piab Evolving automation

Item no: VGS™5010_BL50-3P

VGS™5010 BL50-3P

Piab VGS™ – A product design where different suction cups are integrated with vacuum cartridges based on the patented COAX® technology. The “vacuum gripper” makes selection, sizing and installation of a vacuum system easier. With a VGS™ you will enjoy the benefits of a more cost-efficient and reliable... decentralized vacuum system.

- Patented COAX® technology.
- Suitable for high flow applications such as plastic bag handling.
- The design provides enough strength and stability when handling plastic bags, while providing the softness and flexibility required to seal on uneven surfaces.
- This suction cup is made of DURAFLEX® material and the bellows and sealing lip are of different hardness.
- The suction cup has a special high-flow fitting.
- Available with a two or three-stage COAX® cartridge MIDI. Choose an Si cartridge for extra vacuum flow or a Pi cartridge for high performance at low feed pressure.
- The three-stage cartridge will give extra high initial vacuum flow, suitable in high speed applications.
- Easy installation and flexible positioning with several mounting options.

General

Material	PU, PA, PP, SS, AL, NBR
Noise level	73 - 83 dBA
Temperature	10 - 50 °C
Weight	246 - 421 g
Suction cup model	BL50-3P
Movement, vertical max.	26 mm
Curve radius, min.	16 mm

Performance

Feed pressure, max.	0.7 MPa

Performance - lifting forces

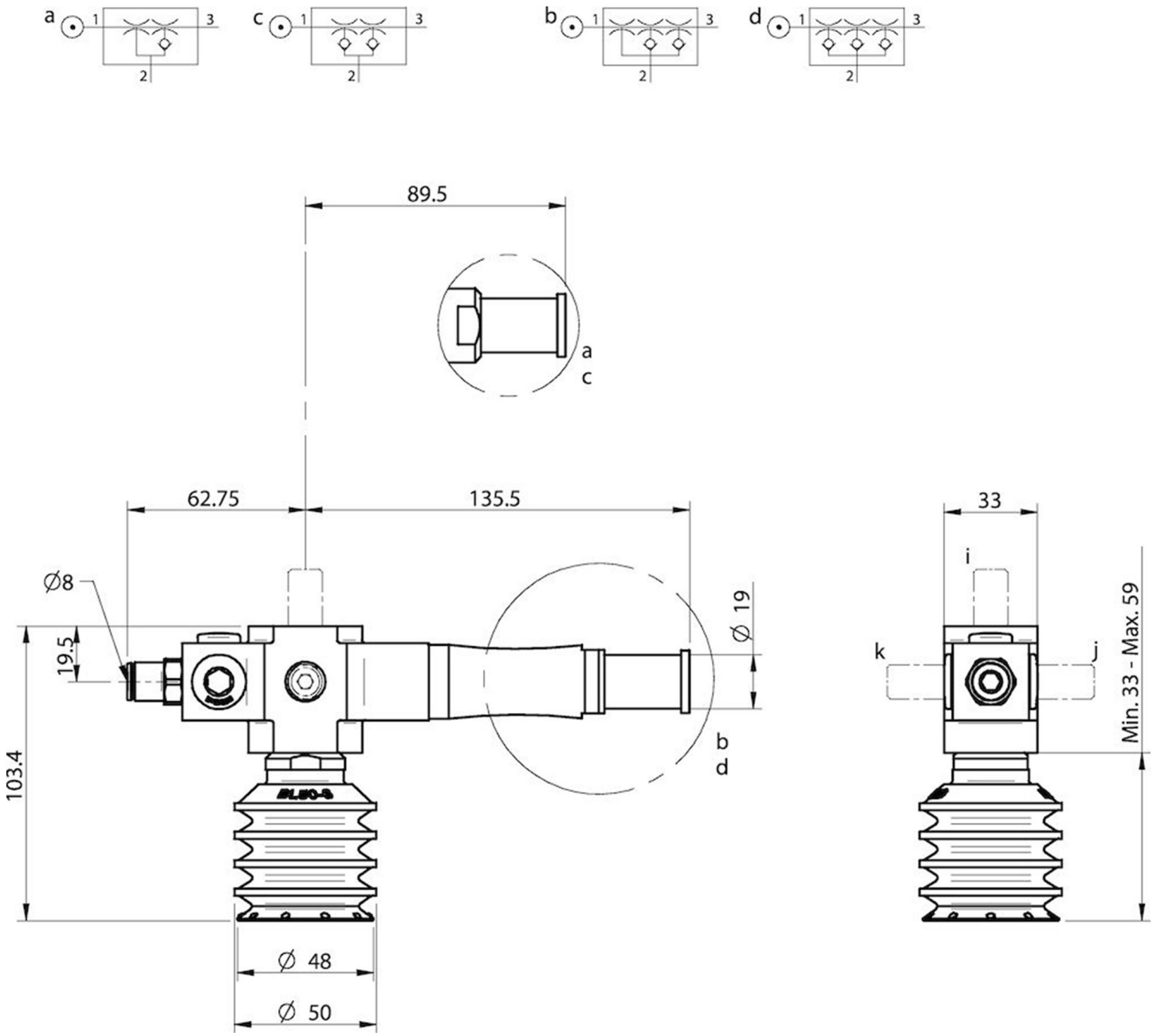
BL50-3P		
20 -kPa	24 N	22 N
60 -kPa	60 N	49 N
90 -kPa	75 N	60 N

