

Series BSG



AVENTICS™ Series BSG

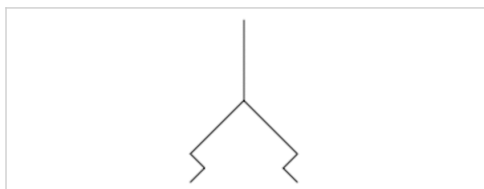


Bellow suction gripper, BSG series

- F = 0.95-570 N

- external diameter 10.4-150 mm

- Internal thread



Ambient temperature min./max.	-10 ... 70 °C
Min./max. temporary ambient temperature (30 s)	-30 ... 120 °C
Hardness according to standard	55 ± 5 Shore A
Abrasion value according to DIN 535 16	100-120 mm ³
Weight	See table below

Technical data

Part No.	Compressed air connection	external diameter	Holding force	Separation force	Volume
			*)		
1820415032	G 1/8	10.4 mm	0.95 N	3.8 N	0.23 cm ³
1820415036	G 1/8	15.6 mm	2.3 N	6.7 N	0.75 cm ³
1820415040	G 1/8	20 mm	5.7 N	15.2 N	1.4 cm ³
1820415044	G 1/4	30 mm	13.6 N	39.6 N	4.75 cm ³
1820415048	G 1/4	38 mm	22.8 N	64.5 N	9.25 cm ³
1820415052	G 1/4	50 mm	51.3 N	95 N	26.25 cm ³
1820415056	G 1/4	74 mm	137.4 N	218 N	76 cm ³
2734110000	G 1/2	111 mm	280 N	570 N	330 cm ³
2734150000	G 1/2	150 mm	570 N	1000 N	800 cm ³

Part No.	Max. curving on object Rmin	Delivery unit	Weight
1820415032	10 mm	2 piece	0.005 kg
1820415036	20 mm	2 piece	0.006 kg
1820415040	25 mm	1 piece	0.006 kg
1820415044	40 mm	1 piece	0.016 kg
1820415048	60 mm	1 piece	0.019 kg
1820415052	75 mm	1 piece	0.027 kg
1820415056	70 mm	1 piece	0.071 kg
2734110000	85 mm	1 piece	0.425 kg
2734150000	250 mm	1 piece	0.91 kg

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

Technical information

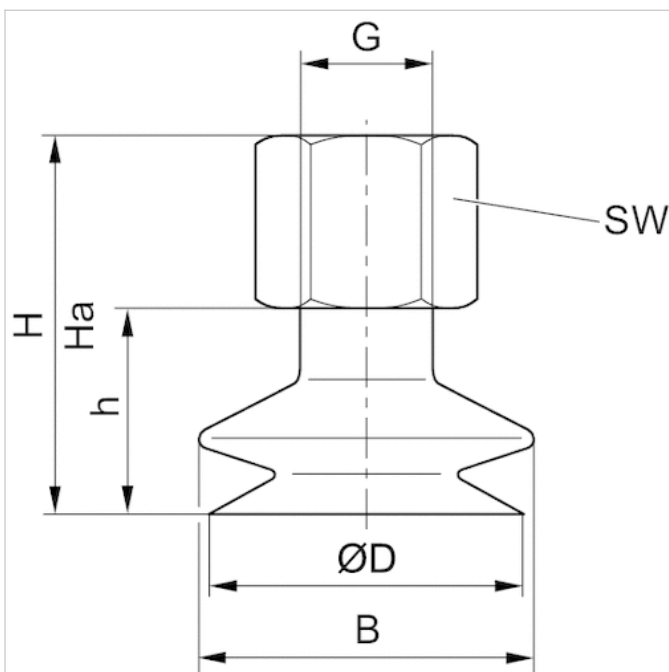
To be used on uneven, sensitive, and smooth to slightly rough surfaces.

