

# Vacuum gripping systems with foam / FGS-060 with fine pitch and self-closing valves



## FGS-060-1000-F20-OT-VA

- The FGS-060 series of vacuum gripping systems, in the version with foam, is 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	4 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-060-1000-F20-OT-VA-EJL4XX	0.6	6.8	23.6	14	10	6.8	3.56	2.48	2.04	1.24	-73

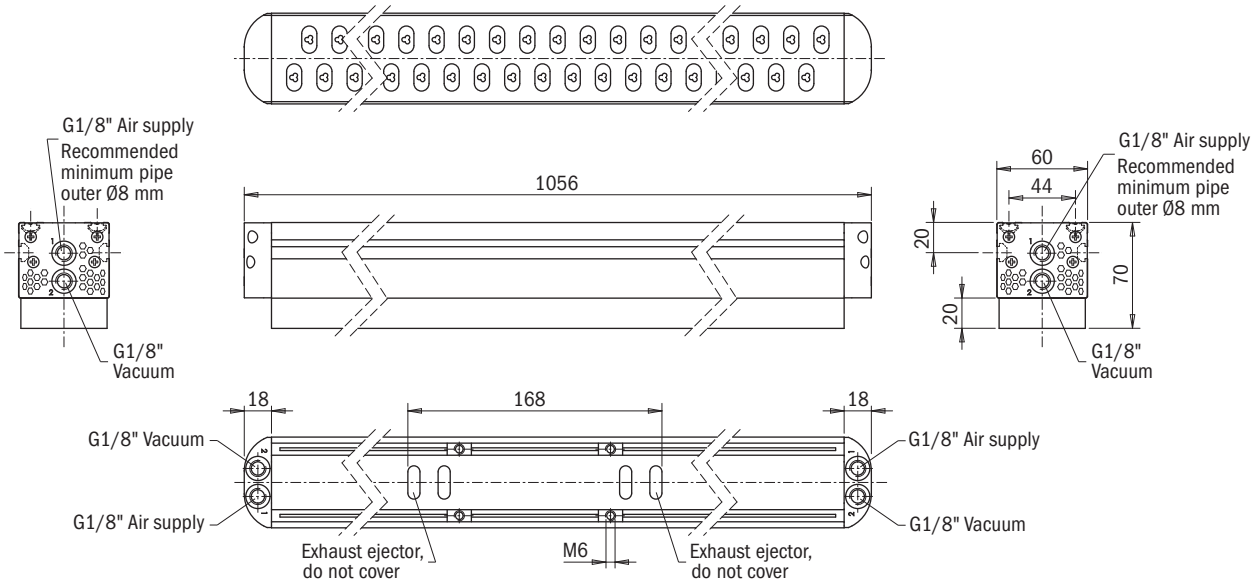
### Gripping force

Model	Gripping force [N] at different vacuum levels				
	-30 kPa	-40 kPa	-50 kPa	-60 kPa	-70 kPa
FGS-060-1000-F20	472	629	783	940	1100

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

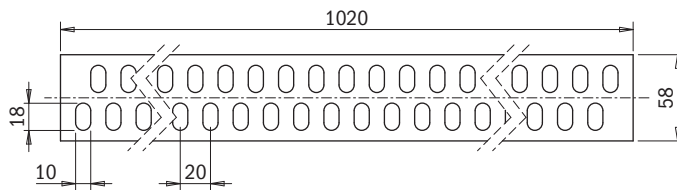
**Identification codes**

Alphanumeric code	Description	Order code
FGS-060-1000-F20-OT-VA-EJL4XX	Vacuum gripping system with foam, 60x1000 mm, fine pitch, with integrated self-closing valves	360011004



**Identification codes**

Alphanumeric code	Spare parts	Order code
FGS-060-1000-F20-OT	Spare EPDM foam, 60x1000 mm, thickness 20 mm, fine pitch	360012010



Introduction

Vacuum theory

Suction cups

Vacuum pumps

Vacuum gripping systems

Customised solutions

Suspensions

System accessories