

VGS™3010 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.
- ▶ The green BF110P is suitable for picking up heavier items such as sheet metal.
- ▶ Available with two- or three-stage COAX® cartridge MINI. 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, which is 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	60–74
Temperature range	°C	10–50
Weight	g	92-299
Material		PP, PA, NBR, AL, SS, 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	
Pi12-2	0.314	0.44	0.68	0.60	0.44	0.27	0.19	0.14	0.10	0.060	0.030	—	90
Pi12-3	0.314	0.44	1.4	0.60	0.44	0.27	0.19	0.14	0.10	0.060	0.030	—	90
Si08-2	0.60	0.44	0.77	0.67	0.51	0.33	0.23	0.16	0.12	0.08	—	—	75
Si08-3	0.60	0.44	1.34	0.73	0.55	0.35	0.23	0.17	0.13	0.08	—	—	75
Xi10-2	0.50	0.46	0.75	0.63	0.49	0.33	0.19	0.15	0.11	0.07	0.045	0.011	94
Xi10-3	0.50	0.46	1.43	0.70	0.50	0.33	0.19	0.15	0.11	0.07	0.045	0.011	94

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		
Pi12-2	0.314	0.44	0.17	0.32	0.58	1.1	1.8	2.7	4.0	6.4	—	—	90
Pi12-3	0.314	0.44	0.08	0.23	0.49	1.0	1.7	2.6	3.9	6.3	—	—	90
Si08-2	0.60	0.44	0.14	0.31	0.55	0.9	1.4	2.1	3.1	—	—	—	75
Si08-3	0.60	0.44	0.10	0.25	0.48	0.8	1.3	2.0	2.9	—	—	—	75
Xi10-2	0.50	0.46	0.14	0.3	0.6	1.0	1.6	2.3	3.5	5.3	8.9	—	94
Xi10-3	0.50	0.46	0.09	0.26	0.50	0.90	1.5	2.2	3.4	5.2	8.8	—	94

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		Code
	No COAX® cartridge (slave unit)	AA
b	COAX® cartridge MINI Pi12-2	AB
a	COAX® cartridge MINI Pi12-3	AC
c	COAX® cartridge MINI Pi12-2, non-return valve	AD
d	COAX® cartridge MINI Pi12-3, non-return valve	AE
b	COAX® cartridge MINI Si08-2	AF
a	COAX® cartridge MINI Si08-3	AG
c	COAX® cartridge MINI Si08-2, non-return valve	AH
d	COAX® cartridge MINI Si08-3, non-return valve	AI
b	COAX® cartridge MINI Xi10-2	AJ
a	COAX® cartridge MINI Xi10-3	AK
c	COAX® cartridge MINI Xi10-2, non-return valve	AL
d	COAX® cartridge MINI Xi10-3, non-return valve	AM

2. Mounting / orientation		VGS code
	4x M4 top, flush mount	00
f	M8 16 mm top	01
g	M8 16 mm right	02
e	M8 16 mm left	03
f	M8 27 mm top, profile kit	04
g	M8 27 mm right, profile kit	05
e	M8 27 mm left, profile kit	06
f	M6 22 mm top, profile kit	07
g	M6 22 mm right, profile kit	08
e	M6 22 mm left, profile kit	09
g	Ball joint VGS™3010 right	11
e	Ball joint VGS™3010 left	12
g	Lock-pin VGS™3010, right	13
e	Lock-pin VGS™3010, left	14
	Level compensator LC30	15

For more information about LC30 see separate data sheet.

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™3010 BF110P – Pi12-3, M8 27 mm top including profile kit, BF110P 30/60° Shore A	VGS3010 AC 04 CO

