

Bellows suction pads (oval)

Bellows suction pads FSGAO (1.5 folds)

Vacuum suction pads
2



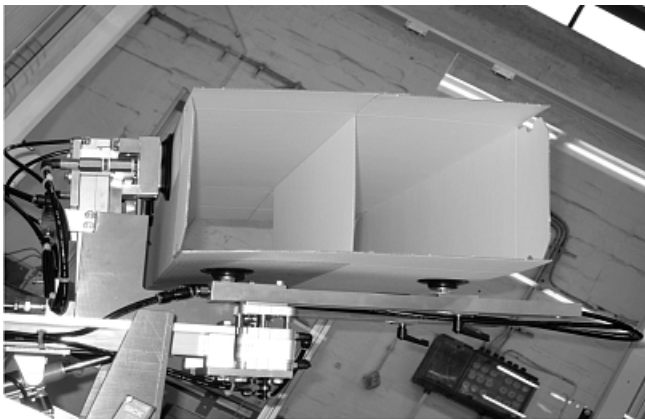
Bellows suction pad FSGAO

Our highlights...

- Special material Vulkollan VU1 with high resistance to tearing
- Oval, bellows suction pad with 1.5 folds
- Good resistance to chemicals
- Minimum abrasion: approx. 10 - 12 mm³ to DIN 53516
- Optimized shape with 1.5 folds

Your advantages...

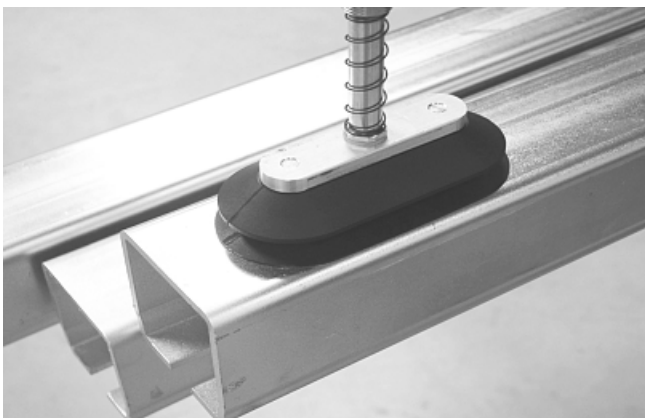
- >Very hard-wearing suction pad for heavy loads and a long lifetime
- >For all long, narrow workpieces (sections, pipes) and for stamped metal parts (such as car bodywork components)
- >Unaffected by oil (handling of sheet-metal parts)
- >Up to lifetime 20 times longer compared with standard NBR
- >High suction force and optimum damping effected during placement on the workpiece



Bellows suction pad FSGAO being used for handling cardboard boxes

Applications

- For hard use in multi-shift operations with very short cycle times
- Handling of oily and narrow, curved sheet-metal parts
- Handling of cardboard, wood and similar materials under rough operating conditions
- Handling of workpieces with extremely abrasive surfaces such as rough cardboard sheets



Bellows suction pads FSGAO for lifting long, narrow workpieces

Construction

- Robust and hard-wearing suction pad FSGAO with single sealing lip, consisting of suction pad FGAO (Vulkollan VU1) with 1.5 folds and connection plate
- Connection plate screwed to suction pad and capable of handling very heavy loads
- The suction pad can be replaced separately when worn
- Suction pads are delivered assembled

Suitability for branch-specific applications



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Designation code Bellows suction pads FSGAO (1.5 folds)

Short designation	Length x width in mm	Material and shore hardness	Connection thread
Example: FSGAO	140x65	VU1-72	G1/4-AG
FSGAO...with mounting plate	95x40	VU1-72	G1/8-AG (AG = male)
FSGAO...without mounting plate	140x65		G1/4-AG

Ordering data Bellows suction pads FSGAO (1.5 folds)

