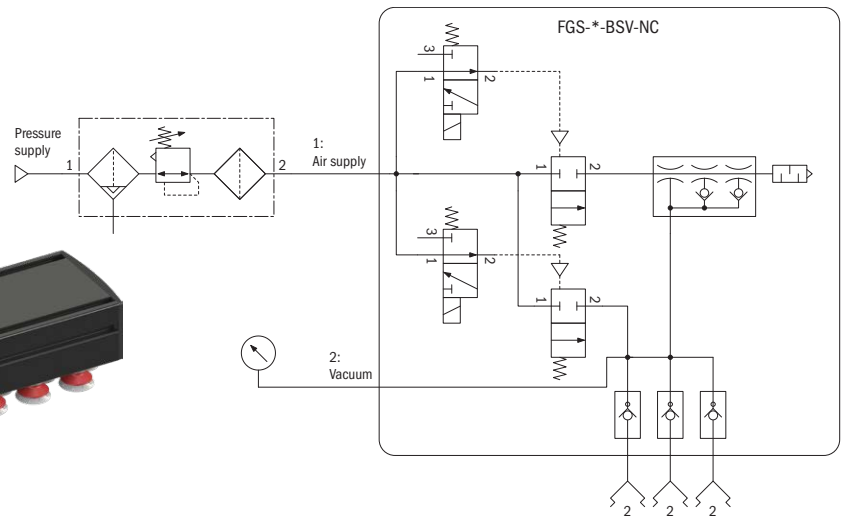


# Vacuum gripping systems with suction cups / FGS-120-SV with VG.IS35P suction cups, self-closing valves and integrated solenoid valves

## FGS-120-0400-IS35-SC-VA-BSV-NC

- The FGS-120-SV series of vacuum gripping systems, in the version with suction cups, is a modular and configurable solution
- Integrated EJ-LARGE-HF-3 multistage cartridges for high suction flow rate and low energy consumption
- The VG.IS polyurethane suction cups ensure high wear resistance and adaptability to uneven surfaces
- The integrated self-closing valve allows objects with different sizes/shapes to be handled. Amongst the typical applications are the palletization and handling in the packaging, sheet metal, glass and wood industries
- 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	3.7 kg
Material	Al, EPDM, NBR, PA12, PU30/60
Number of suction cups	34
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-IS35-SC-VA-EJL3-BSV-NC	0.6	5.1	17.7	10.5	7.5	5.1	2.67	1.86	1.53	0.93	-73

**Gripping force**

Model	Gripping force [N] at different vacuum levels				
	-30 kPa	-40 kPa	-50 kPa	-60 kPa	-70 kPa
FGS-120-0400-IS35	760	960	1110	1230	1340

Theoretical gripping force on stable, rigid surface with fully covered module, safety factor excluded

**Identification codes**

Alphanumeric code	Description	Order code
FGS-120-0400-IS35-SC-VA-EJL3-BSV-NC	Vacuum gripping system with VG.IS35P suction cups, 120x400 mm, with integrated self-closing valves, 3/2 NC solenoid valve for vacuum and 3/2 NC solenoid valve for blow-off, 24 Vdc, 2.5 W (per solenoid valve)	357350403