Technical information

Material	
Connector	Aluminum
Vacuum	Acrylonitrile butadiene rubber

Dimensions

Dimensions



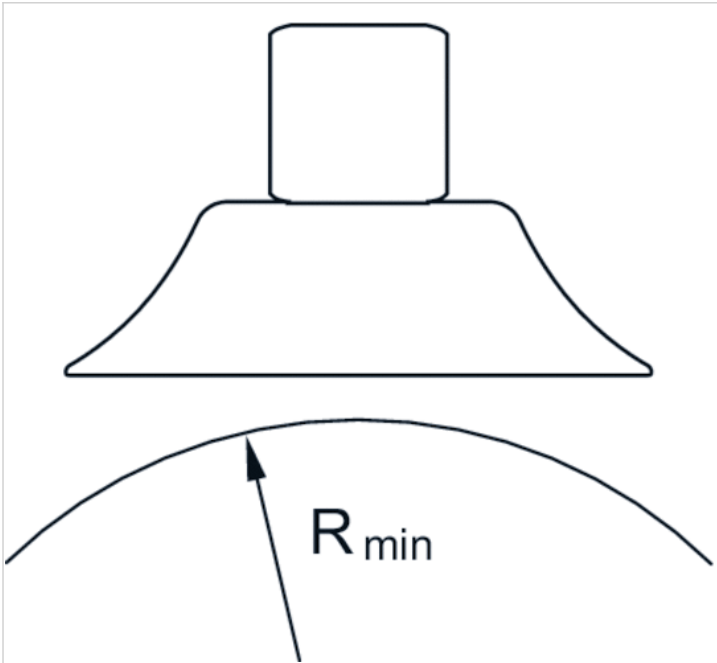
Dimensions

Part No.	ØD	G	Ha*)	H	h	B	SW
1820415032	10.4 mm	G 1/8	24	28	16	12	14
1820415036	15.6 mm	G 1/8	24	31	19	17	14
1820415040	20 mm	G 1/8	25	31	19	24	14
1820415044	30 mm	G 1/4	33	42	27	36	17
1820415048	38 mm	G 1/4	33	43	28	46	17
1820415052	50 mm	G 1/4	37	49	34	59	17
1820415056	74 mm	G 1/4	48	62	47	83	21
2734110000	111 mm	G 1/2	40.5	69.5	58	122	–
2734150000	150 mm	G 1/2	52	89.5	77	167	–

*) Height for vacuum operation

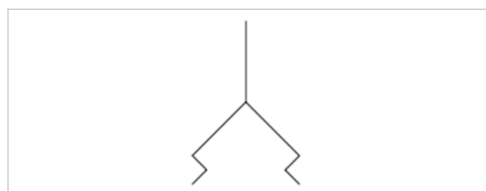
Diagrams

Max. curving on object R_{min}



Bellow suction gripper, BSG series

- F = 0.95-570 N
- external diameter 10.4-150 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 mm ³
Weight	See table below

Technical data

Part No.	Compressed air connection	external diameter	Holding force	Separation force	Volume
			*)		
1820415030	G 1/8	10.4 mm	0.95 N	3.8 N	0.23 cm ³
1820415034	G 1/8	15.6 mm	2.3 N	6.7 N	0.75 cm ³
1820415038	G 1/8	20 mm	5.7 N	15.2 N	1.4 cm ³
1820415042	G 1/4	30 mm	13.6 N	39.6 N	4.75 cm ³
1820415046	G 1/4	38 mm	22.8 N	64.5 N	9.25 cm ³
1820415050	G 1/4	50 mm	51.3 N	95 N	26.25 cm ³
1820415054	G 1/4	74 mm	137.4 N	218 N	76 cm ³
2734110100	G 1/2	111 mm	280 N	570 N	330 cm ³
2734150100	G 1/2	150 mm	570 N	1000 N	800 cm ³

Part No.	Max. curving on object Rmin	Delivery unit	Weight
1820415030	10 mm	2 piece	0.005 kg
1820415034	20 mm	2 piece	0.006 kg
1820415038	25 mm	1 piece	0.006 kg
1820415042	40 mm	1 piece	0.016 kg
1820415046	60 mm	1 piece	0.019 kg
1820415050	75 mm	1 piece	0.027 kg
1820415054	70 mm	1 piece	0.071 kg
2734110100	85 mm	1 piece	0.425 kg
2734150100	250 mm	1 piece	0.91 kg

