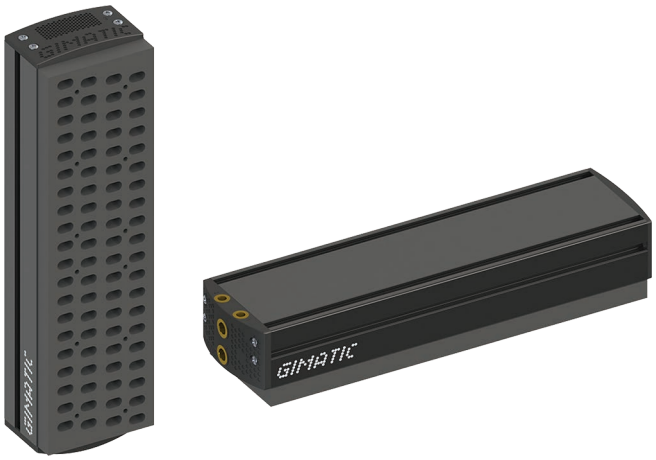
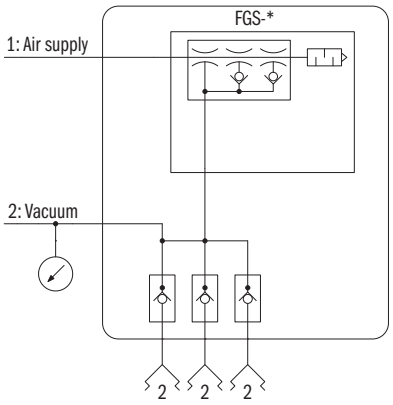
Vacuum gripping systems with foam / FGS-120 fine pitch with self-closing valves

FGS-120-XXXX-F20-0T-VA

- The FGS-120 series of vacuum gripping systems, in the version with foam, is a modular and versatile solution for handling a variety of products of different sizes, shapes and porosity
- Integrated EJ-LARGE-HF-3 multistage cartridges to ensure high suction flow rate and low power consumption
- The version with self-closing valves is ideal for applications where objects of different sizes/ shapes need to be handled. It allows the user to work with smaller vacuum pumps and reduces consumption and maintains a high vacuum level even though most of the surface area of the gripper may not be gripping





Technical features	
Max feed pressure	0.6 MPa
Temperature range	0 ÷ +50 °C
Weight	2.29 kg (200), 3.12 kg (300), 4.01 kg (400), 5.6 kg (600), 6.8 kg (700) 7.68 kg (800), 9.41 kg (1000), 11.18 kg (1200)
Material	Al, EPDM, NBR, PA12
Noise level	70 dB

Suction flow rate

Model	Feed pressure	Air consumption	Suction flow rate [Nl/s] at different vacuum levels [kPa]								Max vacuum
	[MPa]	[Nl/s]	0	-10	-20	-30	-40	-50	-60	-70	[kPa]
FGS-120-0200-F20-0T-VA-EJL2XX	0.6	3.4	11.8	7	5	3.4	1.78	1.24	1.02	0.62	-73
FGS-120-0200-F20-0T-VA-EJL4XX	0.6	6.8	23.6	14	10	6.8	3.56	2.48	2.04	1.24	-73
FGS-120-0300-F20-0T-VA-EJL3XX	0.6	5.1	17.7	10.5	7.5	5.1	2.67	1.86	1.53	0.93	-73
FGS-120-0400-F20-0T-VA-EJL3XX	0.6	5.1	17.7	10.5	7.5	5.1	2.67	1.86	1.53	0.93	-73
FGS-120-0400-F20-0T-VA-EJL4XX	0.6	6.8	23.6	14	10	6.8	3.56	2.48	2.04	1.24	-73
FGS-120-0600-F20-0T-VA-EJL4XX	0.6	6.8	23.6	14	10	6.8	3.56	2.48	2.04	1.24	-73
FGS-120-0600-F20-0T-VA-EJL6XX	0.6	10.2	34	21	15.6	10.2	5.4	3.6	2.9	2	-73
FGS-120-0700-F20-0T-VA-EJL4XX	0.6	6.8	23.6	14	10	6.8	3.56	2.48	2.04	1.24	-73
FGS-120-0800-F20-0T-VA-EJL6XX	0.6	10.2	34	21	15.6	10.2	5.4	3.6	2.9	2	-73
FGS-120-0800-F20-0T-VA-EJL8XX	0.6	13.6	47	26	20.8	11.8	7.1	4.5	2.9	2	-73
FGS-120-1000-F20-0T-VA-EJL6XX	0.6	10.2	34	21	15.6	10.2	5.4	3.6	2.9	2	-73
FGS-120-1000-F20-0T-VA-EJL8XX	0.6	13.6	47	26	20.8	11.8	7.1	4.5	2.9	2	-73
FGS-120-1200-F20-0T-VA-EJL4XX	0.6	6.8	23.6	14	10	6.8	3.56	2.48	2.04	1.24	-73
FGS-120-1200-F20-0T-VA-EJL6XX	0.6	10.2	34	21	15.6	10.2	5.4	3.6	2.9	2	-73
FGS-120-1200-F20-0T-VA-EJL8XX	0.6	13.6	47	26	20.8	11.8	7.1	4.5	2.9	2	-73

