

EJ CARTRIDGE SELECTION GUIDE

Gimatic's EJ multistage cartridges are available in 3 sizes:

- EJ-SMALL
- EJ-MEDIUM
- EJ-LARGE

Each multi-stage cartridge has different characteristics depending on the model.

Size	Model	Vacuum level	Low feed pressure	High vacuum level	High suction flow rate	High initial flow rate
SMALL	EJ-SMALL-LP-2	-82 kPa	X			
	EJ-SMALL-HF-2	-78 kPa			X	
	EJ-SMALL-HV-2	-92 kPa		X		
MEDIUM	EJ-MEDIUM-LP-2	-90 kPa	X			
	EJ-MEDIUM-LP-3	-90 kPa	X			X
	EJ-MEDIUM-HF-2	-73 kPa			X	
	EJ-MEDIUM-HF-3	-73 kPa			X	X
	EJ-MEDIUM-HV-2	-94 kPa		X		
	EJ-MEDIUM-HV-3	-94 kPa		X		X
LARGE	EJ-LARGE-LP-2	-90 kPa	X			
	EJ-LARGE-LP-3	-90 kPa	X			X
	EJ-LARGE-HF-2	-73 kPa			X	
	EJ-LARGE-HF-3	-73 kPa			X	X
	EJ-LARGE-HV-2	-94 kPa		X		
	EJ-LARGE-HV-3	-94 kPa		X		X



CHARACTERISTICS

EJ-LP (LOW PRESSURE)

The EJ-LP cartridges can reach a high vacuum level with low feed pressure. They are recommended both in applications such as the handling of glass panels or metal sheets and in all sealed circuits, where a good flow rate at a high vacuum level is required.

EJ-HF (HIGH FLOW)

EJ-HF cartridges evacuate large volumes of air. They are therefore suitable for handling porous objects such as cardboard, wood and materials with uneven surfaces. Ideal where it is necessary to evacuate large volumes of air to keep the circuit at a certain level of vacuum during the production cycle, compensating for any leaks.

EJ-HV (HIGH VACUUM)

EJ-HV cartridges are ideal for sealed applications such as glass panel handling, metal sheet handling and thermoforming applications.

MATERIALS



- PA= Polyamide, Nylon®
- Al= Aluminium
- NBR= Nitrile
- SS= Stainless steel

RECOMMENDED TUBE DIMENSIONS (internal diameter)



Connections	EJ-SMALL cartridge	EJ-MEDIUM cartridge	EJ-LARGE cartridge
Compressed air	≥ 2.5 mm	≥ 4 mm	≥6 mm
Vacuum	≥ 2.5 mm	≥8 mm	≥12 mm
Exhaust	≥ 8 mm	≥10 mm	≥15 mm

* Applies to pipes up to 1.5 m long

GIMATIC CARTRIDGE EJECTORS FOR INTEGRATED SOLUTIONS

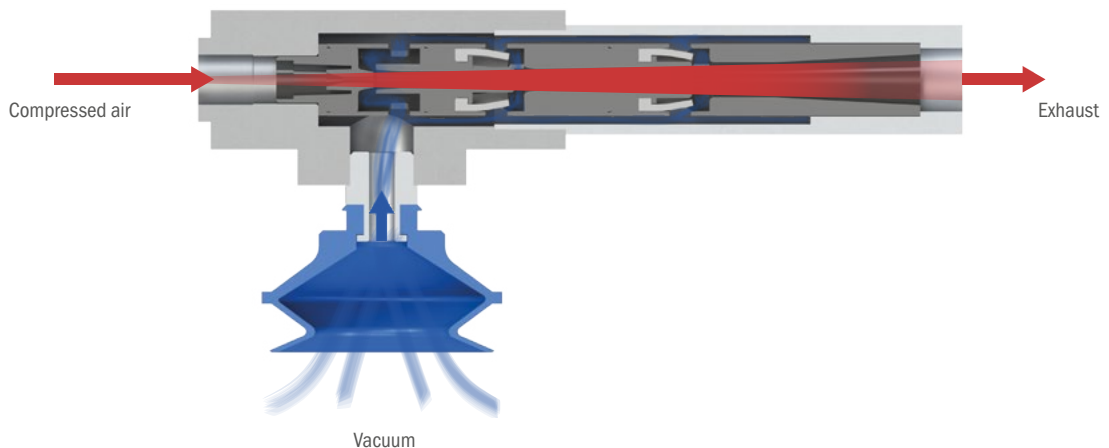
Gimatic's multi-stage cartridge ejectors create vacuum using compressed air. Our vacuum pumps are compact in size, efficient and reliable, ideal to meet the integration requirements of our customers. They allow the development of flexible, modular and lightweight vacuum systems.

Modularity and flexibility enable to meet market changes, with reduced costs and increased productivity. Gimatic develops and manufactures products with high quality standards, which allow to improve production processes with reduced energy consumption.



OPERATING PRINCIPLE OF GIMATIC'S EJ CARTRIDGES

When compressed air passes through the nozzles, the air is sucked by means of the compressed air flow. The suction is generated at each stage, resulting in the generation of vacuum.





LOW ENERGY CONSUMPTION AND REDUCED DOWNTIME

Integrating the EJ cartridges right into the machines enables to generate vacuum near the point of use, which makes the most of the energy employed and increases the operating speed, eliminating pressure drops and possible inefficiencies of the vacuum circuit.



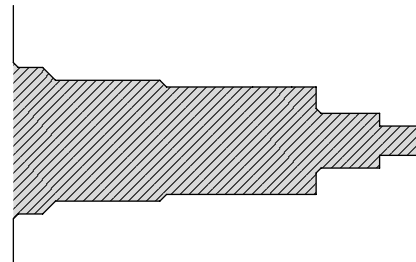
INTEGRATION - ADVANTAGES

Bringing the pump closer to the point of use guarantees:

- Greater Efficiency
- Reduced energy consumption
- Better monitoring of the system
- Reduced gripping and release times

HOW TO INTEGRATE THE EJ MULTISTAGE CARTRIDGES

Simply make a hole and insert the suction cartridge to obtain a completely integrated vacuum system.



EXAMPLES OF INTEGRATION



EJ-SMALL cartridge in-line integration



Decentralised EOAT with rapid prototyping



Integration of EJ-MEDIUM cartridges on EOAT in rapid prototyping - Pick-and-Place application