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

Technical information

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

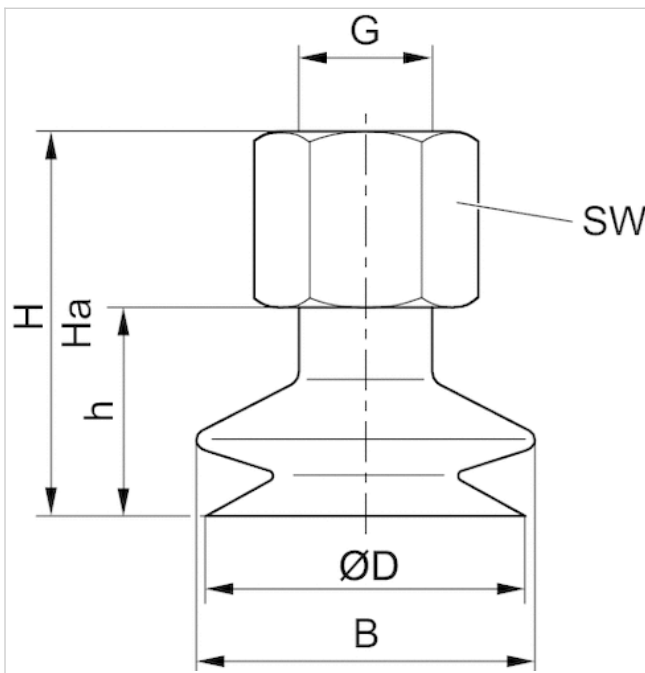
Technical information

Material

Connector	Aluminum
Vacuum	Fluoromethyl silicone

Dimensions

Dimensions



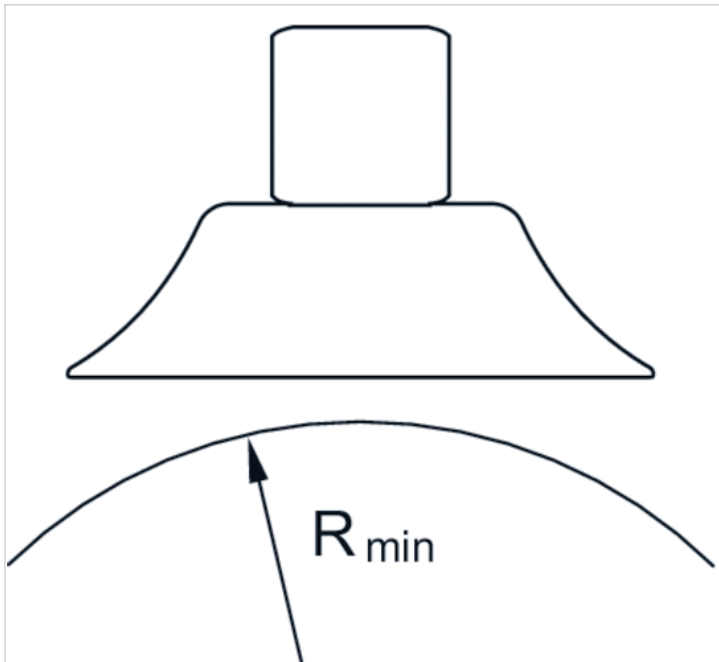
Dimensions

Part No.	ØD	G	Ha*)	H	h	B	SW
1820415030	10.4 mm	G 1/8	24	28	16	12	14
1820415034	15.6 mm	G 1/8	24	31	19	17	14
1820415038	20 mm	G 1/8	25	31	19	24	14
1820415042	30 mm	G 1/4	33	42	27	36	17
1820415046	38 mm	G 1/4	33	43	28	46	17
1820415050	50 mm	G 1/4	37	49	34	59	17
1820415054	74 mm	G 1/4	48	62	47	83	21
2734110100	111 mm	G 1/2	40.5	69.5	58	122	-
2734150100	150 mm	G 1/2	52	89.5	77	167	-

*) Height for vacuum operation

Diagrams

Max. curving on object R_{min}



Bellow suction gripper, BSG series

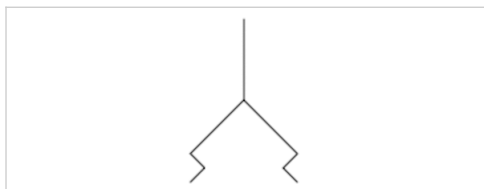
- F = 0.95-137.4 N

- external diameter 10.4-74 mm

- External thread



Ambient temperature min./max.	-10 ... 70 °C
Min./max. temporary ambient temperature (30 s)	-30 ... 120 °C
Hardness according to standard	55 ± 5 Shore A
Abrasion value according to DIN 535 16	100-120 mm ³
Weight	See table below



