

# Bellows suction pads (round)

Bellows suction pads FSG VU1 (2.5 folds)



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## Our highlights...

- Suction-pad material Vulkollan VU1 with high resistance to tearing
- Good resistance to chemicals
- Minimum abrasion: approx. 10 - 12 mm<sup>3</sup> to DIN 53516
- Supports on the bottom
- Very stiff top fold

## Your advantages...

- > Very hard-wearing suction pad for very high loading and a long lifetime
- > Unaffected by oil (handling of sheet metal)
- > Up to lifetime 20 times longer compared with standard NBR
- > No permanent deformation of thin-walled workpieces
- > Good resistance to horizontal forces at high acceleration values



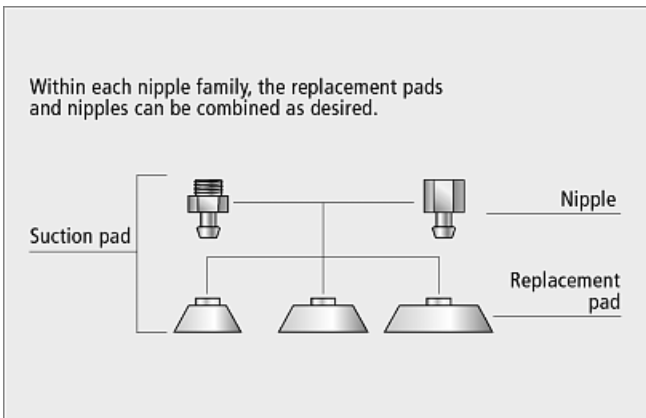
Wear-resistant bellows suction pad FSG VU1 for handling of sheet metal

## Applications

- For hard use in multi-shift operations with very short cycle times
- Suction pad with special groove: for handling oily metal sheets (better handling of lateral forces)
- Suction pad without special groove: for handling cardboard, wood and similar materials
- Handling of workpieces with very abrasive surfaces

## Construction

- Robust and hard-wearing suction pad FSG with single sealing lip, consisting of suction pad FG (Vulkollan VU1) with 2.5 folds and connection nipple
- Suction pad positively connected to nipple to prevent turning, even when lifting heavy loads
- Suction pads are delivered assembled



Modular suction-pad system



## Suitability for branch-specific applications

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## Designation code Bellows suction pads FSG VU1 (2.5 folds)

Short designation	Diameter in mm	Material and shore hardness	Connection thread	Additional function
Example: FSG	30	VU1-72	G1/4-AG	ON
FSG...with connection nipple	30	VU1-72	G1/4-IG/AG (AG = male; IG = female)	ON...oil slot
FG...without connection nipple	60			
	85			

## Ordering data Bellows suction pads FSG VU1 (2.5 folds)

Type	Connection	
	G1/4"-M	G1/4"-F
FSG 30 VU1	10.01.06.00200	10.01.06.00166
FSG 60 VU1	10.01.06.00238	10.01.06.00236
FSG 60 VU1 ON	10.01.06.00201	10.01.06.00171
FSG 85 VU1	10.01.06.00239	10.01.06.00237
FSG 85 VU1 ON	10.01.06.00202	10.01.06.00167

## Ordering data spare parts suction pads and suction pad nipples

Type	Bellows suction pad (round)	Type	Suction-pad connection nipple
FG 30 VU1	10.01.06.00173	FSG 30 VU1 G1/4-AG	SA-NIP N013 G1/4-AG DN350 10.01.06.00183
FG 60 VU1	10.01.06.00174	FSG 30 VU1 G1/4-IG	SA-NIP N013 G1/4-IG DN350 10.01.06.00180
FG 60 VU1 ON	10.01.06.00208	FSG 60 VU1 G1/4-AG	SA-NIP N014 G1/4-AG DN600 10.01.06.00184
FG 85 VU1	10.01.06.00175	FSG 60 VU1 G1/4-IG	SA-NIP N014 G1/4-IG DN600 10.01.06.00181
FG 85 VU1 ON	10.01.06.00209	FSG 85 VU1 G1/4-AG	SA-NIP N015 G1/4-AG DN600 10.01.06.00185
		FSG 85 VU1 G1/4-IG	SA-NIP N015 G1/4-IG DN600 10.01.06.00182

