



Vacuum Components

SOMMER
automatic

Combination possibilities

Mini-vacuum cups
Page 8

Dimension
[mm]

Adapter with external thread

Adapter with external thread and integrated vacuum generator

Adapter with external thread and spring-loaded compensation

Adapter with external thread, spring-loaded compensation and integr.vacuum generator

Adapter with external thread and workpiece identification

Adapter with external thread, workpiece identification and integ.vacuum generator

Adapter with internal thread

Adapter with internal thread and ball joint

Hand-held vacuum with integrated vacuum generator

For use with compact linear cylinder and integr. vacuum generator

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SM	1		VGS-M	FA	FAV					HS10	
SM	2		VGS-M	FA	FAV					HS10	
SM	3		VGS-M	FA	FAV					HS10	
SM	4		VGS-M	FA	FAV					HS10	
SM	5		VGS-M	FA	FAV					HS10	
SM	6		VGS-M	FA	FAV					HS10	
SM	8			FB	FBV						
SM	10			FB	FBV						
SM	12			FB	FBV						
SM	15			FC	FCV						
SM	18			FC	FCV						
SM	20			FC	FCV						
SM	25			FD	FDV						
SM	30			FD	FDV						
SM	35			FD	FDV						

Vacuum cups
Page 0

Dimension
[mm]

SG 6 | | VGS-A | | | | | | | | || SG | 8 | | VGS-A | | | | | | | | |
SG	10		VGS-B								X
SG	12		VGS-B								X
SG	15		VGS-B								X
SG	18		VGS-B								X
SG	22		VGS-B								X
SG	25		VGS-B								X
SG	30		VGS-B								X
SG	35		VGS-B								X
SG	40		VGS-C								X
SG	60		VGS-C								X
SG	85		VGS-D								
SG	130		VGS-D								

Knobbed vacuum cups
Page 10

Dimension
[mm]

NS 10 | SA1/8 | SAV1/8 | FC | FCV | SAM14X1 | SAVM14X1 | SI1/8 | | | || NS | 15 | SA1/8 | SAV1/8 | FC | FCV | SAM14X1 | SAVM14X1 | SI1/8 | | | |
NS	18	SA1/8	SAV1/8	FC	FCV		SAVM14X1	SI1/8			
NS	24	SA1/4	SAV1/4	FE	FEV	SAM16X1	SAVM16X1	SI1/4			
NS	30	SA1/4	SAV1/4	FE	FEV	SAM16X1	SAVM16X1	SI1/4			
NS	40	SA1/4	SAV1/4	FE	FEV	SAM16X1	SAVM16X1	SI1/4			
NS	50	SA1/4	SAV1/4	FE	FEV	SAM16X1	SAVM16X1	SI1/4			
NS	60	SA1/4	SAV1/4	FE	FEV	SAM16X1	SAVM16X1	SI1/4			
NS	70	SA1/4	SAV1/4	FE	FEV	SAM16X1	SAVM16X1	SI1/4			
NS	85	SA1/4	SAV1/4	FE	FEV	SAM16X1	SAVM16X1	SI1/4			
NS	100	SA1/4	SAV1/4	FE	FEV	SAM16X1	SAVM16X1	SI1/4			

Knobbed vacuum cups
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Dimension
[mm]

PNS...A 100 | SA22 | SAV22 | | | | | | | | || PNS...A | 125 | SA22 | SAV22 | | | | | | | | |
PNS...A	150	SA22	SAV22								
KNS...A	100								SGA22		
KNS...A	125								SGA22		
KNS...A	150								SGA22		

Bellows cups short stroke
Page 12

Dimension
[mm]

SFK 24 | SA1/4 | SAV1/4 | FE | FEV | | | SI1/4 | | | || SFK | 30 | SA1/4 | SAV1/4 | FE | FEV | | | SI1/4 | | | |
| SFK | 40 | SA1/4 | SAV1/4 | FE | FEV | | | SI1/4 | | | |

Combination possibilities

		Adapter with external thread	Adapter with external thread and integrated vacuum generator	Adapter with external thread and spring-loaded compensation	Adapter with external thread, spring-loaded compensation and integr. vacuum generator	Adapter with external thread and workpiece identification	Adapter with external thread, workpiece identification and integr. vacuum generator	Adapter with internal thread	Adapter with internal thread and ball joint	Hand-held vacuum with integrated vacuum generator	For use with compact linear cylinder and integr. vacuum generator
Bellows Cups Page 13	Dimension [mm]	Page 18	Page 22	Page 20	Page 21	Page 25	Page 24	Page 19	Page 26	Page 27	Page 28
SF	10	SA1/8	SAV1/8	FC	FCV			SI1/8			
SF	15	SA1/8	SAV1/8	FC	FCV			SI1/8			
SF	18	SA1/8	SAV1/8	FC	FCV			SI1/8			
SF	24	SA1/4	SAV1/4	FE	FEV			SI1/4			
SF	30	SA1/4	SAV1/4	FE	FEV			SI1/4			
SF	40	SA1/4	SAV1/4	FE	FEV			SI1/4			
SF	60	SA1/4	SAV1/4	FE	FEV			SI1/4			
SF	85	SA1/4	SAV1/4	FE	FEV			SI1/4			
Torus vacuum cups Page 14	Dimension [mm]										
SR12/SK6		SA1/8	SAV1/8	FC	FCV			SI1/8			
SR12/SK9		SA1/8	SAV1/8	FC	FCV			SI1/8			
SR15/SK6		SA1/8	SAV1/8	FC	FCV			SI1/8			
SR15/SK9		SA1/8	SAV1/8	FC	FCV			SI1/8			
SR20/SK6		SA1/8	SAV1/8	FC	FCV			SI1/8			
SR20/SK9		SA1/8	SAV1/8	FC	FCV			SI1/8			
SR20/SK13		SA1/8	SAV1/8	FC	FCV			SI1/8			
SR25/SK11		SA1/4	SAV1/4	FE	FEV			SI1/4			
SR25/SK19		SA1/4	SAV1/4	FE	FEV			SI1/4			
SR30/SK11		SA1/4	SAV1/4	FE	FEV			SI1/4			
SR30/SK19		SA1/4	SAV1/4	FE	FEV			SI1/4			
SR35/SK11		SA1/4	SAV1/4	FE	FEV			SI1/4			
SR35/SK19		SA1/4	SAV1/4	FE	FEV			SI1/4			
SR35/SK25		SA1/4	SAV1/4	FE	FEV			SI1/4			
SR40/SK11		SA1/4	SAV1/4	FE	FEV			SI1/4			
SR40/SK19		SA1/4	SAV1/4	FE	FEV			SI1/4			
SR40/SK25		SA1/4	SAV1/4	FE	FEV			SI1/4			
SR50/SK11		SA1/4	SAV1/4	FE	FEV			SI1/4			
SR50/SK19		SA1/4	SAV1/4	FE	FEV			SI1/4			
SR50/SK25		SA1/4	SAV1/4	FE	FEV			SI1/4			
Oval vacuum cups Page 15	Dimension [mm]										
OV	3 x 10	SA1/8	SAV1/8	FC	FCV	SAM14X1	SAVM14X1	SI1/8			
OV	5 x 15	SA1/8	SAV1/8	FC	FCV	SAM14X1	SAVM14X1	SI1/8			
OV	6 x 18	SA1/8	SAV1/8	FC	FCV	SAM14X1	SAVM14X1	SI1/8			
OV	8 x 24	SA1/8	SAV1/8	FC	FCV	SAM14X1	SAVM14X1	SI1/8			
OV	10 x 30	SA1/8	SAV1/8	FC	FCV	SAM14X1	SAVM14X1	SI1/8			
OV	12 x 36	SA1/8	SAV1/8	FC	FCV	SAM14X1	SAVM14X1	SI1/8			
OV	15 x 45	SA1/4	SAV1/4	FE	FEV	SAM16X1	SAVM16X1	SI1/4			
OV	20 x 60	SA1/4	SAV1/4	FE	FEV	SAM16X1	SAVM16X1	SI1/4			
OV	25 x 75	SA1/4	SAV1/4	FE	FEV	SAM16X1	SAVM16X1	SI1/4			
OV	28 x 85	SA1/4	SAV1/4	FE	FEV	SAM16X1	SAVM16X1	SI1/4			
OV	35 x 100	SA1/4	SAV1/4	FE	FEV	SAM16X1	SAVM16X1	SI1/4			
Oval vacuum cups Page 16	Dimension [mm]										
POV..A	50 x 150	SA22	SAV22								
POV..A	60 x 180	SA22	SAV22								
POV..A	70 x 210	SA22	SAV22								
KOV..A	50 x 150								SGA22		
KOV..A	60 x 180								SGA22		
KOV..A	70 x 210								SGA22		
Oval vacuum cups Page 17	Dimension [mm]										
SFO	8 x 25	SA1/8	SAV1/8	FC	FCV			SI1/8			
SFO	15 x 45	SA1/4	SAV1/4	FE	FEV			SI1/4			
SFO	25 x 75	SA1/4	SAV1/4	FE	FEV			SI1/4			