Technical data

Part No.	Compressed air connection	external diameter	Holding force	Separation force	Volume
			*)		
1820415031	G 1/8	10.4 mm	0.95 N	3.8 N	0.23 cm ³
1820415035	G 1/8	15.6 mm	2.3 N	6.7 N	0.75 cm ³
1820415039	G 1/8	20 mm	5.7 N	15.2 N	1.4 cm ³
1820415043	G 1/4	30 mm	13.6 N	39.6 N	4.75 cm ³
1820415047	G 1/4	38 mm	22.8 N	64.5 N	9.25 cm ³
1820415051	G 1/4	50 mm	51.3 N	95 N	26.25 cm ³
1820415055	G 1/4	74 mm	137.4 N	218 N	76 cm ³

Part No.	Max. curving on object Rmin	Delivery unit	Weight
1820415031	10 mm	2 piece	0.005 kg
1820415035	20 mm	2 piece	0.006 kg
1820415039	25 mm	1 piece	0.006 kg
1820415043	40 mm	1 piece	0.016 kg
1820415047	60 mm	1 piece	0.019 kg
1820415051	75 mm	1 piece	0.027 kg
1820415055	70 mm	1 piece	0.071 kg

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

Technical information

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

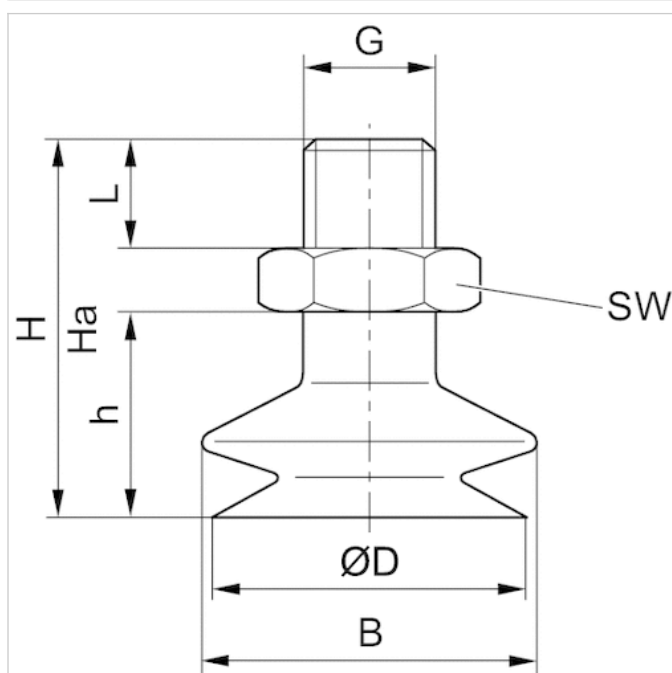
Technical information

Material

Connector	Aluminum
Vacuum	Acrylonitrile butadiene rubber

Dimensions

Dimensions



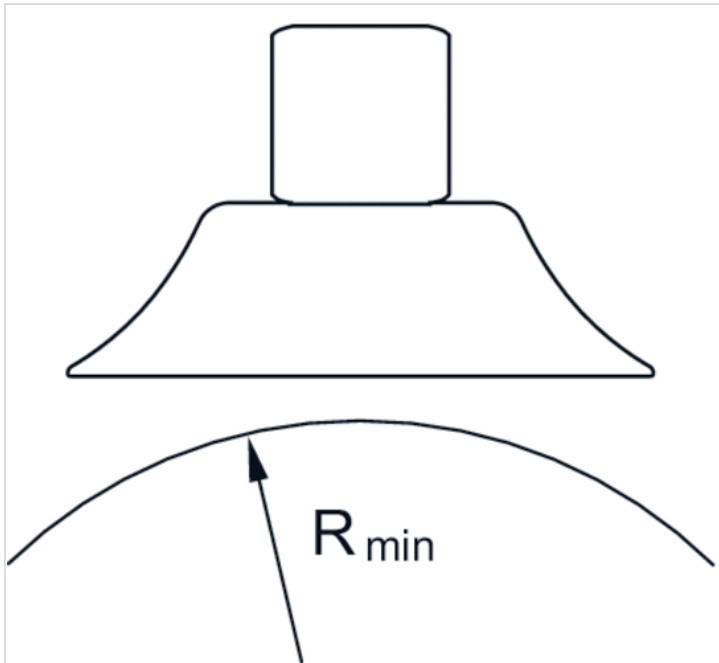
Dimensions

Part No.	ØD	G	Ha ^{*)}	H	h	B	SW	L
1820415031	10.4 mm	G 1/8	25.5	29.5	16	12	14	7.5
1820415035	15.6 mm	G 1/8	25.5	32.5	19	17	14	7.5
