

Flat Suction Pads (Round)



Flat Suction Pads PFYN VU1

Suction area (Ø) from 15 mm to 95 mm



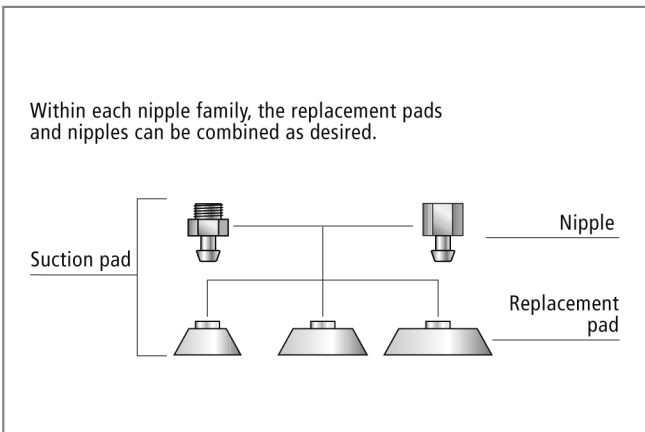
Suitability for Industry-Specific Applications



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Applications

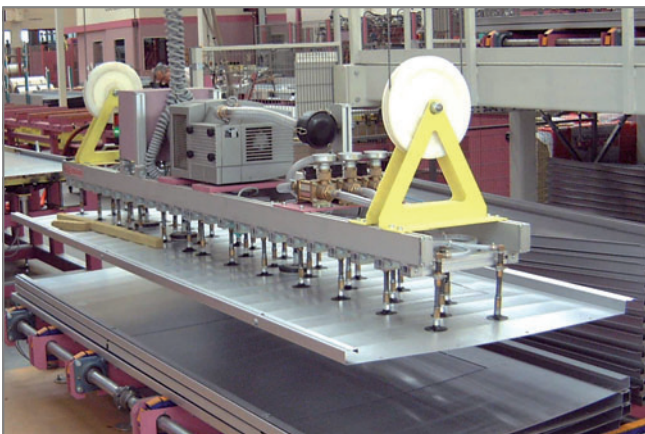
- Round, flat suction pad for applications in multi-shift operations with very shortcycle times
- Handling of oily metal sheets (automobile production), cardboard and sheets of wood
- Handling of extremely abrasive workpieces such as rough cardboard sheets



System design flat suction pads PFYN VU1

Design

- Robust, wear-resistant suction pad PFYN with single sealing lip, consisting of suction pad PFG, made of Vulkollan VU1, and connection nipple
- Suction pad with positive connection to nipple which withstands even very high loading



Flat suction pads PFYN VU1 being used for handling large sheet metal parts

Our Highlights...

- Material Vulkollan VU1, very resistant to tearing
- Good resistance to chemicals
- Very low wear, about 10- 12 mm³ to DIN 53516
- Supports on the bottom
- Temperature resistance: -40 °C to +80 °C, short-term resistance up to +100 °C

Your Benefits...

- > Extremely wear-resistant suction pad for very high loads and a long lifetime
- > Unaffected by oil (handling of sheet metal)
- > Lifetime up to 20 times higher, compared to standard NBR
- > No permanent deformation of thin-walled workpieces
- > Suitable for use at very low and high temperatures

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Designation Code Flat Suction Pads PFYN VU1

Abbreviated designation	Suction area Ø in mm	Material and Shore hardness	Connection thread
Example PFYN 80 VU1-72 G1/4-IG:			
PFYN	80	VU1-72	G1/4-IG
PFYN	15 to 95	VU1-72	G1/8-AG (AG = male (M)) G1/8-IG (IG = female (F)) G1/4-AG G1/4-IG

Ordering data Flat Suction Pads PFYN VU1

Suction pad PFYN VU1 (elastomer part + connection nipple) is delivered assembled. The assembly consists of:

- Suction pad of type PFG VU 1 – elastomer part, available in various diameters
- Connection nipple of type SA-NIP – available with various threads

Available spare parts: suction pad PFG VU1, connection nipple SA-NIP

Flat Suction Pads PFYN VU1

Type*	Connection			
	G1/4"-M	G1/4"-F	G1/8"-M	G1/8"-F
PFYN 15 VU1-72	-	-	10.01.01.00556	10.01.01.00557
PFYN 30 VU1-72	-	-	10.01.01.00550	10.01.01.00558
PFYN 50 VU1-72	10.01.01.00521	10.01.01.00547	-	-
PFYN 60 VU1-72	10.01.01.00608	10.01.01.00609	-	-
PFYN 80 VU1-72	10.01.01.00522	10.01.01.00524	-	-
PFYN 95 VU1-72	10.01.01.00523	10.01.01.00525	-	-

