



Item no: VGSTM5010_BF110P

VGSTM5010 BF110P

Piab VGSTM – 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 VGSTM you will enjoy the benefits of a more cost-efficient and reliable... decentralized vacuum system.

- Patented COAX® technology.
- The suction cups are specially designed for handling larger parts, such as car body sheets.
- The soft, flexible lip makes the cup suitable for curved or uneven surfaces and the dual hardness version, PU30/60, is also recommended for rough or rugged surfaces to prevent micro-leakage, which can occur on plastic or composite work pieces.
- Available with a two or three-stage COAX® cartridge MIDI. Choose an Si cartridge for extra vacuum flow, a Pi cartridge for high performance at low feed pressure or an Xi cartridge when high flow and deep vacuum is needed.
- 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	373 - 548 g
Suction cup model	BF110P PU30 PU60
Movement, vertical max.	27.4 mm
Curve radius, min.	55 mm
Suction cup model	BF110P PU60
Curve radius, min.	70 mm

Performance

Feed pressure, max.

0.7 MPa

Performance - lifting forces

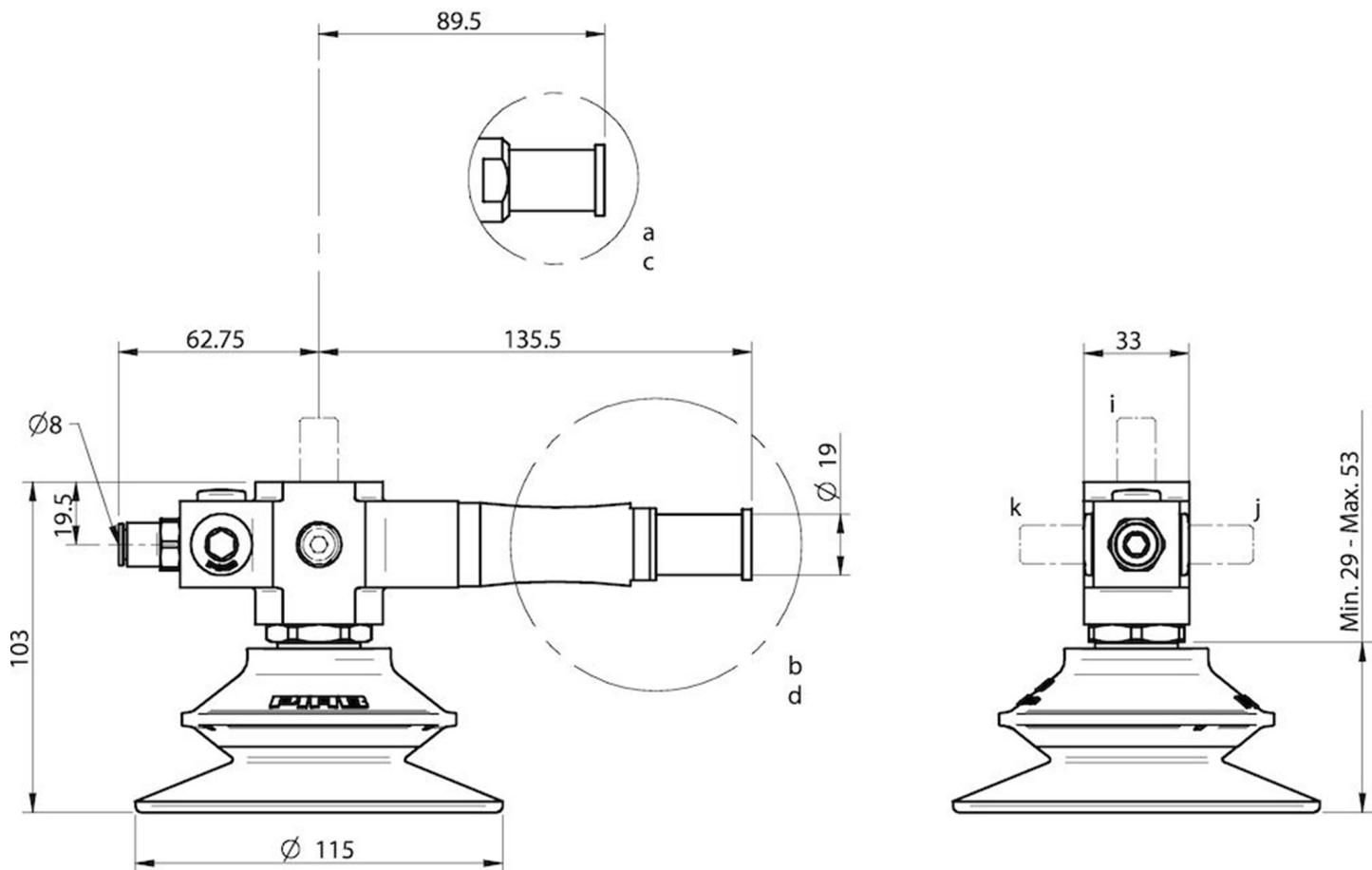
BF110P PU30 PU60		↑	↗
20 -kPa		128 N	106 N
60 -kPa		229 N	210 N
90 -kPa		225 N	246 N
BF110P PU60		↑	↗
20 -kPa		161 N	123 N
60 -kPa		334 N	231 N
90 -kPa		293 N	305 N

Feed pressure	Air consumption	Vacuum flow (NI/s) at different vacuum levels (-kPa)										Max vacuum
MPa	NI/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	NI/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 (NI/s) at different pressure levels (-kPa)										Max vacuum
MPa	NI/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] $\pm 3^{\circ}\text{C}$ [5.5°F])
- Standard atmosphere: (101.3 [29.9 inHg] $\pm 1.0\text{ kPa}$ [0.3 inHg])
- Relative humidity: 0-100%
- Compressed air quality: DIN ISO 8573-1 class 4