

Flat Suction Pads (Round)



Suction Plates SPK

Suction area (Ø) from 55 mm to 250 mm



Suitability for Industry-Specific Applications

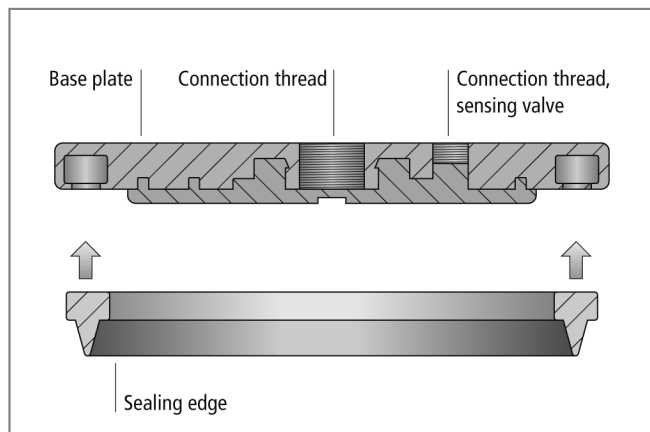


Suction plates SPK

Applications

- Round suction plate for handling of objects with very rough or structured surfaces (such as ornamental glass, checker plate, broken natural stone, etc.)
- Deactivation of unused suction plates by sensing valves (accessory)

Design



System design suction plates SPK

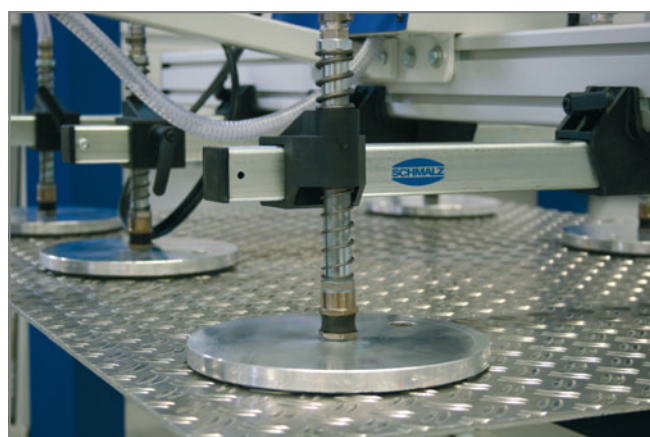
- Robust and wear-resistant suction plate SPK, consisting of flexible MOS sealing ring made of EPDM and aluminium base plate
- Sealing ring without seams
- Sealing ring is securely clipped into the base plate
- When worn, the sealing ring can be replaced separately
- Lower side of base plate with elastomer insert to prevent damage to workpieces
- Threaded hole for vacuum connection or sensing valve (off-center) sealed with a plug in the factory
- Sensing valve can be ordered as an accessory and is easily mounted, use medium-strength locking compound

Our Highlights...

- Sealing lip made of flexible EPDM
- Sealing ring clipped securely into the mounting plate
- Support on the bottom
- Low intrinsic volume
- Wide range of different diameters

Your Benefits...

- > Optimal adaptation to structured surfaces
- > Quick replacement of the sealing element
- > No permanent deformation of thin-walled workpieces
- > Very short cycle times
- > Wide range of pads for handling different workpieces



Suction plates SPK being used for handling corrugated sheet metal

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Designation Code Suction Plates SPK

Abbreviated designation	Suction area Ø in mm	Material and Shore hardness	Connection thread
Example SPK 110 MOS-15 G1/2-IG:			
SPK	110	MOS-15	G1/2-IG
SPK	55 to 250	MOS-15	G1/4-IG (IG = female (F)) G1/2-IG

Ordering Data Suction Plates SPK

Suction plate SPK (sealing ring + support plate) is delivered assembled. The assembly consists of:

- Sealing ring of type DR-SPK – elastomer part, available in various diameters
- Aluminium support plate, available with various threads

Available spare parts: sealing ring DR-SPK

Available accessories: sensing valve

Suction Plates SPK

Type	Part Number
SPK 55 MOS-15 G1/4-IG	10.01.01.12060
SPK 80 MOS-15 G1/4-IG	10.01.01.12061
SPK 110 MOS-15 G1/2-IG	10.01.01.12062
SPK 160 MOS-15 G1/2-IG	10.01.01.12063
SPK 200 MOS-15 G1/2-IG	10.01.01.12064
SPK 250 MOS-15 G1/2-IG	10.01.01.12065

