

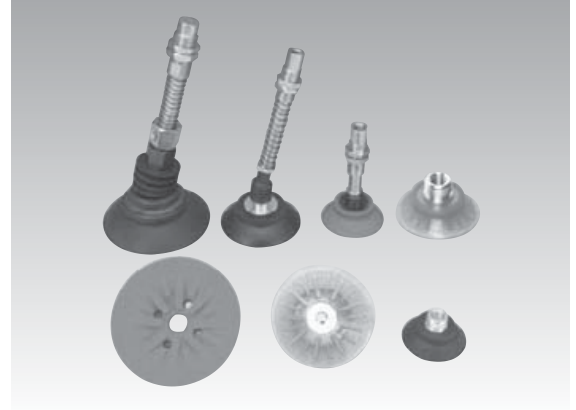
VFC Model (Flat Curve)

Features and Strengths

This pad is specifically designed to cope with both flat and curved surfaces, which means that multiple objects can be handled with the same vacuum pad.

Suitable for Handling

- Automotive Windscreens, Roof and Door.
- Sheet Metal
- Shaped Sheet Metal Panels
- TV Cathodray Tube



Order No.

VFC50 **PU** - **1838MF** **EV** - **L1820T** **BJ18**

① ② ③ ④ ⑤ ⑥

▶ See pages 59, 76-80.

① Vacuum pad Ø

- **VFC50** – Ø50
- VFC60 – Ø60
- VFC60X1 – Ø60
- VFC75 – Ø75
- VFC75X1 – Ø75
- VFC75X2 – Ø75
- VFC90 – Ø90*
- VFC100 – Ø100

*Only for PU Material

② Material

- N – NBR
 - S – Silicon
 - CS – C. Silicon
 - U – Urethane
 - **PU** – Poly Urethane *
- * Only for VFC50, VFC60
VFC75, VFC90, VFC100

③ Thread size

- M10M – M10XP1,5 male (VFC60X1, VFC75X1)
- M16M – M16XP1,0 male (VFC75X2)
- **1838MF** – G1/8" female and G3/8" male (VFC50, VFC60, VFC75)
- 18F(A) – G1/8" female (VFC90, VFC100)
- 14F(A) – G1/4" (VFC90, VFC100)
- 38F(A) – G3/8" female (VFC90, VFC100)
- 12F(A) – G1/2" feamale (VFC90, VFC100)

(A) : AL-Material (Only VFC90, VFC100)

④ Valves

- no mark – standard
- **EV** – Vacuum efficiency valve (See page :26)
(VFC50, VFC60, VFC75)

Accessories order no.

L1820T BJ18

⑤

⑥

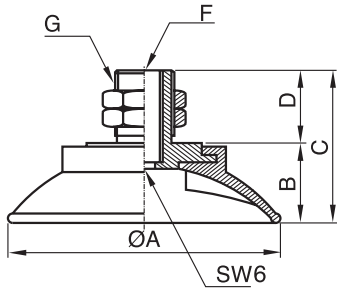
⑤ Level spring		⑥ Ball joint model
Model	Stroke	
L1805M	5	• BJ18
L1810T	10	
L1810TS	10	
L1815T	15	
• L1820T	20	
L1820TN*	20	
L1830	30	
L1830T	30	
L1850	50	
L1850T	50	
L1230	30	BJ12
L1230T	30	
L1250	50	
L1250T	50	

* Not available with ball joint(BJ)

Recommended (max.) lifting forces when using level springs

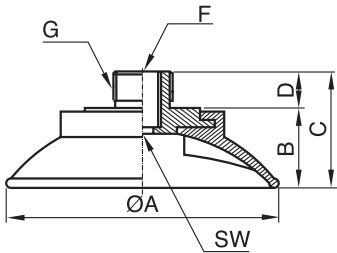
Model	Volume (cm ³)	Lifting Force (kg)			Lifting Force (kg)			Level spring model
		-20kPa	-60kPa	-90kPa	-20kPa	-60kPa	-90kPa	
VFC50	10	3.57	8.67	12.75	3.57	8.67	11.22	L1805M, L1810T(TS), L1815T, L1820T(TN), L1830(T), L1850(T)
VFC60	20	5.5	14	18.5	5.4	14	18.9	L1805M, L1810T(TS), L1815T, L1820T(TN), L1830(T), L1850(T)
VFC60X1	20	5.5	14	18.5	5.4	14	18.9	–
VFC75	30	7.65	19.38	25.51	8.16	20.40	27.55	L1805M, L1810T(TS), L1815T, L1820T(TN), L1830(T), L1850(T)
VFC75X1	30	7.65	19.38	25.51	8.16	20.40	27.55	–
VFC75X2	30	7.65	19.38	25.51	8.16	20.40	27.55	–
VFC90	60	9.35	24.82	32.65	9.52	21.59	27.89	L1805M, L1810T(TS), L1815T, L1820T(TN), L1830(T), L1850(T), L1230(T), L1250(T)
VFC100	80	12.75	35.71	46.93	12.24	23.97	28.57	L1805M, L1810T(TS), L1815T, L1820T(TN), L1830(T), L1850(T), L1230(T), L1250(T)