Vacuum-Components



Mini vacuum cups SM/SG

Range of application:

- flat and light arched surface

Special features:

- possible to transfer high valve forces
- suction diameter from 1 mm

from Page 8



Knobbed vacuum cups NS/PNS

Range of application:

- flat and unstable surfaces

Special features:

- knobs prevent to suck away thin material
- high stability

from Page 10



Bellows cups SFK/SF

Range of application:

- light arched, bevel and uneven surfaces

Special features:

- compensates differences in height
- the suction process creates a lifting effect

from Page 12



Torus vacuum cups SR/SK

Range of application:

- flat, light arched and not closed surfaces

Special features:

- rubber core allowed picking up parts with holes

from Page 14



Oval vacuum cups OV/POV/KOV

Range of application:

- long, narrow and light arched surfaces

Special features:

- depending on type, metal base plate
- flexibel seal lips

from Page 15



Oval bellow vacuum cups SFO

Range of application:

- long, narrow and light uneven surfaces

Special features:

- compensates differences in height
- the suction process creates a lifting effect

from Page 17



Adapter

Range of application:

- connection between suction cup and adapter

Special features:

- depending on type with integrated pin for workpiece identification available
- depending on type with vacuum generator available

from Page 18



Hand-held vacuum

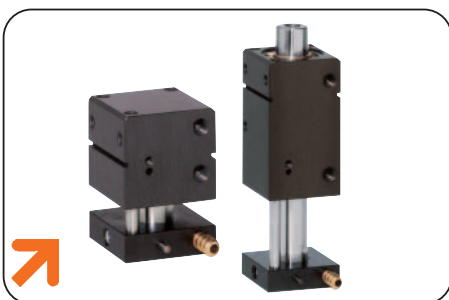
Range of application:

- handling of very small parts with flat and light arched surfaces

Special features:

- integrated vacuum generator, vacuum can be applied or removed by hand
- possible to combine with suction cup of the SM series

from Page 27



Compact linear cylinder

Range of application:

- load and unload of workpieces

Special features:

- integrated vacuum generator, vacuum can be applied or removed by hand
- possible to combine with suction cup of the SG series

from Page 28



Vacuum generator

Range of application:

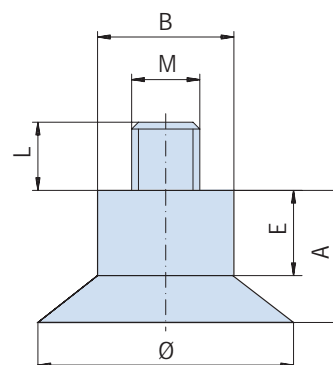
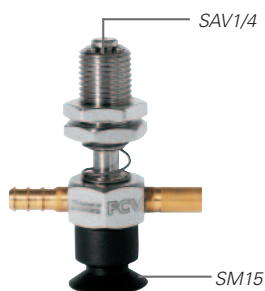
- vacuum generation

Special features:

- compact design

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Mini-Vacuum Cups **SM**



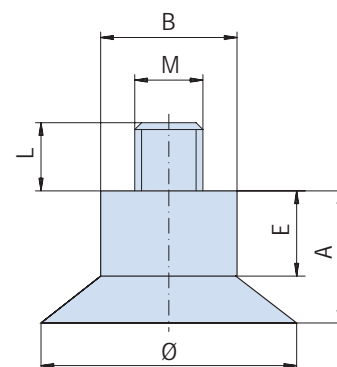
Order no.:	SM1	SM2	SM3	SM4	SM5	SM6	SM8	SM10
Vacuum force [N]:	0,05	0,19	0,42	0,75	1,18	1,70	3,01	4,71
Dimension Ø [mm]:	1	2	3	4	5	6	8	10
Dimension A [mm]:	6	6	6	6	6	6	10	10
Dimension B [mm]:	3	3	3	3	3	3	10	10
Dimension E [mm]:	4	4	4	4	4	4	4	5
Dimension L [mm]:	4	4	4	4	4	4	4	4
Dimension M [mm]:	M4	M4	M4	M4	M4	M4	-	-

Order no.:	SM12	SM15	SM18	SM20	SM25	SM30	SM35
Vacuum force [N]:	6,78	10,60	15,20	22,80	29,40	42,40	57,70
Dimension Ø [mm]:	12	15	18	20	25	30	35
Dimension A [mm]:	10	12,5	12,5	12,5	16	16	16
Dimension B [mm]:	10	12	12	12	16	16	16
Dimension E [mm]:	5	10	10	9	12	10	8
Dimension L [mm]:	4	4	4	4	6	6	6
Dimension M [mm]:	-	-	-	-	-	-	-

All data measured at 0.6 bar vacuum.

Design	Material	Color	Heat-resistant	Durometer	Extra charge	Add to part # when ordering
Standard	NBR	black	-20°C bis + 110°C.	65 ±3	no	-
Heat-resistant	Silicon	blue	-55°C bis + 200°C	60 ±5	no	SI (e. g. SM10SI)
Food-handling	Silicon tempered	white	-55°C bis + 180°C	60 ±5	yes	L (e. g. SM10L)

Vacuum Cups **SG**



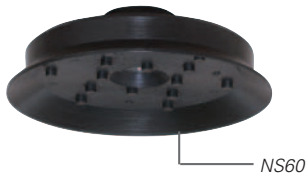
Order no.:	SG6	SG8	SG10	SG12	SG15	SG18	SG22
Vacuum force [N]:	1,70	3,01	4,71	6,78	10,60	15,20	22,80
Dimension Ø [mm]:	6	8	10	12	15	18	22
Dimension A [mm]:	8	8	8	9	10	10	11
Dimension B [mm]:	5	5	8	8	8	8	8
Dimension E [mm]:	7	7	7	7	6	6	6
Dimension L [mm]:	4	4	4	4	4	4	4
Dimension M [mm]:	M4	M4	M5	M5	M5	M5	M5

Order no.:	SG25	SG30	SG35	SG40	SG60	SG85	SG130
Vacuum force [N]:	29,40	42,40	57,70	75,40	170	340	769
Dimension Ø [mm]:	25	30	35	40	60	85	130
Dimension A [mm]:	11	12	12	14	16	36	42
Dimension B [mm]:	8	8	8	15	15	25	25
Dimension E [mm]:	6	6	6	4	4	12	12
Dimension L [mm]:	6	6	6	10	10	10	10
Dimension M [mm]:	M5	M5	M5	M8	M8	M12	M12

All data measured at 0.6 bar vacuum.

Design	Material	Color	Heat-resistant	Durometer	Extra charge	Add to part # when ordering
Standard	NBR	schwarz	-20°C bis + 110°C	65 ±3	no	-
Heat-resistant	Silikon	blue	-55°C bis + 200°C	60 ±5	no	SI (e. g. SG10SI)
Food-handling	Silicon tempered	white	-55°C bis + 180°C	60 ±5	yes	L (e. g. SG10L)

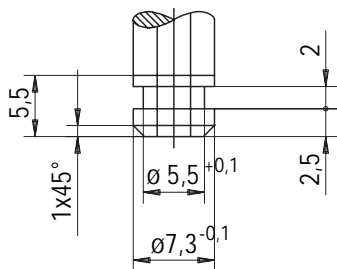
Knopped Vacuum Cups **NS**

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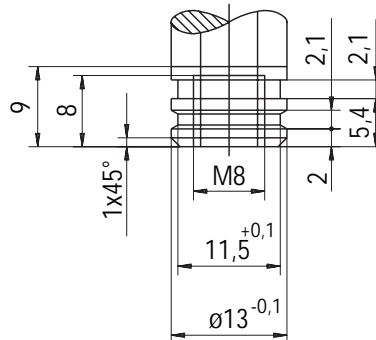
All data measured at 0.6 bar vacuum.

