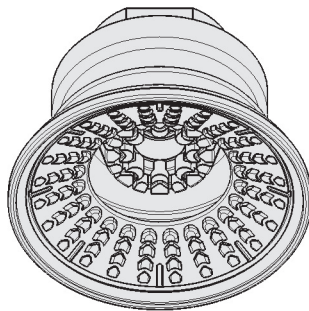


Bellows Suction Cups SAB HT1 (1.5 Folds)

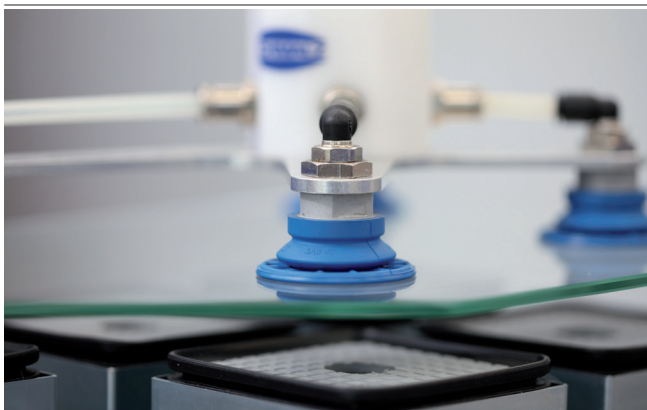
Suction area (Ø) from 22 mm to 125 mm



Bellows Suction Cups SAB HT1 (1.5 Folds)



System Design Bellows Suction Cups SAB HT1 (1.5 Folds)



Bellows suction cups SAB HT1 being used for handling glass

Suitability for Industry Specific Applications

Applications

- Round bellows suction cup with 1.5 folds for dynamic handling of glass workpieces
- Handling of flat glass and formed glass pieces
- Use in automated production lines for automotive windscreens or side windows, even after the bending process at temperatures up to 170° C
- Exact positioning in production processes without displacement
- High lateral forces in use with separation powder on flat glass or on damp surfaces

Design

- Robust and hard-wearing bellows suction cup made of HT1 with 1.5 folds, with special slot and inner support
- Suction cup is vulcanized to the connection nipple (for very high strength)
- Special structure of the suction surface with high performance profile

Our Highlights...

- Non-marking material HT1
- High temperature resistance
- Large, structured inner support

Your Benefits...

- Minimal chemical influence on the workpiece surface
- Handling of hot workpieces without modification of the material properties
- Capable of handling high lateral forces, especially in use with separating powder and wet workpieces



Bellows Suction Cups SAB HT1 (1.5 Folds)

Suction area (Ø) from 22 mm to 125 mm



Designation Code Bellows Suction Cups SAB HT1 (1.5 Folds)

SAB	-	30	-	HT1-60	-	G1/4-AG
1		2		3		4

1 – Abbreviated designation

Code	Version
SAB	1.5 folds

2 – Suction area

Code	Diameter in mm
22...125	ø 22 to 125

3 – Material

Code	Material
HT1-60	High temperature material

4 – Connection

Code	Connection
G1/4-AG	G1/4-AG (AG = male (M))
G1/4-IG	G1/4-IG (IG = female (F))
G3/8-AG	G3/8-AG
G3/8-IG	G3/8-IG
RA	Rectangular adapter

Suction cup SAB HT1, available in various diameters, is delivered with connection nipple vulcanized to elastomer part.



Ordering Data Bellows Suction Cups SAB HT1 (1.5 Folds)

Type	Vacuum connection:				
	G1/4-M	G1/4-F	G3/8-M	G3/8-F	Rectangular adapter
SAB 22	10.01.06.02753	10.01.06.02722	10.01.06.03015	10.01.06.03006	-
SAB 30	10.01.06.03048	10.01.06.02723	10.01.06.03049	10.01.06.03050	10.01.06.02755
SAB 40	10.01.06.03051	10.01.06.02724	10.01.06.03052	10.01.06.03053	10.01.06.02757
SAB 50	10.01.06.03057	10.01.06.02760	10.01.06.03058	10.01.06.02725	10.01.06.02759
SAB 60	10.01.06.03059	10.01.06.02779	10.01.06.03060	10.01.06.02726	10.01.06.02762
SAB 80	10.01.06.03061	10.01.06.02778	10.01.06.03062	10.01.06.02727	10.01.06.02764
SAB 100	10.01.06.02927	10.01.06.02961	10.01.06.03063	10.01.06.02728	10.01.06.02766
SAB 125	10.01.06.03065	10.01.06.03064	10.01.06.03066	10.01.06.02729	-



