















SUCTION CUP SELECTION BY TYPE OF APPLICATION

Type of suction cup		EPDM	NBR	HNBR	SILICONE	FDA-COMPLIANT SILICONE	DETECTABLE FDA-COMPLIANT SILICONE	POLYURETHANE	PTFE
VG.U		SHEET METAL, GLASS, PLASTIC	—	GLASS, PLASTIC, MARK-FREE	PLASTIC	FOOD-GRADE (FDA)	—	—	—
VG.B/SFO		SHEET METAL, GLASS, WOOD, PLASTIC, CARDBOARD	—	GLASS, PLASTIC, MARK-FREE	CARDBOARD	FOOD-GRADE (FDA) UNEVEN AND POROUS SURFACES	—	—	—
VG.CF		—	SHEET METAL, WOOD, MARBLE	GLASS, PLASTIC, MARK-FREE	CARDBOARD	—	—	—	—
VG.LB/SFO		—	WOOD	SHEET METAL - PLASTIC - MARK-FREE	—	FOOD-GRADE (FDA)	—	—	—
VG.FP		—	—	—	BAG OPENING, THIN FILMS/PAPER	FOOD-GRADE (FDA) BAG OPENING, THIN FILMS/PAPER	—	—	—
VG.BC/SBC		—	—	—	BAGS, FLOW PACKS	—	—	—	—
VG.MB		—	SHEET METAL, GLASS, OILY SHEET METAL	—	—	—	—	—	—
VG.PAAT		—	—	—	—	—	—	—	PLASTIC, COMPOSITES, FIBERS
VG.IS		—	—	—	—	—	—	UNEVEN AND POROUS SURFACES	—

Type of suction cup		EPDM	NBR	HNBR	SILICONE	FDA-COMPLIANT SILICONE	DETECTABLE FDA-COMPLIANT SILICONE	POLYURETHANE	PTFE
VG.BR/LBR		-	-	-	-	-	-	THIN FILM/PAPER - BAGS, FLOW PACKS, OBLONG SNACKS	-
VG.MF		-	-	-	-	-	-	OILY SHEET METAL	-
VG.BPG/LPG		-	-	-	-	FOOD-GRADE (FDA) BAGS, FLOW PACKS	-	-	-
VG.FO		-	-	-	-	FOOD-GRADE (FDA) BAG OPENING, FLOW PACKS, THIN FILMS/PAPER	-	-	-
VG.BDT		-	-	-	-	-	BAKERY PRODUCTS WITH SEEDS. SILICONE COMPLIANT WITH FDA 21 CFR 177.2600 AND REGULATION (EC) NO. 1935/2004, DETECTABLE	-	-

Introduction

Vacuum theory

Suction cups

Vacuum pumps

Customised solutions

Suspensions

System accessories

SELECTION OF MATERIALS

Material	EPDM	NBR	HNBR	SILICONE/FDA-COMPLIANT SILICONE/ DETECTABLE FDA-COMPLIANT SILICONE	POLYURETHANE
Wear resistance	Fair	Excellent	Excellent	Good	Excellent
Oils	Poor	Excellent	Excellent	Poor	Excellent
Weather and ozone	Excellent	Poor	Excellent	Excellent	Excellent
Hydrolysis	Good	Good	Good	Fair	Poor
Petrol	Poor	Good	Excellent	Poor	Poor
Concentrated acids	Poor	Poor	Good	Poor	Poor
Alcohol	Excellent	Good	Good	Good	Good
Oxidation	Excellent	Good	Excellent	Excellent	Good

AVAILABILITY OF DIAMETERS, MATERIALS AND BELLOWS

Type of suction cup	Material	Diameter (in.)	Number of bellows
VG.U	EPDM, HNBR, SIL, SIL FDA	6, 9, 11, 16, 22, 33, 42, 53	0
VG.B	EPDM, HNBR, NBR, SIL, SIL FDA	6, 9, 11, 16, 22, 33, 42, 53, 77	1
VG.B.SFO	SIL FDA	16, 22, 33, 42, 53	1
VG.CF	NBR 60, HNBR, SIL	16, 22, 27, 33, 42, 53, 77, 112, 152	0
VG.LB	NBR, HNBR, SIL FDA	6, 9, 11, 16, 22, 33, 42, 53	2
VG.LB.SFO	SIL FDA	16, 22, 33, 42, 53	2
VG.FP	SIL, SIL FDA	15, 20, 30, 40	4
VG.BC	SIL	40, 50	3
VG.SBC	SIL	40, 50, 63	2
VG.MB	NBR 60	52, 63, 83, 103	1
VG.PAAT	PTFE	16, 20, 30, 40	0
VG.BP	PU50, PU30/70	10, 15, 20, 25, 35, 52, 75	1
VG.IS	PU30/60	20, 25, 35, 45, 55, 70	1
VG.BR	PU50	20x45, 30x55	1
VG.LBR	PU50	20x45, 30x55	2
VG.MF	PU40	20, 30, 45, 60, 80, 100, 120	0
VG.BPG	SIL FDA	30, 41, 48, 55	1
VG.LPG	SIL FDA	30, 41, 48	3
VG.FO	SIL FDA	26, 33	0
VG.BDT	SIL FDA, Detectable	40	4