1820415039	20 mm	G 1/8	27.5	32.5	19	24	14	7.5
1820415043	30 mm	G 1/4	33	42	27	36	17	11
1820415047	38 mm	G 1/4	33	43	28	46	17	11
1820415051	50 mm	G 1/4	37	49	34	59	17	11
1820415055	74 mm	G 1/4	50	64	47	83	21	11

^{*)} Height for vacuum operation

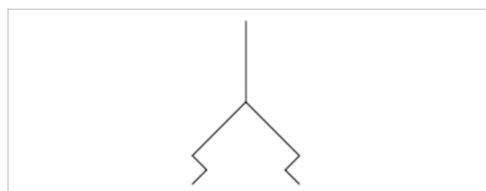
Diagrams

Max. curving on object Rmin



Bellow suction gripper, BSG series

- F = 0.95-137.4 N
- external diameter 10.4-74 mm
- External 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 mm ³
Weight	See table below

Technical data

Part No.	Compressed air connection	external diameter	Holding force	Separation force	Volume
			*)		
1820415029	G 1/8	10.4 mm	0.95 N	3.8 N	0.23 cm ³
1820415033	G 1/8	15.6 mm	2.3 N	6.7 N	0.75 cm ³
1820415037	G 1/8	20 mm	5.7 N	15.2 N	1.4 cm ³
1820415041	G 1/4	30 mm	13.6 N	39.6 N	4.75 cm ³
1820415045	G 1/4	38 mm	22.8 N	64.5 N	9.25 cm ³
1820415049	G 1/4	50 mm	51.3 N	95 N	26.25 cm ³
1820415053	G 1/4	74 mm	137.4 N	218 N	76 cm ³

Part No.	Max. curving on object Rmin	Delivery unit	Weight
1820415029	10 mm	2 piece	0.005 kg
1820415033	20 mm	2 piece	0.006 kg
1820415037	25 mm	1 piece	0.006 kg
1820415041	40 mm	1 piece	0.016 kg
1820415045	60 mm	1 piece	0.019 kg
1820415049	75 mm	1 piece	0.027 kg
1820415053	70 mm	1 piece	0.071 kg

