# **Parker Pneumatic**

# Vacuum Cups PBG Bellows Vacuum Cups

These cups are for curved, corrugated, lightly textured surfaces and flexible product. Under vacuum, the bellow cup will collapse on contact and lift the product for a short distance. This inherent performance facilitates lifting and destack operations by breaking the vacuum between stacked product. The bellow style adds level compensation for applications that have inconsistent stack heights or uneven surfaces. The inclusive 30-degree rotation of the bellow helps maintain the vacuum seal when lifting sheet products that flex. Because of it's shape however the bellows suction cup is not very well suitable for applications involving lifting vertical surfaces.



- Bellows design for level compensation within restricted clearances
- Sheet separation for flexible and stacked products
- Soft seal lip for flexible products
- 10mm to 150mm diameters



### **Styles**

- PBTM series male thread connector
- PBTF series female thread connector
- PBTK series barbed bulkhead
- PBYK series 90° barbed adapter
- PBTYS series bulkhead level compensator

# **Specifications**

Cup material	Nitrile	Silicon	Urethane	
Material code	NBR	SI	U	
Operating temperature (°C)	-20° to +120°	-60° to +250°	-20° to +75°	
Color	Black	White	Blue	
Hardness, shore A (°Sh)	55 ±5	55 ±5	55 ±5	

#### How to order

Cups assemblies and replacement cups are specified by cup diameter and material. Standard nitrile and silicon are listed on the following pages. To specify an alternative material, replace the cup material with alternative cup material code.

**Example:** To specify a cup assembly with urethane (U), replace (NBR) with (U) in the part number. PBTM-20B-NBR-G1 becomes PBTM-20B-U-G1. Inquire with factory for availability.

#### **Application guide**

#### Bellows























Flat surface, thin section Flat surface, any section Slightly bowed surface, thin section

Slightly bowed surface, any section

Bowed surface, thin section Bowed surface, any section Soft porous material, any section Differences in heights and levels

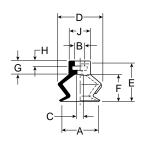
Corrugated sheet handling

Not for vertical lift Metal sheet handling

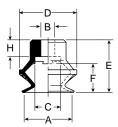


# **PBG Series Replacement Cup Dimensions**

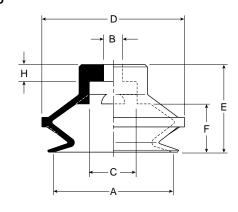
PBG-10A and PBG-20B



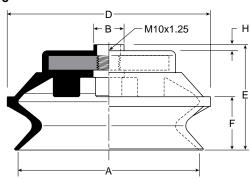
PBG-20 thru PBG-40



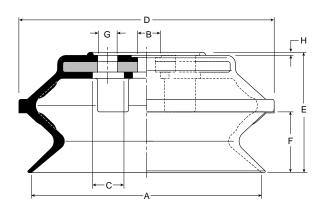
**PBG-50** 



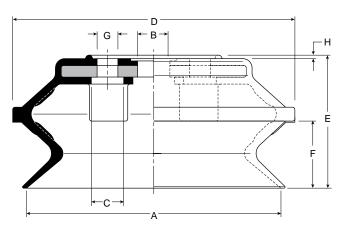
**PBG-75** 



**PBG-110** 



**PBG-150** 



Model number	ØA	ØB	ØС	ØD	E	F	G	Н	ØJ
PBG-10A-*	.42 (10.6)	.16 (4)	.08 (2)	.49 (12.4)	.53 (13.5)	.30 (7.5)	.24 (6)	.08 (2)	.24 (6)
PBG-15A-*	.59 (15)	.16 (4)	.16 (4)	.67 (17)	.63 (16)	.39 (10)	.24 (6)	.08 (2)	.24 (6)
PBG-20B-*	.79 (20)	.24 (6)	.43 (10.8)	.94 (24)	.87 (22)	.47 (12)	_	.28 (7)	_
PBG-20-*	.79 (20)	.18 (4.6)	.43 (10.8)	.94 (24)	.77 (19.5)	.47 (12)	_	.18 (4.5)	_
PBG-30-*	1.18 (30)	.23 (5.8)	.43 (10.8)	1.42 (36)	1.20 (30.5)	.67 (17)	_	.28 (7)	_
PBG-40-*	1.57 (40)	.23 (5.8)	.43 (10.8)	1.81 (46)	1.20 (30.5)	.61 (15.5)	_	.28 (7)	_
PBG-50-*	1.97(50)	.31 (7.8)	.78 (19.8)	2.34 (59.5)	1.44 (36.5)	.79 (20)	_	.28 (7)	_
PBG-75-*	2.95 (75)	.49 (12.5)	_	3.31 (84)	1.71 (43.5)	.87 (22)	_	.10 (2.5)	_
PBG-110-*	4.33 (110)	.55 (14)	.55 (14)	4.80 (122)	2.26 (57.5)	1.14 (29)	_	.059 (1.5)	_
PBG-150-*	5.91 (150)	.79 (20)	.55 (14)	6.57 (167)	3.01 (76.5)	1.50 (38)	4xØ9xØ40	.059 (1.5)	_

Inches (mm)

<sup>\*</sup> Cup material