Dimensional Information



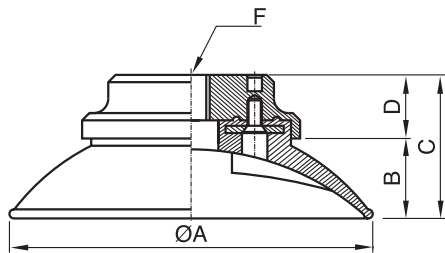
◀ Male thread

Model	ØA	B	C	D	F	G
VFC75X2	75	22	42	20	G1/8"	M16 x P1.0



◀ Female thread/Male thread

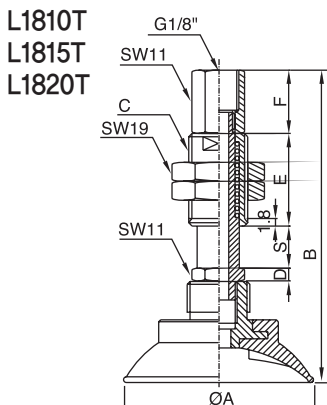
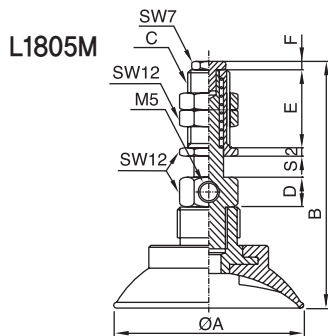
Model	ØA	B	C	D	F	G	SW
VFC50	50	16.5	26.5	10	G1/8"	G3/8"	6
VFC60	60	21.5	31.5	10	G1/8"	G3/8"	6
VFC60X1	60	21.5	31.5	10	-	M10 x P1.5	6
VFC75	75	23.5	33.5	10	G1/8"	G3/8"	6
VFC75X1	75	23.5	33.5	10	-	M10 x P1.5	4



◀ Female thread

Model	ØA	B	C	D	F
VFC90	90	16.5	34.5	18	G1/8", G1/4", G3/8", G1/2"
VFC100	100	22.5	40	18	G1/8", G1/4", G3/8", G1/2"

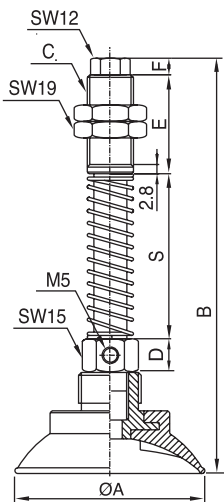
Dimensional information including level spring



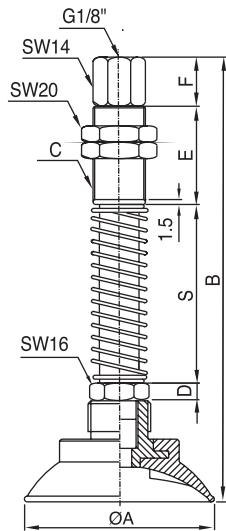
Vacuum pad	Level spring Model	ØA	B	C	D	E	F	S (stroke)
VFC50	L1805M	50	63	M10XP1.0	9	18.5	2	0-5 (5)
VFC60		60	68					
VFC75		75	70					
VFC100		100	76.5					
VFC50	L1810T	50	76.5	M14XP1.5	3	22	15	0-10 (10)
VFC60		60	81.5					
VFC75		75	83.5					
VFC100	L1815T	100	90	M14XP1.0	3	27	15	0-15 (15)
VFC50		50	86.5					
VFC60		60	91.5					
VFC75		75	93.5					
VFC100	L1820T	100	100	M16XP1.0	3	35	15	0-20 (20)
VFC50		50	100.1					
VFC60		60	105.1					
VFC75		75	107.1					
VFC100		100	113.6					