Feed pressure	Air consumption	Vacuum flow (Nl/s) at different vacuum levels (-kPa)									Max vacuum
MPa	Nl/s	0	10	20	30	40	50	60	70	80	-kPa
MIDI Pi48-2 0,30 - 0.3	2	2.8	2.5	1.8	1.1	0.65	0.5	0.35	0.25	0.1	90
MIDI Pi48-3 0,31 - 0.31	2.05	5.6	2.5	1.8	1.1	0.65	0.5	0.35	0.25	0.1	90
MIDI Si32-2 0,60 - 0.6	1.75	3.3	3	2.6	1.7	0.9	0.6	0.5	0.35	0	75
MIDI Si32-3 0,60 - 0.6	1.75	6	3.5	2.6	1.7	0.9	0.6	0.5	0.35	0	75
MIDI Xi40-2 0,45 - 0.45	1.83	2.8	2.3	1.6	1	0.73	0.58	0.43	0.32	0.18	95
MIDI Xi40-3 0,45 - 0.45	1.83	5.9	3	2	1.3	0.73	0.58	0.43	0.32	0.18	95

Feed pressure	Air consumption	Evacuation time (s/l) to reach different vacuum levels (-kPa)									Max vacuum
MPa	Nl/s	10	20	30	40	50	60	70	80	90	-kPa
MIDI Pi48-2 0,30 - 0.3	2	0.038	0.084	0.153	0.267	0.441	0.677	1.01	1.581	0	90
MIDI Pi48-3 0,31 - 0.31	2.05	0.02	0.06	0.12	0.25	0.45	0.7	1	1.6	4	90
MIDI Si32-2 0,60 - 0.6	1.75	0.03	0.07	0.1	0.18	0.33	0.53	0.8	0	0	75
MIDI Si32-3 0,60 - 0.6	1.75	0.02	0.05	0.1	0.18	0.33	0.53	0.8	0	0	75
MIDI Xi40-2 0,45 - 0.45	1.83	0.04	0.09	0.17	0.28	0.44	0.63	0.9	1.3	2.3	95
MIDI Xi40-3 0,45 - 0.45	1.83	0.022	0.062	0.12	0.22	0.37	0.57	0.84	1.2	2.2	95

Feed pressure	Air consumption	Blow flow (Nl/s) at different pressure levels (-kPa)									Max vacuum
MPa	Nl/s	10	20	30	40	50	60	70	80	90	-kPa
MIDI Si32-2 0,60 - 0.6	1.75	5.05	4.83	4.25	3.61	3.3	2.89	2.65	2.35	1.97	75
MIDI Si32-3 0,60 - 0.6	1.75	7.8	5.4	4.6	3.8	3.3	3.1	2.7	2.3	1.8	75

Dimensional drawings



Values specified in the data sheet are tested at:

- Room temperature: (20° C [68° F] ± 3° C [5.5° F])
- Standard atmosphere: (101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg])
- Relative humidity: 0-100%
- Compressed air quality: DIN ISO 8573-1 class 4