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

Technical information

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

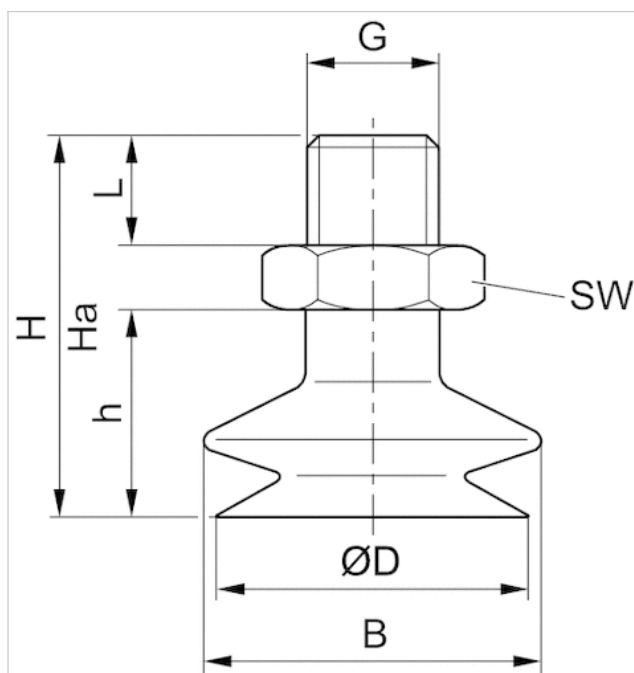
Technical information

Material

Connector	Aluminum
Vacuum	Fluoromethyl silicone

Dimensions

Dimensions



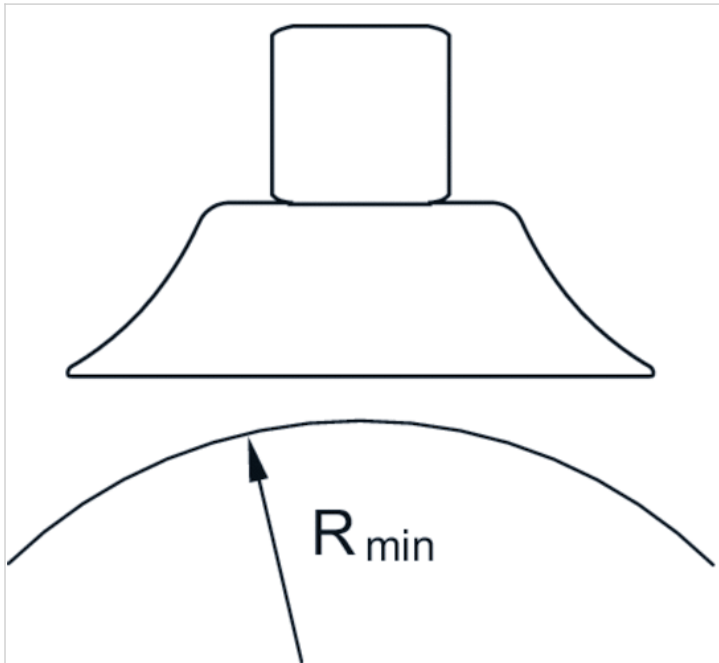
Dimensions

Part No.	ØD	G	Ha*)	H	h	B	SW	L
1820415029	10.4 mm	G 1/8	25.5	29.5	16	12	14	7.5
1820415033	15.6 mm	G 1/8	25.5	32.5	19	17	14	7.5
1820415037	20 mm	G 1/8	27.5	32.5	19	24	14	7.5
1820415041	30 mm	G 1/4	33	42	27	36	17	11
1820415045	38 mm	G 1/4	33	43	28	46	17	11
1820415049	50 mm	G 1/4	37	49	34	59	17	11
1820415053	74 mm	G 1/4	50	64	47	83	21	11

*) Height for vacuum operation

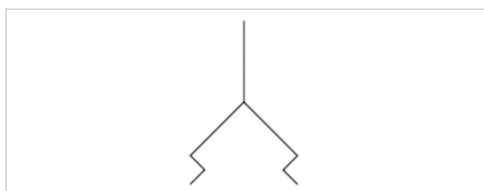
Diagrams

Max. curving on object R_{min}



Bellow suction gripper, BSG series

- F = 13.5-140 N
- external diameter 29-84 mm
- Internal thread
- low-wear



Ambient temperature min./max.	-40 ... 80 °C
Min./max. temporary ambient temperature (30 s)	-40 ... 100 °C
Hardness according to standard	72 ± 5 Shore A
Abrasion value according to DIN 535 16	10-12 mm ³
Weight	See table below

Technical data

Part No.	Compressed air connection	external diameter	Holding force	Separation force	Volume
			*)		
1820415158	G 1/4	29 mm	13.5 N	32 N	4.2 cm ³
1820415174	G 1/4	38 mm	33 N	56 N	11.3 cm ³
1820415176	G 1/4	47 mm	52 N	88 N	22.6 cm ³
1820415159	G 1/4	59 mm	75 N	120 N	31 cm ³
1820415160	G 1/4	84 mm	140 N	250 N	78 cm ³

Part No.	Max. curving on object Rmin	Delivery unit	Weight
1820415158	25 mm	1 piece	0.014 kg
1820415174	30 mm	1 piece	0.016 kg
1820415176	40 mm	1 piece	0.025 kg
1820415159	50 mm	1 piece	0.038 kg
1820415160	80 mm	1 piece	0.114 kg

