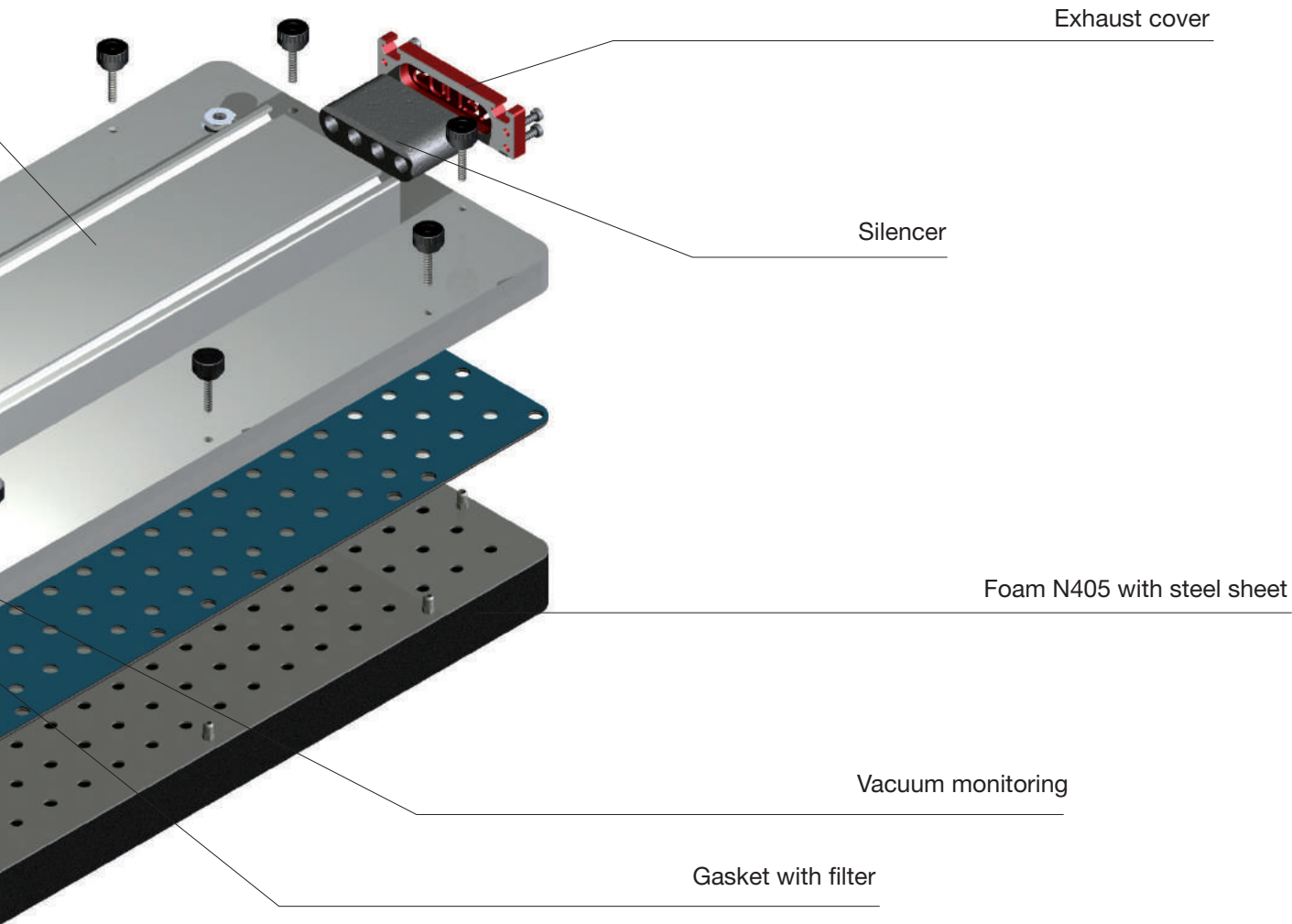


1000

1 = foam 10 mm



1200



CVM valves type	C3 vacuum generator	S version
CVL = check valves low flow	C2 = 2 COAX® cartridges	S = standard
CVM = check valves medium flow	C3 = 3 COAX® cartridges	X = special
CVH = check valves high flow	C4 = 4 COAX® cartridges	
	C5 = 5 COAX® cartridges	
	C6 = 6 COAX® cartridges	
	C7 = 7 COAX® cartridges	
	C8 = 8 COAX® cartridges	
	BL1 = blower connection G 1-1/4"	
	BL2 = blower connection G 2"	

KVGL-S series

Theoretic gripping force on rigid and stable surface with completely covered module, without safety factor (lbf).

width 240

type	force at 9 -inHg	force at 12 -inHg	force at 15 -inHg	force at 18 -inHg	force at 21 -inHg
KVGL400-240	178	237	297	356	415
KVGL600-240	282	375	469	563	657
KVGL800-240	385	514	642	771	899
KVGL1000-240	474	632	791	904	1107
KVGL1200-240	593	791	988	1186	1383

width 300

KVGL400-300	229	305	381	457	534
KVGL600-300	362	483	604	724	845
KVGL800-300	495	661	826	991	1156
KVGL1000-300	610	813	1017	1220	1423
KVGL1200-300	762	1017	1271	1525	1779

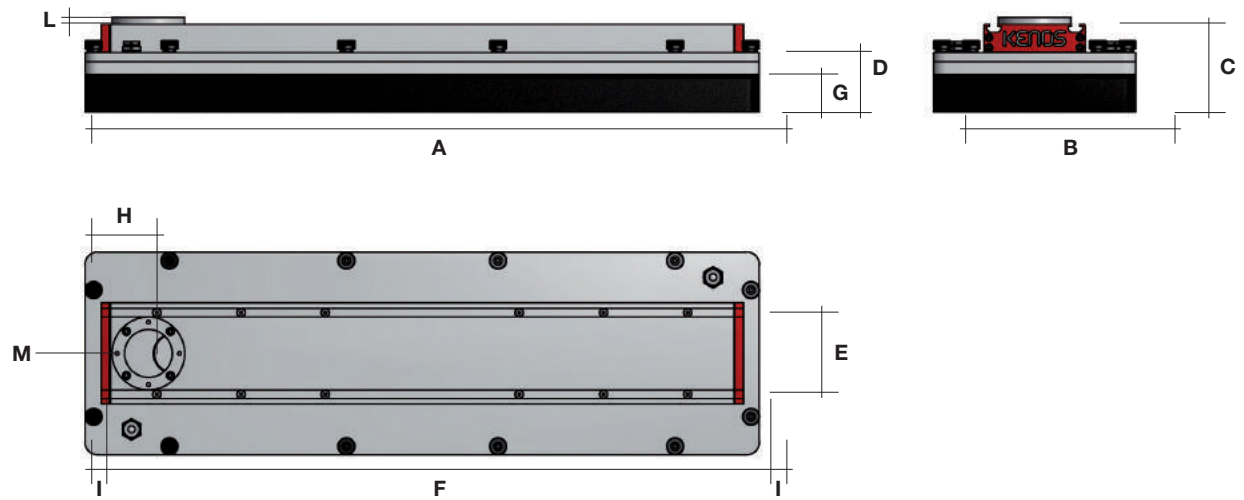
width 400

KVGL400-400	305	407	508	610	712
KVGL600-400	483	644	805	966	1127
KVGL800-400	661	881	1101	1321	1542
KVGL1000-400	813	1084	1355	1626	1897
KVGL1200-400	1017	1355	1694	2033	2372

Air consumption/vacuum flow data related to number of COAX® ejectors.

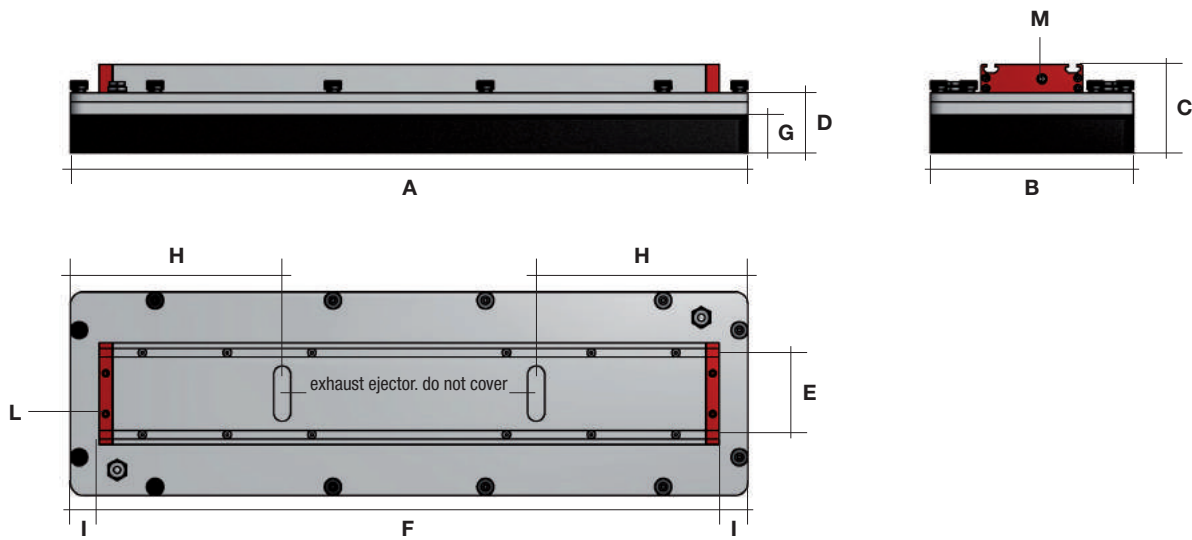
type	air consumption at 72.5 psi (scfm)	vacuum flow (scfm)
------	------------------------------------	--------------------