Gripping force

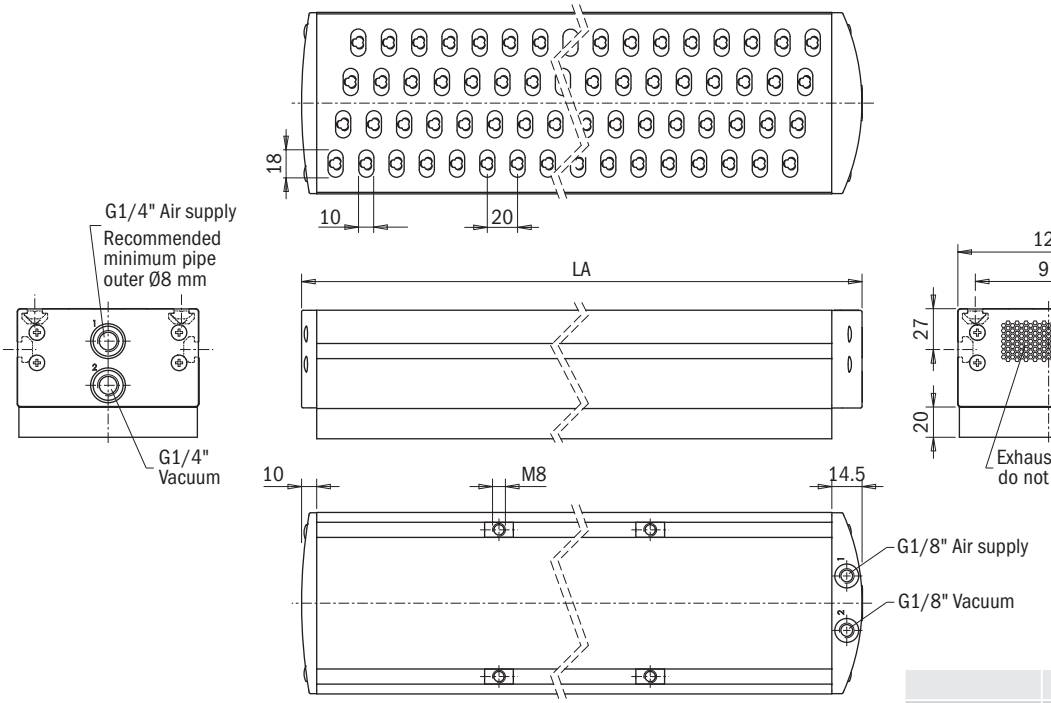
Model	Gripping force [N] at different vacuum levels				
	-30 kPa	-40 kPa	-50 kPa	-60 kPa	-70 kPa
FGS-120-0200-F20	175	220	278	335	395
FGS-120-0300-F20	262.5	347.5	439	525	617.5
FGS-120-0400-F20	350	475	600	715	840
FGS-120-0600-F20	567	756	945	1134	1323
FGS-120-0700-F20	649	869	1086	1303	1518
FGS-120-0800-F20	730	981	1227	1472	1712
FGS-120-1000-F20	920	1230	1540	1843	2150
FGS-120-1200-F20	1115	1479	1851	2220	2590

Theoretical gripping force on flat surface with fully covered gripping surface, excluding the factor of safety
Standard 20 mm thickness of foam

