

Bell shaped vacuum cups for dynamic handling of strongly curved metal sheets – SM-G

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Product notes Advantage

Flexible, round NBR bell shaped cup, 60° Shore A with vulcanized fitting made of aluminum for best adaptation to strongly curved metal sheets. Large area "anti-slip" cleats, various connection threads available. PWIS-conform to guideline VDMA 24364 test category A1.

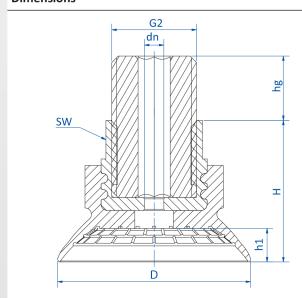
- > Reliable, non-slip handling of oily sheets due to "anti-slip" cleats. Good absorption of lateral forces.
- Supports help to prevent deep-drawing or deformation of thin sheets > Leak-free suction even with strongly curved surfaces due to very flexible sealing lip
- > Vulcanized connection thread ensures a secure fit

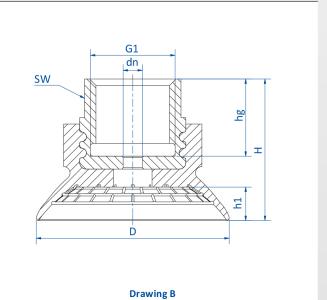
Technical data

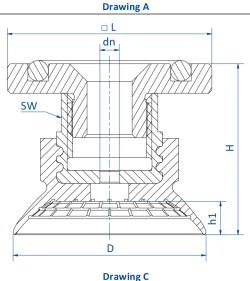
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	Thread (Aluminum)					Gripping force*				
Model / Lip dimensions	G1/4-male	G1/4-female	G3/8-female	Rectangular adapter	Volume [cm³]	[N]				
SM-G-22	103.022.143.1	103.022.142.1	103.022.148.1	103.022.151.1	1.13	19	4			
SM-G-30	103.030.144.1	103.030.141.1	103.030.149.1	103.030.152.1	2.64	33	5.2			
SM-G-45	103.045.145.1	103.045.137.1	103.045.150.1	103.045.153.1	9.38	72	7.8			
SM-G-60	103.060.146.1	103.060.138.1	103.060.136.1	103.060.154.1	21.77	133	10.6			
SM-G-80	103.080.147.1	103.080.139.1	103.080.090.1	103.080.155.1	47.86	218	12.8			

^{*} The gripping force specifications are theoretical guide values on dry, smooth and even workpiece surfaces at 60 % vacuum – they do not include a safety factor

Dimensions







SW T
D

Item no.	Drawing	Ø D [mm]	Ø D max.* [mm]	Ø dn [mm]	G1 (female)	G2 (male)	□L [mm]	H [mm]	h1 [mm]	hg [mm]	sw
103.022.143.1	А	22	26.3	3		G1/4		22	4	12	15
103.022.142.1	В	22	26.3	3	G1/4			15	4	12	15
103.022.148.1	В	22	26.3	3	G3/8			38	4	10	15
103.022.151.1	С	22	26.3	3			31.8	26.6	4		15
103.030.144.1	А	30	34.1	3		G1/4		22	5.2	10	15
103.030.141.1	В	30	34.1	3	G1/4			22	5.2	12	15
103.030.149.1	В	30	34.1	3	G3/8			38	5.2	10	15
103.030.152.1	С	30	34.1	3			31.8	26.6	5.2		15
103.045.145.1	А	47	53.1	4		G1/4		24.5	7.8	10	17
103.045.137.1	В	47	53.1	4	G1/4			24.5	7.8	12	17
103.045.150.1	В	47	53.1	4	G3/8			40.5	7.8	10	17
103.045.153.1	С	47	53.1	4			31.8	29.1	7.8		17
103.060.146.1	А	63	71	6		G1/4		31	10.6	10	22
103.060.138.1	В	63	71	6	G1/4			36	10.6	20	22
103.060.136.1	В	63	71	6	G3/8			31	10.6	15	22
103.060.154.1	С	63	71	6			31.8	35.6	10.6		22
103.080.147.1	А	83	92.4	7.1		G1/4		35	12.8	10	22
103.080.139.1	В	83	92.4	7.1	G1/4			40	12.8	20	22
103.080.090.1	В	83	92.4	7.1	G3/8			35	12.8	15	22
103.080.155.1	С	83	92.4	7.1			31.8	39.6	12.8		22

^{*} aspirated condition