C1	3.18	12.7
C2	6.35	25.6
C3	9.53	38.3
C4	12.7	51.1
C5	15.9	63.9
C6	19.1	76.7
C7	22.2	89.5
C8	25.4	102



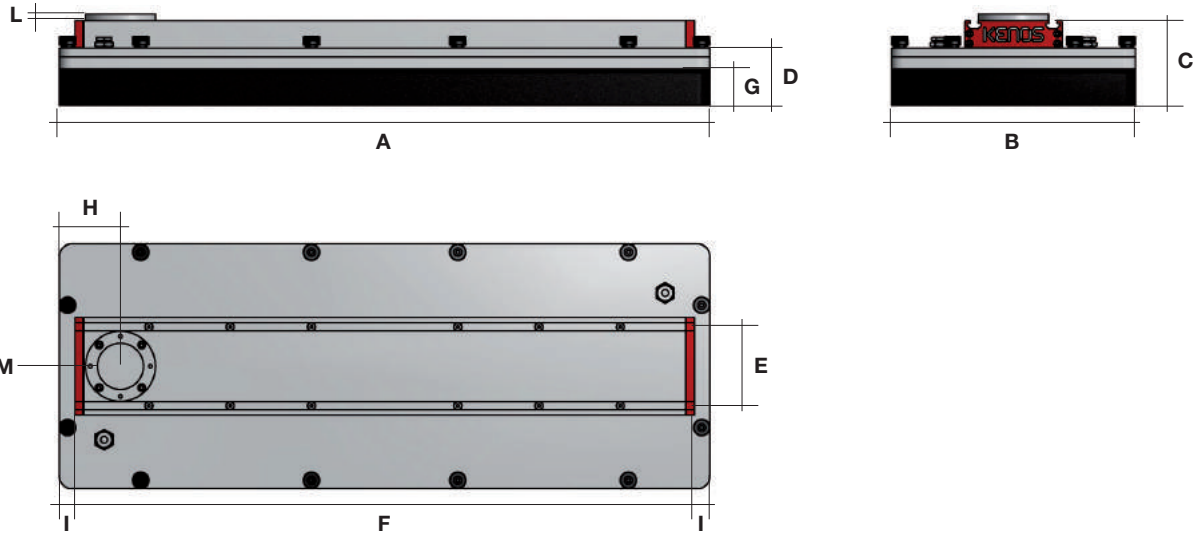
type	A	B	C	D	E	F	G	H	I	L	M	weight (lb)
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
KVGL400-240	400	240	104	70.5	96.8	362	10/20/30/40	65/75	19	8	G 1-1/4" / 2"	15.9
KVGL600-240	600	240	104	70.5	96.8	562	10/20/30/40	65/75	19	8	G 1-1/4" / 2"	22.5
KVGL800-240	800	240	104	70.5	96.8	762	10/20/30/40	65/75	19	8	G 1-1/4" / 2"	31.1
KVGL1000-240	1000	240	104	70.5	96.8	962	10/20/30/40	75	19	8	G 2"	39.0
KVGL1200-240	1220	240	104	70.5	96.8	1182	10/20/30/40	75	19	8	G 2"	47.4

type
240 BL



type	A	B	C	D	E	F	G	H	I	L	M	weight (lb)
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
KVGL400-240	400	240	104	70.5	96.8	332	10/20/30/40	-	34	G 1/8"	G 1/4"	16.3
KVGL600-240	600	240	104	70.5	96.8	532	10/20/30/40	-	34	G 1/8"	G 1/4"	24.0
KVGL800-240	800	240	104	70.5	96.8	732	10/20/30/40	300	34	G 1/8"	G 1/4"	32.4
KVGL1000-240	1000	240	104	70.5	96.8	932	10/20/30/40	300	34	G 1/8"	G 1/4"	40.1
KVGL1200-240	1220	240	104	70.5	96.8	1152	10/20/30/40	300	34	G 1/8"	G 1/4"	48.5

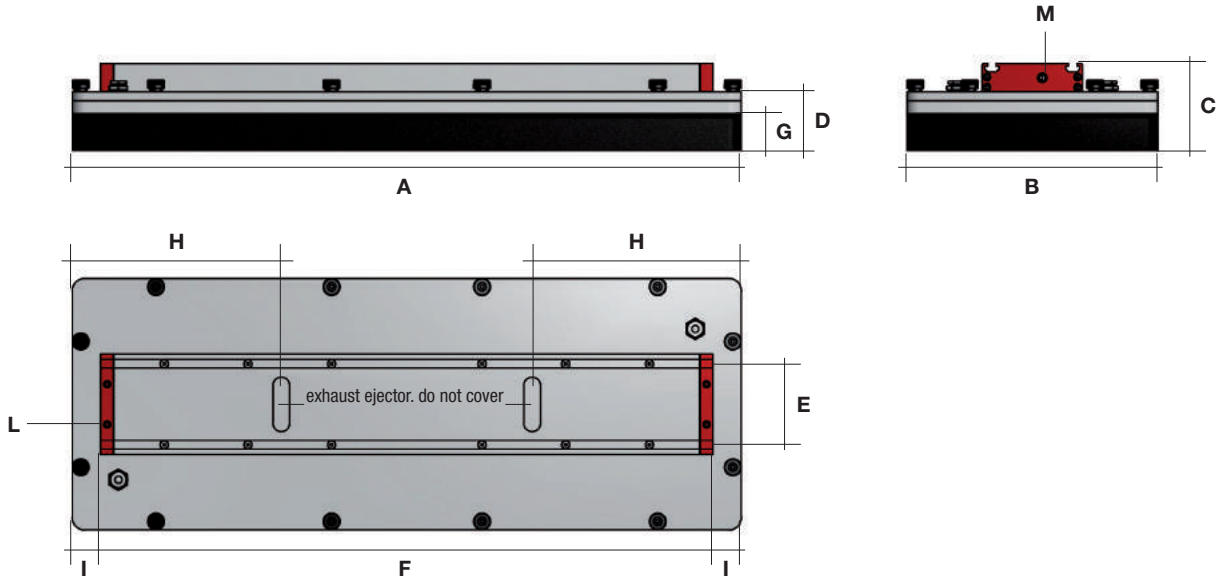
type
240 ejector



type
300 BL

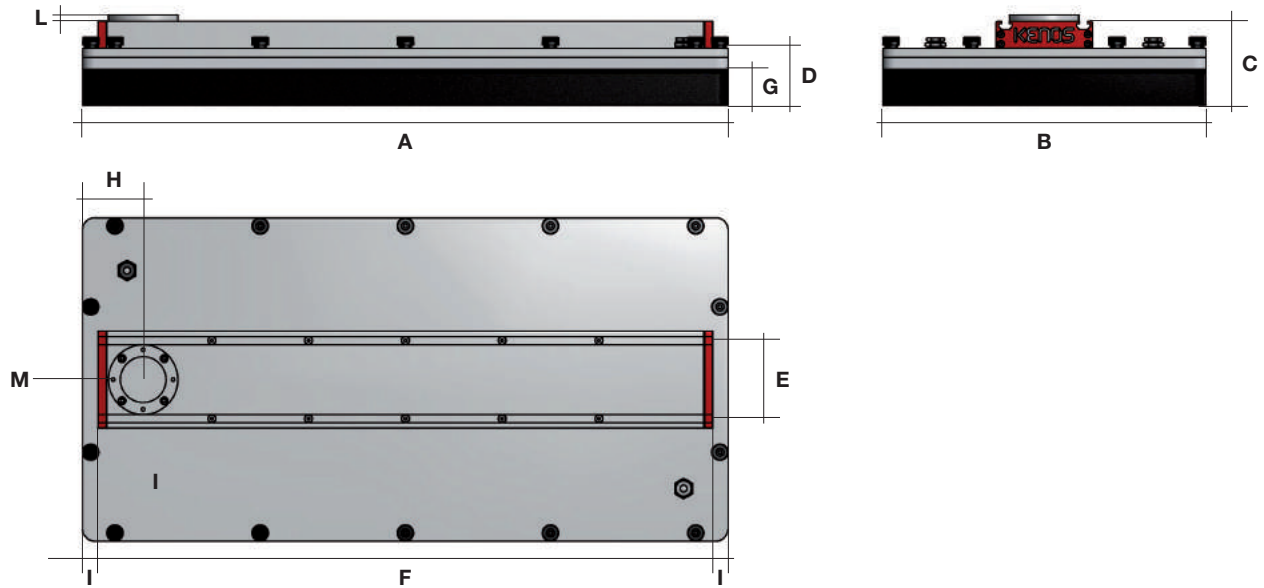
type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	M (mm)	weight (lb)
KVGL400-300	400	300	104	70.5	96.8	362	10/20/30/40	65/75	19	8	G 1-1/4 " / 2"	18.5
KVGL600-300	600	300	104	70.5	96.8	562	10/20/30/40	65/75	19	8	G 1-1/4 " / 2"	27.6
KVGL800-300	800	300	104	70.5	96.8	762	10/20/30/40	75	19	8	G 2"	35.7
KVGL1000-300	1000	300	104	70.5	96.8	962	10/20/30/40	75	19	8	G 2"	44.5
KVGL1200-300	1220	300	104	70.5	96.8	1182	10/20/30/40	75	19	8	G 2"	54.2