Design	Material	Color	Heat-resistant	Durometer	Extra charge	Add to part # when ordering
Standard	NBR	black	-20°C bis + 110°C	65 ±3	no	-
Heat-resistant	Silicon	blue	-55°C bis + 200°C	60 ±5	no	SI (e. g. SM10SI)
Food-handling	Silicon tempered	white	-55°C bis + 180°C C	60 ±5	yes	L (e.g. SM10L)

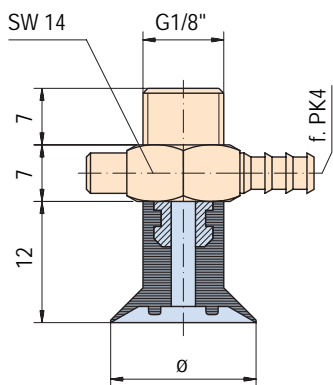
Plug-in-connection for vacuum cups



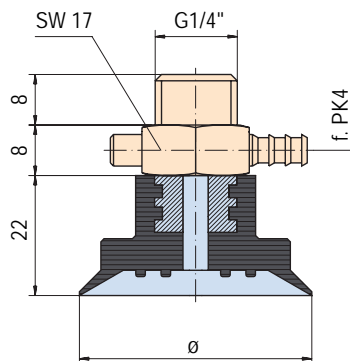
NS10 up to NS18



NS24 up to NS100



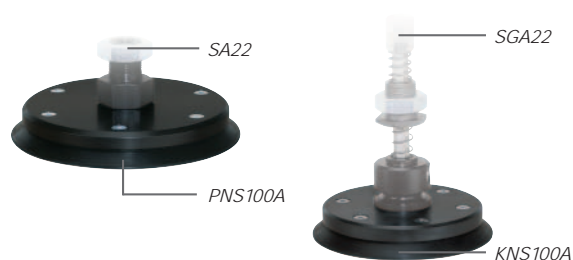
SAV1/8



SAV1/4

Subject to change without prior notice

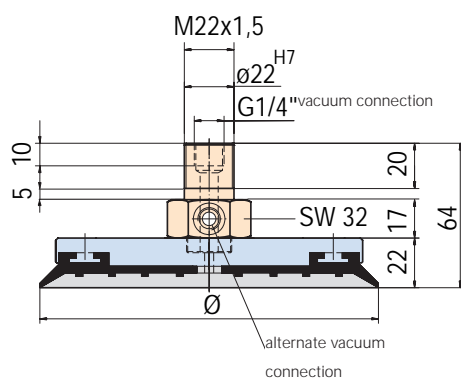
Knopped Vacuum Cups **PNS/KNS**



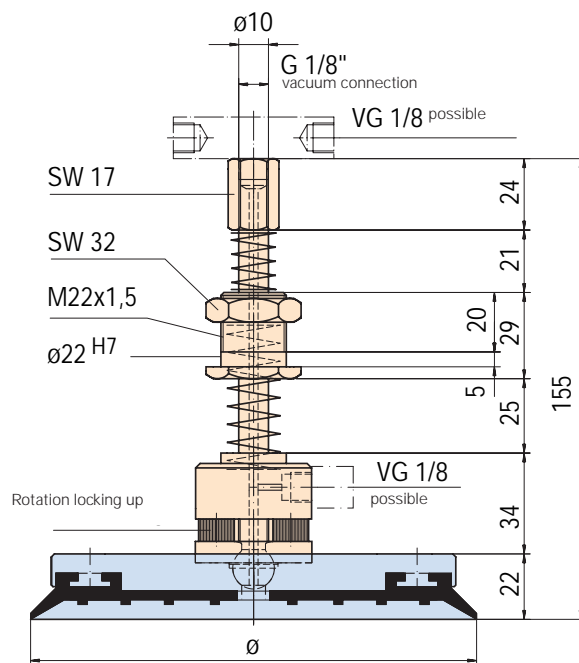
Order no.:	PNS100A	PNS125A	PNS150A	KNS100A	KNS125A	KNS150A
Vacuum force [N]:	471	735	1055	471	735	1055
Dimension Ø [mm]:	100	125	150	100	125	150

All data measured at 0,6 bar Vacuum.

Design	Material	Color	Heat-resistant	Durometer	Extra charge	Add to part # when ordering
Standard	NBR	black	-20°C up to + 110°C.	65 ±3	no	-
Heat-resistant	Silicon	blue	-55°C up to + 200°C	60 ±5	no	SI (e. g. SM10SI)
Food-handling	Silicon	white	-55°C up to + 180°C	60 ±5	yes	L (e. g. SM10L)



SA22 + PNS



SGA22 + KNS

Subject to change without prior notice

Bellows Cups **SFK**

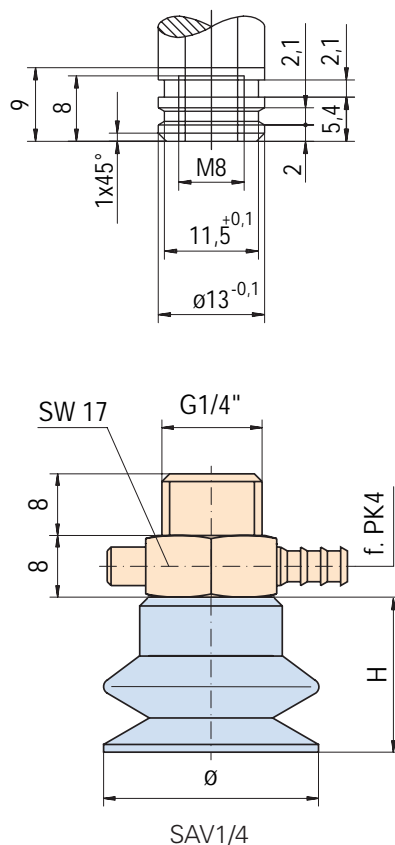


Order no:	SFK24	SFK30	SFK40
Vacuum force [N]:	27,10	42,40	75,40
Lifting force at 0,8 bar vacuum [N]:	9,8	13,2	25,1
Dimension Ø [mm]:	24	30	40
Dimension H max. [mm]:	19	22	27
Dimension H min. [mm]:	13	15	20

All data measured at 0.6 bar vacuum

Design	Material	Color	Heat-resistant	Durometer	Extra charge	Add to part # when ordering
Standard	NBR	black	-20°C bis + 110°C	65 ±3	no	-
Heat-resistant	Silicon	blue	-55°C bis + 200°C	60 ±5	no	SI (e. g. SFK24SI)
Food-handling	Silicon tempered	white	-55°C bis + 180°C	60 ±5	yes	L (e. g. SFK24L)

Plug-in-connection for vacuum cups



Subject to change without prior notice

Bellows Cups **SF**

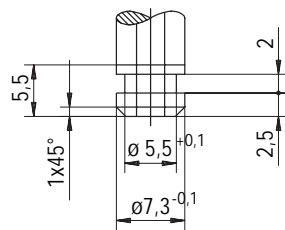


Order no.:	SF10	SF15	SF18	SF24	SF30	SF40	SF60	SF85
Vacuum force [N]:	4,7	10,6	15,2	27,1	42,2	75,4	170	340
Lifting force at 0,8 bar vacuum [N]:	2,56	4,0	6,3	9,8	13,2	25,1	54,7	90,7
Dimension Ø [mm]:	10	15	18	24	30	40	60	85
Dimension H max. [mm]:	14	16	18	26	34	45	55	80
Dimension H min. [mm]:	10	10	10	18	22	27	35	50

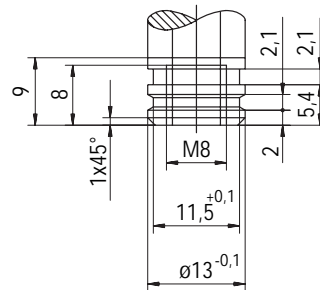
All data measured at 0,6 bar vacuum

Design	Material	Color	Heat-resistant	Durometer	Extra charge	Add to part # when ordering
Standard	NBR	black	-20°C bis + 110°C	65 ±3	no	-
Heat-resistant	Silicon	blue	-55°C bis + 200°C	60 ±5	no	SI (e. g. SG10SI)
Food-handling	Silicon tempered	white	-55°C bis + 180°C	60 ±5	yes	L (e. g. SG10L)

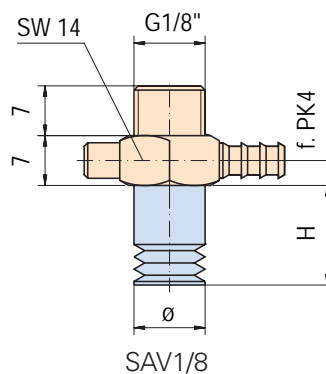
Plug-in-connection for vacuum cups



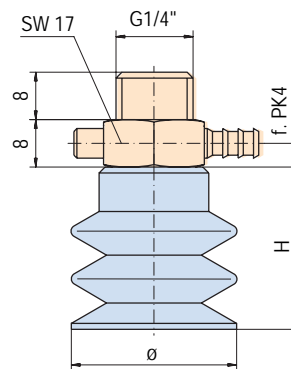
SF10 up to SF18



SF24 up to SF85



SAV1/8



SAV1/4

Subject to change without prior notice

Torus Vacuum Cups **SR/SK**



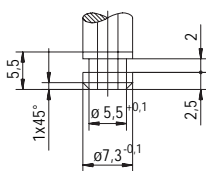
Order no.:	SR12 + SK6	SR12 + SK9	SR15 + SK6	SR15 + SK9	SR20 + SK6	SR20 + SK9	SR20 + SK13	SR25 + SK11	SR25 + SK19	SR30 + SK11
Vacuum force [N]:	5	3	9	7	17	15	11	23.5	12	36
Dimension outer-Ø [mm]:	12	12	15	15	20	20	20	25	25	30
Dimension inner-Ø [mm]:	6	9	6	9	6	9	13	11	19	11
Height [mm]:	15	15	15	15	15	15	15	22	22	22