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

Ordering Data Spare Parts Suction Pads

Type*	Flat suction pad (round)	
PFYN 15 VU1-72	PFG 15 VU1-72 N005	10.01.01.00555
PFYN 30 VU1-72	PFG 30 VU1-72 N007	10.01.01.00549
PFYN 50 VU1-72	PFG 50 VU1-72 N011	10.01.01.00424
PFYN 60 VU1-72	PFG 60 VU1-72 N011	10.01.01.00606
PFYN 80 VU1-72	PFG 80 VU1-72 N012	10.01.01.00426
PFYN 95 VU1-72	PFG 95 VU1-72 N012	10.01.01.00430

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

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Ordering Data Spare Parts Connection Nipples

Type	Suction pad connection nipple	
PFYN 15 VU1-72 G1/8-AG	SA-NIP N005 G1/8-AG DN200	10.01.01.03529
PFYN 15 VU1-72 G1/8-IG	SA-NIP N005 G1/8-IG DN200	10.01.01.03521
PFYN 30 VU1-72 G1/8-AG	SA-NIP N007 G1/8-AG DN240	10.01.01.03531
PFYN 30 VU1-72 G1/8-IG	SA-NIP N007 G1/8-IG DN350	10.01.01.03523
PFYN 50 VU1-72 G1/4-AG	SA-NIP N011 G1/4-AG DN350	10.01.01.10663
PFYN 50 VU1-72 G1/4-IG	SA-NIP N011 G1/4-IG DN350	10.01.01.00412
PFYN 60 VU1-72 G1/4-AG	SA-NIP N011 G1/4-AG DN350	10.01.01.10663
PFYN 60 VU1-72 G1/4-IG	SA-NIP N011 G1/4-IG DN350	10.01.01.00412
PFYN 80 VU1-72 G1/4-AG	SA-NIP N012 G1/4-AG DN500	10.01.01.10664
PFYN 80 VU1-72 G1/4-IG	SA-NIP N012 G1/4-IG DN600	10.01.01.00528
PFYN 95 VU1-72 G1/4-AG	SA-NIP N012 G1/4-AG DN500	10.01.01.10664
PFYN 95 VU1-72 G1/4-IG	SA-NIP N012 G1/4-IG DN600	10.01.01.00528

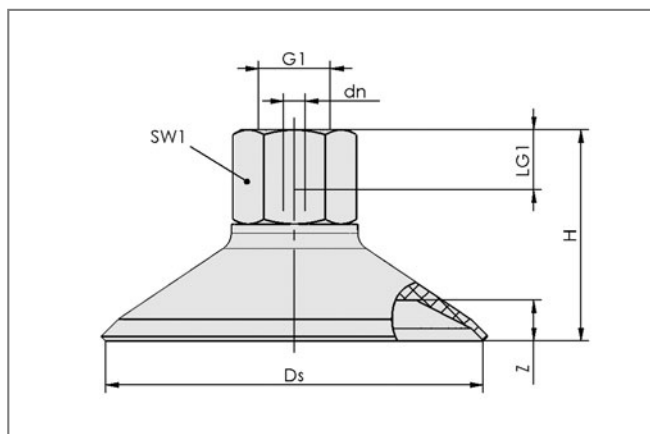
Technical Data Flat Suction Pads PFYN VU1

Type	Suction force [N]*	Volume [cm ³]	Min. curve radius [mm] (convex)	Recom. internal hose diameter d [mm]**	Nipple family
PFYN 15 VU1-72	8.5	0.5	13	4	N 005
PFYN 30 VU1-72	32.0	1.7	30	4	N 007
PFYN 50 VU1-72	95.0	6.0	75	6	N 011
PFYN 60 VU1-72	130.0	15.0	75	6	N 011
PFYN 80 VU1-72	260.0	30.0	100	6	N 012
PFYN 95 VU1-72	350.0	42.0	140	6	N 012