40



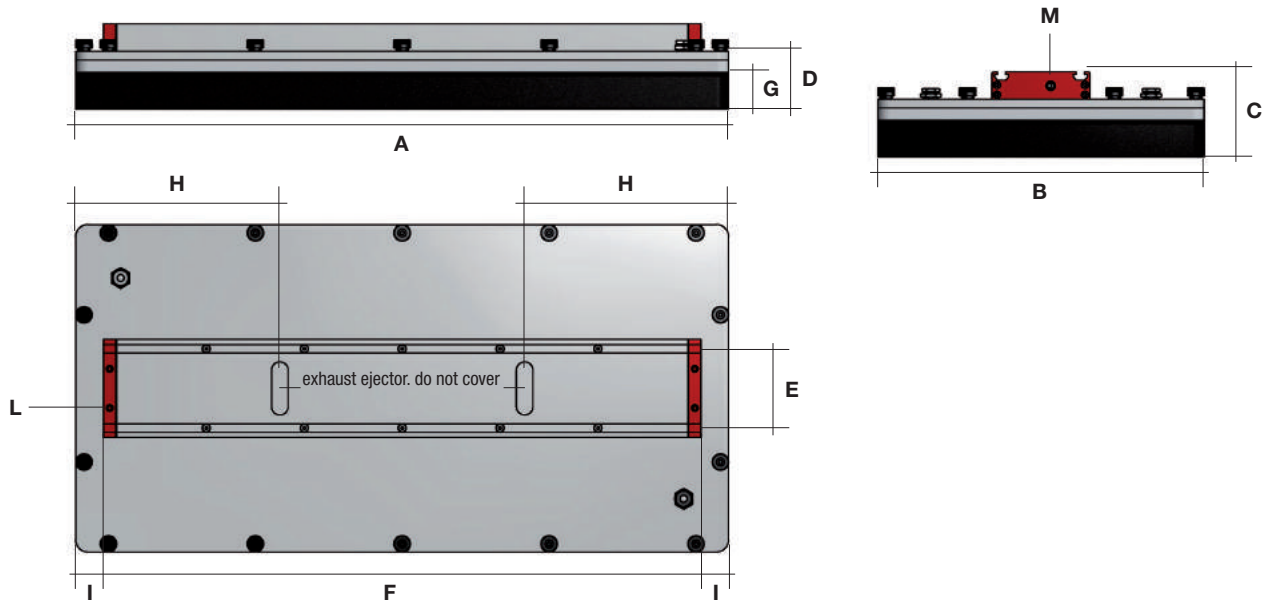
type
300 ejector

type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	M (mm)	weight (lb)
KVGL400-300	400	300	104	70.5	96.8	332	10/20/30/40	-	34	G 1/8"	G 1/4"	19.2
KVGL600-300	600	300	104	70.5	96.8	532	10/20/30/40	300	34	G 1/8"	G 1/4"	28.9
KVGL800-300	800	300	104	70.5	96.8	732	10/20/30/40	300	34	G 1/8"	G 1/4"	36.8
KVGL1000-300	1000	300	104	70.5	96.8	932	10/20/30/40	300	34	G 1/8"	G 1/4"	45.6
KVGL1200-300	1220	300	104	70.5	96.8	1152	10/20/30/40	300	34	G 1/8"	G 1/4"	55.1



type	A	B	C	D	E	F	G	H	I	L	M	weight
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(lb)
KVGL400-400	400	400	104	70.5	96.8	362	10/20/30/40	75	19	8	G 2"	23.1
KVGL600-400	600	400	104	70.5	96.8	562	10/20/30/40	75	19	8	G 2"	34.4
KVGL800-400	800	400	104	70.5	96.8	762	10/20/30/40	75	19	8	G 2"	46.1
KVGL1000-400	1000	400	104	70.5	96.8	962	10/20/30/40	75	19	8	G 2"	57.5
KVGL1200-400	1220	400	104	70.5	96.8	1182	10/20/30/40	75	19	8	G 2"	70.1

type
400 BL

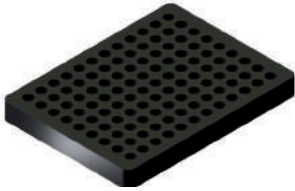


type	A	B	C	D	E	F	G	H	I	L	M	weight
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(lb)
KVGL400-400	400	400	104	70.5	96.8	332	10/20/30/40	-	34	G 1/8"	G 1/4"	23.6
KVGL600-400	600	400	104	70.5	96.8	532	10/20/30/40	300	34	G 1/8"	G 1/4"	35.7
KVGL800-400	800	400	104	70.5	96.8	732	10/20/30/40	300	34	G 1/8"	G 1/4"	47.2
KVGL1000-400	1000	400	104	70.5	96.8	912	10/20/30/40	300	44	G 1/8"	G 1/4"	58.6
KVGL1200-400	1220	400	104	70.5	96.8	1152	10/20/30/40	300	34	G 1/8"	G 1/4"	71.4

type
400 ejetor

KVGL-S series

Replacement foams for KVGL-s.



width 240

width 300

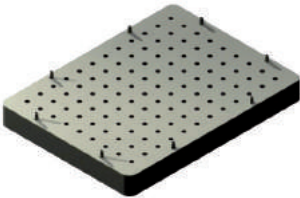
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FOAM-KVGL400-240-N405-S	K-90-01402
FOAM-KVGL600-240-N405-S	K-90-01352
FOAM-KVGL800-240-N405-S	K-90-01369
FOAM-KVGL1000-240-N405-S	K-90-01367
FOAM-KVGL1200-240-N405-S	K-90-01405
FOAM-KVGL400-300-N405-S	K-90-01238
FOAM-KVGL600-300-N405-S	K-90-01278
FOAM-KVGL800-300-N405-S	K-90-01300
FOAM-KVGL1000-300-N405-S	K-90-01410
FOAM-KVGL1200-300-N405-S	K-90-01411
FOAM-KVGL400-400-N405-S	K-90-01351
FOAM-KVGL600-400-N405-S	K-90-01327
FOAM-KVGL800-400-N405-S	K-90-01309
FOAM-KVGL1000-400-N405-S	K-90-01412
FOAM-KVGL1200-400-N405-S	K-90-01413

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Plate with foam for KVGL-s.



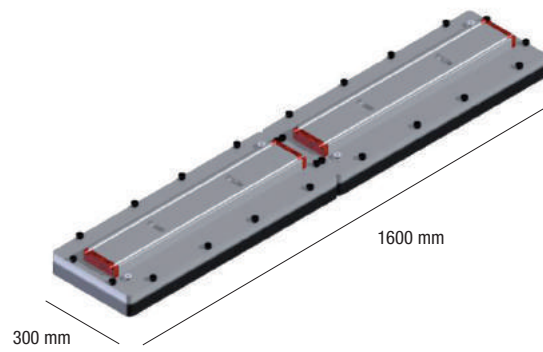
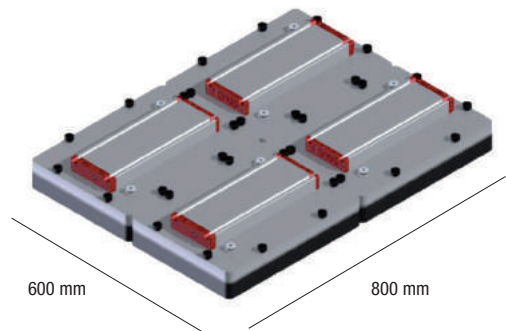
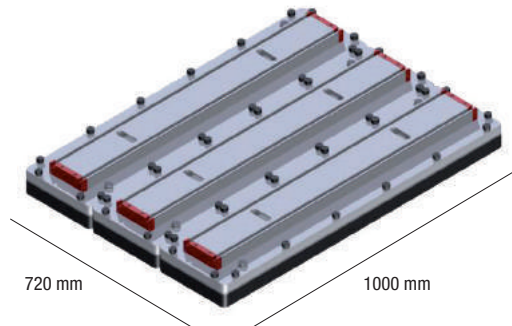
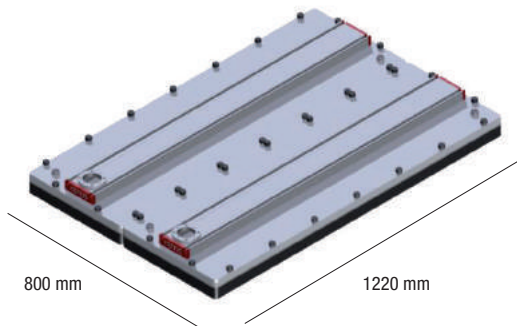
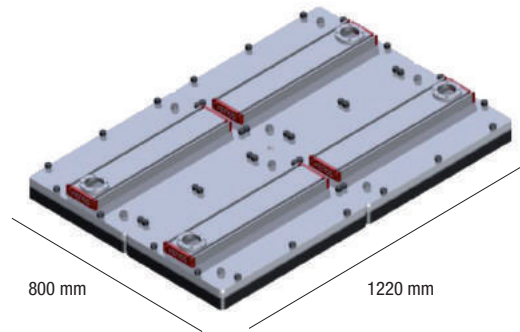
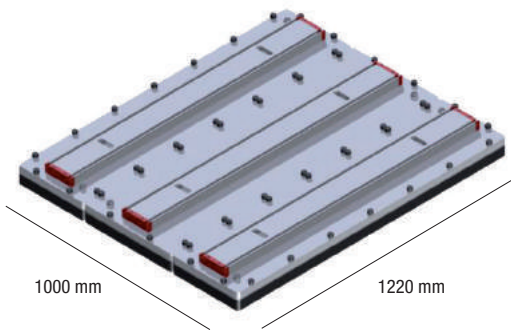
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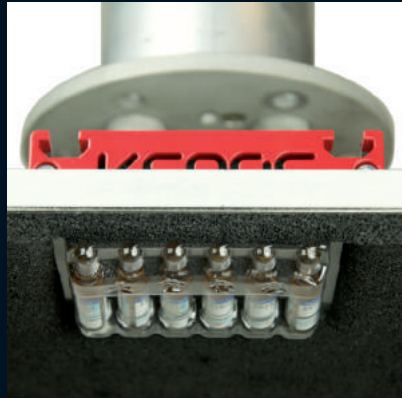
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description	code
LAM+FOAM-KVGL400-240-N405-S	K-90-01419
LAM+FOAM-KVGL600-240-N405-S	K-90-01490
LAM+FOAM-KVGL800-240-N405-S	K-90-01370
LAM+FOAM-KVGL1000-240-N405-S	K-90-01421
LAM+FOAM-KVGL1200-240-N405-S	K-90-01422
LAM+FOAM-KVGL400-300-N405-S	K-90-01242
LAM+FOAM-KVGL600-300-N405-S	K-90-01283
LAM+FOAM-KVGL800-300-N405-S	K-90-01423
LAM+FOAM-KVGL1000-300-N405-S	K-90-01424
LAM+FOAM-KVGL1200-300-N405-S	K-90-01425
LAM+FOAM-KVGL400-400-N405-S	K-90-01426
LAM+FOAM-KVGL600-400-N405-S	K-90-01427
LAM+FOAM-KVGL800-400-N405-S	K-90-01428
LAM+FOAM-KVGL1000-400-N405-S	K-90-01429
LAM+FOAM-KVGL1200-400-N405-S	K-90-01430

Examples of modular layers.