[illegible]

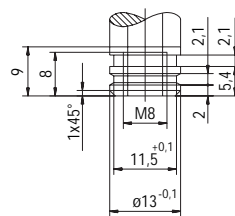
All data measured at 0.6 bar vacuum

Design	Material	Color	Heat-resistant	Durometer	Extra charge	Add to part # when ordering
Standard	NBR	black	-20°C bis + 110°C	65 ±3	no	-
Heat-resistant	Silicon	blue	-55°C bis + 200°C	60 ±5	no	SI (e. g. SR12SI)
Food-handling	Silicon tempered	white	-55°C bis + 180°C	60 ±5	yes	L (e. g. SR12L)

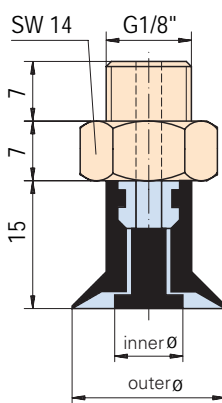
Plug-in-connection for vacuum cups



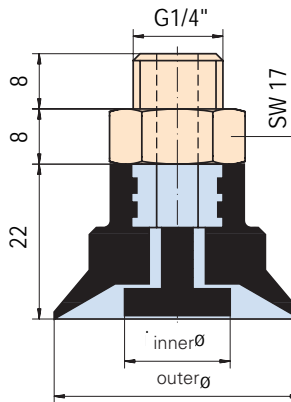
SR12 up to SR20



SR25 up to SR50



SA1/8



SAV1/4

Subject to change without prior notice

Torus Vacuum Cups **OV**

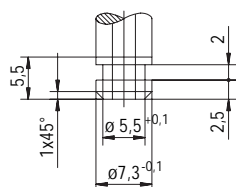


Order no	OV3-10	OV5-15	OV6-18	OV8-24	OV10-30	OV12-36	OV15-45	OV20-60	OV25-75	OV28-85	OV35-100
Vacuum force [N]:	1,5	4,1	6	10,7	16,7	24	37,6	66,8	104,4	132,7	194
Dimension Ø [mm]:	3/10	5/15	6/18	8/24	10/30	12/36	15/45	20/60	25/75	28/85	35/100
Height [mm]:	12	12	12	12	12	12	21	21	21	21	21

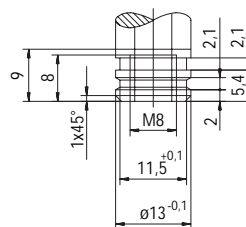
All data measured at 0,6 bar vacuum

Design	Material	Color	Heat-resistant	Durometer	Extra charge	Add to part # when ordering
Standard	NBR	black	-20°C up to + 110°C	65 ±3	no	-
Heat-resistant	Silicon	blue	-55°C up to + 200°C	60 ±5	no	SI (e. g. OV3-10SI)
Food-handling	Silicon	white tempered	-55°C up to + 180°C	60 ±5	yes	L (e. g. OV3-10L)

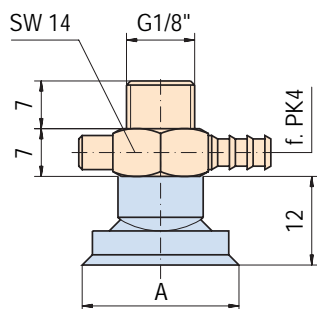
Plug-in-connection for vacuum cups



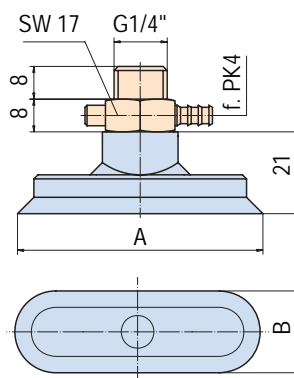
OV3-10 - OV12-36



OV15-45 - OV35-100



SAV1/8



SAV1/4

Subject to change without prior notice

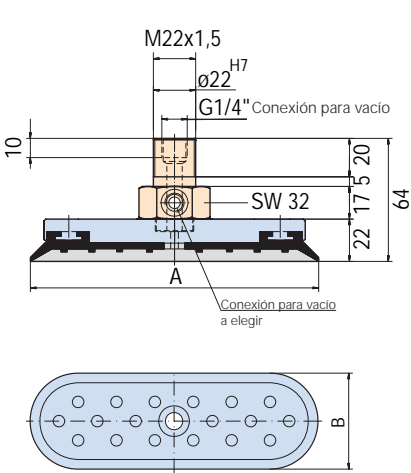
Ventosa ovalada POV/KOV



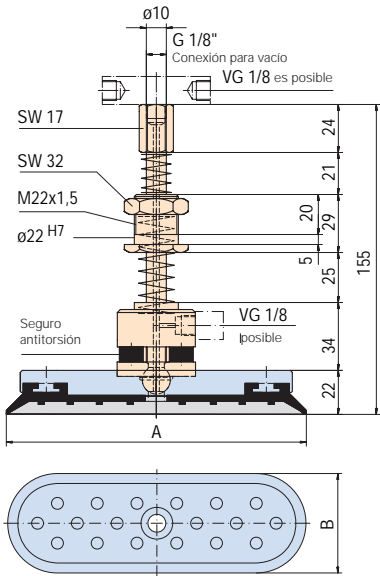
Referencia:	POV 50-150A	POV 60-180A	POV 70-210A	KOV 50-150A	KOV 60-180A	KOV 70-210A
Fuerza de aspiración [N]:	415	600	815	415	600	815
Dimensión A/B [mm]:	50/150	60/180	70/210	50/150	60/180	70/210
Medida A [mm]:	150	180	210	150	180	210
Medida B [mm]:	50	60	70	50	60	70

Todos los datos medidos a 0,6 bar vacío.

Modelo	Material	Color	Resistente a temp. hasta	Dureza - Shore	Sobrepresio	Referencia adicional
Estándar	NBR	negro	-20°C hasta + 110°C	65 ± 3	no	-
Resistente a temp.	Silicona	azul	-55°C hasta + 200°C	60 ± 5	no	SI (p.ej. SM10SI)
Apropiado para alimentación	Silicona	blanco	-55°C hasta + 180°C	60 ± 5	si	L (p.ej. SM10L)



SA22 + POV



SGA22 + KOV

Se reserva el derecho a modificaciones

Torus Vacuum Cups **SFO**

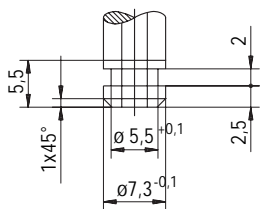


Order no.	SFO 8-25	SFO 15-45	SFO 25-75
Vacuum force [N]:	11	37,6	104
Lifting force at 0,8 bar vacuum [N]:	2,56	4,0	6,3
Dimension [mm]:	8/24	15/45	25/75
Dimension A [mm]:	25	45	75
Dimension B [mm]:	8	15	25
Dimension H max. [mm]:	18,5	28,5	34,5
Dimension H min. [mm]:	14	18	22

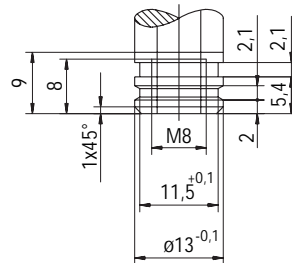
All data measured at 0.6 bar vacuum

Design	Material	Color	Heat-resistant	Durometer	Extra charge	Add to part # when ordering
Standard	NBR	black	-20°C bis + 110°C	65 ±3	no	-
Heat-resistant	Silicon	blue	-55°C bis + 200°C	60 ±5	no	SI (e. g. SFO8-25SI)
Food-handling	Silicon tempered	white	-55°C bis + 180°C	60 ±5	yes	L (e. g. SFO8-25L)

