

Foam Gripper / FGS with medium 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 | 9.11 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-RM-VA-EJL6XX | 0.6 | 10.2 | 34 | 21 | 15.6 | 10.2 | 5.4 | 3.6 | 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