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

Technical information

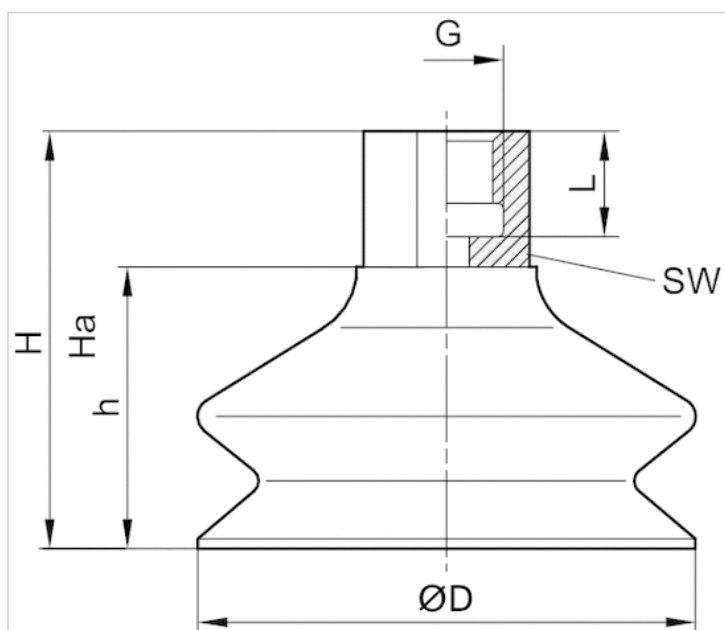
To be used on uneven, sensitive, and smooth to slightly rough surfaces.

Technical information

Material	
Connector	Aluminum
Vacuum	Polyurethane

Dimensions

Dimensions



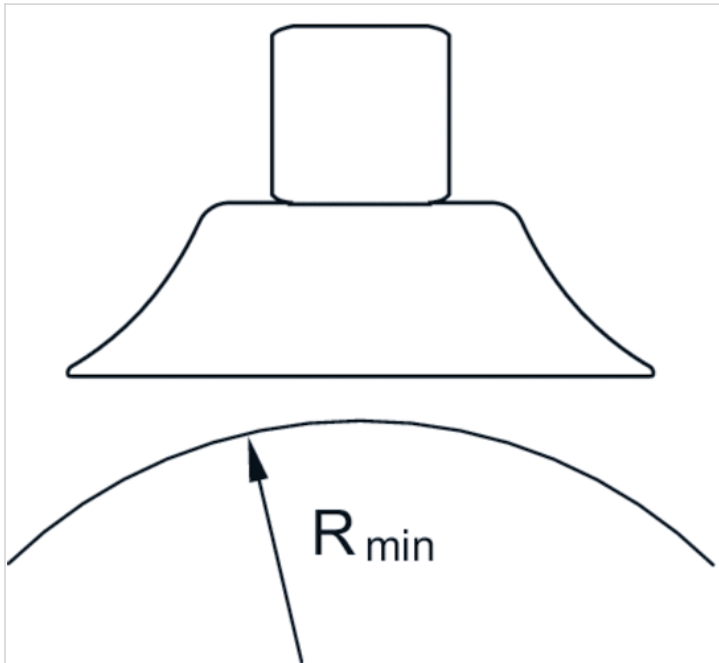
Dimensions

Part No.	ØD	G	Ha*)	H	h	L	SW
1820415158	29 mm	G 1/4	33.5	42	27	12	17
1820415174	38 mm	G 1/4	28.2	41	26	12	17
1820415176	47 mm	G 1/4	33	47.5	32.5	12	17
1820415159	59 mm	G 1/4	36.5	49	34	12	17
1820415160	84 mm	G 1/4	47	62	47	12	22

*) Height for vacuum operation

Diagrams

Max. curving on object R_{min}

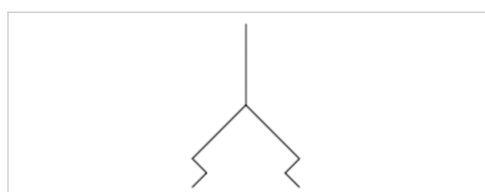


Bellow suction gripper, BSG series

- F = 13.5-140 N
- external diameter 29-84 mm
- External thread
- low-wear



Ambient temperature min./max.	-40 ... 80 °C
Min./max. temporary ambient temperature (30 s)	-40 ... 100 °C
Hardness according to standard	72 ± 5 Shore A
Abrasion value according to DIN 535 16	10-12 mm ³
Weight	See table below



Technical data

Part No.	Compressed air connection	external diameter	Holding force	Separation force	Volume
			*)		
1820415115	G 1/4	29 mm	13.5 N	32 N	4.2 cm ³
1820415175	G 1/4	38 mm	33 N	56 N	11.3 cm ³
1820415177	G 1/4	47 mm	52 N	88 N	22.6 cm ³
1820415116	G 1/4	59 mm	75 N	120 N	31 cm ³
1820415117	G 1/4	84 mm	140 N	250 N	78 cm ³