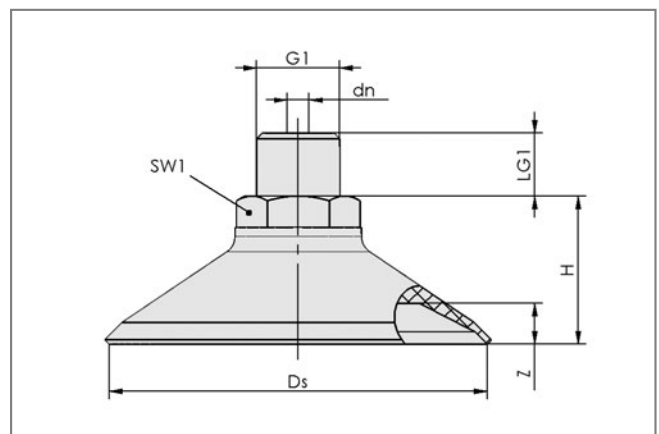
*The specified suction forces are theoretical values at a vacuum of -0.6 bar and with a smooth, dry workpiece surface - they do not include a safety factor

**The recommended hose diameter refers to a hose length of approx. 2 m

Design Data Flat Suction Pads PFYN VU1



PFYN 15 to 95 VU1 IG



PFYN 15 to 95 VU1 AG

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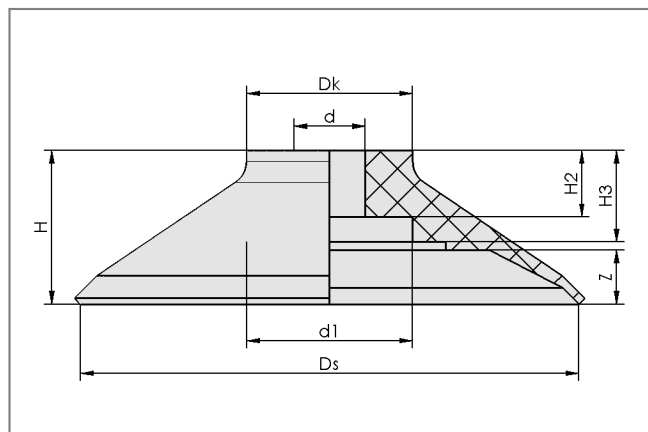
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Design Data Flat Suction Pads PFYN VU1

Type	Dimensions in mm*							
	dn	Ds	G1	H	LG1	SW1	Z (Stroke)	
PFYN 15 VU1-72 G1/8-AG	2.0	14.5	G1/8"-M	14.5	8	14	1.5	
PFYN 15 VU1-72 G1/8-IG	2.0	14.5	G1/8"-F	25.5	9	14	1.5	
PFYN 30 VU1-72 G1/8-AG	2.0	30.0	G1/8"-M	18.0	8	14	3.0	
PFYN 30 VU1-72 G1/8-IG	2.0	30.0	G1/8"-F	29.0	9	14	3.0	
PFYN 50 VU1-72 G1/4-AG	3.5	50.0	G1/4"-M	22.0	10	17	4.5	
PFYN 50 VU1-72 G1/4-IG	3.5	50.0	G1/4"-F	32.0	12	17	4.5	
PFYN 60 VU1-72 G1/4-AG	3.5	60.0	G1/4"-M	23.5	10	17	6.0	
PFYN 60 VU1-72 G1/4-IG	3.5	60.0	G1/4"-F	33.5	12	17	6.0	
PFYN 80 VU1-72 G1/4-AG	6.0	80.0	G1/4"-M	30.0	10	22	6.0	
PFYN 80 VU1-72 G1/4-IG	6.0	80.0	G1/4"-F	40.0	12	22	6.0	
PFYN 95 VU1-72 G1/4-AG	6.0	95.0	G1/4"-M	30.0	10	22	6.0	
PFYN 95 VU1-72 G1/4-IG	6.0	95.0	G1/4"-F	40.0	12	22	6.0	

*Acceptable dimensional tolerances for rubber parts concerning to DIN ISO 3302-1 M3

Design Data Flat Suction Pads PFG VU1 - Spare Parts for PFYN VU1



PFG VU1

Type	Dimensions in mm*							
	d	d1	Dk	Ds	H	H2	H3	Z (Stroke)
PFG 15 VU1-72	4.5	8.5	11.5	14.5	9.5	2.5	4.5	1.5
PFG 30 VU1-72	6.0	11.0	16.0	30.0	13.0	7.0	7.0	3.0
PFG 50 VU1-72	8.0	13.0	18.0	50.0	17.0	8.0	11.0	4.5
PFG 60 VU1-72	8.0	20.0	20.0	60.0	18.5	8.0	11.0	6.0
PFG 80 VU1-72	12.0	25.0	25.0	80.0	25.0	12.0	17.5	6.0
PFG 95 VU1-72	12.0	25.0	31.0	95.0	25.0	12.0	16.5	6.0

*Acceptable dimensional tolerances for rubber parts concerning to DIN ISO 3302-1 M3

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