Vacuum gripping systems with foam / FCR 240x120 mm, fine pitch with calibrated holes

FCR-240-120-F20-R08-06-LX2-HF-2

- The FCR series of vacuum gripping systems is ideal for pick-and-place operations and for handling products with different sizes, shapes, and porosities, making it suitable for a wide range of applications
- The version with calibrated holes is ideal for applications that require turning of the handled object by more than 45° and at least half of the surface of the gripper to be in contact with the object
- The compact size of 240x120 mm makes it ideal for filling packs
- Integrated EJ-LARGE-HF multistage cartridges to ensure high suction flow rate and low power consumption
- Ideal for collaborative applications thanks to its rounded shape and reduced weight. It can also feature an ISO-50 flange (MFI-A374-A) for direct mounting to collaborative robots

NEW



Technical features	
Max feed pressure	0.6 MPa
Temperature range	0 ÷ +50 °C
Weight	656 g
Material	PA12, EPDM, NBR, Al, Br
Noise level	70 dB

Suction flow rate

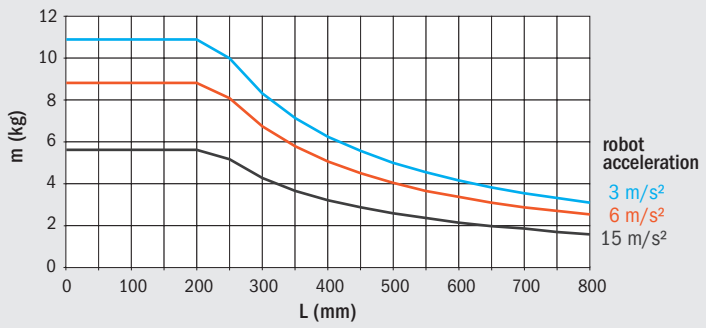
Model	Feed pressure	Air consumption	Suction flow rate [Nl/s] at different vacuum levels								Max vacuum
	[MPa]	[Nl/s]	0	-10	-20	-30	-40	-50	-60	-70	[kPa]
FCR-240-120-F20-R08-06-LX2-HF-2	0.6	3.4	6.4	6	15	3.4	1.78	1.24	1.02	0.62	-73

Gripping force

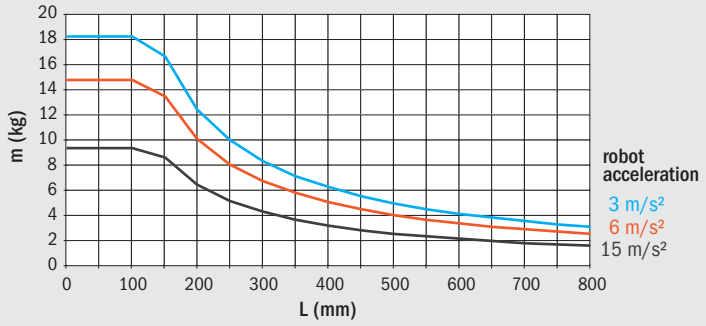
Model	Gripping force [N] at different vacuum levels				
	-30 kPa	-40 kPa	-50 kPa	-60 kPa	-70 kPa
FCR-240-120-F20-R08-06	140	187	234	280	327