KVGL-CJ
series

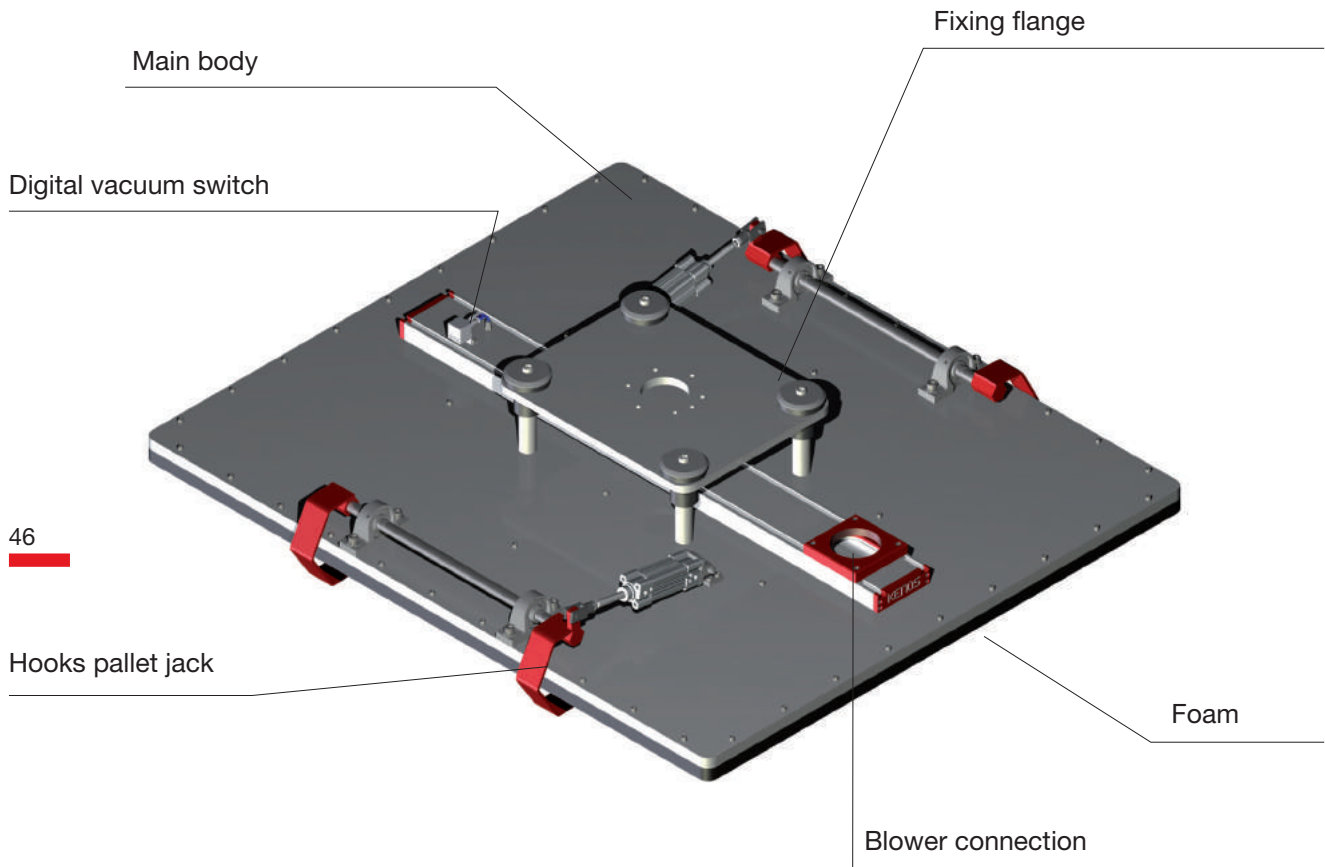


KVGL-CJ series, Kenos Vacuum Layer-Cans Jars, born for the need to handle the complete layer of cans, jars that can be open or closed on the gripping area. Typical industrial segments involved are palletizing or de-palletizing in packaging, beverage, food.

Advantages:

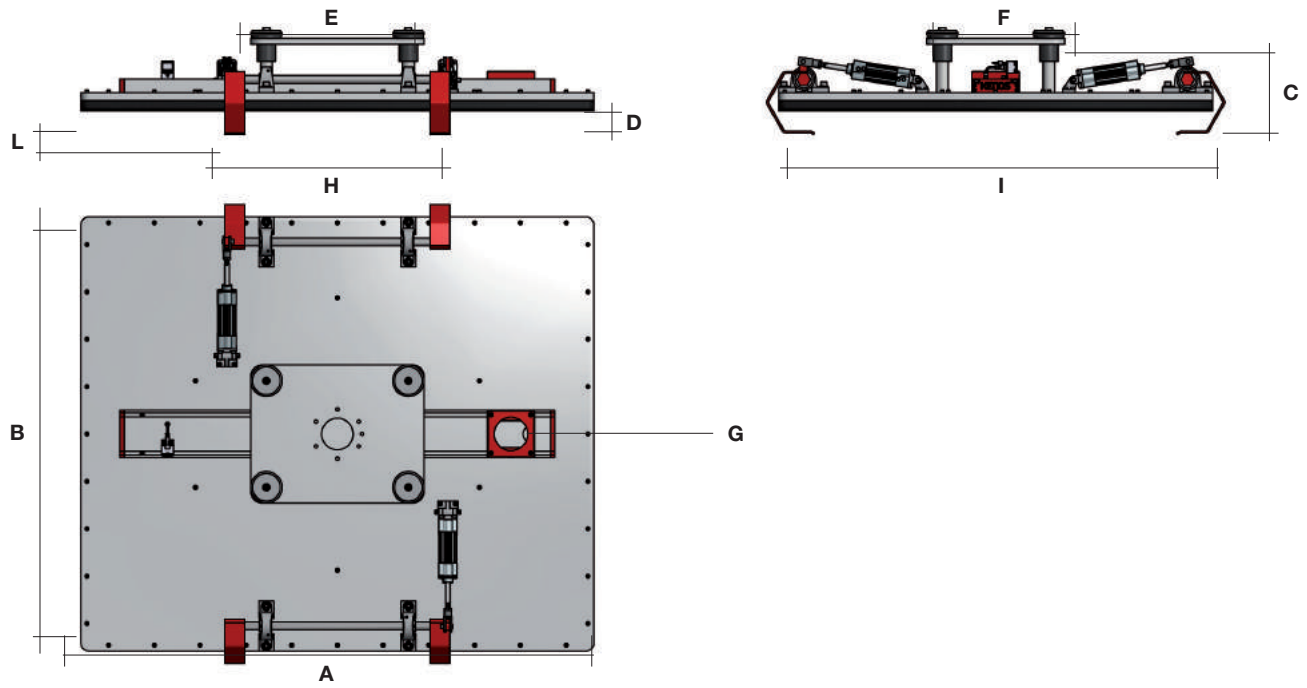
- Handling of the complete or partial layer
- Handling of pallet
- Handling of cardboard interlayer
- Flow reduction technologies
- External vacuum generation with side channel blower
- Connection flange integrated



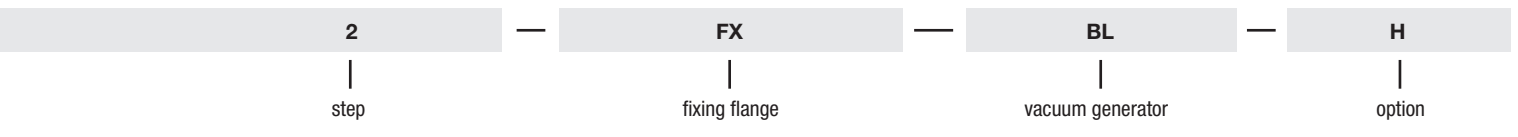


How to order

KVGL-CJ	1300	—	700	—	CJ	—	N	15
kvgl-cj	length mm		width mm				type	thickness mm
	900		700		CJ = cans jars		N = foam	25 = foam 25 mm
	1300		900					15 = foam 15 mm
	1300		1100					



type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	weight (lb)
KVGL900-700-CJ-N251-FX-BL-H	900	700	134	25	440	350	G 2"-1/2	570	850	60	101
KVGL900-700-CJ-N251-FL-BL-H	900	700	211	25	440	350	G 2"-1/2	570	850	60	112
KVGL1300-900-CJ-N251-FX-BL-H	1300	900	134	25	440	350	G 3"	570	850	60	156
KVGL1300-900-CJ-N251-FL-BL-H	1300	900	211	25	440	350	G 3"	570	850	60	168
KVGL1300-1100-CJ-N251-FX-BL-H	1300	1100	134	25	440	350	G 3"	570	1050	60	179
KVGL1300-1100-CJ-N251-FL-BL-H	1300	1100	211	25	440	350	G 3"	570	1050	60	190



1 = fine step

FL = floating flange

BL = blower

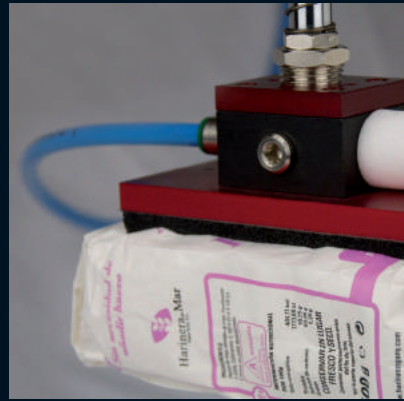
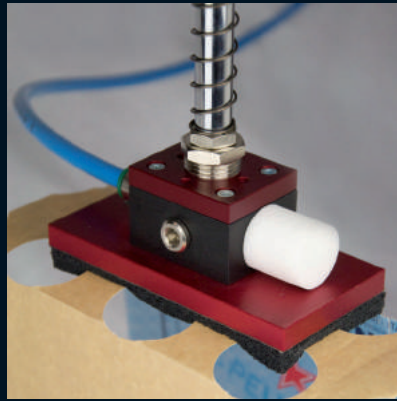
H = pallet hooks

