

VGS™5010 BF110P



- ▶ 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.

TECHNICAL DATA

Description	Unit	Value
Feed pressure, max.	MPa	0.7
Noise level	dBA	73–83
Temperature range	°C	10–50
Weight	g	373–548
Material		Al, SS, NBR, PA, PP, PU

VACUUM FLOW

COAX® Cartridge	Feed pressure MPa	Air consumption NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)										Max vacuum -kPa
			0	10	20	30	40	50	60	70	80	90	
Pi48-2	0.30	2.0	5.6	2.5	1.8	1.1	0.65	0.50	0.35	0.25	0.10	—	90
Pi48-3	0.30	2.0	5.6	2.5	1.8	1.1	0.65	0.50	0.35	0.25	0.10	—	90
Si32-2	0.60	1.75	3.3	3.0	2.6	1.7	0.90	0.60	0.50	0.35	—	—	75
Si32-3	0.60	1.75	6.0	3.5	2.6	1.7	0.90	0.60	0.50	0.35	—	—	75
Xi40-2	0.45	1.83	2.8	2.3	1.6	1.0	0.73	0.58	0.43	0.32	0.18	0.03	95
Xi40-3	0.45	1.83	5.9	3.0	2.0	1.3	0.73	0.58	0.43	0.32	0.18	0.03	95

For vacuum flows at other feed pressures, see COAX® Cartridge data sheets.

EVACUATION TIME

COAX® Cartridge	Feed pressure MPa	Air consumption NI/s	Evacuation time (s/l) to reach different vacuum levels (-kPa)										Max vacuum -kPa
			10	20	30	40	50	60	70	80	90		
Pi48-2	0.30	2.0	0.030	0.070	0.13	0.26	0.46	0.70	1.0	1.6	4.0	90	
Pi48-3	0.30	2.0	0.020	0.060	0.12	0.25	0.45	0.70	1.0	1.6	4.0	90	
Si32-2	0.60	1.75	0.030	0.070	0.10	0.18	0.33	0.53	0.80	—	—	75	
Si32-3	0.60	1.75	0.020	0.050	0.10	0.18	0.33	0.53	0.80	—	—	75	
Xi40-2	0.45	1.83	0.04	0.09	0.17	0.28	0.44	0.63	0.90	1.3	2.3	95	
Xi40-3	0.45	1.83	0.022	0.062	0.12	0.22	0.37	0.57	0.84	1.2	2.2	95	

For evacuation times at other feed pressures, see COAX® Cartridge data sheets.

LIFTING FORCES & TECHNICAL DATA BF110P

Material	Lifting force vertical to the surface, N, at vacuum level			Lifting force parallel to the surface, N, at vacuum level			Volume cm ³	Min. curve radius mm	Max. vertical movement mm	Weight rubber part g
	20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa				
PU30°/60°	128	229	225	106	210	246	110	55	24	110
PU60°	161	334	293	123	231	305	110	70	24	110

ORDERING INFORMATION

1. COAX® cartridge		VGS code
	No COAX® cartridge (slave unit)	AA
a	COAX® cartridge MIDI Pi48-2	AB
b	COAX® cartridge MIDI Pi48-3	AC
c	COAX® cartridge MIDI Pi48-2, non-return valve	AD
d	COAX® cartridge MIDI Pi48-3, non-return valve	AE
a	COAX® cartridge MIDI Si32-2	AF
b	COAX® cartridge MIDI Si32-3	AG
c	COAX® cartridge MIDI Si32-2, non-return valve	AH
d	COAX® cartridge MIDI Si32-3, non-return valve	AI
a	COAX® cartridge MIDI Xi40-2	AJ
b	COAX® cartridge MIDI Xi40-3	AK
c	COAX® cartridge MIDI Xi40-2, non-return valve	AL
d	COAX® cartridge MIDI Xi40-3, non-return valve	AM
2. Mounting/orientation		VGS code
	4x M6 top, flush mount	00
	4x M6 top, angle bracket	01
i	M12 20 mm top	02
j	M12 20 mm right	03
k	M12 20 mm left	04
i	M12 20 mm top, angle bracket	05
j	M12 20 mm right, angle bracket	06
k	M12 20 mm left, angle bracket	07
3. Suction cup with fitting		VGS code
	No suction cup	BA
	BF110P 30°/60° Shore A	CO
	BF110P 60° Shore A	CP
Example	Ordering number	
VGS™5010 BF110P – Pi48-2, M12 20 mm top, BF110P 30/60° Shore A	VGS5010 AB 02 CO	

Vacuum grippers
VGS™5010

