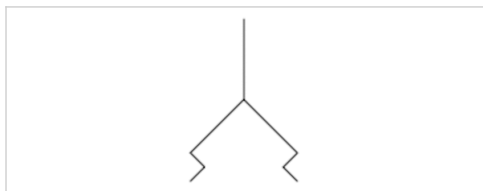


Bellow suction gripper, BSA series

- F = 0.1-45.2 N

- external diameter 5-89 mm

- Internal thread



Ambient temperature min./max. -10 ... 70 °C
 Min./max. temporary ambient temperature -30 ... 120 °C (30 s)
 Hardness according to standard 55 ± 5 Shore A
 Abrasion value according to DIN 535 16 100-120 mm³
 Weight See table below

Technical data

Part No.	Compressed air connection	external diameter	Holding force	Separation force	Volume
			*)		
1820415168	M5	5 mm	0,1 N	0,8 N	0,033 cm³
1820415105	G 1/8	5,9 mm	0,1 N	0,9 N	0,04 cm³
1820415073	G 1/8	9 mm	0,7 N	2,3 N	0,15 cm³
1820415077	G 1/8	14,5 mm	1,2 N	5,7 N	0,98 cm³
1820415081	G 1/8	17,2 mm	2,3 N	8,5 N	1,35 cm³
1820415085	G 1/8	20 mm	3,8 N	12,1 N	2 cm³
1820415089	G 1/4	32 mm	12 N	36,9 N	10 cm³
1820415093	G 1/4	42,6 mm	13,6 N	44 N	19,5 cm³
1820415097	G 1/4	62,2 mm	39,6 N	137 N	72,5 cm³
1820415101	G 1/4	89 mm	45,2 N	286 N	165 cm³

Part No.	Max. curving on object Rmin	Delivery unit	Weight
1820415168	8 mm	2 piece	0,005 kg
1820415105	8 mm	2 piece	0,005 kg
1820415073	10 mm	2 piece	0,005 kg
1820415077	15 mm	2 piece	0,006 kg
1820415081	20 mm	1 piece	0,006 kg
1820415085	30 mm	1 piece	0,007 kg
1820415089	35 mm	1 piece	0,018 kg
1820415093	75 mm	1 piece	0,03 kg
1820415097	75 mm	1 piece	0,06 kg

Part No.	Max. curving on object Rmin	Delivery unit	Weight
1820415101	100 mm	1 piece	0,17 kg

*) Theoretical value at 60% vacuum level, without safety factor

Technical information

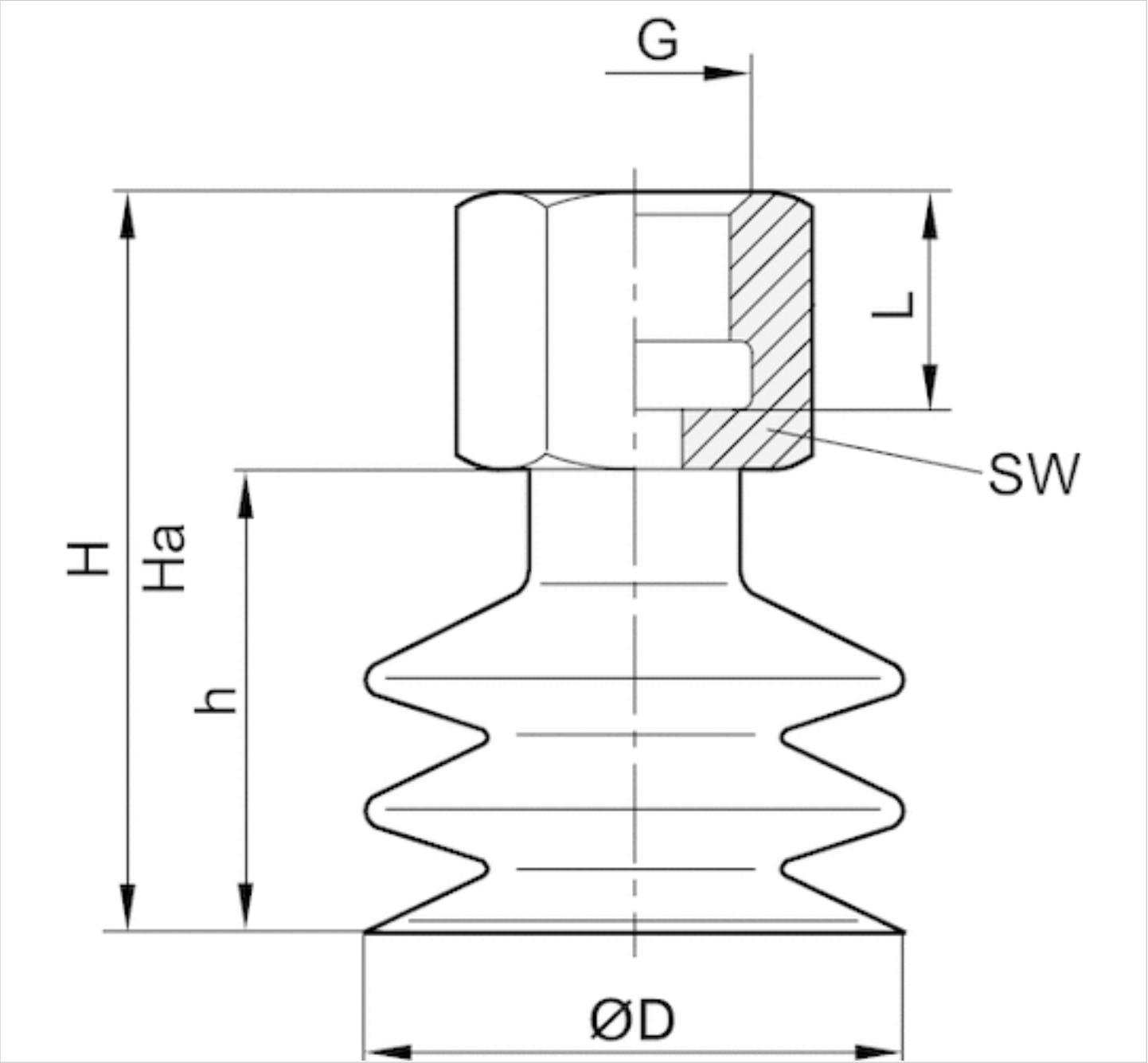
To be used on uneven, sensitive, and smooth to slightly rough surfaces.