2 = medium step

FX = fixed flange

blank = without option

KVGM series

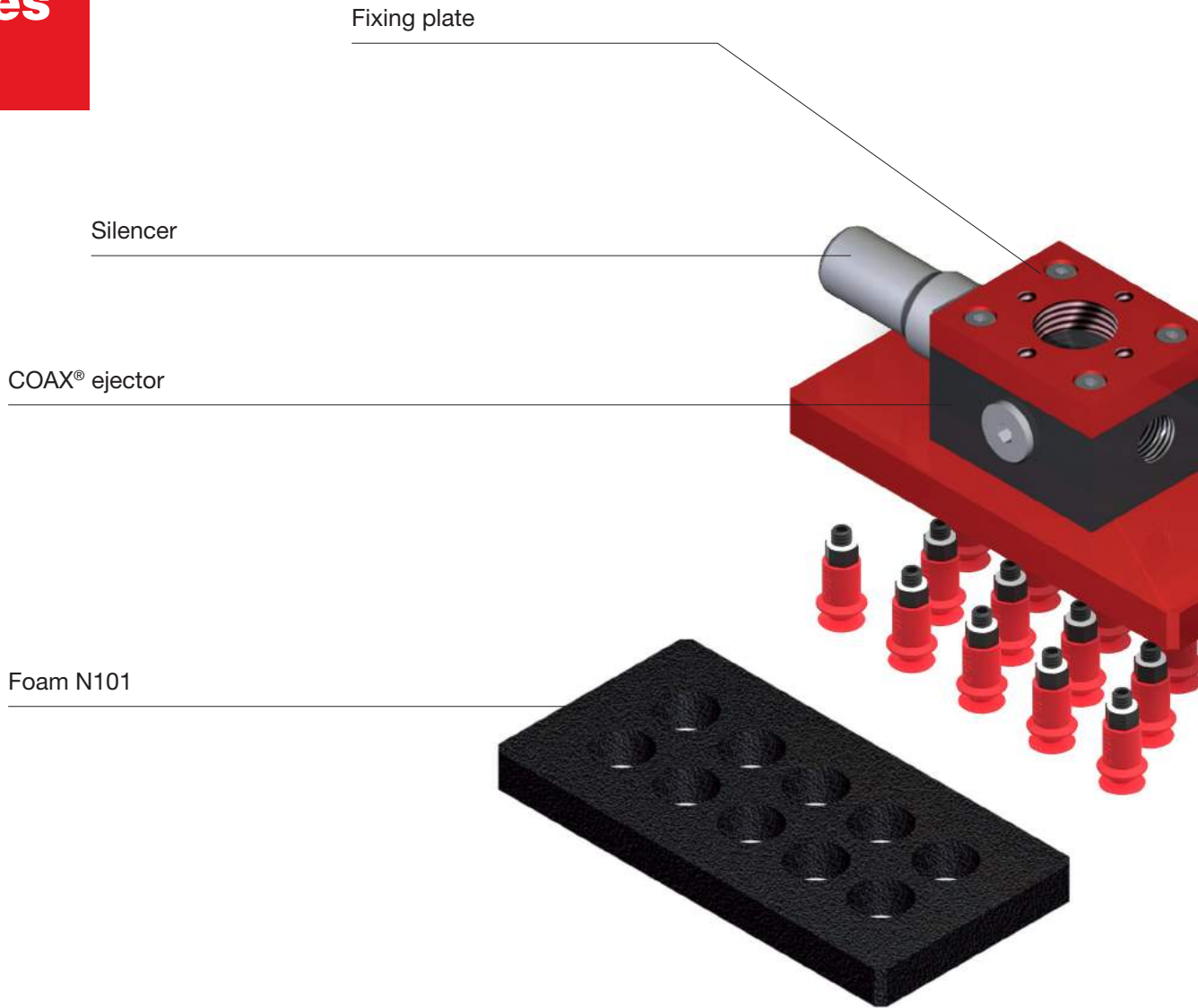


KVGM grippers, Kenos Vacuum Gripper Mini, are multifunction and employable in many industrial segments. Anywhere you need reduced weight and dimensions, low energy use, KVGM products are the right solution. Available with technical foam or equipped with bellow pads with different diameters, KVGM grippers are extremely versatile and have great performance.





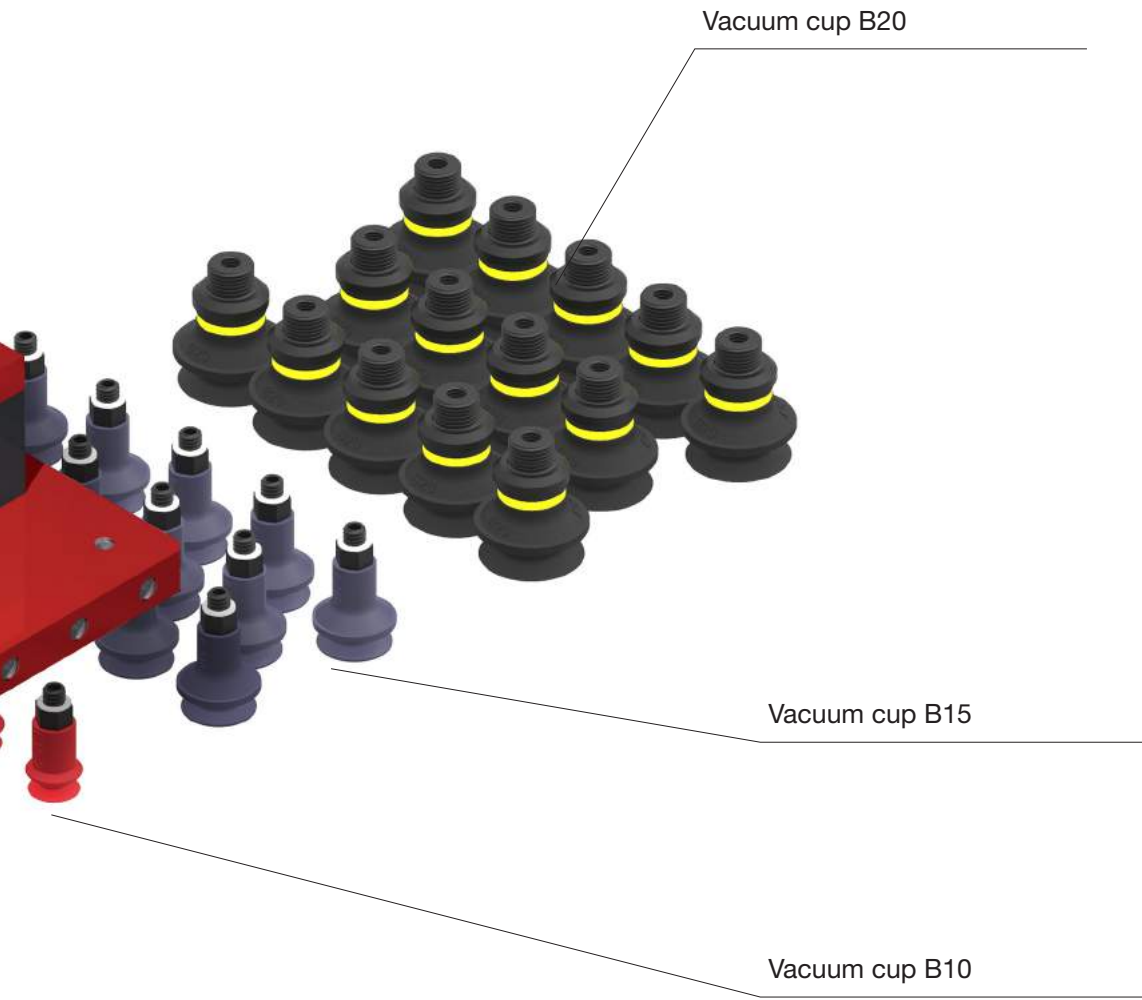
Assembled view



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How to order

KVGM	120	—	60	—	N	1	0
kvgm	length mm		width mm		type	thickness/diameter mm	filter
	120		60		N = foam	2 = foam 20 mm	0 = without filter
	200					1 = foam 10 mm	1 = with filter
					P = pads	10 = pad d. 10 mm	
						15 = pad d. 15 mm	
						20 = pad d. 20 mm	



2	FR	8	60RR
 step	 technology	 calibrated hole	 vacuum generator
1 = fine step	FR = flow reduction	6 = 0.6 mm	60RR = air consumption
2 = medium step	DM = direct mounting	8 = 0.8 mm	120RR = air consumption
		10 = 1 mm	

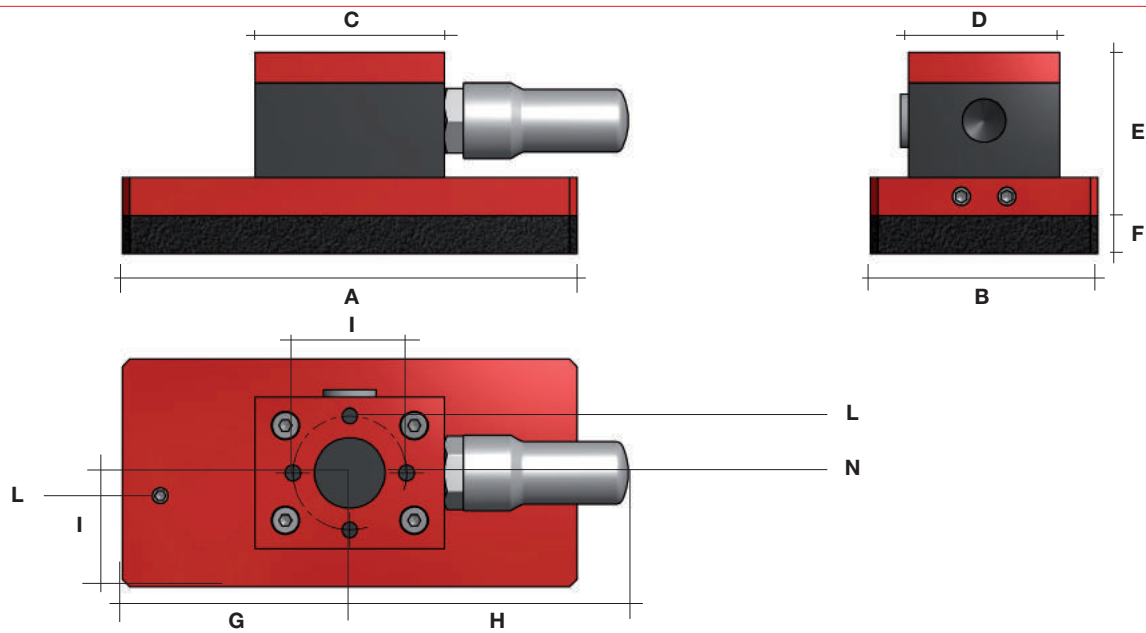


Theoretic tear force on rigid and stable surface with completely covered module, without safety factor (lbf).

