

Vacuum cups

- Two styles: flat or with 1.5 bellows.
- Two materials: Silicone (SIL) or Chloroprene (CR).
- Diameters from 5mm to 11mm.
- Two nipples (AVP).

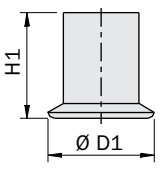
Materials

Materials		Hardness	Temperature range
Silicone	SIL	50 Sh.A	-40 - 392°F
Chloroprene	CR	50 Sh.A	-40 - 230°F

Flat vacuum cups

- Suitable for objects with flat or slightly curved surfaces.
- Also able to pick up concave objects.

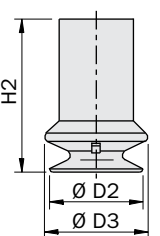
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	Material	Nipple	D1 [mm]	H1 [mm]	R [mm]	s [mm]	V [cm ³]	m [g]	F [N]	
	VP.3150114	CR	AVP.3107031	Ø5	6.1	3	0.2	0.03	0.08	0.9
	VP.3150114S	SIL	AVP.3107031	Ø5	6.1	3	0.2	0.03	0.08	0.9
	VP.3150115	CR	AVP.3107031	Ø7	7	5	0.3	0.05	0.14	1.7
	VP.3150115S	SIL	AVP.3107031	Ø7	7	5	0.3	0.05	0.14	1.7
	VP.3150116	CR	AVP.3107031	Ø9	7	6	0.5	0.1	0.16	2.9
	VP.3150116S	SIL	AVP.3107031	Ø9	7	6	0.5	0.1	0.16	2.9
	VP.3150117	CR	AVP.3107030	Ø11	10.5	8	0.5	0.18	0.65	4.4
	VP.3150117S	SIL	AVP.3107030	Ø11	10.5	8	0.5	0.18	0.65	4.4

Bellow vacuum cups

- Lifting movements to separate thin objects.
- Not recommended for handling objects with the lifting force parallel to the surface.
- Suitable for level adjustment.

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	Material	Nipple	D2 [mm]	D3 [mm]	H2 [mm]	R [mm]	s [mm]	V [cm ³]	m [g]	F [N]	
	VP.3150286	CR	AVP.3107031	Ø5.6	Ø6.2	9.2	1.5	1.5	0.05	0.11	0.8
	VP.3150286S	SIL	AVP.3107031	Ø5.6	Ø6.2	9.2	1.5	1.5	0.05	0.11	0.8
	VP.3150287	CR	AVP.3107031	Ø8.8	Ø9.6	11.9	1.9	3.5	0.15	0.3	1.6
	VP.3150287S	SIL	AVP.3107031	Ø8.8	Ø9.6	11.9	1.9	3.5	0.15	0.3	1.6
	VP.3150101	CR	AVP.3107030	Ø11	Ø12	16.4	4	4.5	0.48	1	3.4
	VP.3150101S	SIL	AVP.3107030	Ø11	Ø12	16.4	4	4.5	0.48	1	3.4

R Radius of the smallest grippable ball

V The inner volume

s Vertical stroke

m Weight

F Suction force at -0.6bar