Technical information

Material	
Connector	Aluminum
Vacuum	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions

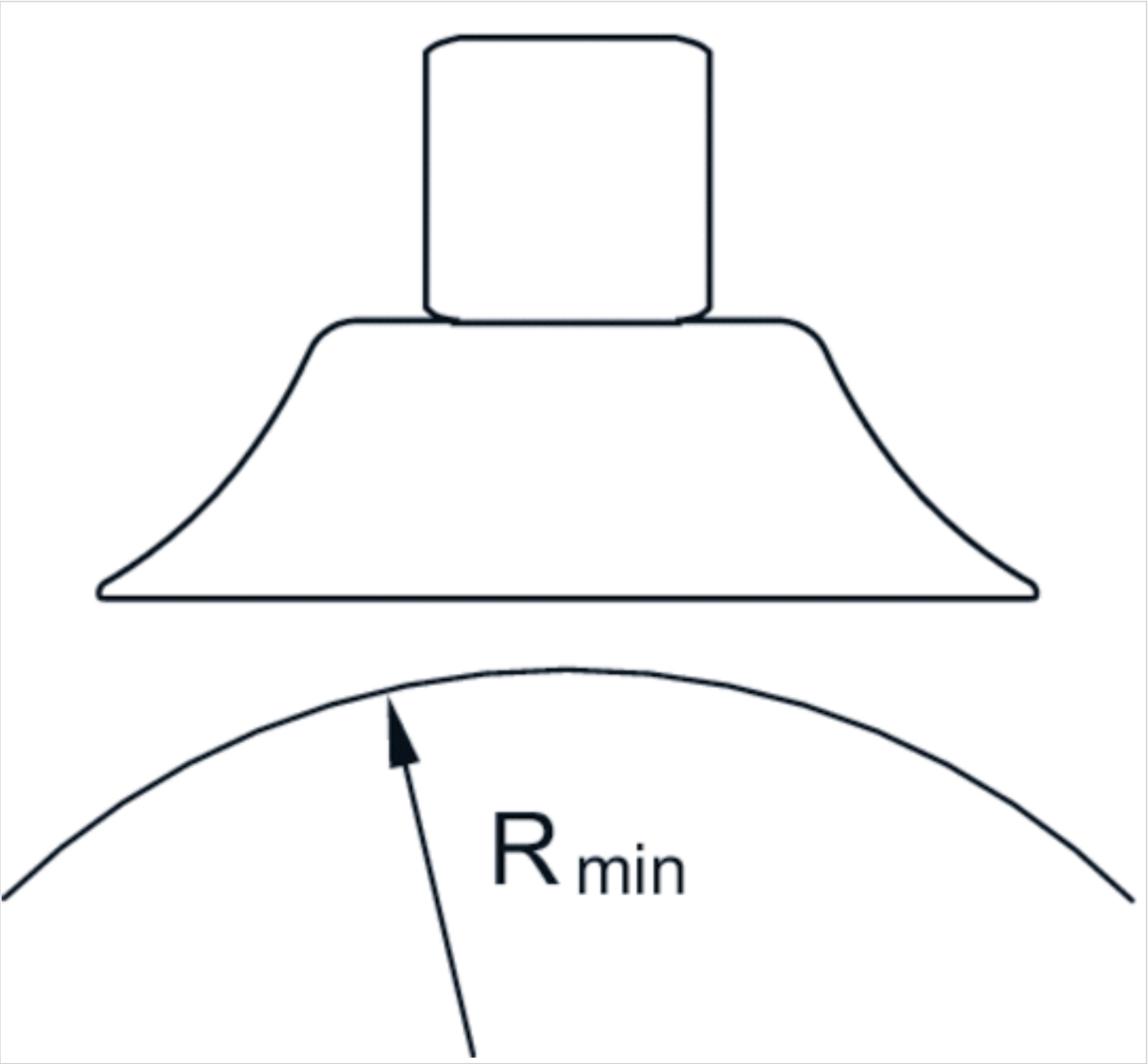
Part No.	ØD	G	Ha*)	H	h	L	SW
1820415168	5 mm	M5	21	24	13.5	8.5	8
1820415105	5,9 mm	G 1/8	22	26	14	9	14
1820415073	9 mm	G 1/8	24	27	15	9	14
1820415077	14,5 mm	G 1/8	25	34	22	9	14
1820415081	17,2 mm	G 1/8	25	34	22	9	14
1820415085	20 mm	G 1/8	25	34	22	9	14
1820415089	32 mm	G 1/4	37.5	52.5	37.5	12	17
1820415093	42,6 mm	G 1/4	41	61	46	12	17

Part No.	ØD	G	Ha*)	H	h	L	SW
1820415097	62,2 mm	G 1/4	41	70	55	12	17
1820415101	89 mm	G 1/4	69	103	88	12	21

*) Height for vacuum operation

Diagrams

Max. curving on object Rmin



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