

Bellows Suction Cups SPOB1f (Oval, 1.5 Folds)

Suction area (LxW) from 35 x 15 mm to 80 x 35 mm



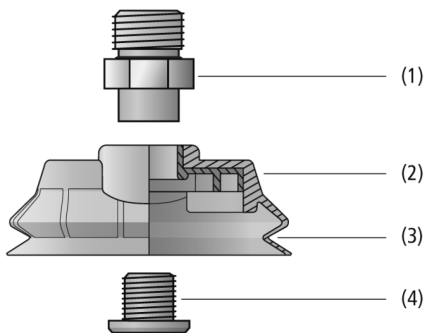
Suitability for industry specific applications

Application

- Oval bellows suction cup with 1.5 folds for reliable handling of small, film packaging products such as candy bars, popsicles or bulk materials
- Use in packaging lines for processing bulk material packaging in the case-packing process step
- Handling of small flow-wrap packaging with different fill levels
- Stability and high suction force in rapid packaging processes thanks to its oval shape



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System design Bellows Suction Cups SPOB1f (Oval, 1.5 Folds)



Bellows suction cups SPOB1f when handling small flow-wrap packaging

Design

- Oval bellows suction cup with 1.5 folds (3) with a very soft and flexible sealing lip
- Integrated anti-rotation guard and easy-to-use function for positioning the suction cup on the workpiece (2)
- Large shaft diameter for high flow rates
- Mounting using two-piece Schmalz connection element (1) and (4)
- All connection elements SC with male threads come equipped with an integrated sealing ring

Product highlights

- FDA compliant silicone SI allows direct food contact
- Very flexible suction bellows and sealing lip optimized for pouch packaging
- Anti-rotation guard guarantees simple and reliable alignment of the suction cup
- Large nominal diameter enables high flow rates for short cycle times

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Designation code Bellows Suction Cups SPOB1f (Oval, 1.5 Folds)

SPOB1f	–	60x25	–	SI-55	–	G1/4-AG
1		2		3		4

1 – Abbreviated designation

Code	Version
SPOB1f	1.5 folds, oval

2 – Suction area

Code	LxW in mm
35x15...80x35	35x15 to 80x35

3 – Material

Code	Material
SI-55	Silicone

4 – Connection

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

The suction cup SPOB1f (elastomer part + connection element) with integrated bag stabilizer is delivered assembled. The assembly consists of:

- Suction cup of the type SPOB1f - elastomer part, available in a range of different diameters
- Connection element of the type SC - available with a range of different threads

Available spare parts: suction cup SPOB1f, Schmalz-Connector

Ordering data Bellows Suction Cups SPOB1f (Oval, 1.5 Folds)

Type	Part no.
SPOB1f 35x15 SI-55 G1/8-AG	10.01.06.03736
SPOB1f 35x15 SI-55 G1/8-IG	10.01.06.03735
SPOB1f 60x25 SI-55 G1/4-AG	10.01.06.03738
SPOB1f 60x25 SI-55 G1/4-IG	10.01.06.03737
SPOB1f 80x35 SI-55 G1/4-AG	10.01.06.03740
SPOB1f 80x35 SI-55 G1/4-IG	10.01.06.03739

Ordering data Spare parts Bellows Suction Cups SPOB1f (Oval, 1.5 Folds)

Type	Spare parts	Part no.
SPOB1f 35x15	Bellows suction cup (oval)	SPOB1f 35x15 SI-55 SC040-AR 10.01.06.03625
SPOB1f 60x25	Bellows suction cup (oval)	SPOB1f 60x25 SI-55 SC050-AR 10.01.06.03626
SPOB1f 80x35	Bellows suction cup (oval)	SPOB1f 80x35 SI-55 SC050-AR 10.01.06.03627

Type	Spare parts	Part no.
SPOB1f 35x15 SI-55 G1/8-IG	Schmalz-Connector	SC 040-AR G1/8-IG MOD 10.01.06.02496
SPOB1f 35x15 SI-55 G1/8-AG	Schmalz-Connector	SC 040-AR G1/8-AG MOD 10.01.06.02495
SPOB1f 60x25 SI-55 G1/4-IG	Schmalz-Connector	SC 050-AR G1/4-IG MOD 10.01.06.03742
SPOB1f 60x25 SI-55 G1/4-AG	Schmalz-Connector	SC 050-AR G1/4-AG MOD 10.01.06.03741
SPOB1f 80x35 SI-55 G1/4-IG	Schmalz-Connector	SC 050-AR G1/4-IG MOD 10.01.06.03742
SPOB1f 80x35 SI-55 G1/4-AG	Schmalz-Connector	SC 050-AR G1/4-AG MOD 10.01.06.03741

