

Piab Bellows DURAFLEX® suction cup

BXP, Ø 35mm, Polyurethane, PUR, 30 and 60 °Shore A



- DURAFLEX® suction cups manufactured in a specially developed material that features the elasticity of rubber and wear resistance of polyurethane.
- Excellent gripping performance on corrugated and porous or surface leaking objects such as cardboard, textured plastic parts and composite material (raw surface).
- Suitable for limited level adjustment with good stability.
- The material DURAFLEX® is mark free.
- In the two-colored suction cup the bellows and the sealing lip are of different hardnesses, which makes the suction cup strong and stable for accelerations and speed, and at the same time, soft and flexible.
- Mesh filter integrated in the fitting keeps particles away from Vacuum Generator/Pump.

Lifting force

Description	Vertical			Parallel		
	20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa
Lifting forces	17.0 N	39.0 N	50.0 N	15.0 N	30.0 N	40.0 N

Technical data

Description	Unit	Value
Internal volume	cm ³	4.4
Weight	g	12
Min. curve radius	mm	16.0
Max. vertical movement	mm	9.5
Application	-	Corrugated / cardboard, Plastic injection molded parts
Material	-	Polyurethane, PUR
Colour	-	Yellow / Transparent green
Suction cup model	-	B-XP
Suction cup shape	-	Bellows
Hardness	-	30 and 60 °Shore A
Temperature range	°C	10-50
Actuated outer diameter, max	mm	37.5

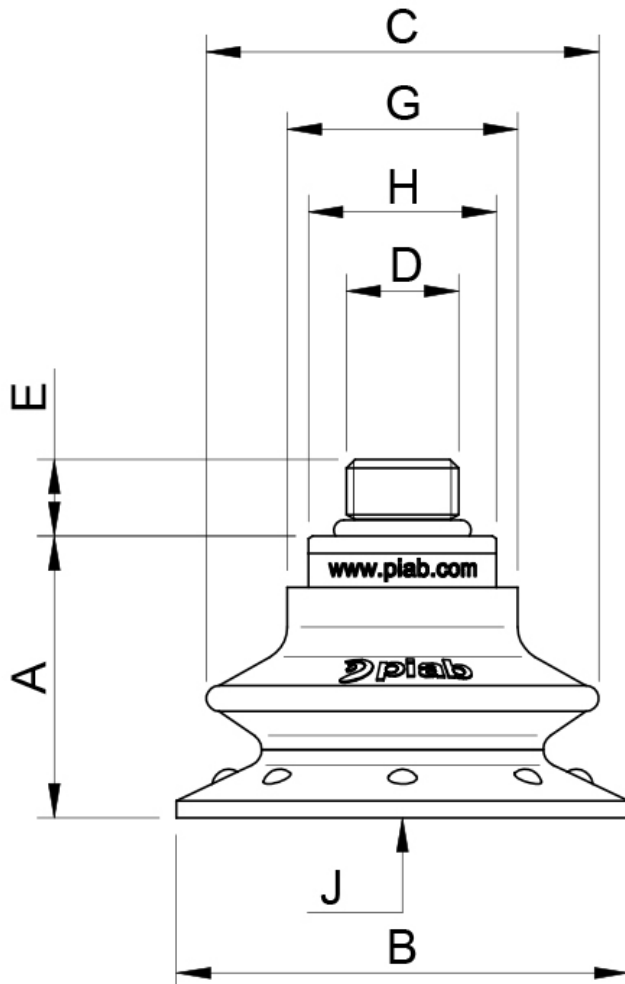
Fitting specification

Description	Value
Fitting size	1/8"
Fitting style	Male
Fitting type	G-Thread
Fitting material	SS, AI, NBR
Fitting option	Filter mesh
Filter mesh: Filter grade	130 µm (micron)
Filter mesh: Open area	33%

Material resistance, Polyurethane, PUR

Description	Value
Alcohol	Fair
Concentrated acids	Fair
Ethanol	Fair
Hydrolysis	Fair
Methanol	Poor
Oil	Excellent
Oxidation	Poor
Petrol	Fair
Wear resistance	Excellent
Weather & ozone	Excellent

Dimensional drawing



Pos.	Description	Unit	Value
A	Building height	mm [inch]	24.6 [0.97"]
B	Diameter (lip)	mm [inch]	37.0 [1.46"]
C	Diameter (bellow)	mm [inch]	31.2 [1.23"]
D	Thread	-	G1/8"
E	Thread height	mm [inch]	6.0 [0.24"]
G	Diameter (upper part cup)	mm [inch]	20.0 [0.79"]
H	Keygrip	mm	SW 16
J	Hex/torx grip	mm	N/A

Ordering information – Current configuration

Description Bellows DURAFLEX® suction cup	Product code S.B35XP3060.G18M.01
Suction cup shape	Bellows
Suction cup model	Bellows DURAFLEX®
Suction cup size	Ø 35mm
Suction cup material	Polyurethane, PUR
Hardness	30 and 60 °Shore A
Fitting type	G-Thread
Fitting size	1/8"
Fitting style	Male
Options	Filter mesh

Ordering information, spare parts

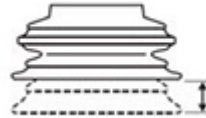
Description	Art. No.
Suction cup S.B35XP3060.XXX.00	0205002
Fitting G1/8" male, 40, with mesh filter	0200714

Ordering information, accessories

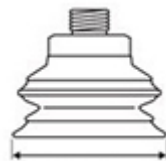
Description	Art. No.
Suction cup S.B35XP60.XXX.00	0205192
Fitting 1/8" NPSF female, 30–40	3250005
Fitting 1/8" NPSF female, 30–40, with mesh filter	0101153
Fitting 1/8" NPSF female, 30–40, with dual flow control valve	3251006
Fitting 1/8" NPSF female, 30–40, with cone valve	0101156
Fitting 1/8" NPSF female, 30–40, PA	3150197
Fitting G1/4" male, 30–40, with mesh filter	3250091
Fitting G1/4" male, 30–40, with mesh filter and dual flow control valve	3251007
Fitting G3/8" male, 30–40, with mesh filter	3250086
Fitting G3/8" male, 30–40, with mesh and dual flow control valve	3251009
Fitting 5x1/8" NPSF female, 30–40	0100261
Fitting 5x1/8" NPSF female, 30–40, with dual flow control valve	3251011
Fitting 1/4" NPT male, with mesh filter	3250093
Fitting 1/4" NPT male, with dual flow control valve	3251008
Fitting 3/8" NPT male, with mesh filter	3250089
Fitting 3/8" NPT male, with dual flow control valve	3251010
Fitting kit G1/8" male, 04AN	0245142
Fitting 40	0201234
Fitting 1/4" NPT male, 04AQ	3150334
Fitting kit G3/8" male, 04AP	0245143
Fitting 3/8" NPT	3150296



Internal volume



Max. vertical movement



Diameter (lip)



Min. curve radius

Values specified in this data sheet are tested at (unless otherwise stated):

- 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 20-70%.
- Compressed air quality, DIN ISO 8573-1 class 4.

Storage guidelines (scan QR code):

