Kenos® KFG

- KFG series is a flexible solution for the handling or manipulation of products with different shapes and dimensions thanks to the use of a foam interface.
- Flow restrictor technology that is suitable when the gripper is fully covered with an even surface object. Works in any orientation and a good option if the handled object is non-leaking. Suitable for handling multiple lifting objects.
- 12mm thick EPDM foam used for flat surface objects where little compensation is needed.
- Two-stage COAX® cartridge MIDI with small mounting dimension for limited spaces. Large vacuum flow in relation to energy consumption. Suitable for high-volume evacuation when handling porous materials or if surface leakage is present.
- Plug&Play solution with UR cap for UR cobots.

Technical data

Description	Unit	Value
Feed pressure, max	MPa	0,7
Temperature range	°C	0-50
Weight	g	823
Materials (body and manifold)	-	AL, HDPE
Noise level range	dBA	73-83
Connection, compressed air	mm	6
Material foam	-	EPDM

Vacuum flow

Feed pressure pump / nozzle	Air consumption	Vacuum flow (Nl/s) at different vacuum levels (-kPa)								Max vacuum
MPa	Nl/s	0	10	20	30	40	50	60	70	-kPa
0.6	1.75	3.3	3.0	2.6	1.7	0.9	0.6	0.5	0.35	75

Evacuation time

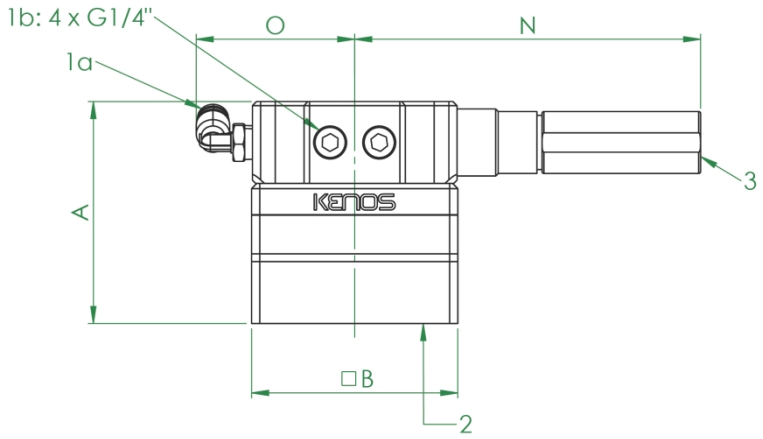
Feed pressure pump / nozzle	Air consumption	Evacuation time (s/l) to reach different vacuum levels (-kPa)							Max vacuum
MPa	Nl/s	10	20	30	40	50	60	70	-kPa
0.6	1.75	0.03	0.07	0.1	0.18	0.33	0.53	0.8	75

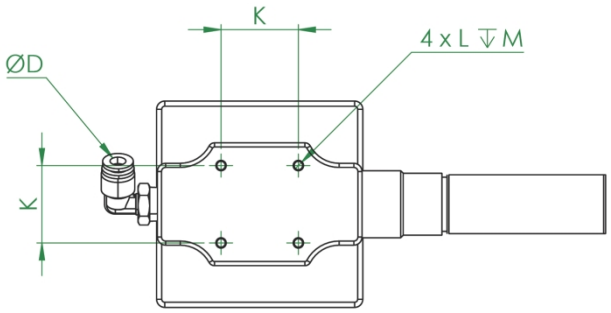
Gripping force

Gripping force* at different vacuum levels, gripper with foam							
-kPa	10	20	30	40	50	60	70
N	20	39	59	79	98	118	137

**Theoretic gripping force at optimum feed pressure on rigid and stable surface with completely covered module, without safety factor.*

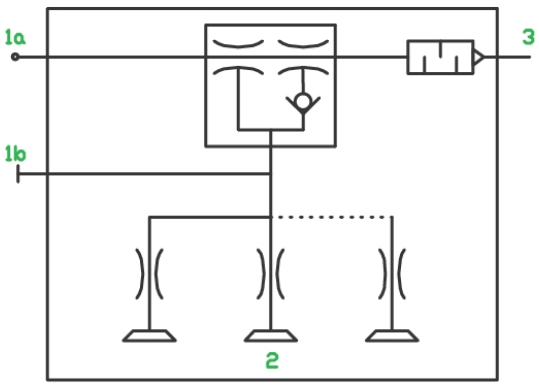
Dimensional drawing





Description	Value mm [in]
A	59.1 [2.33"]
B	120 [4.72"]
D	6 [0.24"]
K	30 [1.18"]
L	M4
M	6 [0.24"]
N	134 [5.28"]
O	70 [2.76"]

Pneumatic diagram



Pos.	Description
1a	Compressed air supply for vacuum
1b	Compressed air supply for blow-off / Vacuum sensing / Vacuum distribution
2	Vacuum
3	Exhaust

Ordering information – Current configuration

Description	Product code KFG.120.120.N121.FR08.S1.32-2.X
Dimensions	Square size 120x120mm
Foam type	Standard EPDM foam
Foam thickness	12mm foam
Step	Standard step
Technology	Flow reduction 0,8mm
Vacuum source	1 cartridge Si32-2
Options	Without fixing interface

Ordering information, spare part foam

Description - Quantity: 3 pieces	Product code

FOAM, Square size 120x120mm, Standard EPDM foam, 12mm foam, Standard step.	FOAM.KFG.120.120.N121

Values specified in this data sheet are tested at (unless otherwise stated):

- Room temperature (20°C [68°F] ± 3°C [5.5°F]).
- Standard atmosphere (101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg]).
- Relative humidity 20-70%.
- Compressed air quality, DIN ISO 8573-1 class 4.