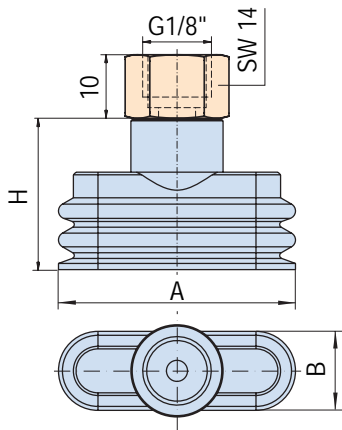
Plug-in-connection for vacuum cups



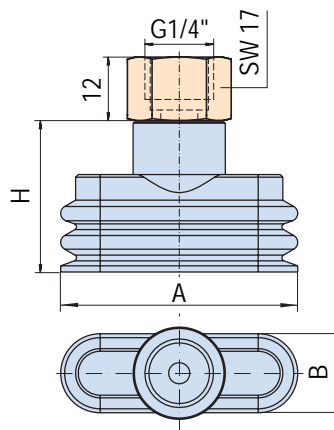
SF08-25



SF015/45 and SF25-75



SI1/8



SI1/4

Subject to change without prior notice

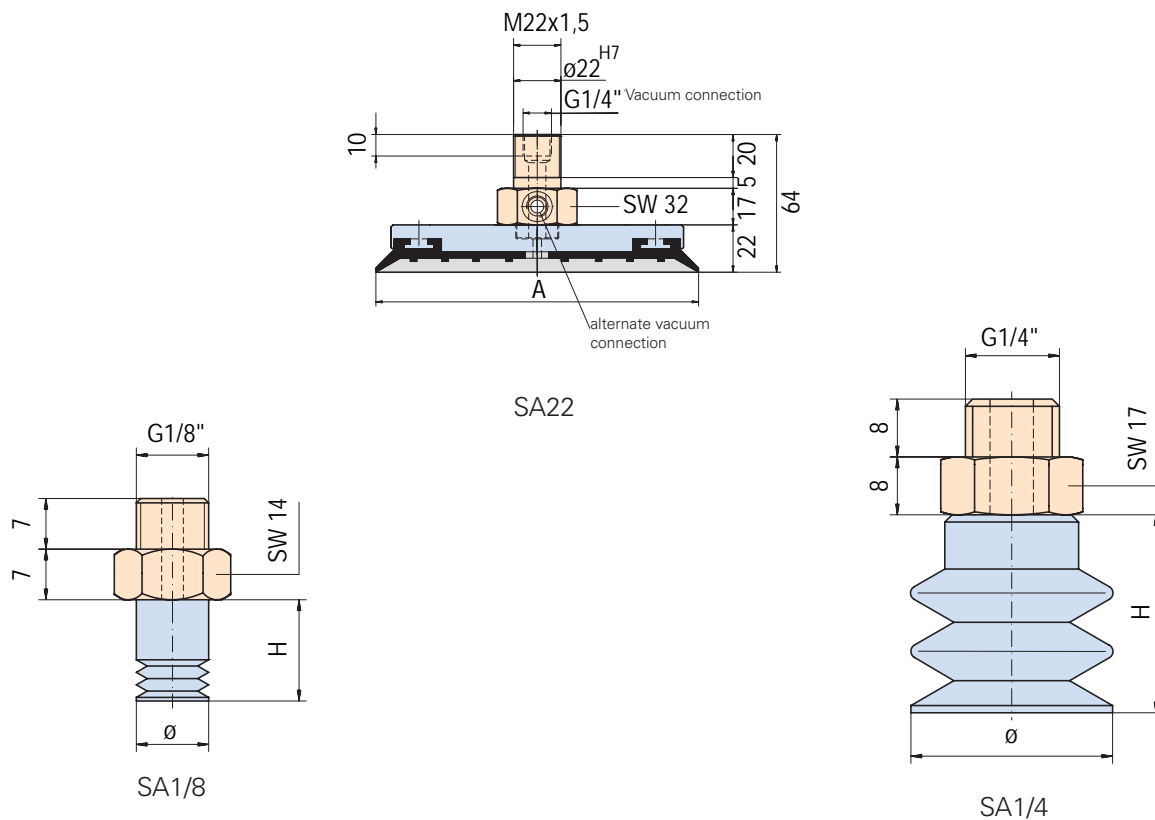
Adapter SA



Special features:

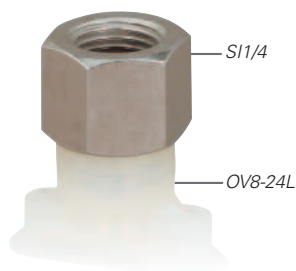
- external thread
- vacuum connection

Order no.:	SA1/4	SA1/8	SA22
Fixing thread:	1/4"	1/8"	M22x1.5



Subject to change without prior notice

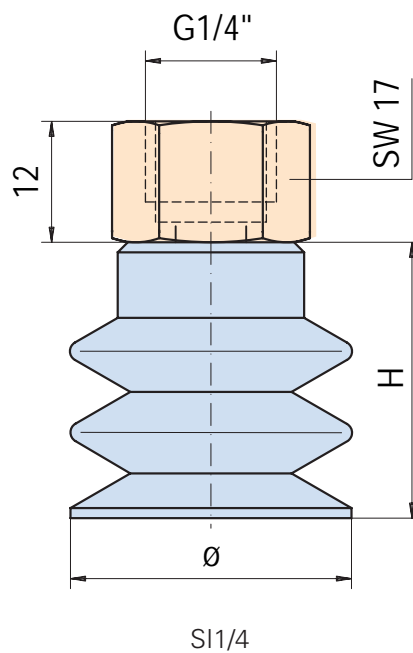
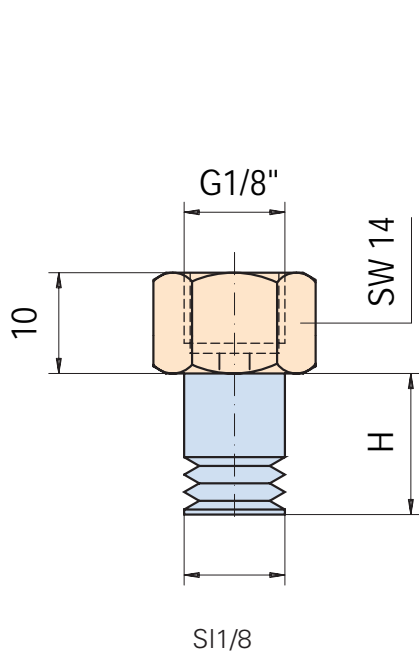
Adapter SI



Special features:

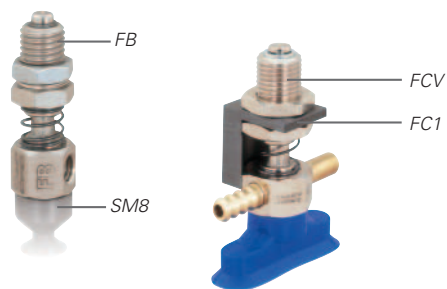
- external thread
- vacuum connection

Order no.:	SI1/8	SI1/4
Fixing thread:	1/8"	1/4"



Subject to change without prior notice

Adapter F



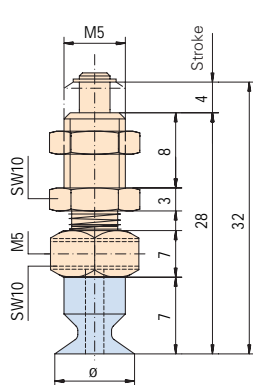
Special features:

- external thread
- spring loaded
- vacuum connection
- antirotation locking bracket available

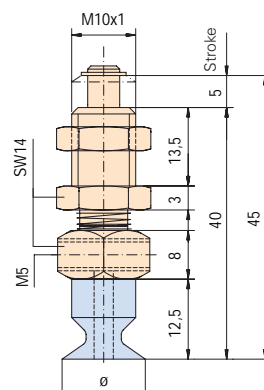
Order no.:	FA	FB	FC	FD	FE
Fixing thread:	M5	M8x1	M10x1	M12x1	M12x1

Antirootation locking bracket

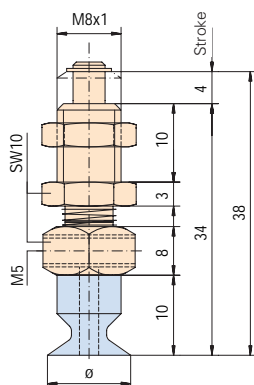
Order no.:	FA1	FB1	FC1	FD1
to match:	FA	FB	FC	FD/FE



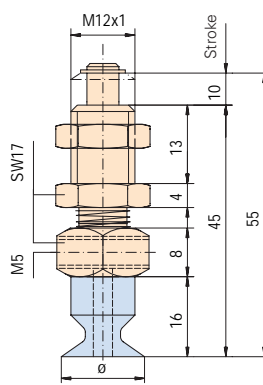
FA



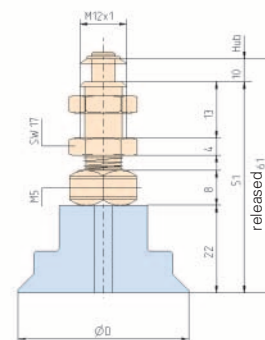
FC



FB



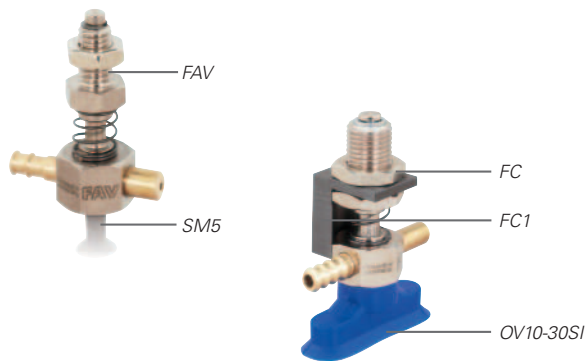
FD



FE

Subject to change without prior notice

Adapter F



Special features:

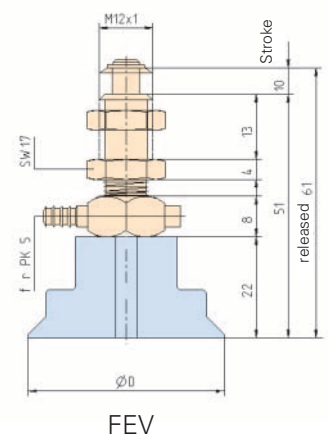
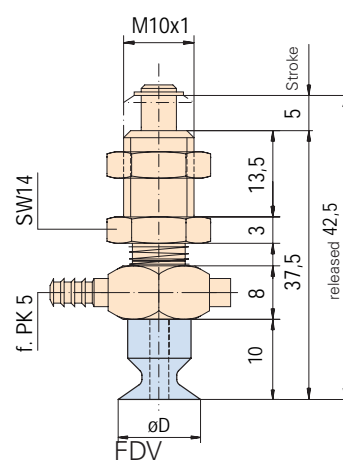
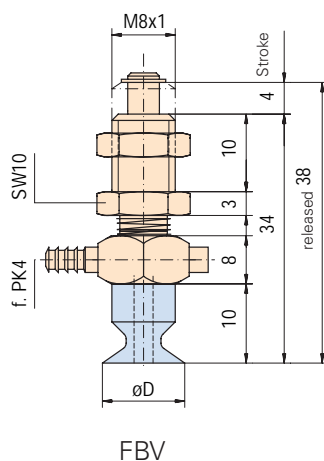
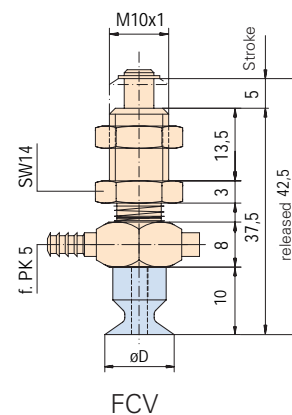
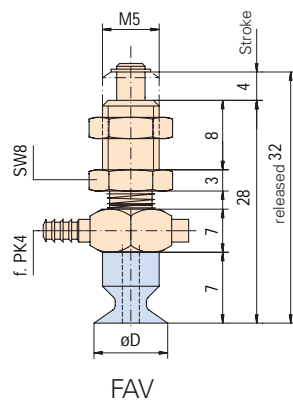
- external thread
- spring loaded
- integrated vacuum connection
- vacuum (bar) -0.8
- compressed air connection
- antirotation locking bracket available

Order no.:	FAV	FBV	FCV	FDV	FEV
Fixing thread:	M5	M8x1	M10x1	M12x1	M12x1
Air consumption per minute [l norm]:	13	13	13	13	13

All data measured at 6 bar.

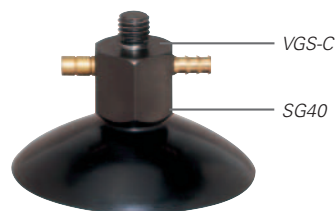
Antirootation locking bracket

Order no.:	FA1	FB1	FC1	FD1
to match:	FAV	FBV	FCV	FDV/FEV



Subject to change without prior notice

Adapter VGS/SAV

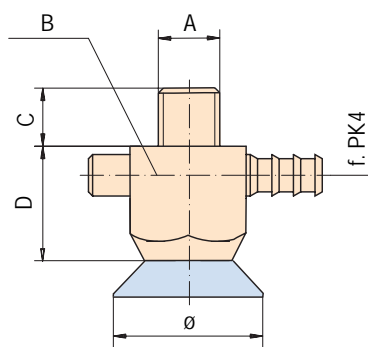


Special features:

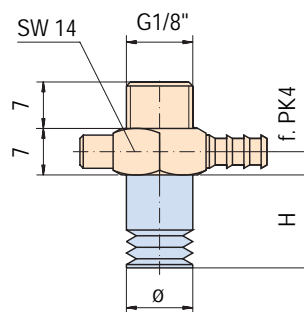
- external thread
- integrated vacuum generator
- vacuum (bar) -0.8
- compressed air connection

Order no.:	VGS-M	VGS-A	VGS-B	VGS-C	VGS-D	SAV22	SAV1/8	SAV1/4
Fixing thread Mass A:	M8	M8	M8	M8	M10	M22x1,5	1/8"	1/4"
Vacuum [bar]:	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8
Air consumption per minute [l norm]:	13	13	13	13	13	63	13	63
Dimension B:	SW13	SW13	SW14	SW19	SW27	-	-	-
Dimension C [mm]:	8	8	8	8	11	-	-	-
Dimension D [mm]:	23	16	18	18	30	-	-	-

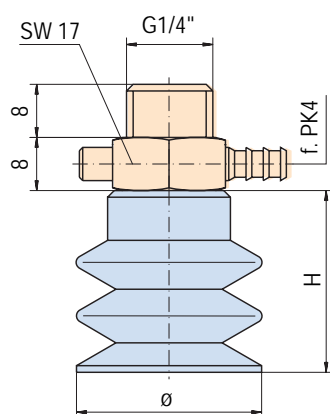
All data measured at 6 bar.



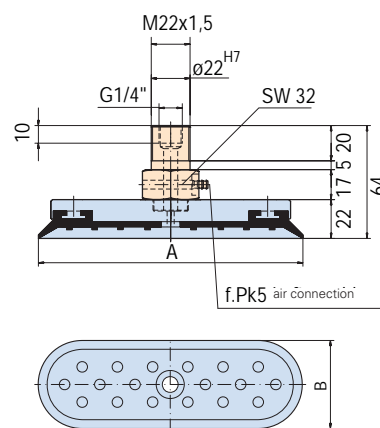
VGS



SAV1/8



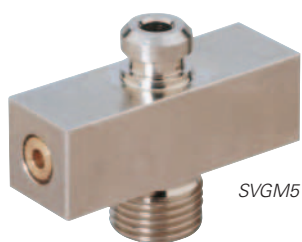
SAV1/4



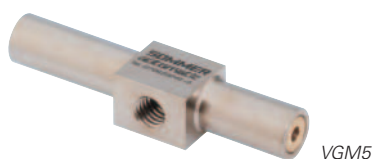
SAV22

Subject to change without prior notice

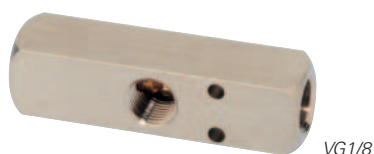
Adapter SV/VG



SVGM5



VGM5

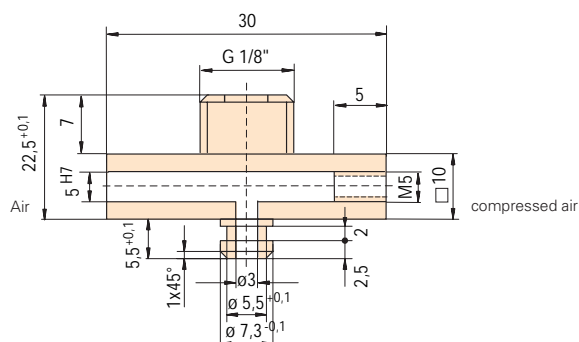


VG1/8

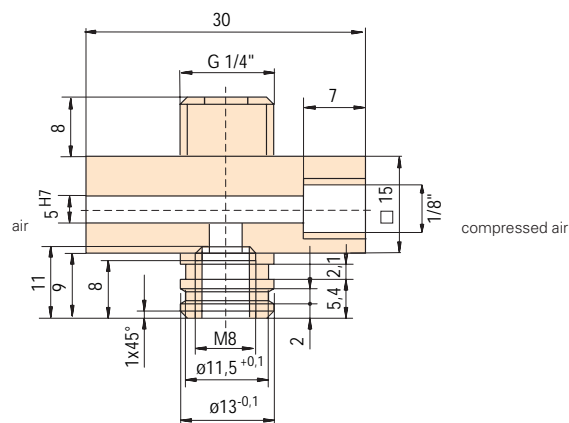
Special features:

