



Item no: VGS™5010_F110P

VGS™5010 F110P

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 all flat and rough surfaces.
- Good stability and little inherent movement due to high friction of the rubber material.
- Recommended when the lifting force is parallel to the surface of the object.
- 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	400 - 576 g
Suction cup model	F110P PU30 PU60
Movement, vertical max.	4 mm
Curve radius, min.	250 mm
Suction cup model	F110P PU60

Performance

Feed pressure, max.	0.7 MPa
---------------------	---------

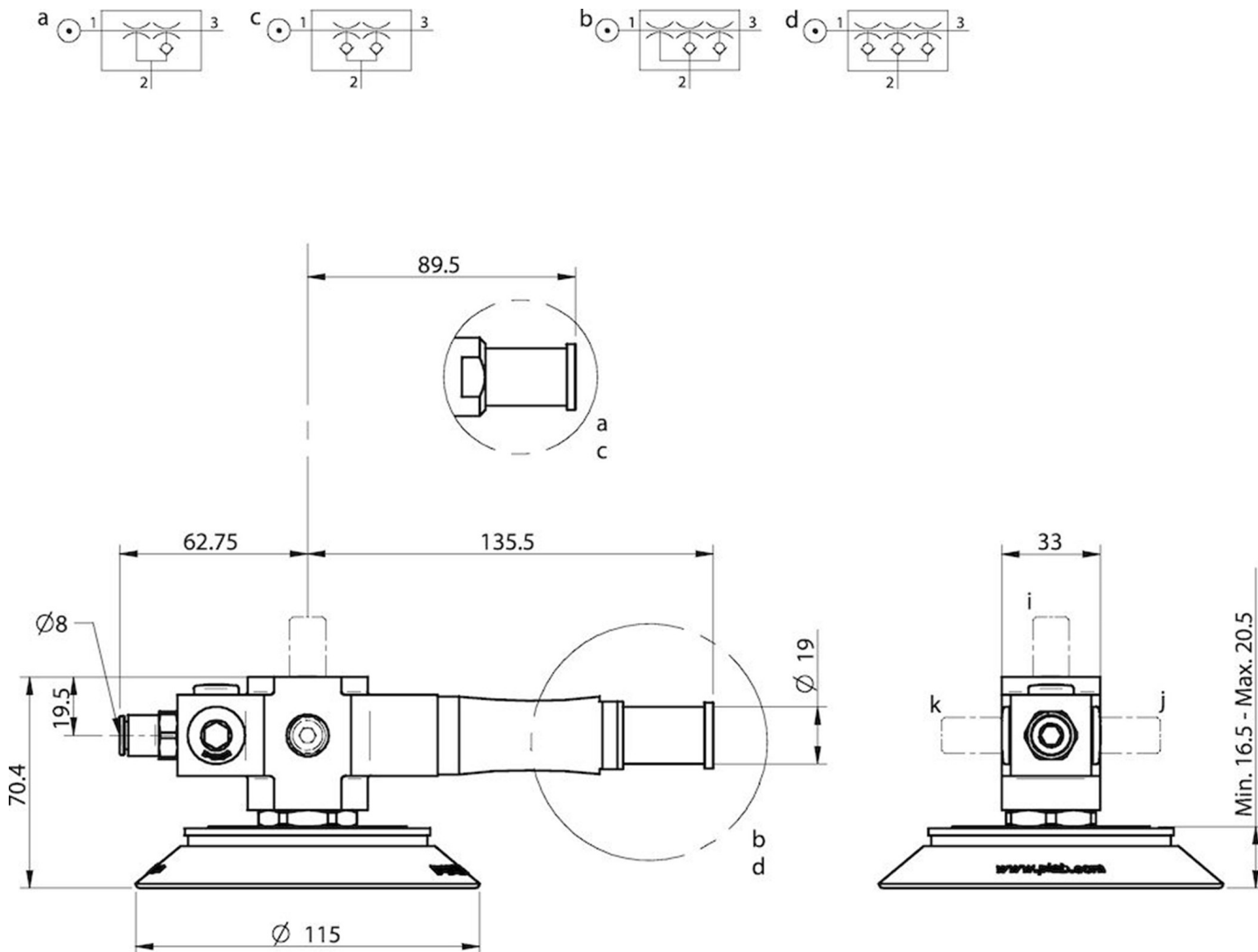
Performance - lifting forces

F110P PU30 PU60			
20 -kPa		167 N	149 N
60 -kPa		432 N	441 N
90 -kPa		591 N	617 N
F110P PU60			
20 -kPa		191 N	297 N
60 -kPa		498 N	523 N
90 -kPa		705 N	664 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



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