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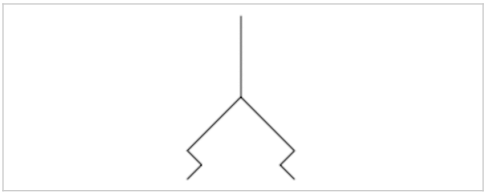
Bellow suction gripper, BSA series

- F = 0.1-45.2 N
- external diameter 5-89 mm
- Internal thread
- Heat resistant



Ambient temperature min./max.	-30 ... 180 °C
Min./max. temporary ambient temperature (30 s)	-50 ... 220 °C
Hardness according to standard	55 ± 5 Shore A
Abrasion value according to DIN 535 16	180-200 mm³
Weight	See table below

Technical data

Part No.	Compressed air connection	external diameter	Holding force *)	Separation force	Volume
1820415170	M5	5 mm	0,1 N	0,8 N	0,033 cm³
1820415107	G 1/8	5,9 mm	0,1 N	0,9 N	0,04 cm³
1820415075	G 1/8	9 mm	0,7 N	2,3 N	0,15 cm³
1820415079	G 1/8	14,5 mm	1,2 N	5,7 N	0,98 cm³
1820415083	G 1/8	17,2 mm	2,3 N	8,5 N	1,35 cm³
1820415087	G 1/8	20 mm	3,8 N	12,1 N	2 cm³
1820415091	G 1/4	32 mm	12 N	36,9 N	10 cm³
1820415095	G 1/4	42,6 mm	13,6 N	44 N	19,5 cm³
1820415099	G 1/4	62,2 mm	39,6 N	137 N	72,5 cm³
1820415103	G 1/4	89 mm	45,2 N	286 N	165 cm³

Part No.	Max. curving on object Rmin	Delivery unit	Weight
1820415170	8 mm	2 piece	0,005 kg
1820415107	8 mm	2 piece	0,005 kg
1820415075	10 mm	2 piece	0,005 kg
1820415079	15 mm	2 piece	0,006 kg
1820415083	20 mm	1 piece	0,006 kg
1820415087	30 mm	1 piece	0,007 kg
1820415091	35 mm	1 piece	0,018 kg
1820415095	75 mm	1 piece	0,03 kg

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Part No.	Max. curving on object Rmin	Delivery unit	Weight
1820415099	75 mm	1 piece	0,06 kg
1820415103	100 mm	1 piece	0,17 kg

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

Technical information

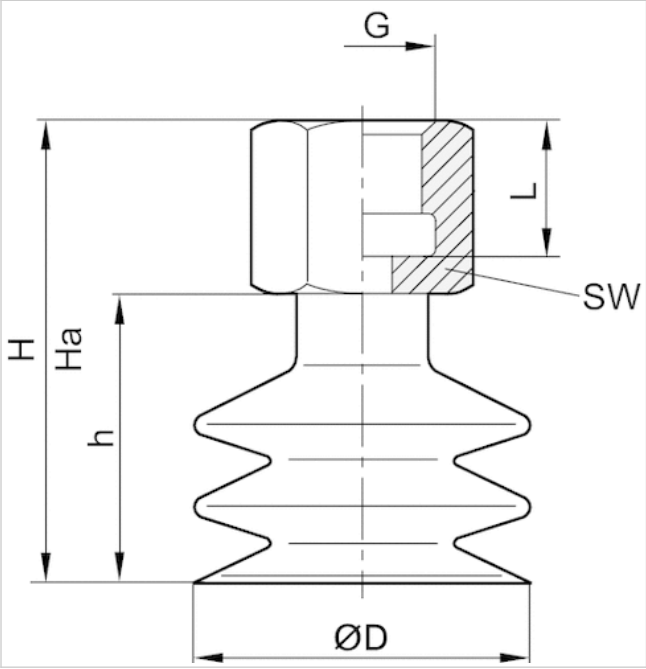
To be used on uneven, sensitive, and smooth to slightly rough surfaces.

Technical information

Material	
Connector	Aluminum
Vacuum	Fluoromethyl silicone

Dimensions

Dimensions



Dimensions

Part No.	ØD	G	Ha*)	H	h	L	SW
1820415170	5 mm	M5	21	24	13.5	8.5	8
1820415107	5,9 mm	G 1/8	22	26	14	9	14
1820415075	9 mm	G 1/8	24	27	15	9	14
1820415079	14,5 mm	G 1/8	25	34	22	9	14
1820415083	17,2 mm	G 1/8	25	34	22	9	14
1820415087	20 mm	G 1/8	25	34	22	9	14

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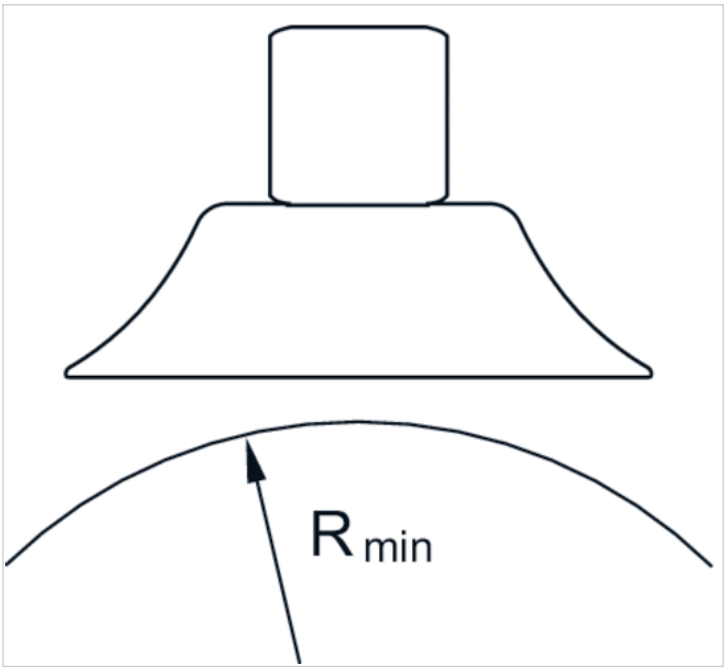
Part No.	ØD	G	Ha*)	H	h	L	SW
1820415091	32 mm	G 1/4	37.5	52.5	37.5	12	17
1820415095	42,6 mm	G 1/4	41	61	46	12	17
1820415099	62,2 mm	G 1/4	41	70	55	12	17
1820415103	89 mm	G 1/4	69	103	88	12	21

*) Height for vacuum operation

Diagrams

Max. curving on object Rmin