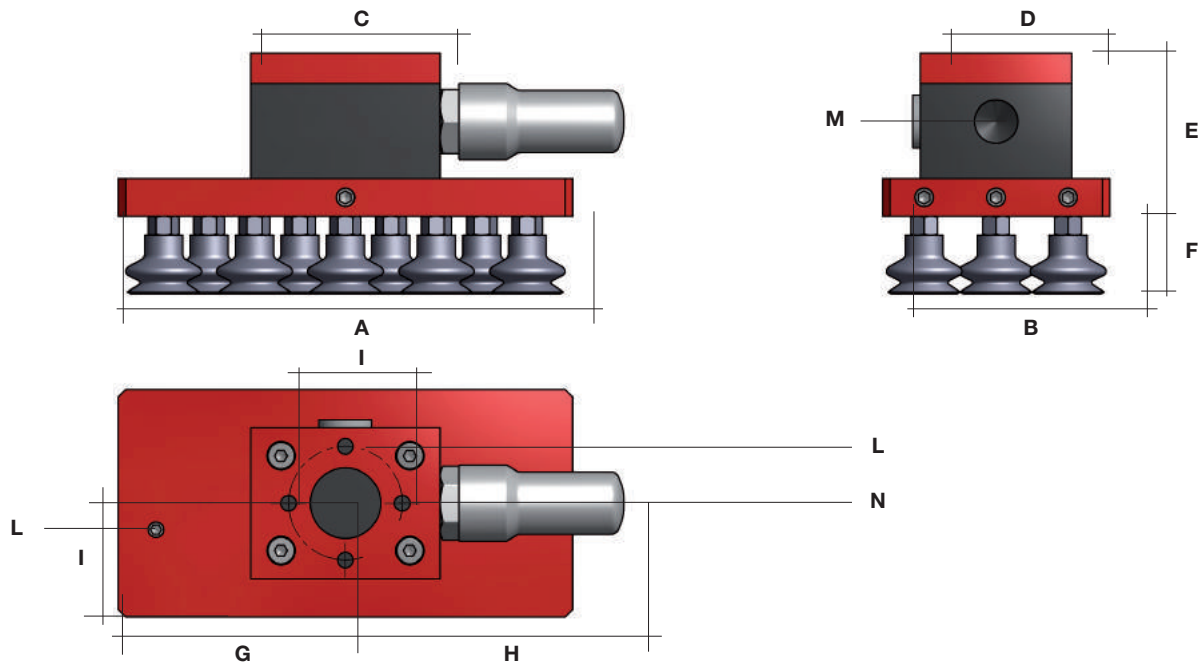
	type	force at 30% vacuum	force at 40% vacuum	force at 50% vacuum	force at 60% vacuum	force at 70% vacuum
foam N201-N202	KVG120-60	11.9	15.7	19.8	23.8	27.7
	KVG200-60	21.4	28.6	35.5	42.7	49.9
pads P10	KVG120-60	1.35	2.02	2.47	2.92	3.60
	KVG200-60	2.70	3.60	4.72	5.62	6.52
pads P15	KVG120-60	3.60	4.72	6.07	7.19	8.54
	KVG200-60	6.74	8.99	11.2	13.5	15.7
pads P20	KVG120-60	7.42	9.89	12.4	14.8	17.3
	KVG200-60	13.7	18.2	22.9	27.4	32.1

Air consumption/vacuum flow data.

type	air consumption at 72.5 psi (scfm)	vacuum flow (scfm)
60RR	2.12	1.55
120RR	4.24	3.11



type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	M (mm)	N (mm)	weight (lb)
KVGM120-60-N101	120	60	50	40	43	10	60	73.5	30	M5	G 1/4"	G 1/2"	0.79
KVGM120-60-N201	120	60	50	40	43	20	60	73.5	30	M5	G 1/4"	G 1/2"	0.79
KVGM200-60-N101	200	60	50	40	43	10	100	73.5	30	M5	G 1/4"	G 1/2"	1.08
KVGM200-60-N201	200	60	50	40	43	20	100	73.5	30	M5	G 1/4"	G 1/2"	1.08



type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)	M (mm)	N (mm)	weight (lb)
KVGM120-60-P10	120	60	50	40	43	21	60	73.5	30	M5	G 1/4"	G 1/2"	0.88
KVGM120-60-P15	120	60	50	40	43	24.2	60	73.5	30	M5	G 1/4"	G 1/2"	0.88
KVGM120-60-P20	120	60	50	40	43	20.5	60	73.5	30	M5	G 1/4"	G 1/2"	0.88
KVGM200-60-P10	200	60	50	40	43	21	100	73.5	30	M5	G 1/4"	G 1/2"	1.32
KVGM200-60-P15	200	60	50	40	43	24.2	100	73.5	30	M5	G 1/4"	G 1/2"	1.32
KVGM200-60-P20	200	60	50	40	43	20.5	100	73.5	30	M5	G 1/4"	G 1/2"	1.32

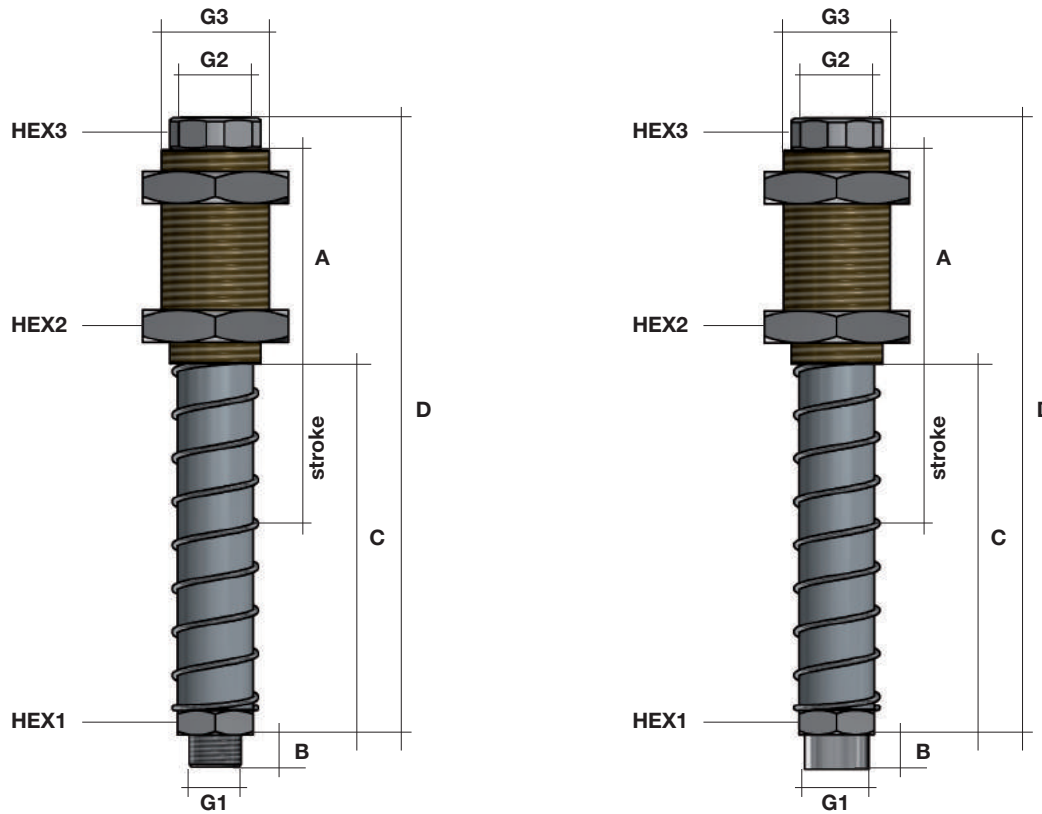
KSPH
series



Spring plungers and level compensators.

The KSPH spring plungers series allows for handling work pieces at different heights. Several availability of threads connections 1/8", 1/4" and 3/8", male or female version, with standard strokes from 25, 50, to 75 mm.

A non-rotating version is available, it grants precise pick and place positioning of the workpiece during the handling and the utilization of oval pads when required.



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	type	A (in)	B (in)	C (in)	D (in)	G1	G2	G3 (mm)	HEX1 (mm)	HEX2 (mm)	HEX3 (mm)	stroke (in)	weight (oz)	spring rate (lb/in)	cod. N*	cod. A**
1/8"	KSPH-M20-1M-25	1.57	0.24	1.66	3.48	1/8"	1/8"	M20x1.5	14	27	17	0.98	6.35	4.00	K-25-00590	K-25-00630
	KSPH-M20-1M-50	1.57	0.24	2.73	4.55	1/8"	1/8"	M20x1.5	14	27	17	1.97	7.05	2.63	K-25-00602	K-25-00642
	KSPH-M20-1M-75	1.57	0.24	3.87	5.69	1/8"	1/8"	M20x1.5	14	27	17	2.95	7.76	6.29	K-25-00612	K-25-00652
	KSPH-M20-1F-25	1.57	0.26	1.66	3.48	1/8"	1/8"	M20x1.5	14	27	17	0.98	6.35	4.00	K-25-00591	K-25-00631
	KSPH-M20-1F-50	1.57	0.26	2.73	4.55	1/8"	1/8"	M20x1.5	14	27	17	1.97	7.05	2.63	K-25-00603	K-25-00643
	KSPH-M20-1F-75	1.57	0.26	3.87	5.69	1/8"	1/8"	M20x1.5	14	27	17	2.95	7.76	6.29	K-25-00613	K-25-00653
1/4"	KSPH-M20-2M-25	1.57	0.31	1.64	3.46	1/4"	1/8"	M20x1.5	17	27	17	0.98	6.35	4.00	K-25-00592	K-25-00632
	KSPH-M20-2M-50	1.57	0.31	2.71	4.53	1/4"	1/8"	M20x1.5	17	27	17	1.97	7.05	2.63	K-25-00604	K-25-00644
	KSPH-M20-2M-75	1.57	0.31	3.85	5.67	1/4"	1/8"	M20x1.5	17	27	17	2.95	7.76	6.29	K-25-00614	K-25-00654
	KSPH-M20-2F-25	1.57	0.33	1.72	3.54	1/4"	1/8"	M20x1.5	17	27	17	0.98	6.35	4.00	K-25-00593	K-25-00633
	KSPH-M20-2F-50	1.57	0.33	2.79	4.61	1/4"	1/8"	M20x1.5	17	27	17	1.97	7.05	2.63	K-25-00605	K-25-00645
	KSPH-M20-2F-75	1.57	0.33	3.93	5.75	1/4"	1/8"	M20x1.5	17	27	17	2.95	7.76	6.29	K-25-00615	K-25-00655
3/8"	KSPH-M20-3M-25	1.57	0.35	1.68	3.50	3/8"	1/8"	M20x1.5	19	27	17	0.98	6.63	4.00	K-25-00594	K-25-00634
	KSPH-M20-3M-50	1.57	0.35	2.75	4.57	3/8"	1/8"	M20x1.5	19	27	17	1.97	7.34	2.63	K-25-00606	K-25-00646
	KSPH-M20-3M-75	1.57	0.35	3.89	5.71	3/8"	1/8"	M20x1.5	19	27	17	2.95	8.04	6.29	K-25-00616	K-25-00656
	KSPH-M20-3F-25	1.57	0.37	1.72	3.54	3/8"	1/8"	M20x1.5	22	27	17	0.98	7.05	4.00	K-25-00595	K-25-00635
	KSPH-M20-3F-50	1.57	0.37	2.79	4.61	3/8"	1/8"	M20x1.5	22	27	17	1.97	7.76	2.63	K-25-00607	K-25-00647
	KSPH-M20-3F-75	1.57	0.37	3.93	5.75	3/8"	1/8"	M20x1.5	22	27	17	2.95	8.46	6.29	K-25-00617	K-25-00657