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

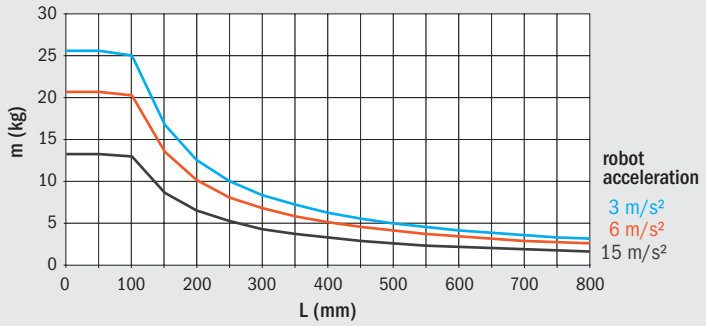
Load capacity at -30 kPa

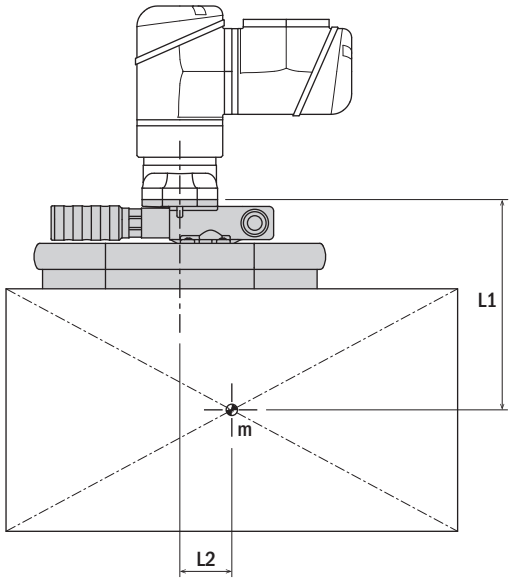


Load capacity at -50 kPa



Load capacity at -70 kPa

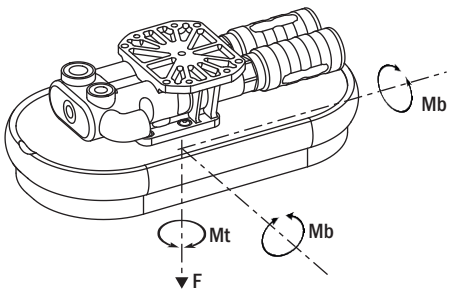




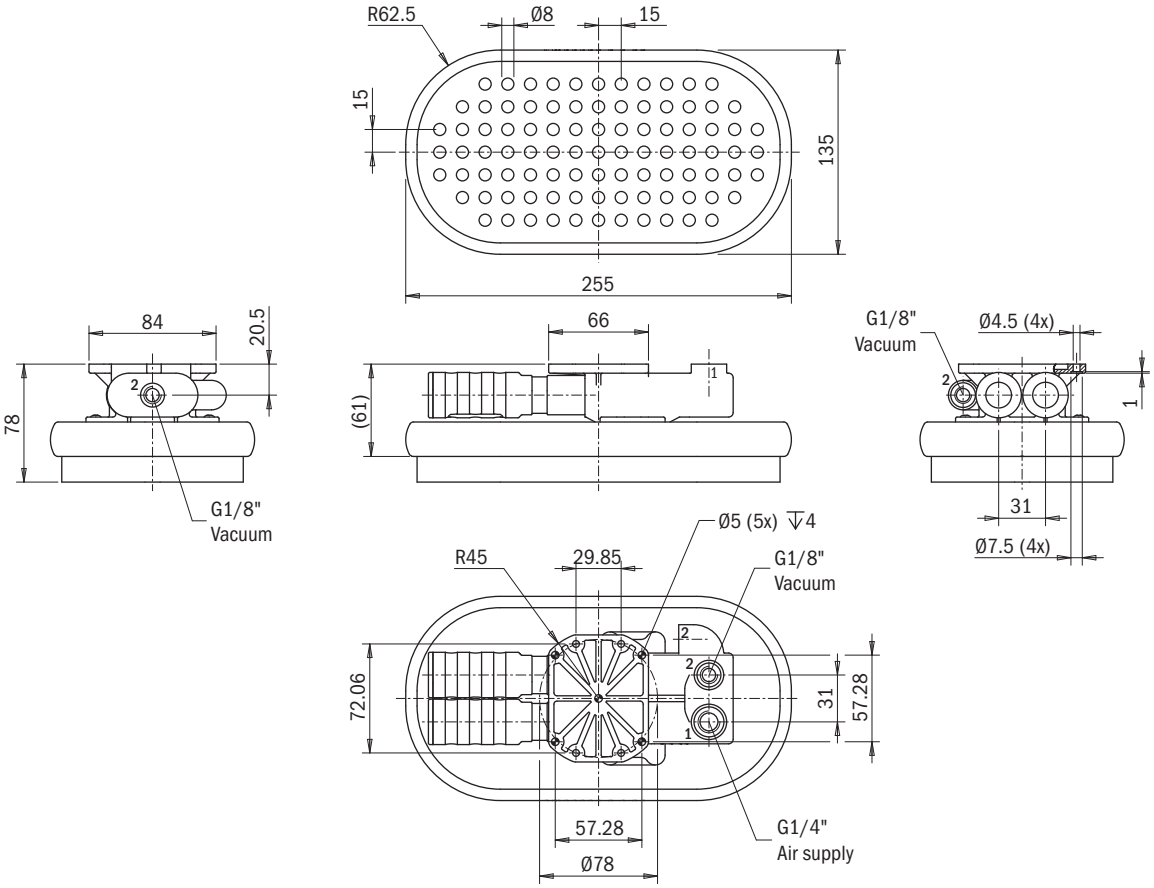
L= max (L1, L2)
m= center of mass

Safety loads

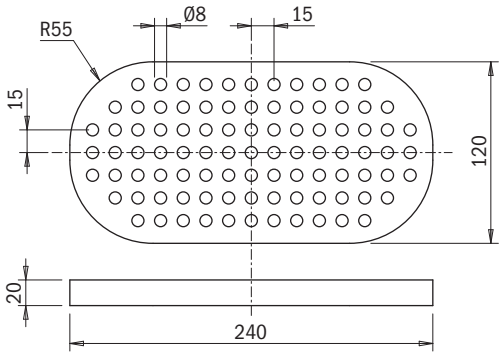
	-30 kPa	-50 kPa	-70 kPa
F max	140 N	234 N	327 N
Mb	48.1 Nm	48.1 Nm	48.1 Nm
Mt	156 Nm	156 Nm	156 Nm



Identification codes		
Alphanumeric code	**Description**	**Order code**
FCR-240-120-F20-R08-06-LX2-HF-2	Vacuum gripping system for cobot, 240x120 mm, with 20 mm thick foam, integrated vacuum generator, Ø0.6 mm calibrated holes	**374060001**



Identification codes		
Alphanumeric code	**Spare parts**	**Order code**
FCR-240-120-F20-R08	Spare EPDM foam, 240x120 mm, 20 mm thick, fine pitch	**374010007**



Identification codes		
Alphanumeric code	**Accessories**	**Order code**
BNRV	Blow-off non-return valve	**3100028**
AVG-100-D40	Analogue vacuum gauge G1/8", -100 kPa / -30 inHg	**3030165**
VACSDAN220-G	Digital vacuum switch with colour display, with DIN connector	**3030157**
–	Interface plate	**MFI-A374-A**

Notes