- integrated vacuum connection
- vacuum (bar) -0.8
- compressed air connection

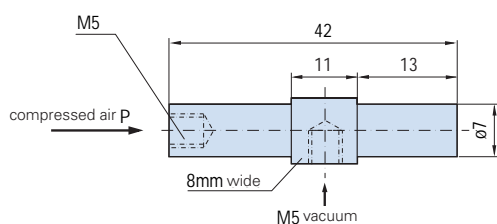
Order no.:	SVG1/8	SVGM5	VG1/8	VGM5
Vacuum [bar]:	-0.8	-0.8	-0.8	-0.8
Air consumption per minute [l norm.]:	63	63	63	63
Connecting thread:	1/8"	M5	1/8"	M5
Fixing thread:	G1/4"	G1/8"	-	-



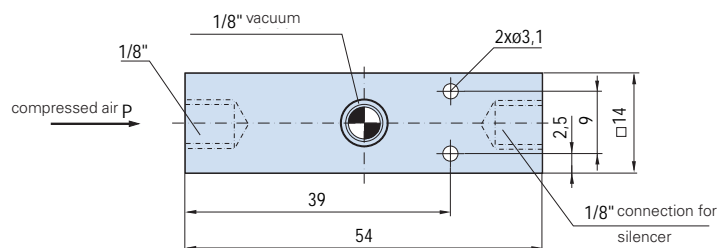
SVGM5



SVG1/8



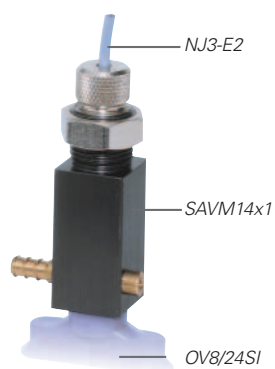
VGM5



VG1/8

Subject to change without prior notice

Adapter SAV

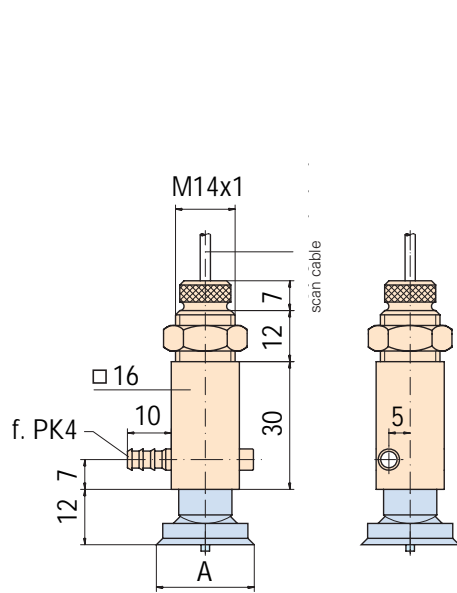


Special features:

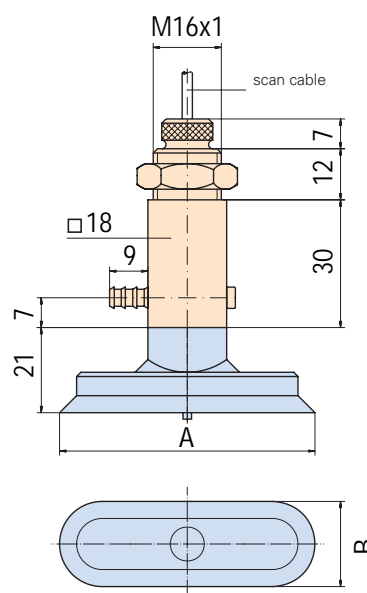
- external thread
- integrated pin for workpiece identification
- integrated vacuum generator
- vacuum (bar) -0.8
- compressed air connection

Order no.:	SAV M14x1	SAV M16x1
Vacuum [bar]:	-0,8	-0,8
Air consumption per minute [l norm.]:	13	13
Fixing thread:	M14x1	M16x1

All data measured at 6 bar.



SAVM14x1



SAVM16x1

Subject to change without prior notice

Adapter SAM

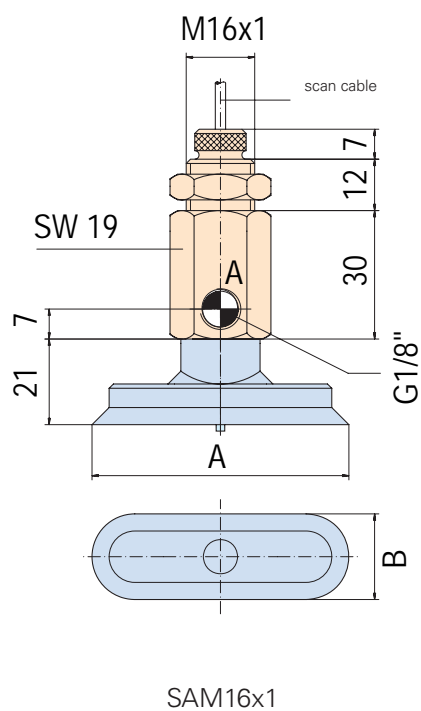
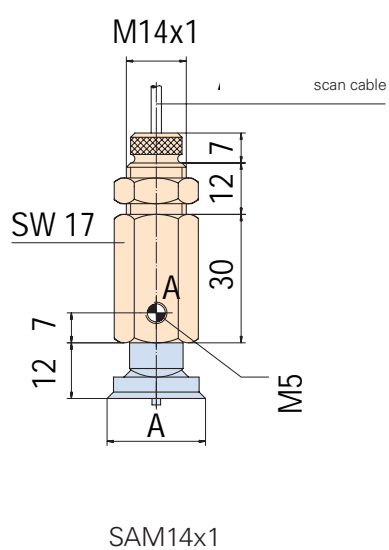


Special features:

- external thread
- integrated pin for workpiece identification
- vacuum connection

Adapter

Order no.:	SAM 14x1	SAM 16x1
Fixing thread:	M14x1	M16x1



Subject to change without prior notice

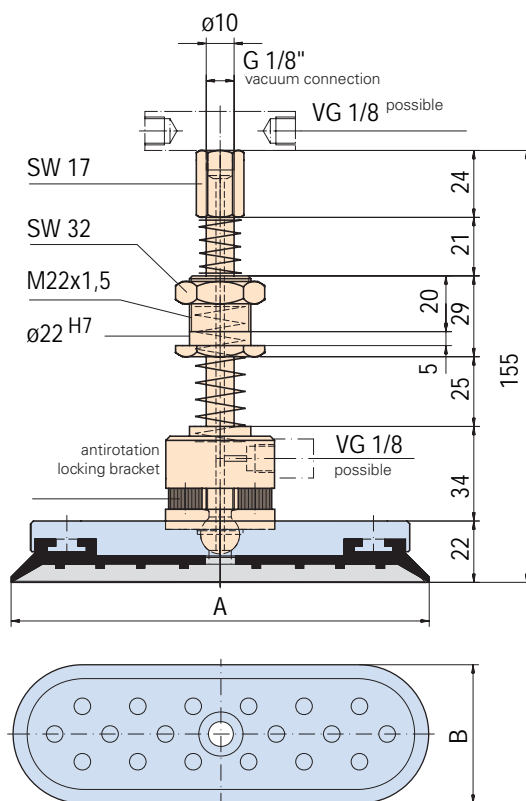
Adapter SGA



Special features:

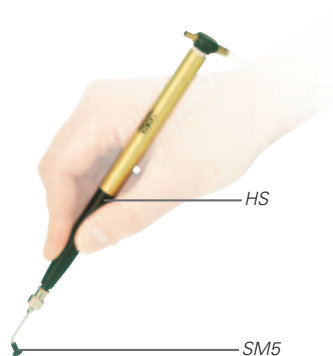
- internal thread
- spring loaded compensation
- locking system
- ball joint
- vacuum connection

Order no.:	SGA22
Fixing thread:	M22x1.5



Subject to change without prior notice

Hand-held Vacuum



Special features:

- integrated vacuum generator, vacuum can be applied or removed by hand
- possible to combine with suction cup of the SM series

Order no.: **HS10**

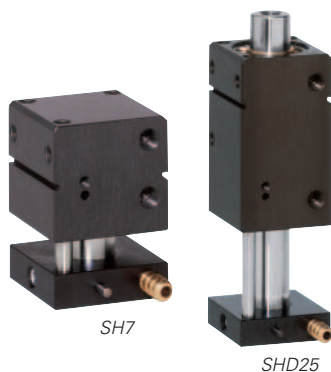
Air consumption per minute [l norm.]: 13

All data measured at 6 bar.

Order no.:	SM1	SM2	SM3	SM4	SM5	SM6
Vacuum force [N]:	0.05	0.19	0.42	0.75	1.18	1.70
Dimension Ø [mm]:	1	2	3	4	5	6

All data measured at 0.6 bar vacuum.