Part No.	Max. curving on object Rmin	Delivery unit	Weight
1820415115	25 mm	1 piece	0.015 kg
1820415175	30 mm	1 piece	0.017 kg
1820415177	40 mm	1 piece	0.026 kg
1820415116	50 mm	1 piece	0.038 kg
1820415117	80 mm	1 piece	0.109 kg

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

Technical information

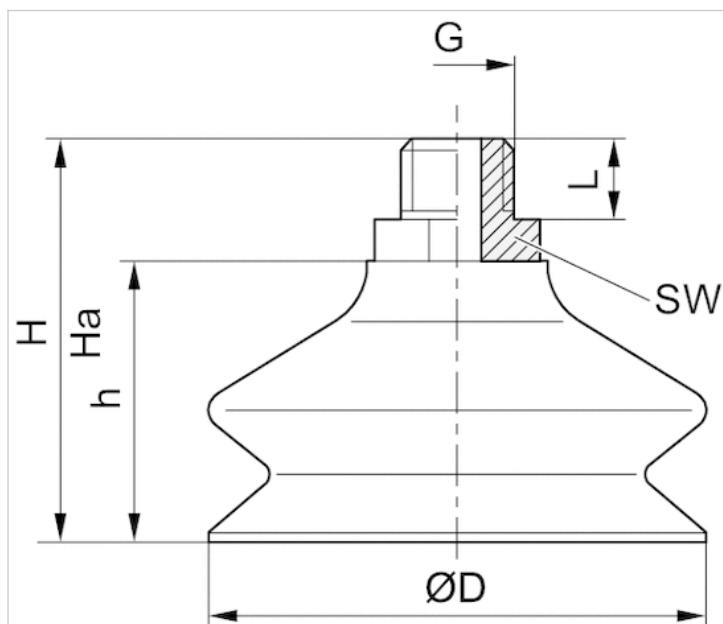
To be used on uneven, sensitive, and smooth to slightly rough surfaces.

Technical information

Material	
Connector	Aluminum
Vacuum	Polyurethane

Dimensions

Dimensions



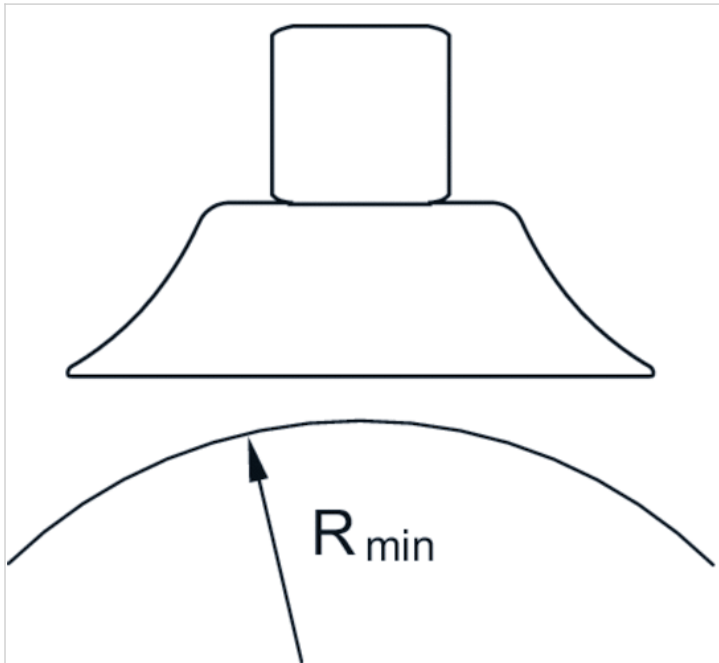
Dimensions

Part No.	ØD	G	Ha ^{*)}	H	h	L	SW
1820415115	29 mm	G 1/4	33.5	42	27	10	17
1820415175	38 mm	G 1/4	27.2	41	26	10	17
1820415177	47 mm	G 1/4	33	47.5	32.5	10	17
1820415116	59 mm	G 1/4	36.5	49	34	10	17
1820415117	84 mm	G 1/4	47	62	47	10	22

^{*)} Height for vacuum operation

Diagrams

Max. curving on object Rmin



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