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Technical data Bellows Suction Cups SPOB1f (Oval, 1.5 Folds)

Type		Suction force at -200 mbar [N]	Suction force at -400 mbar [N]	Suction force (-600 mbar) [N]*	Min. workpiece width [mm]	Volume [cm ³]	Hose inner diameter (recom.) d [mm]**
SPOB1f	35x15	4.2	8.4	12.60	10	2.2	6
SPOB1f	60x25	12.2	24.4	36.60	20	11.6	8
SPOB1f	80x35	24.9	49.8	74.70	30	26.2	8

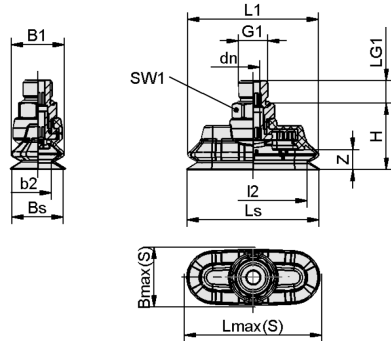
*The specified suction forces are theoretical values at a vacuum of -0.6 bar and with a smooth, dry workpiece surface - they do not include a safety factor

**The recommended hose diameter is based on a hose length of approx. 2 m

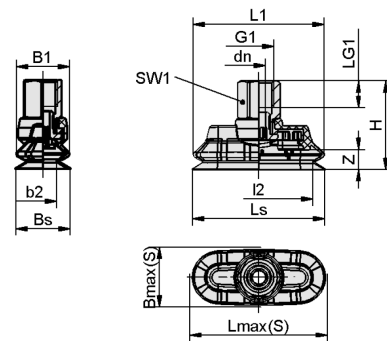
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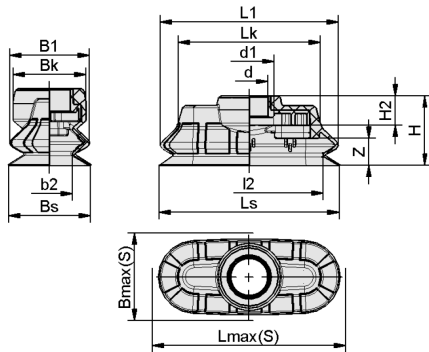
Design data Bellows Suction Cups SPOB1f (Oval, 1.5 Folds)



SPOB1f AG



SPOB1f IG



SPOB1f

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Type*	B1 [mm]	b2 [mm]	Bmax(S) [mm]**	Bs [mm]	dn [mm]	G1	H [mm]	L1 [mm]	I2 [mm]	LG1 [mm]	Ls [mm]	Lmax.(S) [mm]***	SW1 [mm]	Z (Stroke) [mm]
SPOB1f 35x15 SI-55 G1/8- AG	15	8	17	15	4.1	G1/8"-M	19.0	35	28	8	35	37	14	4
SPOB1f 35x15 SI-55 G1/8- IG	15	8	17	15	4.1	G1/8"-F	27.0	35	28	8	35	37	14	4
SPOB1f 60x25 SI-55 G1/4- AG	25	14	27	25	6.1	G1/4"-M	30.2	60	49	10	60	62	17	9
SPOB1f 60x25 SI-55 G1/4- IG	25	14	27	25	6.1	G1/4"-F	40.2	60	49	12	60	62	17	9
SPOB1f 80x35 SI-55 G1/4- AG	35	21	38	35	6.1	G1/4"-M	34.2	80	66	10	80	83	17	11
SPOB1f 80x35 SI-55 G1/4- IG	35	21	38	35	6.1	G1/4"-F	44.2	80	66	12	80	83	17	11

*Acceptable dimensional tolerances for rubber parts concerning to DIN ISO 3302-1 E3

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

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

Type*	b2 [mm]	B1 [mm]	Bk [mm]	Bmax(S) [mm]**	Bs [mm]	d [mm]	d1 [mm]	H [mm]	H2 [mm]	I2 [mm]	L1 [mm]	Lk [mm]	Ls [mm]	Lmax.(S) [mm]***	Z (Stroke) [mm]
SPOB1f 35x15 SI-55 SC040-AR	8.0	15	14	17	14.6	8.3	11.0	13	5.0	28.0	35	28.5	34.6	37	4
SPOB1f 60x25 SI-55 SC050-AR	13.8	25	22	27	24.5	12.4	17.3	23	6.9	48.8	60	46.9	59.5	62	9
SPOB1f 80x35 SI-55 SC050-AR	21.0	35	24	38	34.5	12.4	17.3	27	6.9	66.0	80	61.1	79.5	83	11

*Acceptable dimensional tolerances for rubber parts concerning to DIN ISO 3302-1 E3

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

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