

Suction Plates SPLO

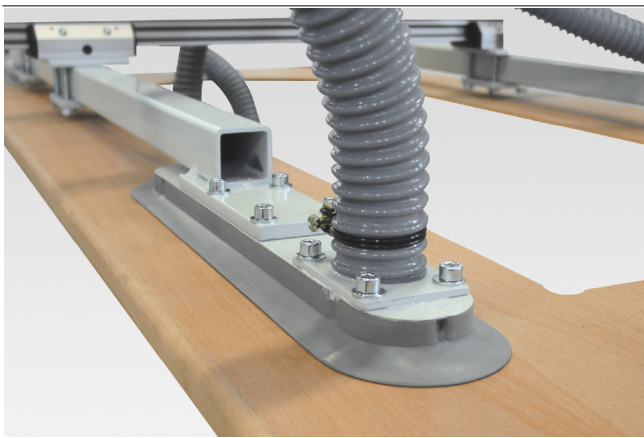
Suction area (LxW) from 60 x 20 mm to 370 x 80 mm



Suction Plates SPLO



System design Suction Plates SPLO



Suction plates SPLO being used for handling wooden doors

Suitability for industry specific applications

Application

- Oval suction plate for handling of elongated, narrow workpieces such as sections or door and window frames
- Considerably higher suction force than round, flat suction cups with long, narrow workpieces
- SPLO 100x32-TV and SPLO 300x100-TV available with touch valve to detect presence of workpieces
- SPLO 100x30 to SPLO 300x100 with long sealing lip for handling very curved workpieces

Design

- Robust and wear-resistant suction plate with single sealing lip
- Sealing lip vulcanized to support plate
- SPLO 100x32-TV and SPLO 300x100-TV with touch valve
- Sealing lip made of NBR for minimum marking of workpieces

Product highlights

- Suction plate in oval design ideal for handling long and curved workpieces (e.g. profiles)
- Versatile supporting plate made of steel or aluminum with vulcanized sealing lip
- Sealing lip made of NBR prevents marks on sensitive surfaces
- Wide range of sizes for different workpieces

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Designation code Suction Plates SPLO

SPLO	–	60x20	–	NBR-55	–	G1/8-IG	–	
1		2		3		4		5

1 – Abbreviated designation

Code	Version
SPLO	Flat, oval

2 – Suction area

Code	LxW in mm
60x20...370x80	60x20 to 370x80

3 – Material

Code	Material
NBR-55	Nitrile caoutchouc

4 – Connection

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

5 – Product addition

Code	Type
TV	Touch valve

Suction plate SPLO, available in various diameters and optionally with touch valve, is delivered with support plate vulcanized to elastomer part.

Ordering data Suction Plates SPLO

Type*	Part no.
SPLO 60x20 NBR-55 G1/8-IG	10.01.05.00001
SPLO 100x30 NBR-55	10.01.05.00182
SPLO 100x32 NBR-55 G1/4-IG	10.01.05.00002
SPLO 100x32 NBR-55 TV	10.01.05.00003
SPLO 150x55 NBR-55	10.01.05.00046
SPLO 200x30 NBR-55	10.01.05.00183
SPLO 200x55 NBR-55	10.01.05.00004
SPLO 250x55 NBR-55	10.01.05.00186
SPLO 300x30 NBR-55	10.01.05.00184
SPLO 300x55 NBR-55	10.01.05.00187
SPLO 300x100 NBR-55	10.01.05.00050
SPLO 300x100 NBR-55 TV	10.01.05.00188
SPLO 370x80 NBR-55	10.01.05.00006

*Additional material specifications at beginning of the section "Vacuum Suction Cups"

