Vacuum

Suction cups

M/58300

Ø 6 to 150 mm

Wide variety of cup sizes

Choice of cup designs and material type

Flat cups ideal where minimal movement is required for pliable materials

Bellows cups ideal where level compensation is required

Technical data

Medium:
Vacuum

Operating temperature:
-10°C to +70°C for nitrile rubber cups
-30°C to +200°C for silicone cups
Consult our Technical Service for use below +2°C

Materials

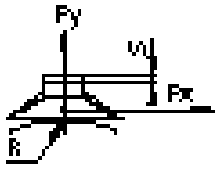
M/58000/01
Cups: nitrile rubber
Connection fittings: aluminium

M/58000/02
Cups: silicone
Connection fittings: aluminium

Model	Ø		Fy (N)		R	S	V	
Flat	mm	-0,2 bar	-0,6 bar	-0,9 bar	(mm)	(mm)	(cm^3)	kg
M/58301/*	6	0,5	1,5	2,3	5	1,5	0,017	0,001
M/58302/*	8	1	2,5	3,5	7	1,5	0,041	0,001
M/58303/*	10	1,5	4	6	9	2	0,065	0,001
M/58304/*	15	2,7	8	12	12	4	0,330	0,001
M/58305/*	20	5	15,5	23	13	2	0,500	0,008
M/58306/*	25	9	26,5	40	17,5	2,5	0,750	0,010
M/58307/*	30	11	34	51	26	2,5	1,3	0,012
M/58308/*	40	19	57,5	86	37	3,5	3	0,011
M/58309/*	50	30	91	135	41	4	4,2	0,016
M/58310/*	80	86	260	390	100	6	21	0,058
M/58311/*	120	180	540	810	365	6	82	0,359
M/58312/*	150	280	842	1250	380	9	177	0,59
Bellows								
M/58403/*	10	1,5	3,5	5	3	4	0,225	0,003
M/58404/*	15	3	6	8	5	6	0,750	0,004
M/58405/*	20	6	10	14	8	5	1,40	0,005
M/58407/*	30	12	22	28	15	12	4,75	0,013
M/58408/*	40	22	40	50	30	10	9,25	0,017
M/58409/*	50	34	66	84	40	15	26,25	0,026
M/58410/*	75	75	170	230	70	14	76	0,075
M/58411/*	110	140	350	460	85	36	111	0,386
M/58412/*	150	300	700	900	250	38	260	0,918

*Insert material code. nitrile: 01, silicone: 02

Note: Theoretical values are given in this table. Always allow a safety factor of > 2.



Fx = μ x Fy
where μ is the frictional coefficient of the material being handled.
An approximate guide:
Plastic μ = 0,4 to 0,5
Steel, oiled μ = 0,1 to 0,3
Glass μ = 0,3 to 0,5

Material characteristics

	Nitrile rubber	Silicone
Wear resistance	Good	Fair
Oil resistance	Excellent	Fair
Weather resistance	Good	Excellent
Ozone resistance	Fair	Excellent

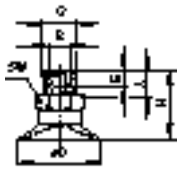
Suction cups

M/58300

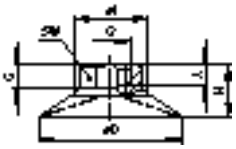
Ø 6 to 150 mm

Flat cups

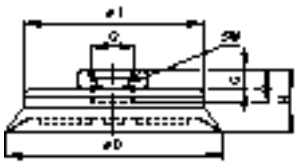
Ø 6 ... 30



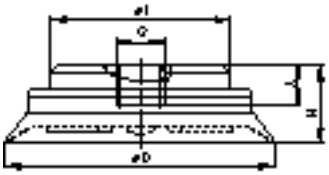
Ø 40 & 50



Ø 80



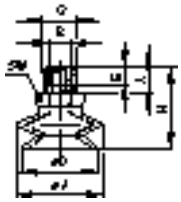
Ø 120 & 150



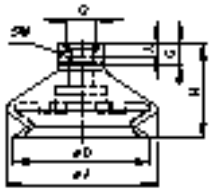
Model	Ø D	A	B	C	E	G	H	Ø I	SW (A/F)
M/58301	6	4,5	–	–	–	M 5	15	–	8
M/58302	8	4,5	–	–	–	M 5	16	–	8
M/58303	10	4,5	–	–	–	M 5	20	–	8
M/58304	15	4,5	–	–	–	M 5	21	–	8
M/58305	20	8	M5	–	7	G1/8 A	19,5	–	14
M/58306	25	8	M5	–	7	G1/8 A	20	–	14
M/58307	30	8	M5	–	7	G1/8 A	20,5	–	14
M/58308	40	6	–	9	–	G1/8	23	24	14
M/58309	50	6	–	11	–	G1/8	26	26	14
M/58310	80	13	–	3,5	–	G1/8	21,5	53	19
M/58311	120	9,5	–	–	–	G1/2	34,5	65	–
M/58312	150	9,5	–	–	–	G1/2	41,5	65	–

Bellows cups

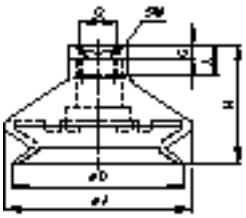
Ø 10 ... 30



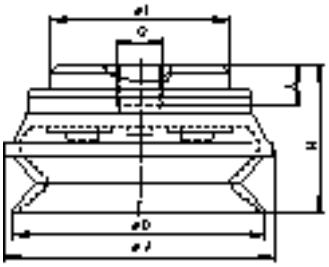
Ø 40 & 50



Ø 75



Ø 110 & 150



Model	Ø	A	B	C	Ø D	E	G	H	Ø I	Ø J	SW (A/F)
M/58403	10	5	–	–	11	–	M 5	26	–	12	7
M/58404	15	5	–	–	16	–	M 5	29	–	17	7
M/58405	20	7,5	M5	–	22	7	G1/8 A	30,5	–	24	14
M/58407	30	7,5	M5	–	33	7	G1/8 A	39	–	36	17
M/58408	40	6	–	9	43	–	G1/8	37	–	46	17
M/58409	50	6	–	9	53	–	G1/8	43	–	59	17
M/58410	75	12	–	4	78	–	G1/8	50	–	83	21
M/58411	110	9,5	–	–	110	–	G1/2	66,5	65	122	–
M/58412	150	9,5	–	–	150	–	G1/2	85,5	65	167	–