Technical Data Bellows Suction Cups SAB HT1 (1.5 Folds)

Type	Suction force [N]*	Pull-off force [N]	Lateral force [N]**	Volume [cm³]	Workpiece radius min. (convex) [mm]	Hose diameter (recom.) d [mm]***
SAB 22	16	24	18	1.5	20	4
SAB 30	22	33	30	5.9	40	4
SAB 40	38	59	36	7.0	40	4
SAB 50	53	87	55	11.5	50	4
SAB 60	82	130	82	24.0	65	6
SAB 80	135	221	145	56.5	75	6
SAB 100	190	357	220	92.5	90	6
SAB 125	250	558	352	191.0	140	9

*The specified suction forces are theoretical values at a vacuum of -0.6 bar and with a smooth, dry workpiece surface - they do not include a safety factor

**The specified lateral forces are values measured at a vacuum of -0.6 bar with a dry or oily, smooth, flat workpiece surface. Depending on the workpiece surface and its quality, the actual values may deviate from these values.

***The recommended hose diameter refers to a hose length of approx. 2 m

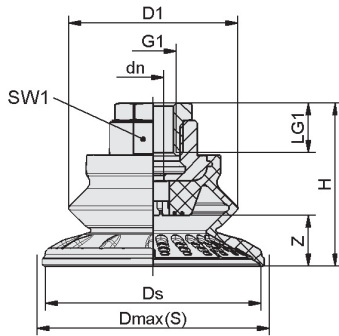


Bellows Suction Cups SAB HT1 (1.5 Folds)

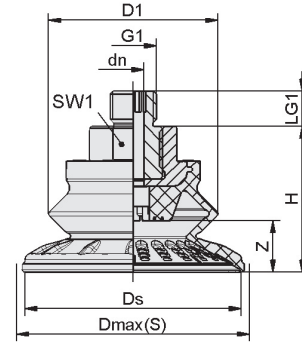
Suction area (\varnothing) from 22 mm to 125 mm



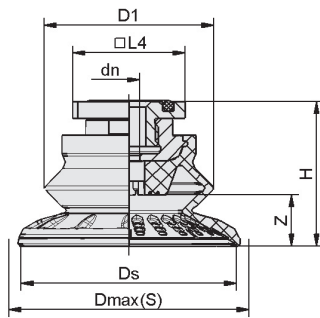
Design Data Bellows Suction Cups SAB HT1 (1.5 Folds)



SAB HT1 IG



SAB HT1 AG



SAB HT1 RA

Type*	D1 [mm]	dn [mm]	Dmax(S) [mm]**	Ds [mm]	G1	H [mm]	LG1 [mm]	L4 [mm]	SW1 [mm]	Z (Stroke) [mm]
SAB 22 HT1-60 G1/4-AG	22	3.5	24	21	G1/4"-M	25.0	10.0	-	16	5.8
SAB 22 HT1-60 G1/4-IG	22	3.5	24	21	G1/4"-F	25.0	12.0	-	16	5.8
SAB 22 HT1-60 G3/8-AG	22	3.5	24	21	G3/8"-M	25.0	10.0	-	16	5.8
SAB 22 HT1-60 G3/8-IG	22	3.5	24	21	G3/8"-F	41.0	9.5	-	22	5.8
SAB 30 HT1-60 G1/4-AG	32	4.0	34	31	G1/4"-M	28.0	10.0	-	17	9.0
SAB 30 HT1-60 G1/4-IG	32	4.0	34	31	G1/4"-F	28.0	12.0	-	17	9.0
SAB 30 HT1-60 G3/8-AG	32	4.0	34	31	G3/8"-M	28.0	10.0	-	17	9.0
SAB 30 HT1-60 G3/8-IG	32	4.0	34	31	G3/8"-F	44.0	9.5	-	22	9.0
SAB 30 HT1-60 RA	32	4.0	34	31	-	31.2	-	31.8	-	9.0
SAB 40 HT1-60 G1/4-AG	32	4.0	45	41	G1/4"-M	28.8	10.0	-	17	10.0
SAB 40 HT1-60 G1/4-IG	32	4.0	45	41	G1/4"-F	28.8	12.0	-	17	10.0
SAB 40 HT1-60 G3/8-AG	32	4.0	45	41	G3/8"-M	28.8	10.0	-	17	10.0
SAB 40 HT1-60 G3/8-IG	32	4.0	45	41	G3/8"-F	44.8	9.5	-	22	10.0
SAB 40 HT1-60 RA	32	4.0	45	41	-	31.2	-	31.8	-	10.0
SAB 50 HT1-60 G1/4-AG	40	6.0	56	51	G1/4"-M	36.9	10.0	-	22	11.5
SAB 50 HT1-60 G1/4-IG	40	6.0	56	51	G1/4"-F	42.0	20.0	-	22	11.5