Technical data Suction Plates SPLO

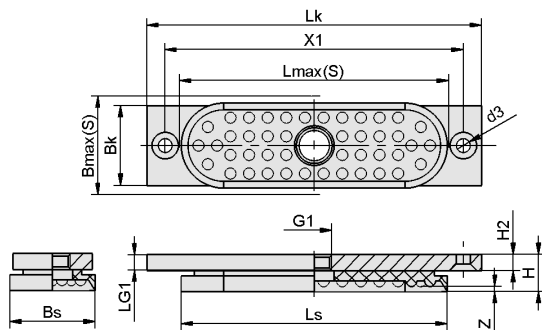
Type	Suction force (-600 mbar) [N]*	Volume [cm³]	Workpiece radius min. (convex) [mm]
SPLO 60x20 NBR-55 G1/8-IG	50	3	15
SPLO 100x30 NBR-55	126	10	25
SPLO 100x32 NBR-55 G1/4-IG	134	11	50
SPLO 100x32 NBR-55 TV	134	11	50
SPLO 150x55 NBR-55	340	60	75
SPLO 200x30 NBR-55	260	24	30
SPLO 200x55 NBR-55	465	80	50
SPLO 250x55 NBR-55	590	83	50
SPLO 300x30 NBR-55	400	32	30
SPLO 300x55 NBR-55	710	93	50
SPLO 300x100 NBR-55	1,250	256	175
SPLO 300x100 NBR-55 TV	1,250	256	175
SPLO 370x80 NBR-55	1,270	194	100

*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

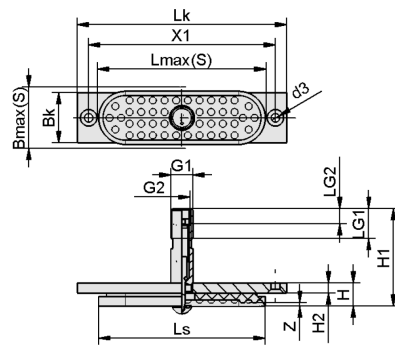
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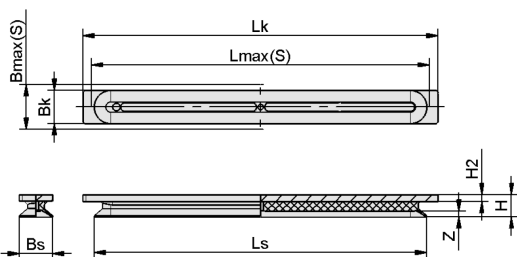
Design data Suction Plates SPLO



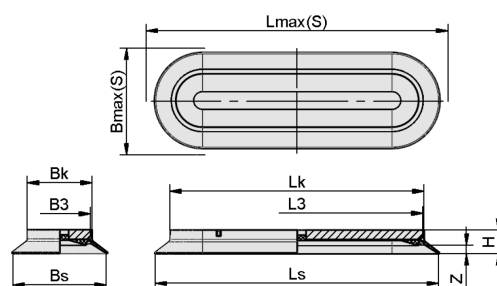
SPLO 60x20, 100x32



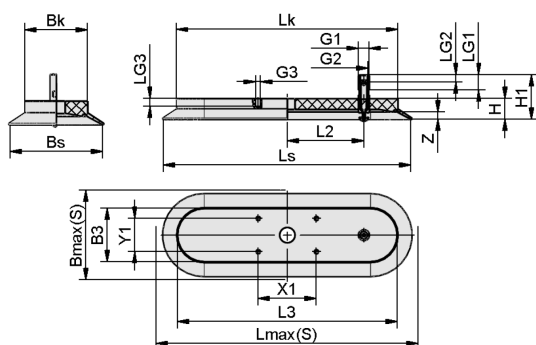
SPLO 100x32 TV



SPLO 100x30, 200x30, 300x30



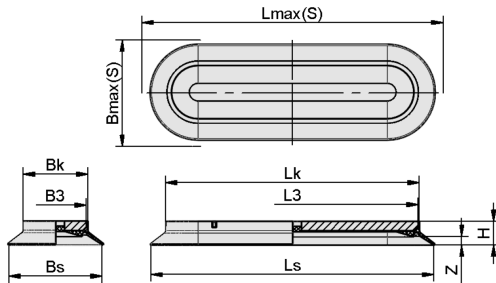
SPLO 300x100



SPLO 300x100 TV

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Suction area (LxW) from 60 x 20 mm to 370 x 80 mm



