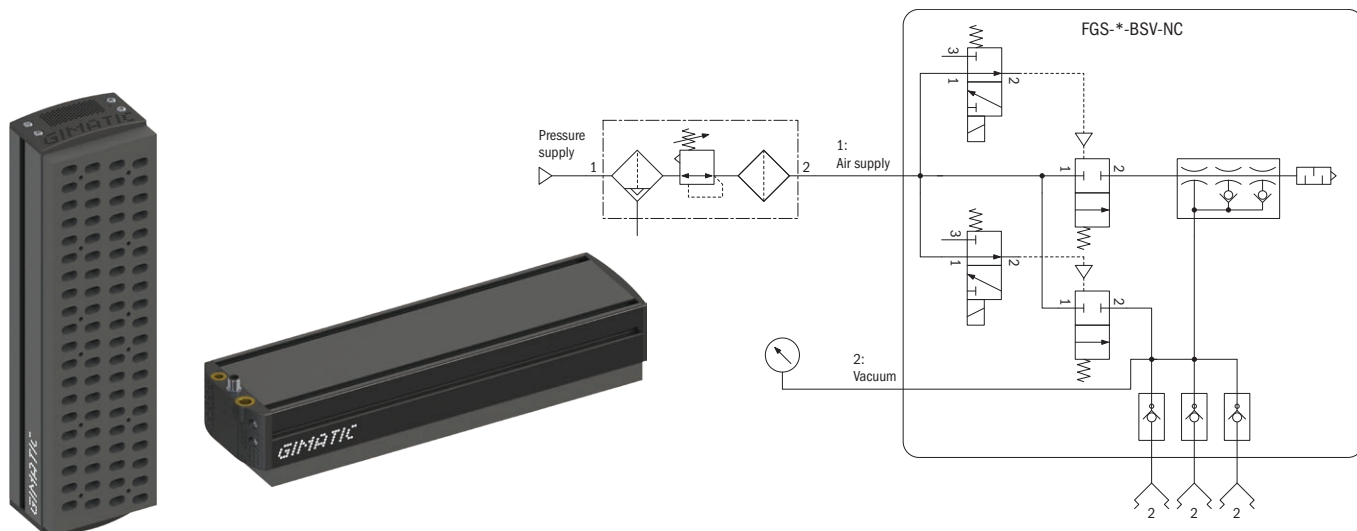


Vacuum gripping systems with foam / FGS-120-SV with fine pitch and self-closing valves and solenoid valves integrated



FGS-120-0400-F20-0T-VA-BSV-NC

- The FGS-120-SV 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
- With ON/OFF vacuum solenoid valve with manual override control
- With ON/OFF blow-off solenoid valve with manual override control



Technical features

| | |
|-------------------|-------------------------|
| Max feed pressure | 0.6 MPa |
| Temperature range | 0 ÷ +50 °C |
| Weight | 4 kg |
| Material | SS, AI, EPDM, NBR, PA12 |
| Noise level | 70 dB |

Technical features of the solenoid valves

| | |
|-------------------------------|-------------------------|
| Power absorption | 2.5 W (each valve) |
| Drive voltage | 24 Vcc ±10% |
| Type of electrical connection | 5-pin M12x1 (each side) |
| Manual Override | yes |
| IP rating | IP65 |

Suction flow rate

| Model | Feed pressure [MPa] | Air consumption [NI/s] | Suction flow rate [NI/s] at different vacuum levels [kPa] | | | | | | | | Max vacuum [kPa] |
|------------------------------------|------------------------|------------------------------|---|-----|-----|-----|------|------|------|------|---------------------|
| | | | 0 | -10 | -20 | -30 | -40 | -50 | -60 | -70 | |
| FGS-120-0400-F20-0T-VA-EJL4-BSV-NC | 0.6 | 6.8 | 23.6 | 14 | 10 | 6.8 | 3.56 | 2.48 | 2.04 | 1.24 | -73 |