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Bellows Suction Cups SAB HT1 (1.5 Folds)

Suction area (Ø) from 22 mm to 125 mm



Design Data Bellows Suction Cups SAB HT1 (1.5 Folds)

Type*	D1 [mm]	dn [mm]	Dmax(S) [mm]**	Ds [mm]	G1	H [mm]	LG1 [mm]	L4 [mm]	SW1 [mm]	Z (Stroke) [mm]
SAB 50 HT1-60 G3/8-AG	40	6.0	56	51	G3/8"-M	36.9	10.0	-	22	11.5
SAB 50 HT1-60 G3/8-IG	40	6.0	56	51	G3/8"-F	36.9	15.0	-	22	11.5
SAB 50 HT1-60 RA	40	6.0	56	51	-	36.6	-	31.8	-	11.5
SAB 60 HT1-60 G1/4-AG	48	6.0	67	62	G1/4"-M	41.3	10.0	-	22	14.5
SAB 60 HT1-60 G1/4-IG	48	6.0	67	62	G1/4"-F	46.3	20.0	-	22	14.5
SAB 60 HT1-60 G3/8-AG	48	6.0	67	62	G3/8"-M	41.3	10.0	-	22	14.5
SAB 60 HT1-60 G3/8-IG	48	6.0	67	62	G3/8"-F	41.3	15.0	-	22	14.5
SAB 60 HT1-60 RA	48	6.0	67	62	-	41.0	-	31.8	-	14.5
SAB 80 HT1-60 G1/4-AG	64	6.0	89	82	G1/4"-M	49.9	10.0	-	22	22.1
SAB 80 HT1-60 G1/4-IG	64	6.0	89	82	G1/4"-F	54.9	20.0	-	22	22.1
SAB 80 HT1-60 G3/8-AG	64	6.0	89	82	G3/8"-M	49.9	10.0	-	22	22.1
SAB 80 HT1-60 G3/8-IG	64	6.0	89	82	G3/8"-F	49.9	15.0	-	22	22.1
SAB 80 HT1-60 RA	64	6.0	89	82	-	49.6	-	31.8	-	22.1
SAB 100 HT1-60 G1/4-AG	77	6.0	110	101	G1/4"-M	56.6	10.0	-	22	25.8
SAB 100 HT1-60 G1/4-IG	77	6.0	110	101	G1/4"-F	61.8	20.0	-	22	25.8
SAB 100 HT1-60 G3/8-AG	77	6.0	110	101	G3/8"-M	56.6	10.0	-	22	25.8
SAB 100 HT1-60 G3/8-IG	77	6.0	110	101	G3/8"-F	56.6	15.0	-	22	25.8
SAB 100 HT1-60 RA	77	6.0	110	101	-	56.3	-	31.8	-	25.8
SAB 125 HT1-60 G1/4-AG	94	6.0	135	126	G1/4"-M	67.8	10.0	-	22	32.0
SAB 125 HT1-60 G1/4-IG	94	6.0	135	126	G1/4"-F	72.8	20.0	-	22	32.0
SAB 125 HT1-60 G3/8-AG	94	6.0	135	126	G3/8"-M	67.8	10.0	-	22	32.0
SAB 125 HT1-60 G3/8-IG	94	9.0	135	126	G3/8"-F	67.8	15.0	-	22	32.0

*Acceptable dimensional tolerances for rubber parts concerning to DIN ISO 3302-1 M3

**External dimension of the suction cup when it is pressed against the workpiece by the vacuum