Ordering Data Spare Parts And Accessories Suction Plates SPK

Type	Sealing ring DR-SPK	Sensing valve
SPK 55 MOS-15 G1/4-IG	10.01.01.12072	-
SPK 80 MOS-15 G1/4-IG	10.01.01.12073	10.05.10.00061
SPK 110 MOS-15 G1/2-IG	10.01.01.12074	10.05.10.00061
SPK 160 MOS-15 G1/2-IG	10.01.01.12075	10.05.10.00061
SPK 200 MOS-15 G1/2-IG	10.01.01.12076	10.05.10.00038
SPK 250 MOS-15 G1/2-IG	10.01.01.12077	10.05.10.00038

Technical Data Suction Plates SPK

Type	Suction force [N]*	Volume [cm ³]	Min. curve radius [mm] (convex)	Recom. internal hose diameter d [mm]**
SPK 55 MOS-15 G1/4-IG	121	15	250	9
SPK 80 MOS-15 G1/4-IG	256	32	300	9
SPK 110 MOS-15 G1/2-IG	471	67	-	12
SPK 160 MOS-15 G1/2-IG	1060	128	-	12
SPK 200 MOS-15 G1/2-IG	1700	198	-	12
SPK 250 MOS-15 G1/2-IG	2714	305	-	12

*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 refers to a hose length of approx. 2 m

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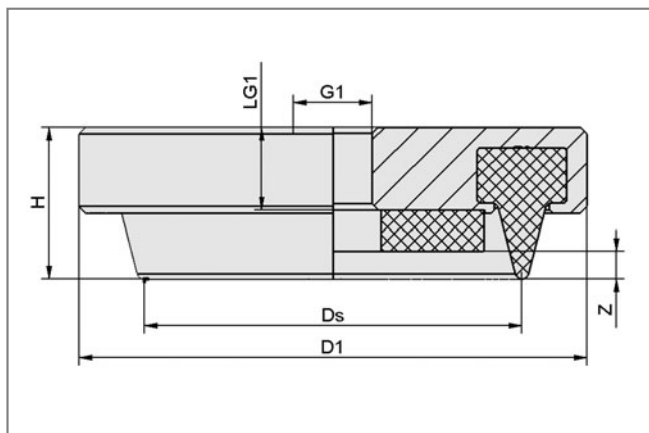


Suction Plates SPK

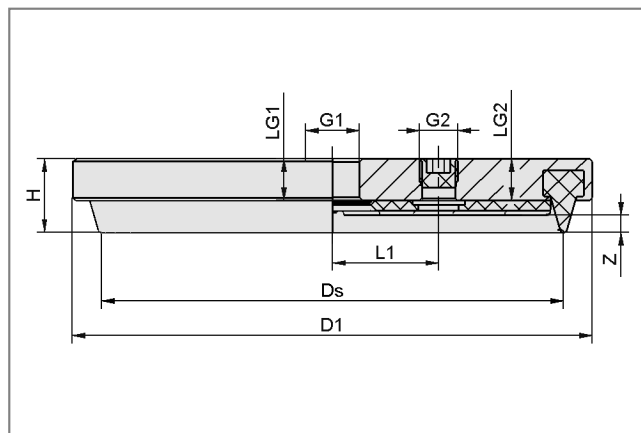
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Design Data Suction Plates SPK



SPK 55



SPK 80 to 250

Type	Dimensions in mm*								
	D1	Ds	G1	G2**	H	L1	LG1	LG2	Z (Stroke)
SPK 55 MOS-15 G1/4-IG	70	55	G1/4"-F	-	22.0	-	11.5	-	4
SPK 80 MOS-15 G1/4-IG	95	80	G1/4"-F	G1/4"-F	22.0	22.0	11.5	11.5	4
SPK 110 MOS-15 G1/2-IG	130	110	G1/2"-F	G1/4"-F	25.5	36.5	14.5	14.5	6
SPK 160 MOS-15 G1/2-IG	179	159	G1/2"-F	G1/4"-F	25.5	36.5	14.5	14.5	6
SPK 200 MOS-15 G1/2-IG	219	199	G1/2"-F	G1/2"-F	25.5	76.0	14.5	14.5	6
SPK 250 MOS-15 G1/2-IG	269	249	G1/2"-F	G1/2"-F	25.5	76.0	14.5	14.5	6

*Acceptable dimensional tolerances for rubber sealings concerning to DIN 3302 - M4

**A plug is fitted in this connection in the factory

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