Type*	Article No.
FSGAO 95x40 VU1-72 G1/8-AG	10.01.06.00503
FSGAO 140x65 VU1-72 G1/4-AG	10.01.06.00498

*See Section 2, "Basic Principles of Suction-Pad Materials" for further details of materials

Ordering data spare parts suction pads

Type	Bellows suction pads (oval)	
FSGAO 95x40 VU1-72 G1/8-AG	FSGAO 95x40 VU1-72 N038	10.01.06.00499
FSGAO 140x65 VU1-72 G1/4-AG	FSGAO 140x65 VU1-72 N039	10.01.06.00468

Technical data Bellows suction pads FSGAO (1.5 folds)

Type	Suction force [N]*	Pull-off force [N]	Volume [cm ³]	Min. curve radius [mm] (convex)	Recom. internal hose diameter d [mm]	Nipple family
FSGAO 95x40 VU1-72 G1/8-AG	95	110	31	20	9	N 038
FSGAO 140x65 VU1-72 G1/4-AG	225	255	89	30	9	N 039

*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

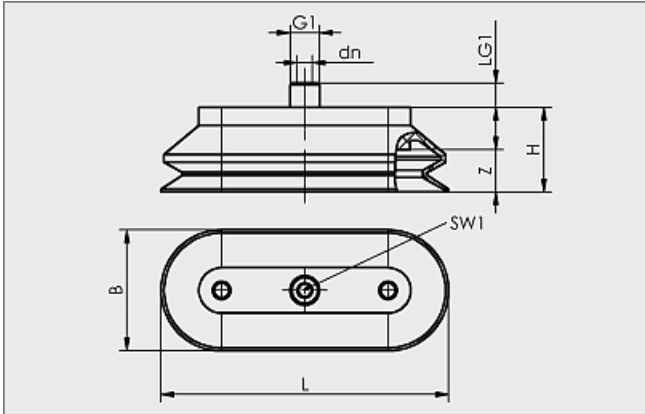
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Design data Bellows suction pads FSGAO (1.5 folds)

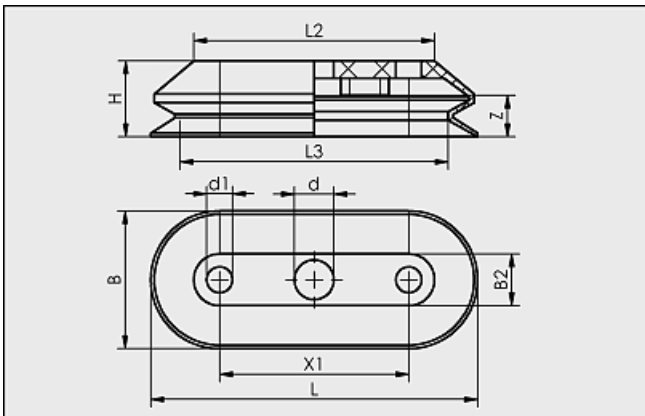


FSGAO 95x40 to 140x65 VU1

Type	Dimensions in mm*								
	B	dn	G1	H	L	LG1	SW1	Z (Stroke)	
FSGAO 95x40 VU1-72 G1/8-AG	40	5	G1/8"-M	28	95	8	4	12	
FSGAO 140x65 VU1-72 G1/4-AG	65	8	G1/4"-M	38	140	10	8	16	

*Acceptable dimensional tolerances for rubber parts concerning to M3 - DIN 7715

Design data Bellows suction pads FGAO (oval, 1.5 folds)



FGAO 95x40 to 140x65 VU1

Type	Dimensions in mm*									
	B	B2	d	d1	H	L	L2	L3	X1	Z (Stroke)
FGAO 95x40 VU1-72 N038	40	15	11,5	7,5	23,5	95	70	78	55	12
FGAO 140x65 VU1-72 N039	65	25	15,5	9,5	30,0	140	100	111	75	16

*Acceptable dimensional tolerances for rubber parts concerning to M3 - DIN 7715