## Technical data Bellows suction pads FSG VU1 (2.5 folds)

Type	Suction force [N]*	Pull-off force [N]*	Volume [cm <sup>3</sup> ]	Min. curve radius [mm] (convex)	Recom. internal hose diameter d [mm]	Nipple family
FSG 30 VU1	13,5	32	9	25	6	N 013
FSG 60 VU1	61,0	100	61	50	6	N 014
FSG 85 VU1	120,0	250	195	60	6	N 015

\*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

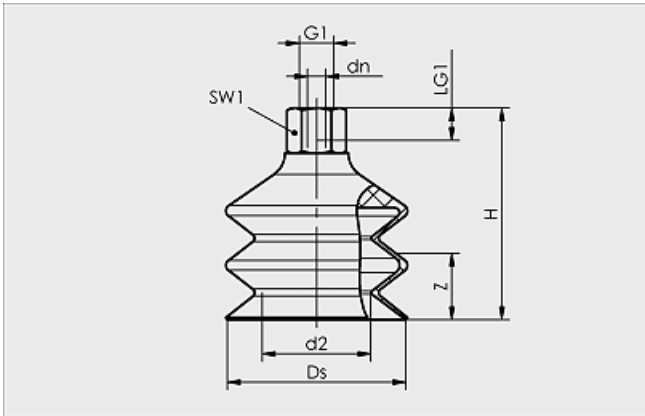
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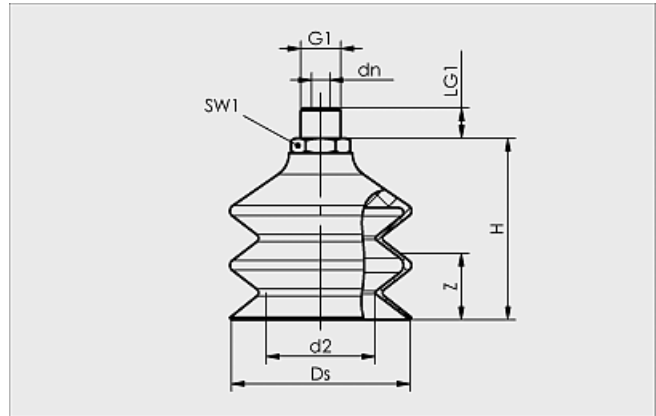


Vacuum suction pads  
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## Design data Bellows suction pads FSG VU1 (2.5 folds)



FSG 30 to 85 VU1 IG

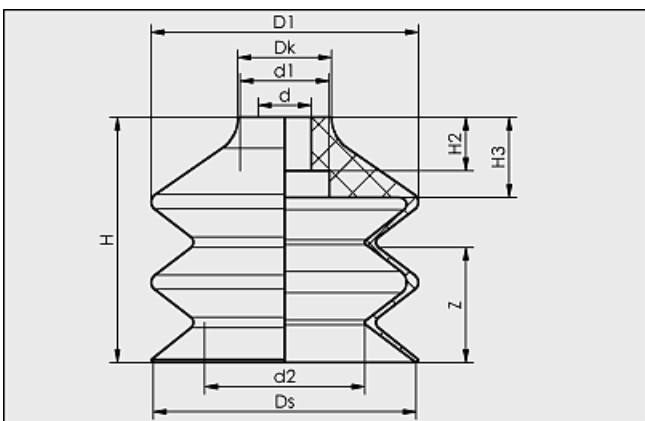


FSG 30 to 85 VU1 AG

Type	Dimensions in mm*							
	d2	dn	Ds	G1	H	LG1	SW1	Z (Stroke)
FSG 30 VU1 G1/4-AG	15	3,5	29,0	G1/4"-M	45	10	17	15
FSG 30 VU1 G1/4-IG	15	3,5	29,0	G1/4"-F	55	12	17	15
FSG 60 VU1 G1/4-AG	36	6,0	59,0	G1/4"-M	60	10	17	30
FSG 60 VU1 G1/4-IG	36	6,0	59,0	G1/4"-F	70	12	17	30
FSG 85 VU1 G1/4-AG	51	6,0	80,2	G1/4"-M	90	10	22	38
FSG 85 VU1 G1/4-IG	51	6,0	80,2	G1/4"-F	100	12	22	38

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

## Design data Bellows suction pads FG VU1 (2.5 folds)



FG 30 to 85 VU1

Type	Dimensions in mm*									
	d	d1	d2	D1	Dk	Ds	H	H2	H3	Z (Stroke)
FG 30 VU1	8	15	15	30	18	29,0	40	12	16	15
FG 60 VU1	12	20	36	60	21	59,0	55	12	18	30
FG 85 VU1	12	25	51	85	25	80,2	85	20	27	38

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