Compact Linear Cylinder **SH**



Remark:

- SH and SHD cylinder can be combined with suction cups of the SG series
- fixing screws for the cups are included in the delivery of the cylinder

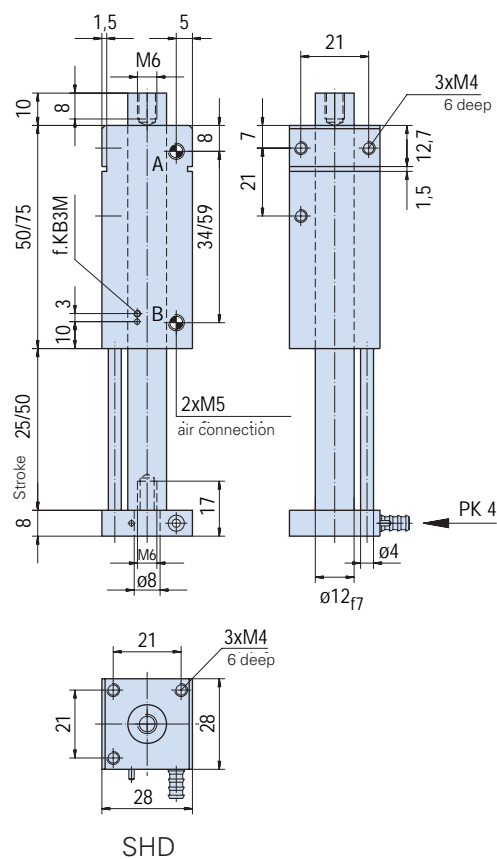
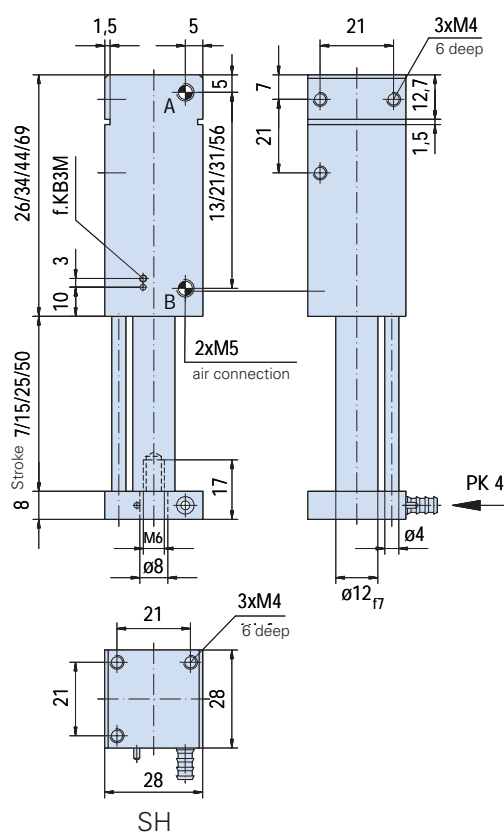
Special features:

- integrated vacuum generator
- can be combined with suction cups of the SG series

Order no.:	SH7	SH15	SH25	SH50	SHD25	SHD50
Stroke [mm]:	7	15	25	50	25	50
Retract force [N]:	170	170	170	170	100	100
Extension force [N]:	100	100	100	100	100	100
Air volume per cycle [cm ³]:	4	9	15	30	12	25
Min./max. operating temperature [°C]*:	5/80	5/80	5/80	5/80	5/80	5/80
Weight [kg]:	0.090	0.100	0.130	0.180	0.190	0.270

All data measured at 6 bar.

* High-temperature-resistant model (up to 150°C) add T to part number



Subject to change without prior notice

Vacuum Generator VIP

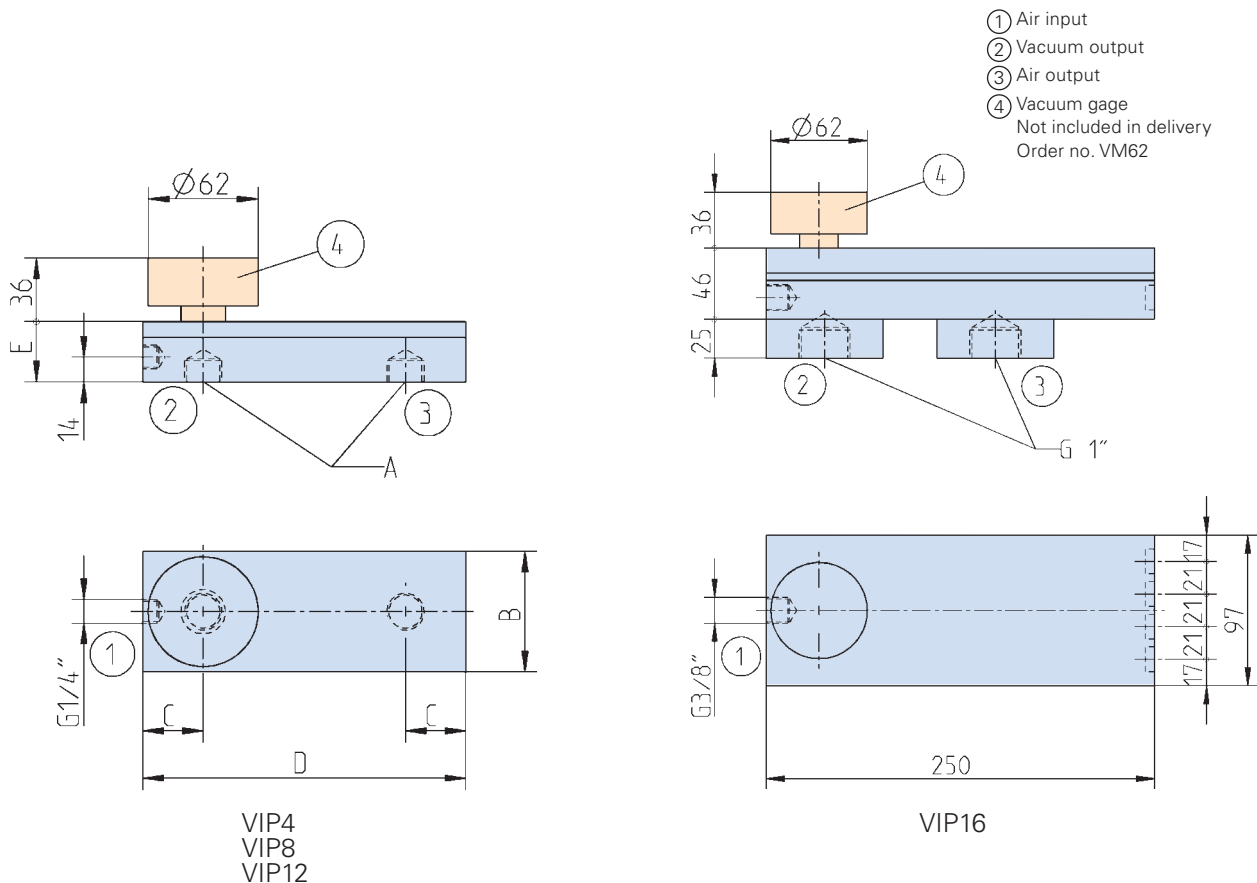


Remark:

Gage order no. VM62, suitable for VIP4 up to VIP16 is not included in delivery.

Order no.:	VIP4	VIP8	VIP12	VIP16
Vacuum output at 4 bar [%]:	90	90	90	90
Air consumption per minute [l norm.]:	95	190	380	250
Vacuum volume [l norm./min.]:	260	400	630	750
Min./max. operating pressure [bar]:	4/7	4/7	4/7	4/7
Sound pressure level without load [dB]:	65	65	65	65
Sound pressure level under load [dB]:	50	50	50	50
Min./max. operating temperature [°C]:	-20/+ 80	-20/+ 80	-20/+ 80	-20/+ 80
Dimension A:	G1/2"	G1/2"	G1/2"	G1"
Dimension B [mm]:	68	68	68	97
Dimension C [mm]:	30	34	29	100
Dimension D [mm]:	182	182	182	250
Dimension E [mm]:	34	34	52	52
Weight [kg]:	0.60	0.80	0.90	2.10

All data measured at 4 bar.



Subject to change without prior notice



➤ Grippers <i>pneumatic</i>	01
➤ Grippers <i>electrical</i>	02
➤ Grippers <i>hydraulic</i>	03
➤ Grippers <i>Special</i>	04
➤ Grip & Rotate Modules <i>pneumatic</i>	05
➤ Separators	06
➤ Swivel Units <i>pneumatic</i>	07
➤ Swivel Units <i>electrical</i>	08
➤ Swivel Units <i>hydraulic</i>	09
➤ Rotation Jaws <i>pneumatic</i>	10
➤ Axial Compensation Modules	11
➤ Tool Changers	12
➤ Robotics Accessories	13
➤ Linear Cylinders	14
➤ Shock Absorber	15
➤ Air Vane Motors	16
➤ Rotary Cylinders	17
➤ Vacuum Components	18
➤ Accessorios	19