Dimensional information including level spring

L1830
L1850



L1850T

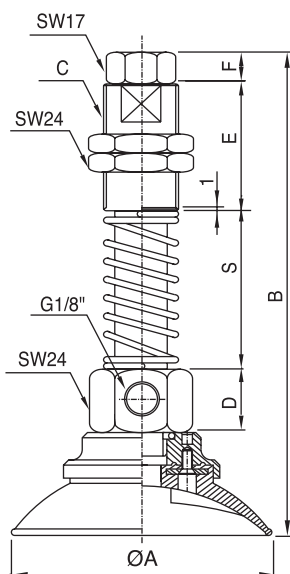


Vacuum pad	Level spring Model	ØA	B	C	D	E	F	S (stroke)
VFC50	L1830	50	122,5	M14XP1,5	11	30	5	20-50 (30)
VFC60		60	127,5					
VFC75		75	129,5					
VFC100		100	136					
VFC50	L1850	50	142,5	M14XP1,5	11	30	5	20-70 (50)
VFC60		60	147,5					
VFC75		75	149,5					
VFC100		100	156					
VFC50	L1850T	50	146,5	M16XP1,0	5	30	15	20-70 (50)
VFC60		60	151,5					
VFC75		75	153,5					
VFC100		100	160					

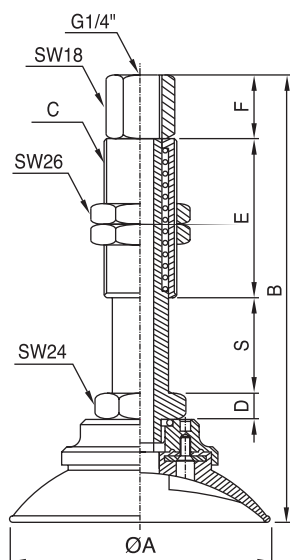
VACUUM PAD

Vacuum pad	Level spring Model	ØA	B	C	D	E	F	S (stroke)
VFC100	L1230	100	160	M20XP1,5	20	40	10	20-50(30)
VFC100	L1250	100	200	M20XP1,5	20	40	10	40-90(50)
VFC100	L1230T	100	148	M22XP1,5	8	50	20	0-30(30)

L1230
L1250

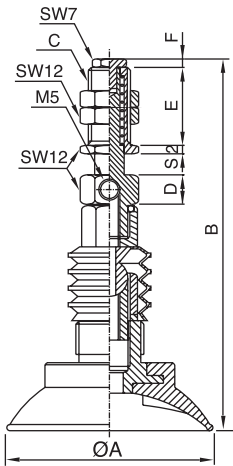


L1230T

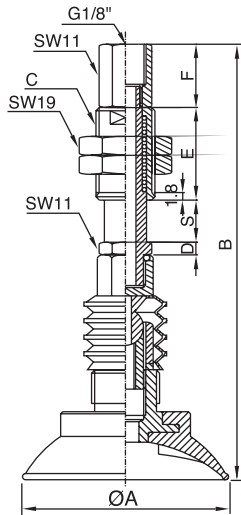


Dimensional information including level spring & Ball joint

L1805M-BJ18

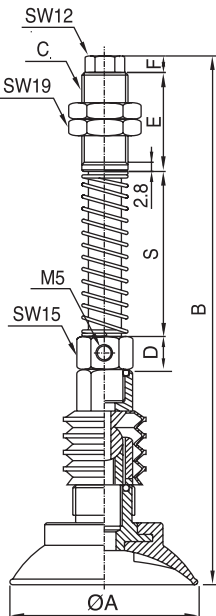


L1810T-BJ18
L1815T-BJ18
L1820T-BJ18

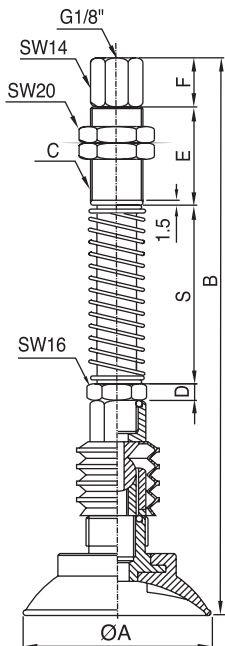


Vacuum pad	Level spring-Ball joint Model	ØA	B	C	D	E	F	S (stroke)
VFC50	L1805M-BJ18	50	91	M10XP1,0	9	18,5	2	0-5 (5)
VFC60		60	96					
VFC75		75	98					
VFC100		100	104,5					
VFC50	L1810T-BJ18	50	104,5	M14XP1,5	3	22	15	0-10 (10)
VFC60		60	109,5					
VFC75		75	111,5					
VFC100		100	118					
VFC50	L1815T-BJ18	50	114,5	M14XP1,0	3	27	15	0-15 (15)
VFC60		60	119,5					
VFC75		75	121,5					
VFC100		100	128					
VFC50	L1820T-BJ18	50	128,1	M16XP1,0	3	35	15	0-20 (20)
VFC60		60	133,1					
VFC75		75	135,1					
VFC100		100	141,6					