*N: How to order Normal **A: How to order non-rotating



KRV series, Kenos Reverse Valve, are valves for vacuum with pneumatic control 2x3/2 that are used in vacuum generation machines using side channel blower. They have the function of suction or blow flow depending on the operation. They are made of anodized aluminium with POM C seals.

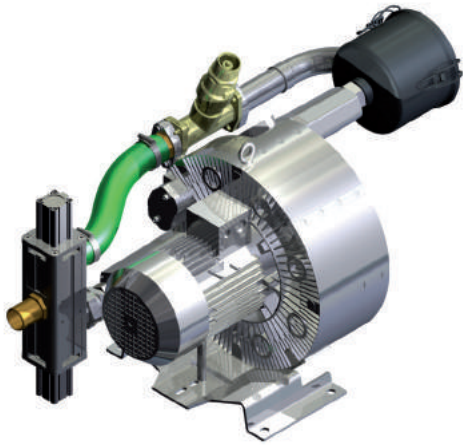


How to order

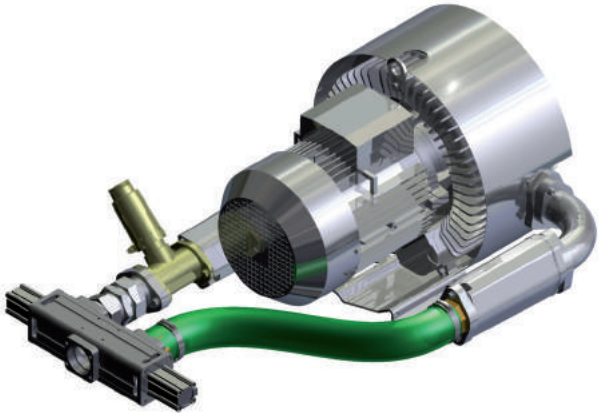
KRV	D63	F4	33	B	P
	shape mm	size	function	condition	control
	D63 = 63	F2 = 1-1/4"	33 = 2x3/2	B = bistable	B = pneumatic
		F4 = 2"			
	D100 = 100	F5 = 2-1/2"			
		F6 = 3"			

Connection example.

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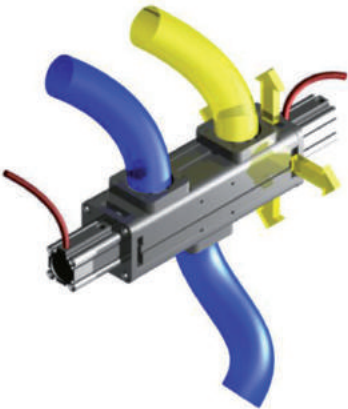


KRV-F2 with blower

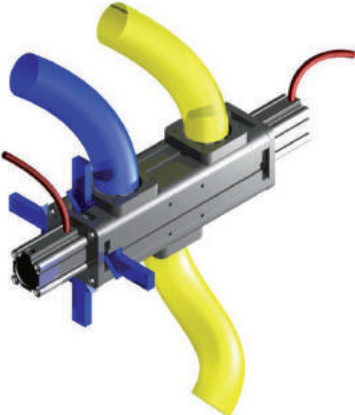


KRV-F4 with blower

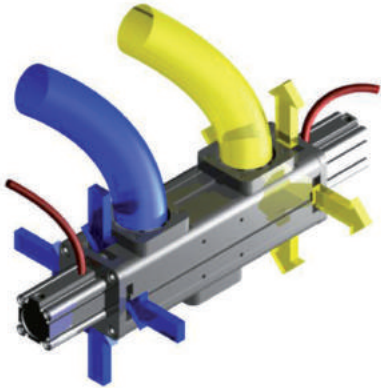
Functional diagram.



Suction position



Blowing position



Neutral position



Suction hose

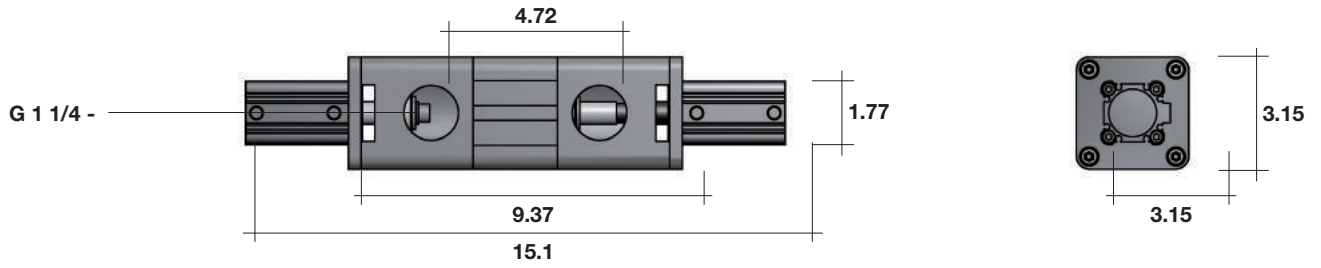


Blowing hose

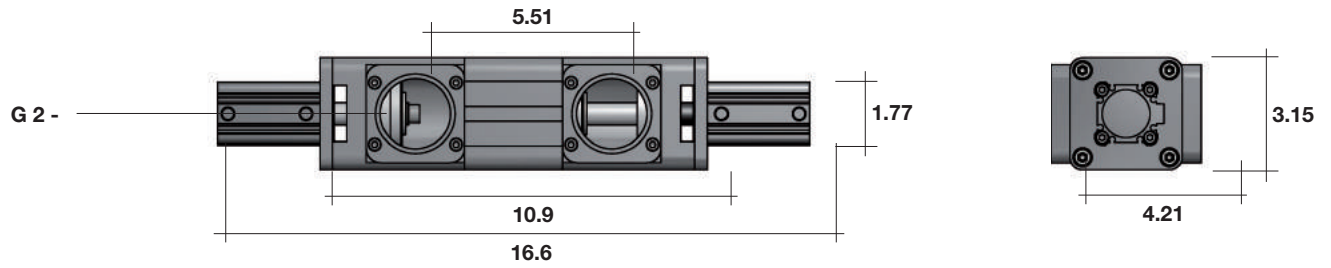


Pressurization cylinder

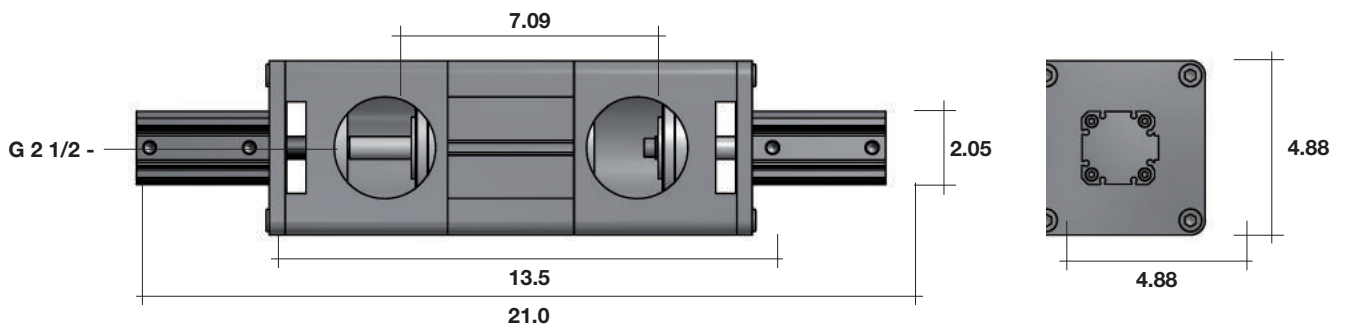
KRV-D63-F2-33B-P



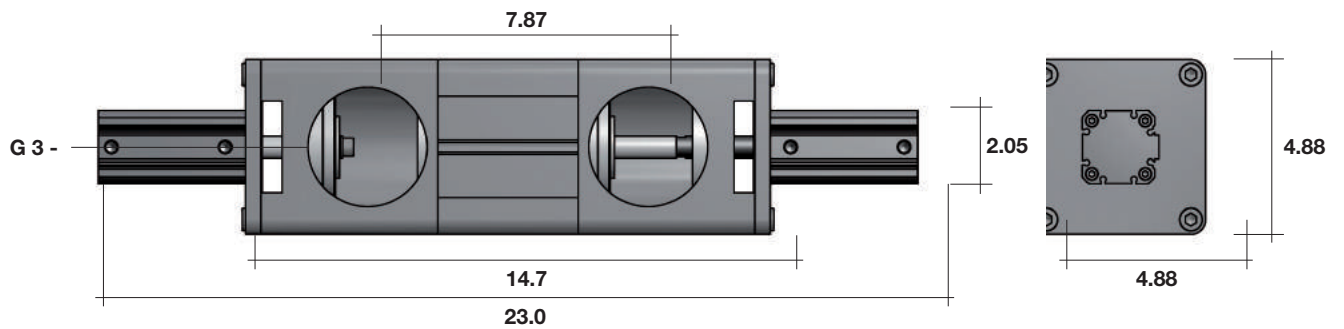
KRV-D63-F4-33B-P



KRV-D100-F5-33B-P

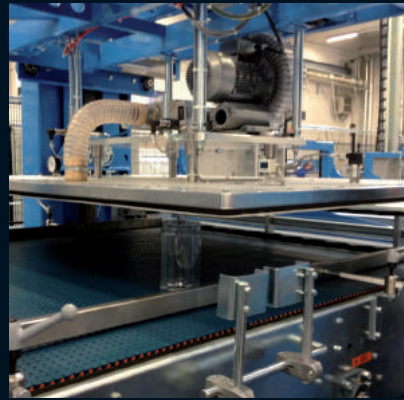
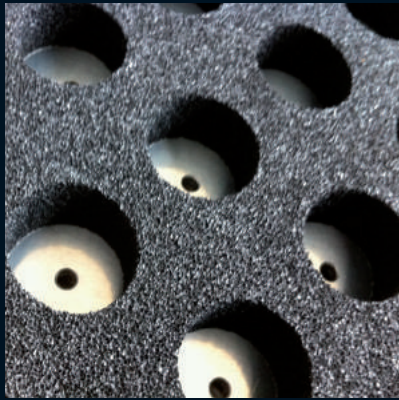