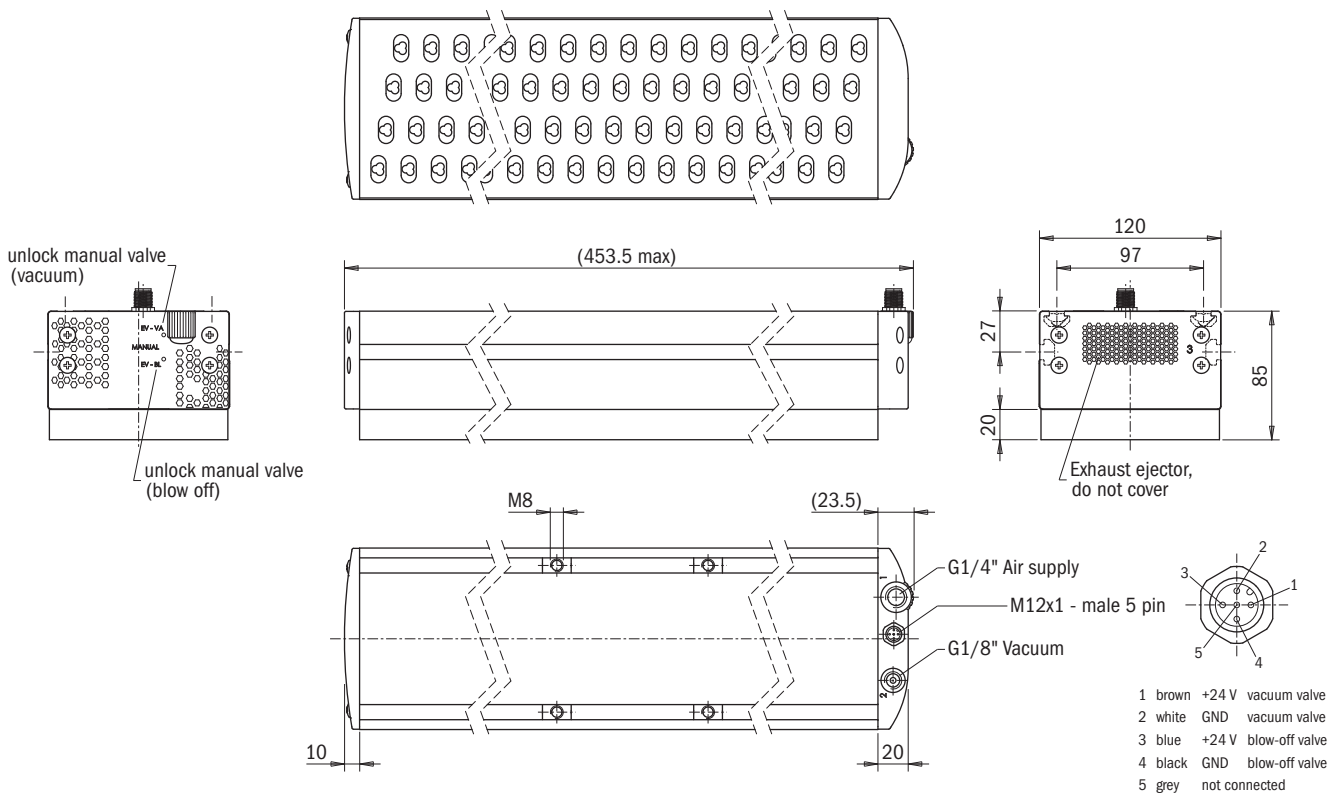
Gripping force

| Model | Gripping force [N] at different vacuum levels | | | | |
|------------------|---|---------|---------|---------|---------|
| | -30 kPa | -40 kPa | -50 kPa | -60 kPa | -70 kPa |
| FGS-120-0400-F20 | 175 | 220 | 278 | 335 | 395 |

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-120-0400-F20-OT-VA-EJL4-BSV-NC | Vacuum gripping system with foam, 120x400 mm, fine pitch, with integrated self-closing valves, NC 3/2 solenoid valve for vacuum and NC 3/2 solenoid valve for blow-off, 24 Vdc, 2.5 W (for each solenoid valve) | 357010404 |



Identification codes

| Alphanumeric code | Spare parts | Order code |
|---------------------|--|------------|
| FGS-120-0400-F20-OT | Spare EPDM foam, 120x200 mm, thickness 20 mm, fine pitch | 353012004 |