SPLO 370x80

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Suction area (LxW) from 60 x 20 mm to 370 x 80 mm

Design data Suction Plates SPLO

Type*	Bk [mm]	Bmax(S) [mm]**	Bs [mm]	B3 [mm]	d3 [mm]	G1	G2	Thread G3	H [mm]	H1 [mm]	H2 [mm]
SPLO 60x20 NBR-55 G1/8- IG	20	21.0	19.0	-	4.5	G1/8"-F	-	-	12.6	-	6
SPLO 100x30 NBR-55	30	33.5	28.7	-	-	-	-	-	21.0	-	6
SPLO 100x32 NBR-55 G1/4- IG	30	34.0	32.0	-	5.3	G1/4"-F	-	-	14.0	-	6
SPLO 100x32 NBR-55 TV	30	34.0	32.0	-	5.3	G1/4"-M	G1/8"-F	-	14.0	54.0	6
SPLO 150x55 NBR-55	32	61.0	52.3	29	-	-	-	-	19.4	-	-
SPLO 200x30 NBR-55	30	32.0	29.2	-	-	-	-	-	20.6	-	6
SPLO 200x55 NBR-55	31	62.0	50.7	26	-	-	-	-	22.0	-	-
SPLO 250x55 NBR-55	32	58.0	47.6	29	-	-	-	-	22.0	-	-
SPLO 300x30 NBR-55	30	33.0	30.0	-	-	-	-	-	20.0	-	6
SPLO 300x55 NBR-55	31	60.0	51.4	28	-	-	-	-	19.0	-	-
SPLO 300x100 NBR-55	68	108.0	98.8	65	-	-	-	-	25.0	-	-
SPLO 300x100 NBR-55 TV	68	108.0	98.8	65	-	G1/4"-M	G1/8"-F	M6-F	25.0	53.5	-
SPLO 370x80 NBR-55	53	86.0	79.4	45	-	-	-	-	25.0	-	-

*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

Type*	LG1 [mm]	LG2 [mm]	LG3 [mm]	Lk [mm]	Lmax(S) [mm]**	Ls [mm]	L2 [mm]	L3 [mm]	X1 [mm]	Y1 [mm]	Z (Stroke) [mm]
SPLO 60x20 NBR-55 G1/8- IG	6	-	-	75.0	61.0	59.0	-	-	65	-	3
SPLO 100x30 NBR-55	-	-	-	120.0	102.8	98.0	-	-	-	-	5
SPLO 100x32 NBR-55 G1/4- IG	6	-	-	125.8	102.0	100.0	-	-	112	-	2
SPLO 100x32 NBR-55 TV	18	9	-	125.8	102.0	100.0	-	-	112	-	2
SPLO 150x55 NBR-55	-	-	-	126.5	157.0	147.3	-	124.0	-	-	7
SPLO 200x30 NBR-55	-	-	-	220.0	203.0	200.0	-	-	-	-	6
SPLO 200x55 NBR-55	-	-	-	178.0	208.0	197.7	-	171.0	-	-	9
SPLO 250x55 NBR-55	-	-	-	226.0	255.0	243.0	-	224.5	-	-	8
SPLO 300x30 NBR-55	-	-	-	320.0	304.0	300.0	-	-	-	-	5
SPLO 300x55 NBR-55	-	-	-	275.3	305.0	296.4	-	273.0	-	-	7

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Suction area (LxW) from 60 x 20 mm to 370 x 80 mm

Type*	LG1 [mm]	LG2 [mm]	LG3 [mm]	Lk [mm]	Lmax.(S) [mm]**	Ls [mm]	L2 [mm]	L3 [mm]	X1 [mm]	Y1 [mm]	Z (Stroke) [mm]
SPLO 300x100 NBR-55	-	-	-	266.7	308.0	297.8	-	264.0	-	-	9
SPLO 300x100 NBR-55 TV	13	10	9	266.7	308.0	297.8	92	264.0	70	40	9
SPLO 370x80 NBR-55	-	-	-	344.9	376.0	372.4	-	338.0	-	-	8

*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