KRV-D100-F6-33B-P

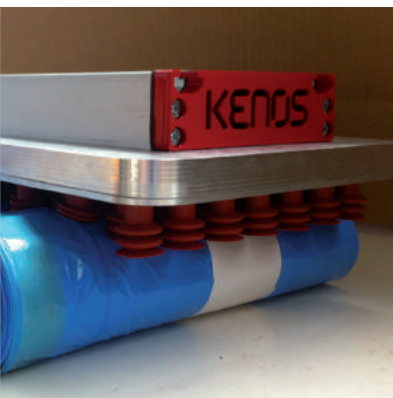


unit of measure: in

SPECIALS



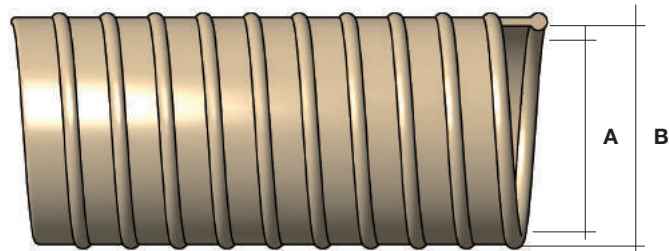
Kenos is very active in developing special products. Gripping systems that are created to solve specific needs of customers. Products for the handling of particular objects, for special environmental conditions or to be able to manage complex movements. The process always starts from the study of the application, then passes to the design team who create 3D drawings of the gripping system. The prototype for testing is crucial to validate the special order. All of these steps are in close collaboration with the customer to optimize timing and the flow of information. Special products are what distinguishes Kenos on the market.





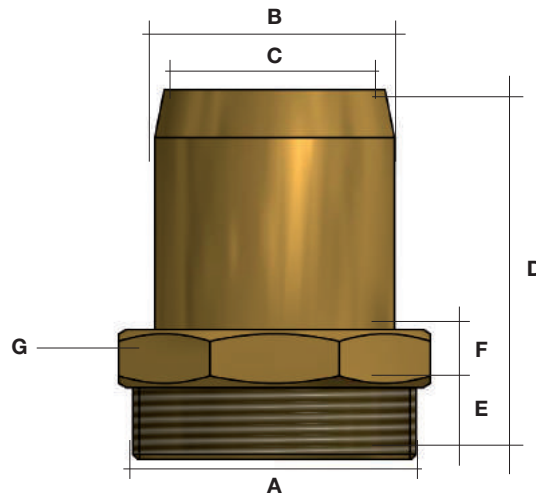
To complete and integrate our product range, we offer a series of accessories summarized in this section.

Hoses



type	code	A (in)	B (in)	weight (oz/ft)	vacuum max (-inHg)	radius (in)	temperature (F)
KTU-M-33-25-PU	K-23-00011	0.98	1.30	3.33	27.8	1.85	-40/+194
KTU-M-41-32-PU	K-23-00010	1.26	1.61	4.84	27.8	2.36	-40/+194
KTU-M-49-40-PU	K-23-00009	1.57	1.93	5.59	24.5	2.83	-40/+194
KTU-M-61-50-PU	K-23-00008	1.97	2.40	7.64	23.6	3.43	-40/+194
KTU-M-70-60-PU	K-23-00007	2.36	2.76	8.82	22.1	4.02	-40/+194
KTU-M-87-75-PU	K-23-00012	2.95	3.43	11.1	17.7	4.96	-40/+194
KTU-M-101-90-PU	K-23-00013	3.54	3.98	12.9	15.4	5.87	-40/+194

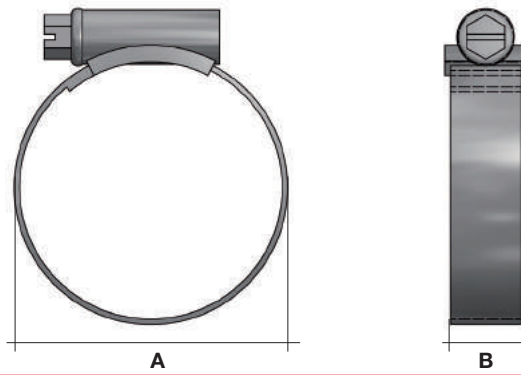
Hose sleeve



code	description	A	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	weight (oz)
K-02-00129	KP-1-25	G 1"	0.98	0.79	2.32	0.51	0.28	1.42	4.23
K-02-00016	KP-1-32	G 1"	1.26	1.18	2.60	0.51	0.28	1.42	5.29
K-02-00017	KP-1-1/4-32	G 1-1/4"	1.26	1.18	2.44	0.51	0.28	1.42	7.05
K-02-00019	KP-1-1/2-40	G 1"-1/2"	1.57	1.34	2.68	0.63	0.35	2.09	9.17
K-02-00015	KP-2-50	G 2"	1.97	1.69	2.91	0.59	0.35	2.56	14.5
K-02-00018	KP-2-60	G 2"	2.36	2.05	3.07	0.59	0.35	2.56	15.9
K-02-00020	KP-2-1/2-75	G 2-1/2"	2.95	2.68	3.70	0.71	0.43	3.15	21.2
K-02-00123	KP-3-75	G 3"	2.95	2.68	3.58	0.67	0.47	3.78	24.7

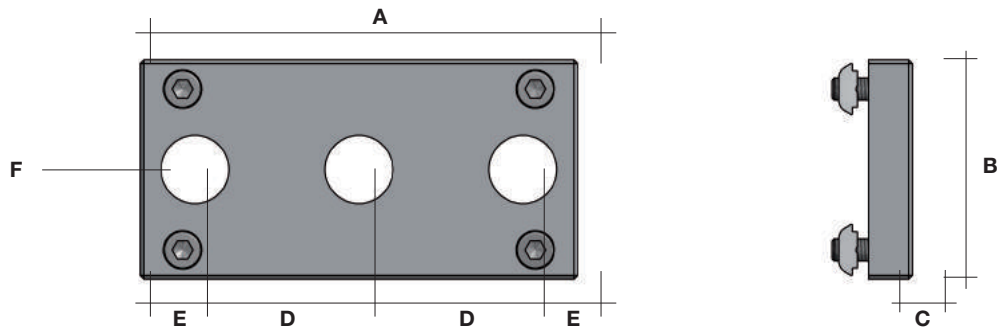


Clamps



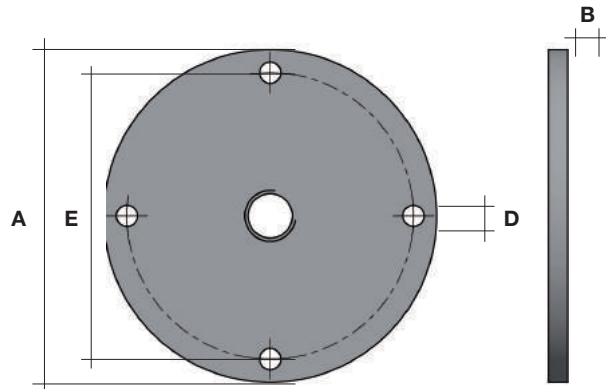
code	description	min/max (in)	B (in)
K-23-00201	KB-27-40	1.06-1.57	0.51
K-23-00202	KB-45-60	1.77-2.36	0.51
K-23-00203	KB-55-70	2.17-2.76	0.51
K-23-00204	KB-70-90	2.76-3.54	0.51

Mounting kit



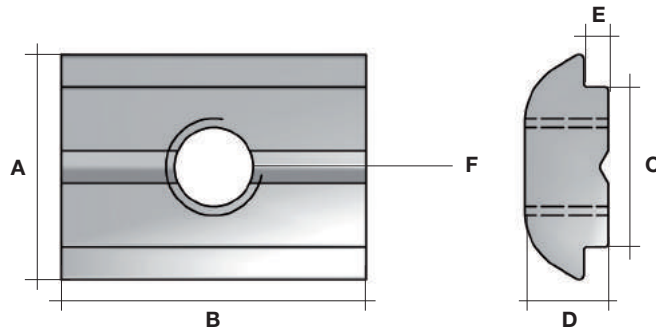
code	description	A (in)	B (in)	C (in)	D (in)	E (in)	F	weight (oz)
K-00-00117	KIT-FL-FX-KVG120-60	4.72	2.36	0.47	1.77	0.59	G 1/2"	8.47

Sealing flange



code	description	A (in)	B (in)	C	D (in)	E (in)	number of holes	weight (oz)
K-00-00081	CH-FL-CON-2-KVG120-60	3.39	0.20	G 1/4"	0.22	2.91	4 x 90°	3.53

Sliders roll-in hollow 10 mm



65

code	description	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)
K-02-00029	11080-M5-U10	0.55	0.75	0.39	0.20	0.06	M5
K-02-00030	11081-M6-U10	0.55	0.75	0.39	0.20	0.06	M6
K-02-00031	11082-M8-U10	0.55	0.75	0.39	0.20	0.06	M8

EV connections cables



code	description
K-90-00104	CONN-M8L-3POLI-5MT-PUR

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Credits

Concept & Design

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