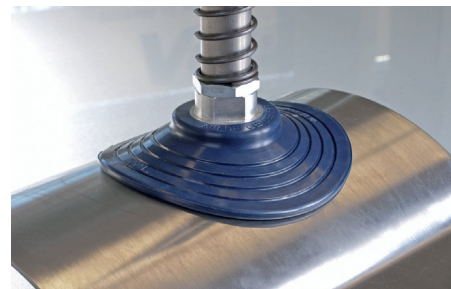




Flat vacuum cups series

Flat vacuum cups for dynamic handling of oily metal sheets – SM-F

Flat vacuum cups for dynamic handling of oily metal sheets – SM-F



Product notes

Robust, round NBR flat vacuum cups, 60° Shore A with vulcanized fitting made of aluminum and large area, multi-part "anti-slip" cleats. Various connection threads available. PWIS-conform to guideline VDMA 24364 test category A1.

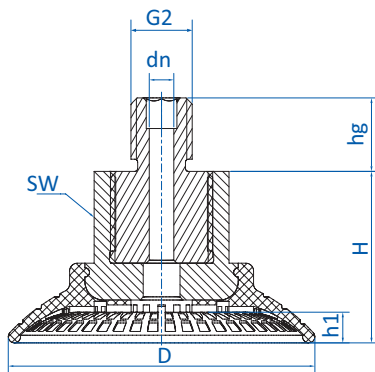
Advantage

- > 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 slightly curved surfaces due to flexible sealing lip
- > Vulcanized connection thread ensures a secure fit

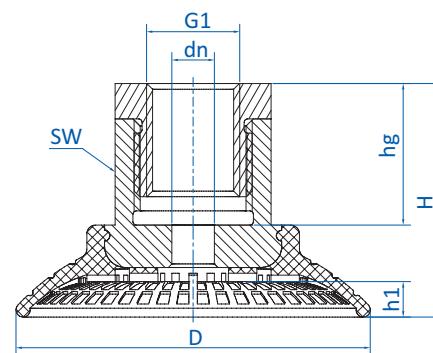
Technical Data

Model / Lip dimensions	Thread (Aluminum)						
	G1/4-male	G1/4-female	G3/8-female	M10-male	M14x1.5-male	Rectangular adapter	
SM-F-30	103.030.030.1	103.030.031.1	103.030.032.1	103.030.033.1	103.030.034.1	103.030.035.1/2	3
SM-F-40	103.040.036.1	103.040.037.1	103.040.038.1	103.040.039.1	103.040.040.1	103.040.041.1/2	4
SM-F-50	103.050.042.1	103.050.043.1	103.050.044.1	103.050.045.1	103.050.046.1	103.050.047.1/2	5
SM-F-60	103.060.048.1	103.060.049.1	103.060.050.1	103.060.051.1	103.060.052.1	103.060.053.1/2	6
SM-F-80	103.080.054.1	103.080.055.1	103.080.056.1	103.080.057.1	103.080.058.1	103.080.059.1/2	7.6
SM-F-100	103.100.060.1	103.100.061.1	103.100.062.1	103.100.063.1	103.100.064.1	103.100.065.1/2	9.5
SM-F-125	103.125.066.1	103.125.067.1	103.125.068.1	--	103.125.070.1	103.125.071.1/2	12.5

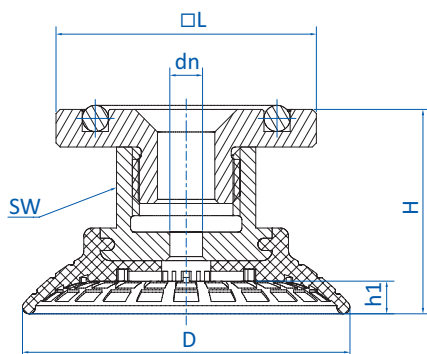
Dimensions



Drawing A



Drawing B



Drawing C



„Anti-slip“ Cleats (SM-F-100)



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
103.030.030.1	A	30	32,6	4	--	G1/4	--	20	3	10	17
103.030.031.1	B	30	32,6	4	G1/4	--	--	20	3	12	17
103.030.032.1	B	30	32,6	4	G3/8	--	--	36	3	10	17
103.030.033.1	A	32,6	--	M10	30	4	--	20	3	12	17
103.030.034.1	A	32,6	--	M14x1,5	30	4	--	20	3	12	17
103.030.035.1/2	C	32,6	--	--	30	4	31,8	24,6	3	--	17
103.040.036.1	A	43,1	--	G1/4	40	4	--	22	4	10	17
103.040.037.1	B	43,1	G1/4	--	40	4	--	22	4	12	17
103.040.038.1	B	43,1	G3/8	--	40	4	--	38	4	10	17
103.040.039.1	A	43,1	--	M10	40	4	--	22	4	12	17
103.040.040.1	A	43,1	--	M14x1,5	40	4	--	22	4	12	17
103.040.041.1/2	C	43,1	--	--	40	4	31,8	26,6	4	--	17
103.050.042.1	A	53,5	--	G1/4	50	6	--	28	5	10	22
103.050.043.1	B	53,5	G1/4	--	50	6	--	33	5	20	22
103.050.044.1	B	53,5	G3/8	--	50	6	--	28	5	15	22
103.050.045.1	A	53,5	--	M10	50	4	--	28	5	12	22
103.050.046.1	A	53,5	--	M14x1,5	50	6	--	28	5	12	22
103.050.047.1/2	C	53,5	--	--	50	6	31,8	32,6	5	--	22
103.060.048.1	A	63,8	--	G1/4	60	6	--	31	6	10	22
103.060.049.1	B	63,8	G1/4	--	60	8	--	36	6	20	22
103.060.050.1	B	63,8	G3/8	--	60	8	--	31	6	15	22
103.060.051.1	A	63,8	--	M10	60	4	--	31	6	12	22
103.060.052.1	A	63,8	--	M14x1,5	60	6	--	31	6	12	22
103.060.053.1/2	C	63,8	--	--	60	8	31,8	35,6	6	--	22
103.080.054.1	A	85,1	--	G1/4	80	6	--	35	7,6	10	22
103.080.055.1	B	85,1	G1/4	--	80	8	--	40	7,6	20	22
103.080.056.1	B	85,1	G3/8	--	80	8	--	35	7,6	15	22
103.080.057.1	A	85,1	--	M10	80	4	--	35	7,6	12	22
103.080.058.1	A	85,1	--	M14x1,5	80	6	--	35	7,6	12	22
103.080.059.1/2	C	85,1	--	--	80	8	31,8	39,6	7,6	--	22
103.100.060.1	A	104	--	G1/4	100	6	--	36	9,5	10	22
103.100.061.1	B	104	G1/4	--	100	8	--	41	9,5	20	22
103.100.062.1	B	104	G3/8	--	100	8	--	36	9,5	15	22
103.100.063.1	A	104	--	M10	100	4	--	36	9,5	12	22
103.100.064.1	A	104	--	M14x1,5	100	6	--	36	9,5	12	22
103.100.065.1/2	C	104	--	--	100	8	31,8	40,6	9,5	--	22
103.125.066.1	A	133	--	G1/4	125	6	--	43	12,5	10	22
103.125.067.1	B	133	G1/4	--	125	8	--	48	12,5	20	22
103.125.068.1	B	133	G3/8	--	125	8	--	43	12,5	15	22
103.125.070.1	A	133	--	M14x1,5	125	6	--	43	12,5	12	22
103.125.071.1/2	C	133	--	--	125	8	31,8	47,6	12,5	--	22

* aspirated condition