Identification codes

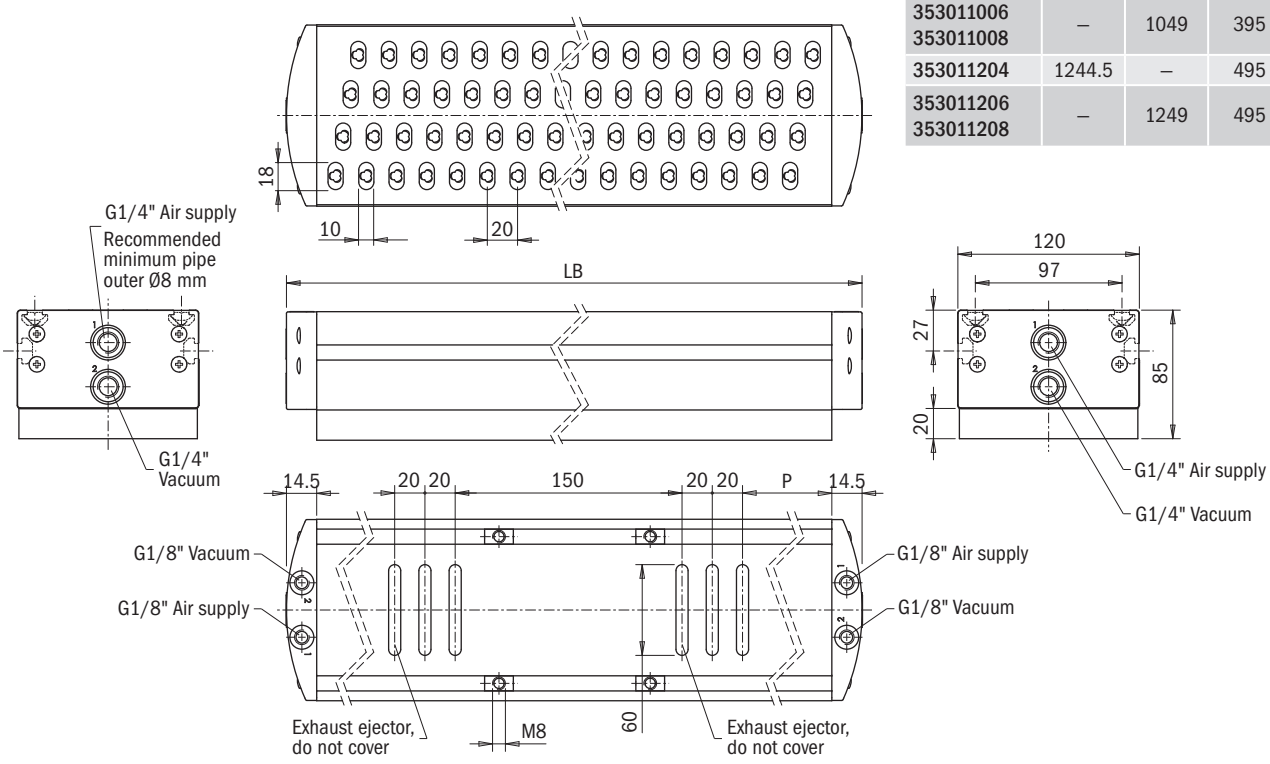
Drawing	Alphanumeric code	Description	Order code
A	FGS-120-0200-F20-OT-VA-EJL2XX	Vacuum gripping systems with foam, 120x200 mm, fine pitch with integrated self-closing valves	353010202
A	FGS-120-0200-F20-OT-VA-EJL3XX	Vacuum gripping systems with foam, 120x200 mm, fine pitch with integrated self-closing valves	353010203 NEW
A	FGS-120-0200-F20-OT-VA-EJL4XX	Vacuum gripping systems with foam, 120x200 mm, fine pitch with integrated self-closing valves	353010204
A	FGS-120-0300-F20-OT-VA-EJL3XX	Vacuum gripping systems with foam, 120x300 mm, fine pitch with integrated self-closing valves	353010303
A	FGS-120-0400-F20-OT-VA-EJL3XX	Vacuum gripping systems with foam, 120x400 mm, fine pitch with integrated self-closing valves	353010403
A	FGS-120-0400-F20-OT-VA-EJL4XX	Vacuum gripping systems with foam, 120x400 mm, fine pitch with integrated self-closing valves	353010404
A	FGS-120-0600-F20-OT-VA-EJL4XX	Vacuum gripping systems with foam, 120x600 mm, fine pitch with integrated self-closing valves	353010604
B	FGS-120-0600-F20-OT-VA-EJL6XX	Vacuum gripping systems with foam, 120x600 mm, fine pitch with integrated self-closing valves	353010606
A	FGS-120-0700-F20-OT-VA-EJL4XX	Vacuum gripping systems with foam, 120x700 mm, fine pitch with integrated self-closing valves	353010704
B	FGS-120-0800-F20-OT-VA-EJL6XX	Vacuum gripping systems with foam, 120x800 mm, fine pitch with integrated self-closing valves	353010806
B	FGS-120-0800-F20-OT-VA-EJL8XX	Vacuum gripping systems with foam, 120x800 mm, fine pitch with integrated self-closing valves	353010808
B	FGS-120-1000-F20-OT-VA-EJL6XX	Vacuum gripping systems with foam, 120x1000 mm, fine pitch with integrated self-closing valves	353011006
B	FGS-120-1000-F20-OT-VA-EJL8XX	Vacuum gripping systems with foam, 120x1000 mm, fine pitch with integrated self-closing valves	353011008
A	FGS-120-1200-F20-OT-VA-EJL4XX	Vacuum gripping systems with foam, 120x1200 mm, fine pitch with integrated self-closing valves	353011204
B	FGS-120-1200-F20-OT-VA-EJL6XX	Vacuum gripping systems with foam, 120x1200 mm, fine pitch with integrated self-closing valves	353011206
B	FGS-120-1200-F20-OT-VA-EJL8XX	Vacuum gripping systems with foam, 120x1200 mm, fine pitch with integrated self-closing valves	353011208

A



	LA	LB	P
353010202 353010203 353010204	244.5	–	–
353010303	344.5	–	–
353010403 353010404	444.5	–	–
353010604 353010606	644.5 –	– 649	– –
353010704	744.5	–	–
353010806 353010808	–	849	295
353011006 353011008	–	1049	395
353011204	1244.5	–	495
353011206 353011208	–	1249	495

B



Code and technical features of the spare foam: page 588