L1830-BJ18
L1850-BJ18



L1850T-BJ18



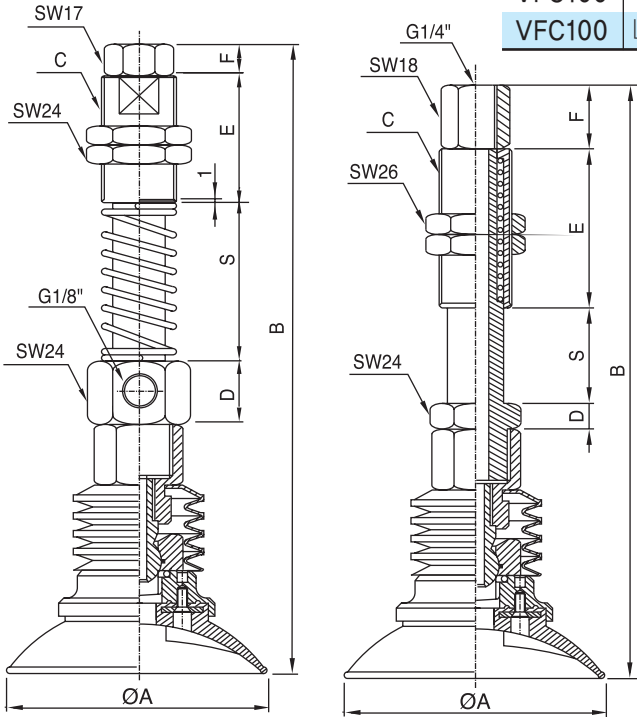
Vacuum pad	Level spring-Ball joint Model	ØA	B	C	D	E	F	S (stroke)
VFC50	L1830-BJ18	50	150,5	M14XP1,5	11	30	5	20-50 (30)
VFC60		60	155,5					
VFC75		75	157,5					
VFC100		100	164					
VFC50	L1850-BJ18	50	170,5	M14XP1,5	11	30	5	20-70 (50)
VFC60		60	175,5					
VFC75		75	177,5					
VFC100		100	184					
VFC50	L1850T-BJ18	50	174,5	M16XP1,0	5	30	15	20-70 (50)
VFC60		60	179,5					
VFC75		75	181,5					
VFC100		100	188					

Dimensional information including level spring & Ball joint

L1230-BJ12
L1250-BJ12

L1230T-BJ12

Vacuum pad	Level spring-Ball joint Model	ØA	B	C	D	E	F	S (stroke)
VFC100	L1230-BJ12	100	204	M20XP1,5	20	40	10	20-50(30)
VFC100	L1250-BJ12	100	244	M20XP1,5	20	40	10	40-90(50)
VFC100	L1230T-BJ12	100	192	M22XP1,5	8	50	20	0-30(30)

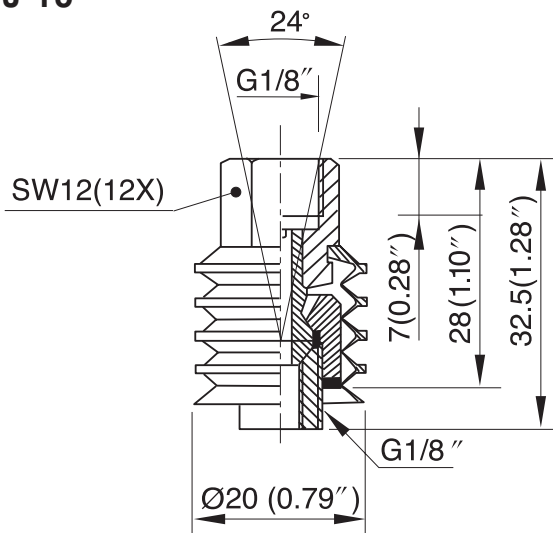


VACUUM PAD

Ball Joints

Model	Thread Size	Angle	Max. Load	Weight(g)
BJ 18	G1/8"	±12°	25kg	19
BJ 12	G1/2"	±12°	50kg	112

► BJ 18



► BJ 12

