

# Kenos® KSL



- KSL series is a flexible solution for the handling or manipulation of objects with different shapes and dimensions. Designed with a foam body for a lighter gripper that is safe to work around.
- Uninterrupted processes in rugged and dusty environments thanks to its high duty, robust design, materials and valve technology.
- A cobot friendly designed gripper with a very low weight allowing maximizing cobot payload, lifting up to 30 kg (66 lb).
- Low downtimes due to the magnetic EasyFoam system for quick and easy replacement of the foam.
- Equipped with 24mm thick EPDM foam with standard hole size for various picking applications.
- Flow restriction is the choice when the gripper is fully covered. A gripper equipped with flow restriction can operate upside-down.
- Equipped with a single stage high flow cartridge.
- Plug&Play solution with UR cap for UR cobots.

## Technical data

Description	Unit	Value
Feed pressure, max	psi	101.5
Temperature range	°F	32-122
Weight	oz	25.19
Materials (body and manifold)	-	AL, EVA, HDPE, Carbon fibre
Noise level range	dBA	75-85
Connection, compressed air	mm	6
Material foam	-	EPDM

## Vacuum flow

Feed pressure pump / nozzle	Air consumption	Vacuum flow (scfm) at different vacuum levels (-inHg)								Max vacuum
		0	2	5	8	11	14	17	20	
psi	scfm	9.5	9.2	8.3	7.0	4.7	3.4	2.2	0	-inHg
80	7.8									19.19

## Evacuation time

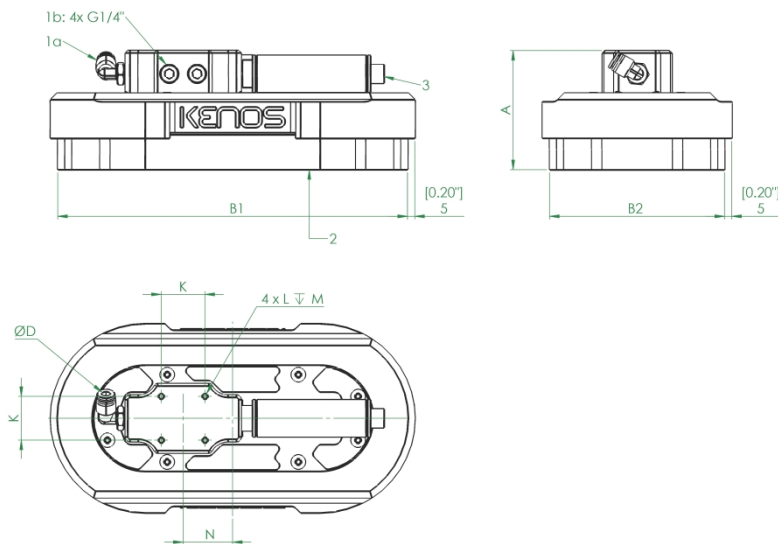
Feed pressure pump / nozzle	Air consumption	Evacuation time (s/cf) to reach different vacuum levels (-inHg)								Max vacuum
		2	5	8	11	14	17	20		
psi	scfm	0.45	1.1	2.4	3.8	6.0	9.7	15.4	-inHg	
80	7.8								19.19	

## Gripping force

Gripping force* at different vacuum levels, gripper with foam							
-inHg	2	5	8	11	14	17	20
lbf	12	25	37	50	62	75	87

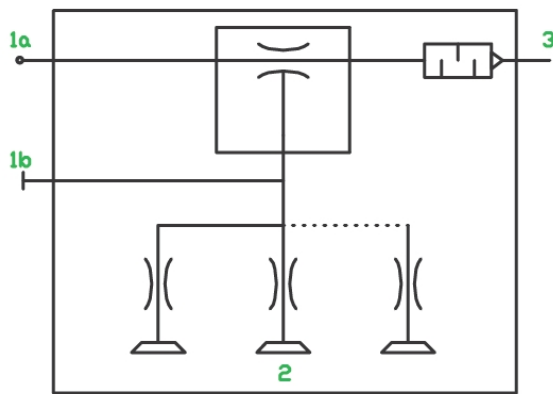
\*Theoretic gripping force at optimum feed pressure on rigid and stable surface with completely covered module, without safety factor.

## Dimensional drawing



Description	Value mm [in]
A	82 [3.23"]
B1	240 [9.45"]
B2	120 [4.72"]
D	6 [0.24"]
K	30 [1.18"]
L	M4
M	6 [0.24"]
N	34 [1.34"]

## Pneumatic diagram



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

## Ordering information – Current configuration

Description	Product code KSL.240.120.N241.FR15.S1.1STH.X
Dimensions	Gripper size 240x120mm
Foam type	Standard EPDM foam
Foam thickness	24mm foam
Hole diameter	Standard hole size
Technology	Flow reduction 1,5mm
Vacuum source	1 cartridge single stage high flow
Options	Without fixing interface

## Ordering information, spare part foam

Description	Product code
FOAM, Gripper size 240x120mm, Standard EPDM foam, 24mm foam, Standard hole size	FOAM.KSL.240.120.N241

### 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.

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