

# Suction Cups

## HFA

Suction Cups for the Packaging Industry

**HANWHA**



Package



Plastic bag

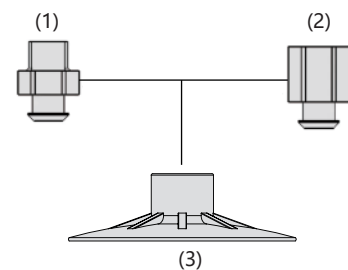
### Product characteristics

- \* Solid and wear-resistant round flat suction cups stabilize support surfaces for particularly unstable work pieces
- \* Safe component handling due to good vacuum distribution
- \* Large selection of materials to meet various requirements (chemical and temperature resistance)
- \* Hypergraphic design and innovative vacuum supply system ensure maximum grip without any marks or deformations



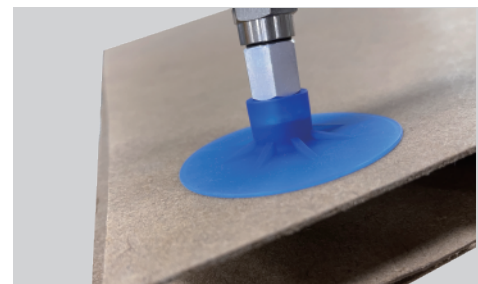
### Product structure

- \* (1) (2) Suitable connectors can be selected according to the requirements, G1/4 "external connectors or G1/4" internal connectors
- \* (3) Solid and wear-resistant round flat suction cups



### Product advantages

- \* Balance the internal and external pressure of the vacuum grab, quickly release the product
- \* Energy saving when handling non-permeable workpieces



\*HFA Transport air density sheet surfaces

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### HFA Ordering NO

HFA	80	FG1	SI
1	2	3	4

1-Series	2-Diameter	3-Screw thread
HFA	80	F Internal thread
Suction Cup	80mm	G02-G1/4
		M External thread
		G02-G1/4
4-Material <sup>(1)</sup>		
HX	High performance	

(1) Other materials can also be made, please contact us



### HFA Selection specification

<b>Models</b>	<b>F-G02-G1/4</b>	<b>M-G02-G1/4</b>
HFA-80*	◎	◎



### HFA Technical Data

Models	Adsorption area	Inner volume	Horizontal suction	Lateral force
	[mm]	[cm <sup>3</sup> ]	[N] <sup>(2)</sup>	[N] <sup>(2)</sup>
HFA-80**	80	11.2	92.6	46.3

(2) The surface of the workpiece is smooth and dry, and the vacuum degree is -60KPa. The above data does not include the safety factor. Depending on the surface condition of the workpiece, the value may change.



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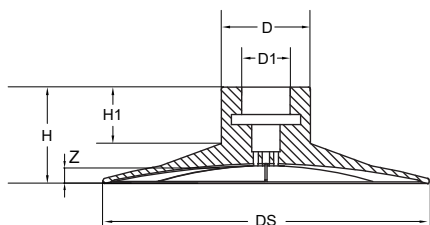
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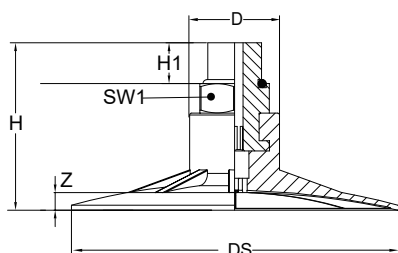
### HFA Design Data



Size[mm]<sup>(3)</sup>

Models	D	H	H1	D1	DS	SW	Z	Weight [g]
HFA80	22	23.8	14	12	80	SW17	4.2	10.41

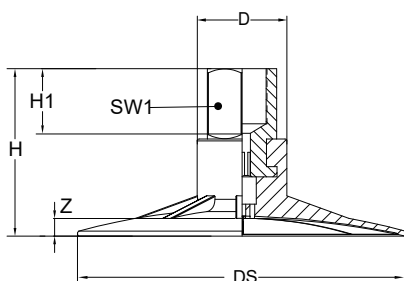
#### HFA80 Dimension



Size[mm]<sup>(3)</sup>

Models	D	H	H1	D1	DS	SW	Z	Weight [g]
HFA80-MG02	22	41	17.2	12	80	SW17	4.2	27.38

#### HFA80 External thread



Size[mm]<sup>(3)</sup>

Models	D	H	H1	DS	SW	Z	Weight [g]
HFA80-FG02	22	41	10	80	SW17	4.2	27.34

#### HFA80 Internal thread

(3) Compliant with DIN ISO 3302-1 M3 rubber parts allowable dimensional tolerances. Z is the trip

