

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	MPa	0,7
Temperature range	°C	0-50
Weight	g	714
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 (NI/s) at different vacuum levels (-kPa)								Max vacuum	
		0	10	20	30	40	50	60	70		-kPa
MPa	NI/s										
0.55	3.68	4.48	4.34	3.92	3.30	2.22	1.61	1.04	0	65	

Evacuation time

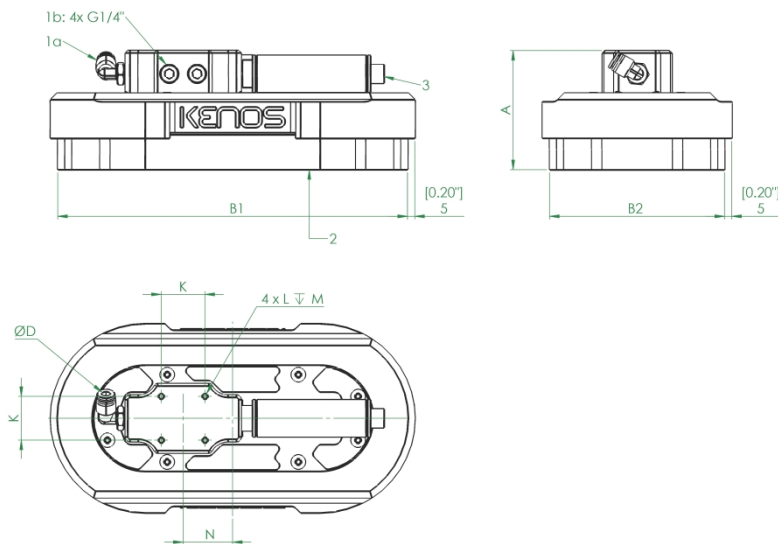
Feed pressure pump / nozzle	Air consumption	Evacuation time (s/l) to reach different vacuum levels (-kPa)								Max vacuum
		10	20	30	40	50	60	70	-kPa	
MPa	NI/s									
0.55	3.68	0	0	0.1	0.1	0.2	0.3	0.5	65	

Gripping force

Gripping force* at different vacuum levels, gripper with foam								
-kPa	10	20	30	40	50	60	70	
N	55	111	166	222	277	333	388	

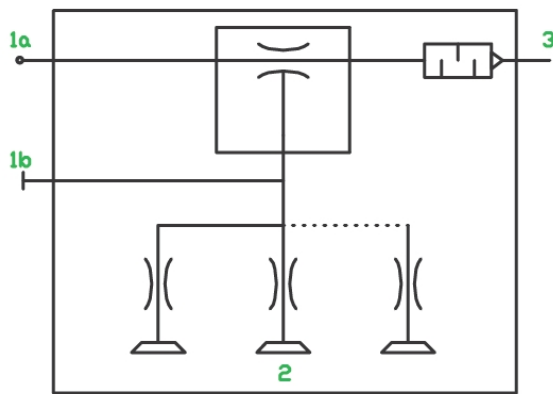
*Theoretic gripping force at optimum feed pressure on rigid and stable surface with completely covered module, without safety factor.

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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