

Foam Gripper / FGS with fine pitch and self-closing valves

FGS-120-1000

- The FGS-120 series of VACUUM FOAM GRIPPERS represents a modular and versatile solution for handling different products with different sizes, shapes and porosity
- Integrated EJ-LARGE-HF-3 multistage cartridges for high suction flow rate and low energy consumption
- The version with self-closing valves is ideal in applications where objects with different sizes/shapes need to be handled. It allows the user to work with smaller vacuum pumps, reducing consumption while maintaining a high level of vacuum, even when most of the gripper surface area is not engaged



Technical features	
Max feed pressure	0.6 MPa
Temperature range	0 ÷ +50 °C
Weight	9.25 kg
Material	Al, EPDM, NBR, PA12
Noise level	70 dB

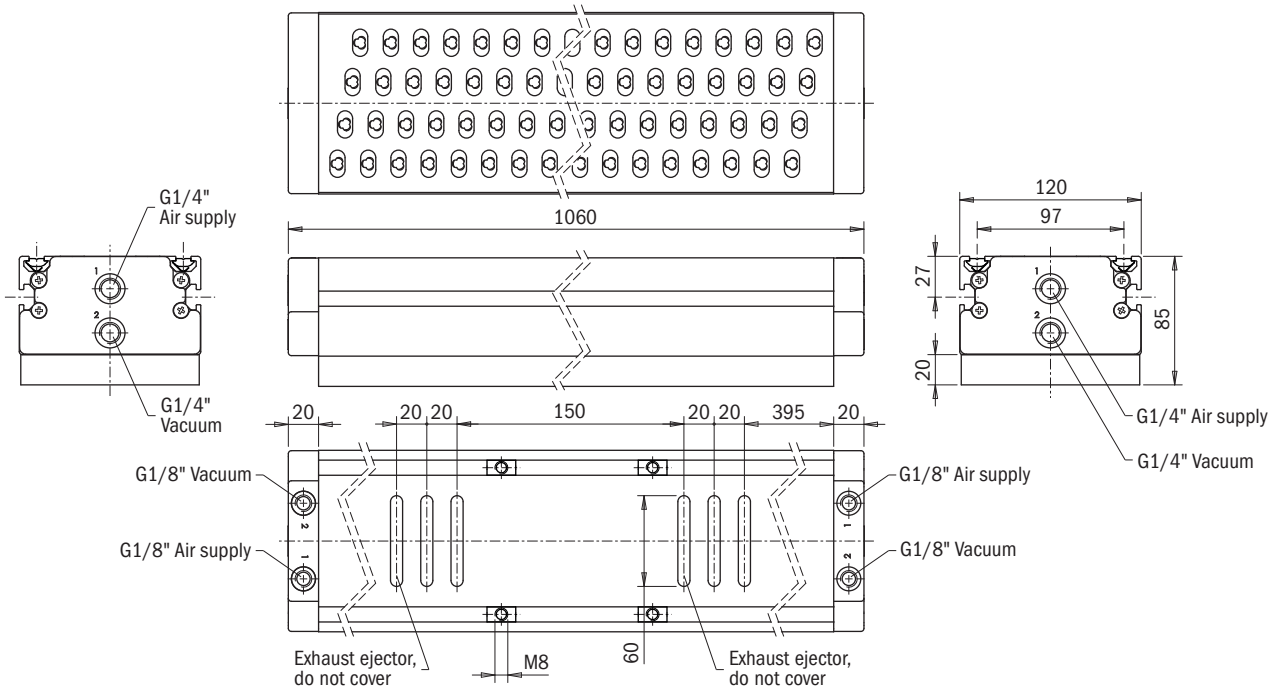
Suction flow rate											
Model	Feed pressure [MPa]	Air consumption [l/s]	Suction flow rate [l/s] at different vacuum levels [kPa]								Max vacuum [kPa]
			0	-10	-20	-30	-40	-50	-60	-70	
FGS-120-1000-F20-OT-VA-EJL6XX	0.6	10.2	34	21	15.6	10.2	5.4	3.6	2.9	2	-73
FGS-120-1000-F20-OT-VA-EJL8XX	0.6	13.6	47	26	20.8	11.8	7.1	4.5	2.9	2	-73

Gripping force					
Model	Gripping force [N] at different vacuum levels				
	-30 kPa	-40 kPa	-50 kPa	-60 kPa	-70 kPa
FGS-120-1000-F20	920	1230	1540	1843	2150

Theoretical gripping force on flat surface, with fully covered gripping surface, safety factor excluded
Standard foam thickness: 20 mm

Identification codes

Alphanumeric code	Description	Order code
FGS-120-1000-F20-OT-VA-EJL6XX	Foam Gripper (120x1000 mm), fine pitch, self-closing valves	353011006
FGS-120-1000-F20-OT-VA-EJL8XX	Foam Gripper (120x1000 mm), fine pitch, self-closing valves	353011008



Identification codes

Alphanumeric code	Spare parts	Order code
FGS-120-1000-F20-OT	Foam Gripper (120x1000 mm), 20 mm-thick foam, fine pitch	353012010

